EU Grants: Application form (CEF-T): V2.0 - 01.06.2022

IMPORTANT NOTICE

What is the Application Form?

The Application Form is the template for EU grants applications; it must be submitted via the EU Funding & Tenders Portal before the call deadline.

The Form consists of 2 parts:

- Part A contains structured administrative information
- · Part B is a narrative technical description of the project.

Part A is generated by the IT system. It is based on the information which you enter into the Portal Submission System screens.

Part B needs to be uploaded as PDF (+ annexes) in the Submission System. The templates to use are available there.

How to prepare and submit it?

The Application Form must be prepared by the consortium and submitted by a representative. Once submitted, you will receive a confirmation.

Character and page limits:

- page limit normally 120 pages (unless otherwise provided in the Call document)
- supporting documents can be provided as an annex and do not count towards the page limit
- minimum font size Arial 9 points
- page size: A4
- margins (top, bottom, left and right): at least 15 mm (not including headers & footers).

Please abide by the formatting rules. They are NOT a target! Keep your text as concise as possible. Do not use hyperlinks to show information that is an essential part of your application.

L If you attempt to upload an application that exceeds the specified limit, you will receive an automatic warning asking you to shorten and re-upload your application. For applications that are not shortened, the excess pages will be made invisible and thus disregarded by the evaluators.

L Please do NOT delete any instructions in the document. The overall page limit has been raised to ensure equal treatment of all applicants.

1. This document is tagged. Be careful not to delete the tags; they are needed for the processing.

Definizione stile: Titolo 4 Definizione stile: Sommario 3

1

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TECHNICAL DESCRIPTION (PART B)

COVER PAGE

Part B of the Application Form must be downloaded from the Portal Submission System, completed and then assembled and re-uploaded as PDF in the system. Page 1 with the grey IMPORTANT NOTICE box should be deleted before uploading.

Note:

Please read carefully the conditions set out in the Call document (for open calls: published on the Portal). Pay particular attention to the award criteria; they explain how the application will be evaluated.

The term 'project' used in this application form and other documents is synonymous to the term 'action' used in the CEF Regulation 2021/1153.

PROJECT	
Project name:	Cross-border section of the new Turin-Lyon railway line or the Mediterranean TEN-T CNC
Project acronym:	TELT
Coordinator contact:	, TELT
Starting date	January 2024
Duration	months

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PROJECT SUMMARY

Project summary
See Abstract (Application Form Part A).
This project is at the heart of the European dream for the construction of a TEN-T Network, and it consists
n the realization of the works for the cross-border section of the new Turin-Lyon line and of the Mon
Cenis base tunnel. The new rail line constitutes a major element of the local, national and Europear
transportation system, ensuring significant improvements in the transit times and modal shift in favour
passenger and cargo rail services, improving accessibility and limiting the congestion and all the
environmental externalities of the valleys produced by by road traffic. The Turin-Lyon is an essential par
of the Mediterranean Corridor, being one of the 9 railway axes that belongs to the European TEN-T
network.
The base tunnel, that is the main component of the cross-border section, is currently at an advanced state
of construction with cofinancing from Italy, France, and Europe. In particular, the European Commission
s funding the realization of the cross-border tunnel through the CEF funding programmes (on-going Action
"2014-EU-TM-0401-M-Cross Border Section of the New Turin-Lyon Rail Link Mont Cenis base tunnel")
The present project represents the follow-up of this initiative for the European programming period 2021
The project is located between Saint-Jean-de-Maurienne and Susa/Bussoleno of the French-Italian
common part as defined by the International Treaty of 2012. It includes the connection to the existing line
n Saint-Jean-de-Maurienne railway station, the Mont- Cenis cross-border base tunnel (around 57.5 km)
the Susa valley crossing, the interconnecting tunnel between Susa and Bussoleno (approx. 2 km) and the
entry into the existing Bussoleno railway station.
The project promoter of this Application is TELT Tunnel Euralpin Lyon Turin, which is the public binationa
promoter responsible for the realization and operation of the cross-border section of the mixed Turin-Lyor
freight/passenger railway line

#§PRJ-SUM-PS§# #@REL-EVA-RE@# #@PRJ-OBJ-PO@#

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0. PROJECT DESCRIPTION

Project description, scope and objectives

Describe the project scope, main goals and objectives, as well as the technical data.

- Please use the following structure:
- Overall objective
- General description and context describe the context, including political priorities and if the project is part
 of a bigger project ('global project', including projects of common interest)
- Location -- mention where on the network/corridors the project will be implemented
- Justification describe the current situation and needs analysis
- Specific objectives list and link them to the work packages used in section 6
- Expected outcomes and results include facts and statistics (for instance, quantitative information expressed in km, MVA, Bcm/y, kV, bar, etc.).

1- Overall objective

This project is at the heart of the European dream for the construction of a TEN-T Network, and it consists in the realization of the works for the cross-border section of the new Turin-Lyon line and of the Mont Cenis base tunnel between Italy and France.



Works for the construction of the base tunnel of the Mont Cenis

The project is located between Saint-Jean-de-Maurienne and Susa/Bussoleno and It includes the connection to the existing line in Saint-Jean-de-Maurienne, the Mont-Cenis cross-border base tunnel (around 57.7 km), the Susa valley crossing, the interconnecting tunnel between Susa and Bussoleno (approx. 2 km) and the entry into the existing Bussoleno railway station.

The Turin-Lyon railway section is an essential part of the Mediterranean TEN-T Core Network Corridor, one of the 9 multimodal axes belonging to the European TEN-T network. The line between France and Italy represents the central section of a railway corridor across railway corridor across Spain, France, Italy, Slovenia, Croatia and Hungary, serving 18% of the European population and 17% of the EU's GDP. An axis that unites East and West of the continent, crossing 7 of the 9 European Corridors financed by the EU. The Corridor has a length of about 3,000 km and was created to promote economic exchanges and strengthen the competitiveness of the countries of Mediterranean Europe, through a railway network at the same time of high speed and high freight / passenger capacity, which also crosses the major ports, maritime and river ports, rail-road terminals, large cities, and airports.

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2- General description and justification

The realisation of the Turin-Lyon line is established by four international agreements between Italy and France (1996, 2001, 2012 and 2015, supplemented by the Additional Protocol of 2016). Between the end of 2016 and the beginning of 2017, the Italian and French parliaments ratified the agreements, allowing the final works to start¹. With this step, the decision-making procedure for the work was completed, in Italy and France. In addition, this project is the result of a wide participatory planning. In Italy, it was managed by the Turin-Lyon Observatory, established by the Italian government in 2006. After 205 work sessions and 300 auditions of technicians and experts, and 10 route alternatives, a definitive project route was established in 2013 and approved in 2015. A Débat Public (Public Consultation) took place in France before the works were approved, coordinated by an independent commission, regarding the feasibility of the realization of the works and the project itself.

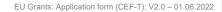
The new tunnel will transform the current mountainous rail line into a plain railway, making rail transport more competitive. Trains that travel on flat ground allow energy savings and achieve higher speeds. In the Italian-French section, the current (so-called "historic") line does not currently comply with international transport standards: it climbs the mountain with a slope of up to 30%, so the freight trains need up to 3 locomotives, with a 40% higher energy cost. The diameter of the old Fréjus tunnel, inaugurated in 1871, is smaller than that required by current international standards and it has a single-tube which does not meet current safety standards. When the Turin-Lyon line will be operational, over 1 million lorries used for international road transport will no longer be present on alpine roads, thus reducing CO2 emissions by 3 million tons per year. The reduction of polluting emissions in the Alpine region is one of the primary objectives set by COP21, the Climate Conference held in Paris in 2015, during which the need to transfer 30% of freight to railway transport by and 50% of it by the was reiterated. Once completed, the new tunnel will allow the passage of trains with a maximum length of 750 meters. The average speed on the line is 220 km/h, and equal to 100-120 km/h for goods and railway motorway. The capacity of the convoys will increase from the current 1,050 tons to 2,050 tons, making rail freight transport very attractive on this cross-border route.

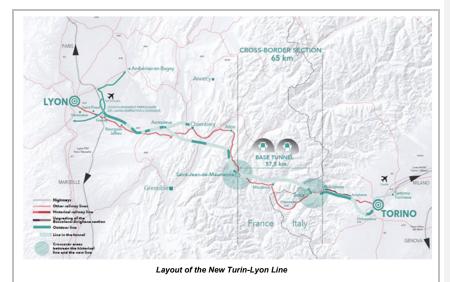
For the purposes of the present CEF action, the overall construction of the New Turin-Lyon Line (NLTL) represents the Global Project. The Global Project is divided into three sections: a French national section from Lyon to Saint-Jean-de-Maurienne, entrusted to the test of the section of the Moncenis from Saint-Jean-de-Maurienne to Bussoleno under the responsibility of Tunnel Euralpin Lyon Turin SAS (TELT); the Italian national section, under the responsibility of Speed – High Capacity railway line Turin-Milan near Settimo Torinese. The present application refers to construction works of the cross-border section (Alpine crossing – TELT). The base tunnel, at the heart of this initiative, is currently at an advanced state of construction with co-financing from Italy, France and Europe. Also the European Commission has financed the realization of the cross-border tunnel through the TEN-T and CEF funding programmes (ongoing Action "2014-EU-TM-0401-M-Cross Border Section of the New Turin-Lyon Rail Link Mont Cenis base tunnel (TBM).

In particular we are referring to the following agreements: "Accord entre le Gouvernement de la République française et le Gouvernement de la République italienne pour l'engagement des travaux définitifs de la section transfrontalière de la nouvelle ligne ferroviaire Lvon-Turin / Accordo tra il Governo della Repubblica francese e il Governo della Repubblica italiana per l'avio de la voir definitivi della sezione transfrontalière de la nouvelle von Turin / Accordo tra il Governo della nuova linea ferroviaria Torino-Lione" of February 24th 2015; "Protocole additionnel entre le Gouvernement de la République française et le Gouvernement de la République italienne à l'Accord du 24 février 2015 pour l'engagement des travaux définitifs de la section transfrontalière de la nouvelle ligne ferroviaire Lyon Turin"/Protocole additionale tra II Governo della Repubblica francese e II Governo della Repubblica italiana all'Accord de 24 febraio 2015 per l'avio de lavoir definitivi della sezione transfrontaliera deila nuova linea ferroviaria Lione

Torino" of March 8th 2016

ha eliminato: (Italian Law n. 1 of 5th January 2017)





3- Location

This project is located on the cross-border section of the Turin-Lyon railway line along the Mediterranean TEN-T Core Corridor. This line corresponds to a pre-identified priority section identified by the Annex Part III of the EC Regulation 1153/2021. Two Regions are directly involved by the project: Auvergne-Rhône-Alpes (France) and Piedmont (Italy). More specically the following Municipality are involved:

- Italy: Susa, San Didero, Buttigliera Alta, Chiomonte, Giaglione, Venaus, Salbertrand, Caprie, Torrazza;
- France: Villarodin-Bourget, Modane, Avrieux, Saint Martin La Porte, La Praz, Saint Julien Mont Denis, Saint Jean de Maurienne, Villargondrand.

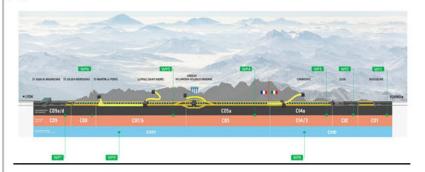
4- Specific objectives

The present proposal aims at realising the Mont Cenis base tunnel, core part of the NLTL, through a number of technical Work Packages, each of them corresponding to a specific objective of the project and its realization. The project consists in the realization of two independent tunnels connected by 180 by-passes, one every 330 m, three underground safety areas to rescue passenger (La Praz, Modane, La Maddalena), a fire and ventilation system along the entire tunnel. Overall, the tunnel will count of 140 km of tracks and catenaries to allow up to ten trains to run simultaneously. It will run of approximately for 45 km on the French side and 12.5 km on the Italian side, with an average distance between the two single tubes equal to 40 m. Each tube has a circular section with a minimum useful internal diameter of 8.40 m including 30 cm of tolerance of construction. The base tunnel will be powered by three electrical substations located in Susa, S. J. de Maurienne and Modane. Two control centres will supervise the passage of trains with the support of 900 video cameras and sensors generating real time data. The ventilation system will use the 500 meters deep Avrieux shafts and the four access adits built along the tunnel in Saint Martin La Porte, La Praz, Villarodin-Bourget/Modane and La Maddalena. These adits will also provide access to the deepest areas of the infrastructure where ordinary and extraordinary maintenance will be realized, but also for security purposes. Thanks to the multifunctional portals, a single tube can be closed if necessary. Rescue trains and firefighting vehicles ready to respond 24 hours a day will be available along the entire tunnel. The image below presents the structure of the base tunnel, once it will be completed. All the tunnels will be excavated mainly with mechanized milling machines (TBM Tunnel Boring Machines) but also with traditional methods (explosive and digging machines) depending on the nature of the mountain. The average advancement speed of the TBM depends on the geological characteristics of the mountains and it is estimated in 10 meters per day. In order to proceed with the construction of the cross-border section, the works on the base tunnel will proceed from the access points already completed and from the 4 declines tunnel (adits) of Saint Martin La Porte, La Praz, Villarodin-Bourget/Modane, La Maddalena which provide access for the





The following boxes are presenting the main structure of the project. It is conceived in order to ensure a smooth and actual monitoring of the construction works during the implementation phase of the future Grant Agreement and for this reason the Promoter TELT is organizing the Application on the basis of the "Operating Construction Sites - CO" (cantieri operativi / chantiers opérationnels), that are constantly monitored from a financial and technical perspective (more information is included in Chapter 6). Each operating construction site represents an independent task to be completed by TELT. The project structure is set as follows:



Work Package 1 - Interconnection of Bussoleno CO 01

Please consider, for all the following WPs, that the technical progress is based on the financial expenditures expected for this project. In fact, the financial statement reflects the physical implementation (invoices are issued considering the cumulative progress of the construction works). For these reasons, at this stage of the project preparation, we consider the budgetary instalments more adequate to monitor the progress of the works.

Objectives

1

This Work Package includes all the activities related to the Operating Construction Site 1. The Operating Construction Site aims at realizing the construction of the 2 km Susa-Bussoleno interconnecting tunnel including the connection of the NLTL with the historic line in the station of Bussoleno.

Only one task is foreseen for this WP: Task 1.1 Interconnection of Bussoleno - CO 01

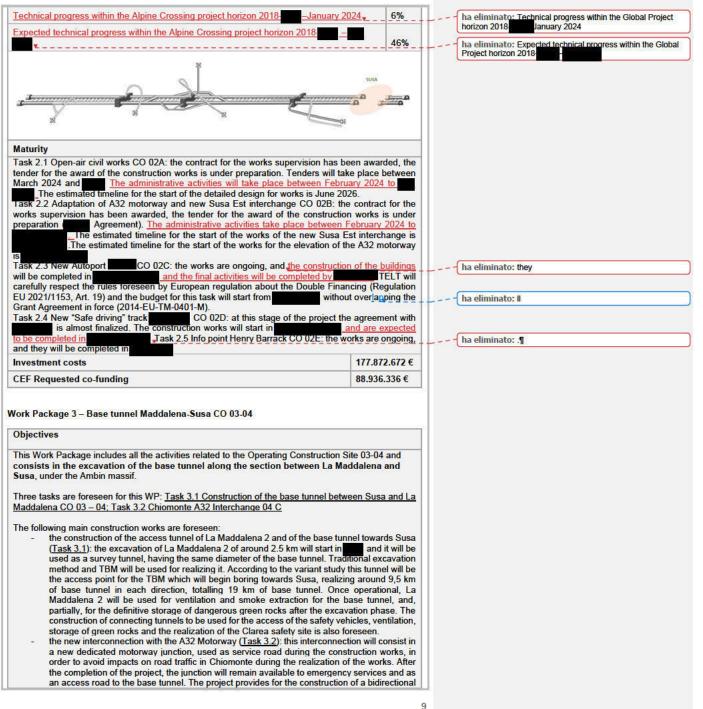
The following main construction works are foreseen:

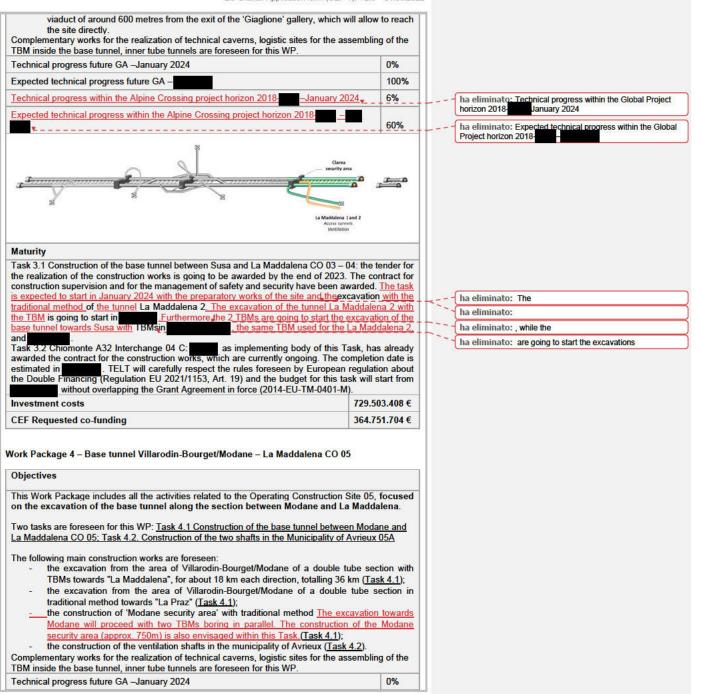
- The construction of 2 interconnecting tunnels of 2 kms each between Susa and Bussoleno;
 The construction of the technical areas and the railway buildings serving the line (Command and Control systems, first aid structures, fire-fighting buildings, railway buildings etc.);
- The connecting tracks of the new line with the historic line in Bussoleno;
- The construction of a bridge over the Dora Riparia river (about 75m length) before the entrance in the station of Bussoleno<u>and another one before the international station of Susa</u>,

The interconnection is necessary to allow the trains to maintain an adequate travel dynamic, in terms of speed and slopes of the line, when exiting the base tunnel. ha eliminato: .

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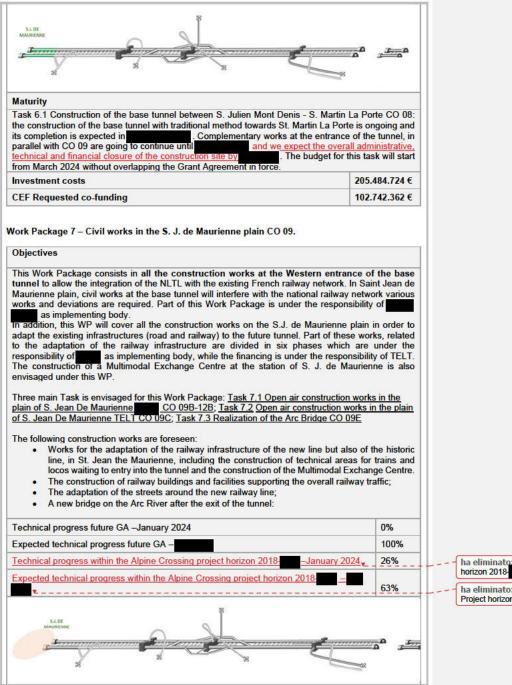
Fechnical progress future GA –January 2024		0%
Expected technical progress future GA –		100%
Technical progress within the Alpine Crossing project horizon -January 2024		0%
Expected technical progress within the Alpine Crossing project horizon 2018		19%
Maturity	BUSS	
Fine tender of the execution of the works has been launched and the applications are under	roval	uation
The award and the signature of the contract with the assigned company is expected at t		
More than the administrative activities will take place between February 2024 to and the construction works for this Operating Construction Site are expected to start in		e,
after the preparation of the detailed design to be realized by the same contractor.		
nvestment costs 41.225.74	€	
CEF Requested co-funding 20.612.87	€	
	o reali rconn dapta 0 020	ze the ecting tion of ; Task
Objectives Chis Work Package includes all the activities related to the Operating Construction Site 0: Package consists in the realization of the all the open-air civil works in Susa plain to NLTL infrastructure between the East entrance of the base tunnel and the interunnel between Susa and Bussoleno. Four tasks are foreseen for this WP: Task 2.1 Open-air civil works CO 02A; Task 2.2 / 32 motorway and new Susa Est interchange CO 02B; Task 2.3 New Autoport Four tasks are foreseen for this WP: Task 2.1 Open-air civil works CO 02A; Task 2.2 / 32 motorway and new Susa Est interchange CO 02B; Task 2.3 New Autoport CO 02D; Task 2.5 The Henry Barrack building CO The following main construction works are foreseen: • The construction of the railway infrastructure in the Susa plain connecting entrance of the base tunnel with the interconnecting tunnel of Bussoleno ([] • The construction of the motorways and streets around the railway line, espection of the base tunnel with the interconnecting tunnel of Bussoleno ([] • The construction of a new Autoport between San Didero and Bruzolo, replacing the current one in Susa, clearing the areas involved by the site of the base tunnel. The new Autoport will be used by the heavy vehicle the construction works and will be used in case of exceptional events avo of heavy goods vehicles that could block the motorway traffic conditions to ([Tasks 2.3]); • The relocation of the Safe driving track managed by the company	the E ask 2. ially the and 2 manage constrist s invo ding of to a s be res	tion of ; Task astern 1); he A32 .2); yed by ruction ueues special
Dbjectives Chis Work Package includes all the activities related to the Operating Construction Site D: Package consists in the realization of the all the open-air civil works in Susa plain to NLTL infrastructure between the East entrance of the base tunnel and the interunnel between Susa and Bussoleno. Four tasks are foreseen for this WP: Task 2.1 Open-air civil works CO 02A; Task 2.2 / A32 motorway and new Susa Est interchange CO 02B; Task 2.3 New Autoport Four tasks are foreseen for this WP: Task 2.1 Open-air civil works CO 02A; Task 2.2 / A32 motorway and new Susa Est interchange CO 02B; Task 2.3 New Autoport CO 2.4 New "Safe driving" track Four tasks are foreseen for the susa Est interchange CO 02B; Task 2.5 The Henry Barrack building CO 02A; New "Safe driving" track CO 02D; Task 2.5 The Henry Barrack building CO 02A; Task 2.5 The daptation of the railway infrastructure in the Susa plain connecting entrance of the base tunnel with the interconnecting tunnel of Bussoleno [] The construction of the mailway infrastructure in the Susa plain connecting entrance of the base tunnel with the interconnecting tunnel of Bussoleno [] The construction of the mailway infrastructure in the Susa plain connecting entrance of the base tunnel with the interconnecting tunnel of Bussoleno [] The construction of the motorways and streets around the railway line, esper motorway and the construction of the new Susa Est interchange (Tasks 2.1) The construction of a new Autoport will be used by the heavy vehicle site of the base tunnel. The new Autoport will be used by the heavy vehicle the construction works and will be used in case of exceptional events avo of heavy goods vehicles that could block the mo	dapta conn dapta 0 02C 0 02E the E ask 2. ially the and 2 manage constit s invo ding q to a s be res the res constit s invo ding q to a s be res constit s invo ding q to a s be res constit s police	ze the ecting tion of Task astern 1); ne A32 2); red by ruction lyeed in ueues special stored. learing 'TELT office 'roject, is still
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Expected technical progress future GA -	100%	
Technical progress within the Alpine Crossing project horizon 2018-	14%	having 2010 ha eliminato: Technical progress within the Global Project
Expected technical progress within the Alpine Crossing project horizon 2018-	47%	horizon 2018-January 2024 ha eliminato: Expected technical progress within the Global Project horizon 2018
Avrien Siling tracks Notane Bourly area Villarofin-Burget / Motane Access funnd Vertilation	میشر	
Maturity		
Task 4.1 Construction of the base tunnel between Modane and La Maddalena CO 05: works on complementary components of the tunnel are ongoing. The executive studies, and the provision of technical offices are ongoing. The excavation of the base tunnel wi expected in and the model of the two shafts in the Municipality of Avrieux 05A: construction ongoing and they will terminate in the Municipality of the base will start from	engineering h <u>2</u> TBMseis n works are	
without overlapping the Grant Agreement in force.		
	5.799.618 €	
CEF Requested co-funding 38	7.899.809€	
Work Package concerns the excavation of the base tunnel along the sections between La Porte and La Praz and between La Praz and Modane. The Southern tube of the base between S. Martin La Porte and La Praz was completed in 2019 for about 9 km. In additi access tunnels are already in place, one in St. Martin La Port (2,4 km, completed in 2010 in La Praz (2,5 km, completed in 2009). Once the base tunnel becomes operational, thes tunnels will serve as a ventilation duct and as a maintenance and safety passage. Two main Tasks are envisaged for this Work Package: <u>Task 5.1 Construction of the base</u> between La Praz and Modane CO 06: Task 5.2 Construction of the base tunnel between	se tunnel on, two), and one e access <u>tunnel</u>	
Porte and La Praz. CO 07. The following main construction works are foreseen: - the excavation of the Northern single tube section from St. Martin La Port and about 8,9 km with 1 TBM (<u>Task 5.2</u>). - the excavation of a double tube section between La Praz and Modane for about 2 TBMs (<u>Task 5.1</u>). - the excavation of La Praz security site in traditional method (750 m) (<u>Task 5.1</u>); - excavation of a double tube section in traditional excavation method towards entrance from the St. Martin La Porte (2 tubes of 2,14 Km) (<u>Task 5.2</u>) Complementary works for the realization of technical caverns, logistic sites for the assem TBM isnich the base turned invest times the trade to the two	9,38 km with the Western	
TBM inside the base tunnel, inner tube tunnels are foreseen for this WP. Technical progress future GA –January 2024	0%	
Expected technical progress future GA –	100%	
Technical progress within the Alpine Crossing project horizon 2018-	12%	ha eliminato: Technical progress within the Global Project
Expected technical progress within the Alpine Crossing project horizon 2018-	100%	horizon 2018- horizon 2018- ha eliminato: Expected technical progress within the Global
	+ 100 /0 +	Project horizon 2018

La Per security area Sint Matin La Porte Access funnels Versitation	
Maturity	
Task 5.1 Construction of the base tunnel between La Praz and Modane C works are ongoing on La Praz safety area. The excavation with traditional TBMs are going to start excavating in the excavation with traditional Task 5.2 Construction of the base tunnel between S. Martin La Porte and construction works of the base tunnel with traditional method are ongoing start excavating in the second tunnel towards La Praz in April 2024. The start from March 2024 without overlapping the Grant Agreement in force.	method is ongoing. The La Praz. CO 07: the . The TBM is going to
Investment costs	1.629.864.897 €
CEF Requested co-funding	814.932.449 €
This Work Package consists in the excavation of the base tunnel along Julien Mont Denis, at the entrance of the base tunnel, and S. Martin	
This Work Package consists in the excavation of the base tunnel along Julien Mont Denis, at the entrance of the base tunnel, and S. Martin necessary works for the construction of the base tunnel along this section. One main Task is envisaged for this Work Package: <u>Task 6.1 Construction</u>	La Porte, including all the
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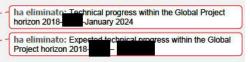


ha eliminato: Technical progress within the Global Project horizon 2018- January 2024 ha eliminato: Expected technical progress within the Global Project horizon 2018-

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Maturity Task 7.1 Open air construction works in the plain of S. Jean De Maurienne CO 09B-12B: works are currently ongoing under the responsibility of the started in 2018 and they will are currently ongoing under the responsibility of continue until the final completion of the project. the following phases will be included, as stipulated in the agreement with During the period SNCF: Phase 2: completion with respect to activities initiated in the current grant (this phase consists mainly of creating the platform for the future new line within the Saint Jean de Maurienne Plain, to temporary relocate the historical line on this new platform) Phase 3: Starting in the objectives of this phase 3 are to re-establish the plant service road in a definitive situation and move the RD1006 to allow the start of work on the creation of the platform of the historic line) Phase 4: Starting in Phase 4 consists mainly of creating the new platform for the historic line) Task 7.2 Open air construction works in the plain of S. Jean De Maurienne TELT CO 09C: works are ongoing. TELT foresees an interruption of the works for the period as construction works will be realized on the basis of functional phases depending on the actual overall completion rate. Task 7.3 Realization of the Arc Bridge CO 09E: all the design studies have been completed and the tender notice for the works has already been published. The bridge is scheduled to be commissioned , to allow the equipment train to enter the tunnel at the ha eliminato: beginning 355.081.015 € Investment costs **CEF Requested co-funding** 177.540.508 € Work Package 8 - Management of the excavated materials in Italy CO 10. Objectives This Work Package includes all the activities related to the Operating Construction Site 10 and consists in the management of excavated materials produced during the construction of the cross-border section on the Italian side. The management strategy of excavated materials is intended to reduce negative impacts of transports by reducing, as much as possible the externalities produced. Overall. around 37 million tons of rocks are expected to be extracted from the works on the cross-border section. More specifically the excavated material of the Italian Operating Construction Sites will be selected, and its destination will be decided. In fact, part of the material will be transported by trucks in the industrial site, under construction, of Salbertrand for its conversion in technical material to be used for the construction of the tunnel. We estimate that approximately the 60% of the excavated material will be reused to produce tunnel lining segments or other structures of the base tunnel. This process will take place directly in Salbertrand where all the industrial processes to produce the structural elements for the construction of the overall base tunnel will be located. The remaining share of excavated material, unusable for the construction of the tunnel, will be transported via rail to the sites of Torrazze and Caprie in Piedmont where it will be processed for further uses and re-naturalization purposes. Potentially dangerous green rocks (such as asbestos) are going to be stored directly inside the tunnel A binational agreement is going to be signed to manage and transport the excavated materials across the national borders, to reuse them for the construction of the Turin-Lyon cross-border section. One main Task is envisaged for this Work Package: Task 8.1 Management of the excavated materials in Italy CO 10. Technical progress future GA -January 2024 0% Expected technical progress future GA -100% ha eliminato: Technical progress within the Global Project horizon 2018- January 2024 Technical progress within the Alpine Crossing project horizon 2018-1% -January 2024 January 2024 Expected technical progress within the Alpine Crossing project horizon 2018 59% ha eliminato: Expected technical progress within the Global Project horizon 2018-× -Maturity Task 8.1 Management of the excavated materials in Italy CO 10: works are ongoing and temporary storage sites as well as the industrial facility of Salbertand are under preparation. Investment costs 249.662.024 € 124.831.012 € **CEF Requested co-funding** 14

Objectives		
This Work Package includes all the activities related to the Operating Construction in the management of excavated materials produced during the construction section on the French side. Overall, around 37 million tons of rocks are expected the works on the cross-border section. On the French side, for all the Operating Construction Sites, three main management of the excavated materials are foreseen: sites for the material t temporary storage and sites for the final deposit. The final deposit is located in F and Les Tierces. Temporary storage sites are in Illaz, Plan d'Arc, Les Tier treatment of the material takes place in Illaz and Le Moulin (eastern set Bourget/Modane platform). The tunnel lining segments, and the other structures be realized in La Chapelle. Dangerous green rocks are going to be stored directly inside the tunnel. The infrastructures necessary for the transit and evacuation of materials foress including the Modane ring road connected with the A43 motorway and the rat A binational agreement was signed to manage and transport the excavated national borders, to reuse them for the construction of the Turin-Lyon cross-bor One main Task is envisaged for this Work Package: Task 9.1 Management of the	n of the cr ed to be ext types of si reatment, s Plan d'Arc, I ces, Les E ctor of the s of the base ees road in ilway infras construction). I materials der section	ross-border racted from tes for the tes for the es Resses pines. The Villarodin- e tunnel will frastructure frastructure, to on sites (La across the
materials in France CO 11	ne excavat	
Technical progress future GA –January 2024		0%
Expected technical progress future GA –		100%
Technical progress within the Global Project horizon 2018-		3%
Expected technical progress within the Global Project horizon 2018-		47%
Task 9.1 Management of the excavated materials in France CO 11: works are of storage sites have been identified and they are already in use. The adaptation of of Modane is ongoing.	the road in 359	frastructure .353.761 €
CEF Requested co-funding	179	.676.880 €
Tork Package 10 –General costs and Prescriptions CO 00 & CO 00P Objectives This Work Package includes all the activities related to the Operating Construct covers all the general construction works of minor entity that will be carried construction site, such as surveys, archaeological activities, environmental mo for the environmental and civil prescriptions according to the outcomes of the pu-	out along onitoring an ermitting ph Italy and F	the overall d the costs ase. These rance such ildlife, flora
as vegetation clearing, preventive archelogy interventions, compensatory mea or human activities.	& CO 00F	-
as vegetation clearing, preventive archelogy interventions, compensatory mea or human activities. One main Task is envisaged for this Work Package: <u>Task 10.1 CO 00 - Genera</u> <u>Prescriptions.</u>	II & CO 00F	0%
as vegetation clearing, preventive archelogy interventions, compensatory mea or human activities. One main Task is envisaged for this Work Package: <u>Task 10.1 CO 00 - Genera</u> <u>Prescriptions.</u> Technical progress future GA –January 2024	II & CO 00F	0%
environmental and civil prescription concern specific environmental actions in as vegetation clearing, preventive archelogy interventions, compensatory mea or human activities. One main Task is envisaged for this Work Package: <u>Task 10.1 CO 00 - Genera</u> <u>Prescriptions</u> . Technical progress future GA –January 2024 Expected technical progress future GA – Technical progress within the Alpine Crossing project horizon 2018	ary 2024.	100%



Maturity		
Task 10.1 CO 00 - General & CO 00P Prescriptions: all the activities are ongoing.		
Investment costs 53	580.367 €	
CEF Requested co-funding 26	790.184 €	
/ork Package 11 – Horizontal Activities		
Objectives		
This Work Package includes all the Horizontal activities necessary for the implementa project: engineering, insurances, interferences. More precisely it covers all the engineering studies related to transport, traffic, security and the engineering activities related to the co- In addition, it includes all the works linked to agreements with public utility owners to de utilities whose alignment is interfering with the open-air works in France and in Italy: elect gas pipes, water, drains, telecommunications, optic fiber. Insurances related to the proje included (such as for buildings, vehicles, and personnel) Three Tasks are envisaged for this Work Package: <u>Task 11.1 Insurance, Task 11.2 Engine</u> construction supervision, <u>Task 11.3 Resolution of the interferences</u> .	functional nstruction. iate those ricity lines, ct are also	
Technical progress future GA –January 2024	0%	
Expected technical progress future GA –	100%	
Technical progress within the Alpine Crossing project horizon 2018 – January 2024	28%	- ha eliminato: Technical progress within the Global F
Expected technical progress within the Alpine Crossing project horizon 2018	70%	horizon 2018- January 2024 ha eliminato: Expected technical progress within the Project horizon 2018- Project horizon 2
annuities, based on invoicing. Task 11.3 Resolution of the interferences: all the activities a For the period sector is planned to sign agreements for the resolution of the follo interferences: Italy: France:	e ongoing. ving major	
Interferences: Italy: I	e ongoing.	
annuities, based on invoicing. Task 11.3 Resolution of the interferences: all the activities and For the period for the project for the period for the perio	e ongoing. ving major 079.680 € 539.840 € 539.840 € ative n offices y and	
annuities, based on invoicing. Task 11.3 Resolution of the interferences: all the activities and for the period	e ongoing. ving major 079.680 € 539.840 € 539.840 € ative n offices y and	
annuities, based on invoicing. Task 11.3 Resolution of the interferences: all the activities and the period th	e ongoing. ving major 079.680 € 539.840 € 539.840 € ative n offices y and inistrative n activities icture and ment. The ement with	
annuities, based on invoicing. Task 11.3 Resolution of the interferences: all the activities and For the period for the project management activities, including the Grant agree task will ensure the coherence of the implementation of the project as per the Grant Agree the TELT annual works plan.	e ongoing. ving major D79.680 € 539.840 € 539.840 € ative n offices y and	- ha eliminato: Technical progress within the Global F
annuities, based on invoicing. Task 11.3 Resolution of the interferences: all the activities and the period th	e ongoing. ving major 079.680 € 539.840 € 539.840 € ative n offices y and - inistrative n activities incure and ment. The ement with 0% 100%	 ha eliminato: Technical progress within the Global F horizon 2018 January 2024 ha eliminato: Expected technical progress within the

nvestment costs			289.266.794 €		
CEF Requested co-funding			144.633.397 €		
5- Expected outcomes a	nd result				
		d En al analytic will be a	and and a stars as a second		
uring the works and at the end ey (core) indicators useful to o dicators of physical implemen om the point of view of the i dicators:	express the completeness an tation will aim to provide a me	id effectiveness of the easure of the implement	proposed initiative. tation of the project		
- Technical progress of t	he construction works by	: 23%			
- Technical progress of t	he construction works by	: 48%			
- Technical progress of t	he construction works by	75%			
Technical progress of t	he construction works by	: 100%			
oreover, the detail of the techr	nical Progress of the main activ	vities by	-		
- CO 01 – Interconnect	ion of Bussoleno: the excava	ation with traditional me	thod will start;		
- CO 02 – Civil works in	Susa plain: the works in the	Susa plain will be in f	Ill capacity;		
	nel Maddalena-Susa: La Mad be in full capacity and New A3				
- CO 05 – Base Tunnel Avriuex Shafts will be c	Modane-Maddalena: the TM	IBs will excavate in fu	I capacity and the 2		
Avnues Shans will be u					
Construction of the second	nel La Praz-Modane-S. Marti	in La Porte: the base	unnel is expected to		
<u>CO 06-07 – Base Tuni</u> <u>be completed in this se</u> <u>CO 08 – Base Tunnel 1</u>	nel La Praz-Modane-S. Marti	ine La Porte: the exca			
<u>CO 06-07 – Base Tunio</u> <u>be completed in this se</u> <u>CO 08 – Base Tunnel 9</u> <u>method of the base tun</u> <u>0 09 – S. Jean de Maurienne</u>	nel La Praz-Modane-S. Marti gment: S. Julien Mont Denis-S. Marti nel is expected to be complete works: the construction of the	ine La Porte: the exca ed: Arc bridge will be com	ration with traditional	ha elimir	nato: ¶
<u>CO 06-07 – Base Tunn</u> <u>be completed in this se</u> <u>CO 08 – Base Tunnel 9</u> <u>method of the base tun</u>	nel La Praz-Modane-S. Marti gment; S. Julien Mont Denis-S. Marti nel is expected to be complete works: the construction of the ks has been calculated only co nd the not-eligible activities (Co on the financial expenditure he physical implementation onstruction works). For the	ine La Porte: the excar ed: Arc bridge will be com onsidering the eligible ZEF Perimeter). Pleas es expected for this n (invoices are issue se reasons, at this s	ration with traditional pleted. The technical costs, not taking into a consider that the project. In fact, the d considering the tage of the project	<mark>ha elimir</mark>	nato: ¶
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- . €2012: the investment costs were initially certified in 2012 values.
- €2023: the values to be used for the CBA; they have been converted from €2012 by applying the NLTL index of costs (NB; an average index over the January to October period is used for 2023 where the whole year values are not available)
- €current: these values are needed for the calculation of the project budget and eligible cost.
- <u>The value of € 5,277,774,702 is used for the preparation of the project budget, which includes</u>
 <u>only eligible costs.</u>

The value of € 10,787,954,100 has been used in the CBA Appraisal as the cost of the Alpine Crossing (NB: further to this investment, the CBA also considers the costs for the national accesses as it evaluates the global project – see the following box and the CBA Report for more details).

Global projects

If the project is part of a global project (including projects of common interest (PCI), if applicable), provide the following information:

- Objectives of the global project
- General description and context specify how the project fits into the global project
- Justification problems, needs and issues addressed by the global project
- State of play, results and objectives achieved by the global project so far
- Parallel projects describe which other parts of the global project are to be implemented in parallel and their links to the project
- Timetable describe the timetable of the global project and the interdependence with the timetable of the
 project, explain how the project will impact the progress of other activities which are part of the global project.

Objectives of the Global Project

This project relates to the cross-border section of the New Turin-Lyon Line, which represents part of the global project of this application. In fact, as mentioned, the global project is represented by the New Turin-Lyon line in its entirety. The new rail line constitutes a major element of the local, national and European transportation system, ensuring significant improvements in the transit times of passenger and cargo rail services, improving accessibility and limiting the environmental impact, the accident rates and the congestion of the valleys by road traffic. The Turin-Lyon is an essential part of the Mediterranean Corridor, being one of the 9 railway axes that belongs to the European TEN-T network. It will guarantee a connection, south of the Alps, between Western and Central Eastern Europe animing to promote economic exchanges and strengthen the competitiveness of Mediterranean European Countries while being a freight and passenger railway network, which also intersects with the most important sea and river ports, major cities and airports. The global project includes the following elements:

- Alpine accesses Italian side (including: connection to Turin, upgrade and doubling Bussoleno-Avigliana 1st and 2nd phase)
- Alpine crossing TELT (including: preliminary and exploratory works, and realization of the base tunnel)
- -

The base tunnel, as part of the cross-border section, is currently at an advanced state of construction with co-financing from Italy, France, Europe, and (respectively, French and Italian Managers)². As shown in the previous box, the overall cost of the Alpine Crossing in the period 2018 is estimated in 10.787 M€002. In particular, the European Commission is funding the realization of the cross-border tunnel (Mont Cenis base tunnel) through the TEN-T and CEF funding programmes (ongoing Action "2014-EU-TM-0401-M-Cross Border Section of the New Turin-Lyon Rail Link Mont Cenis base tunnel (TBM)². Indicatively, forty percent (40%) of the cross-border section of the Turin-Lyon railway line is financed by the European Union and within the scope of the CEF-Connecting Europe Facility, in 2015 Italy and France signed the Grant Agreement, which provides for a European contribution of 41_08%, equal to 813.8 million EUR.

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² More details on t	he access lines	and the Global	Project structure are	included in the	e CBA Report
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The historical relevance of this project is particularly significant and remarkable as the ambition to cross the Alps dates from centuries ago. Therefore, more than 150 years after the inauguration of the Fréjus railway tunnel (1871), where the current historical line passes, this project is a turning point to comply with current transport standards. The historic communication line constitutes a project that continues to be present during centuries and decades sharing the same visions and goals concentrated to linking the mountain to the future of the whole continent. However, today Fréjus tunnel is not suitable for modern high performing rail transport services and the growth of freight rail traffic between Italy and France on this line is hampered. This constitutes a result of the non-competitive rail transport, because of the incompliance of historic line with international transport standards that increases energy consumption and does not allow higher speeds and efficiency on transportation.

General description and context

1

The line is part of the TEN-T Trans-European conventional rail network within its "Mediterranean Corridor"—previously "Corridor 6". The Trans-European Transport Network (the acronym, TEN-T, is for Trans-European Networks – Transport), is a set of integrated transport infrastructures designed to support the single market, assure the free movement of freight and people, and strengthen the growth, employment and competitiveness of the European Union.

As anticipated, the fundamental element of the new line is the tunnel at the base of Moncenisio being the core of the project, called 'Mont Cenis base tunnel', which will cross the Alps between the Susa Valley in Piedmont and Maurienne in Savoie.

As indicated in the 2012 binational French-Italian Treaty, the New Turin-Lyon Rail Link (NLTL) is divided into three sections constructed under separate managements:

- the International common cross-border section between Italy and France, from Susa (Piedmont) to Saint-Jean-de-Maurienne (Savoy), under the responsibility of the Italian-French public promoter TELT, whose main project is the Moncenisio base tunnel measuring 57.5 km, currently under construction.
- the Italian section between Bussoleno (Susa valley) and Torino, under the responsibility of the section between Saint-Jean-de-Maurienne to Lyon that will be built under the



The construction and operation of this line is part of a framework that goes beyond national borders and justifies greater solidarity, that of the Alpine Convention, signed by eight States of the Alpine arc and ratified by the European Union. The objective of the Alpine Convention is to promote the innated development of these areas, avoiding that congestion or unwanted traffic shifts and that of European solidarity since the new transalpine links should be beneficial to the whole of the European Community and not only to the States directly concerned.

The global project foresees that the new line in Italy will be connected to the historic one in Bussoleno after the realization of the interconnectig tunnel foreseen in the WP1. The railway line of Modane/Susa will be connected to Turin through the connection between the stations of Bussoleno and Avigliana and finally linked with Turin through the Orbassano station. The realization of the access line is defined in phases according to the treaty of 2012 between Italian and French Governments and in its final layout includes additional tunnels connecting the entrance of the base tunnel in Susa with Turin.After passing the Dora, the route crosses the plain of Susa, where the new international station will be built, before entering the base tunnel to Saint-Jean-de-maurienne.

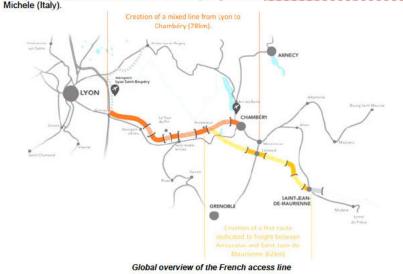
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Global overview of the Cross-Border and the Italian phase 1.a

At the end of the 57.5 km tunnel, in French territory, the line will connect to the existing one at the northwest end of the plain of Saint-Jean de Maurienne. From here, the line will be connected to Lyon through a series of tunnels and open air sections passing by Montmélian, Saint-Didier-de-la-Tour, Bourgoin-Jallieu. In addition, an interconnection with Chambery is foreseen through the Dullin-L'Elpine Tunnel. Finally, in general, the French-Italian common part goes from <u>Montemélian</u> (France) to <u>Chiusa San</u>



As anticipated, the realization of this project as part of the Global Project is the result of several international Treaties:

- The French-Italian Agreement of 15.1.1996 which established an Intergovernmental Commission (IGC)
- A French -Italian Agreement was signed on January 29, 2001, in Turin which became Treaty after its ratification by the Parliaments of the 2 Countries, on February 28, 2002, in France and on September 27, 2002, in Italy. This agreement focused on the construction of the works of the common Franco-Italian part, necessary for the construction of a new transalpine rail link between Lyon and Turin for goods and passengers.
- A French -Italian Agreement was signed on January 30, 2012 in Rome whereby the Government of the French Republic and the Government of the Italian Republic decided the construction of a new Lyon - Turin railway line which became a Treaty after its ratification by the Parliaments of the 2 Countries, on December 2, 2013 in France and on April 23, 2014 in Italy. For the subsequent phases of the cross-border section, the art. 16 of the 2012 International Agreement provides that each Party finances, with the help of the European Union, the infrastructures located on its territory that are needed to access to the cross-border tunnel.
- needed to access to the <u>cross-border</u> tunnel.
 An Agreement was signed on 24 February 2015 in Paris whereby the Government of the French Republic and the Government of the Italian Republic decide to start the final works of the cross-border section and to entrust the construction to the Promoter called Tunnel Euralpin Lyon Turin.

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EU Grants: Application form (CEF-T): V2.0 - 01.06.2022

Among the treaties that have been assigned and ratified by both Italian and French governments, a series of summits have been assigned and conducted between the two states to tackle the strategic issues of common interests, examine matters of financing and to overcome any difficulties that may be arisen. However, these protocols and summits are complementary to the International Agreements underlining the global characteristics of this project and enhancing bilateral cooperation.

In conclusion, the planning of the interventions and the consequent works for the adaptation of the Turin Lyon railway axis to European standards is the result of agreements, comparisons, analyses, discussions, studies and insights, continuously reconsidered, re-evaluated, revised and updated. In this framework a very relevant activity has been carried out by Turin-Lyon Observatory. Thanks to the work of the Observatory, between the end of 2016 and the beginning of 2017, the Italian and French Parliaments ratified the agreement, allowing the final works to start.

Justification

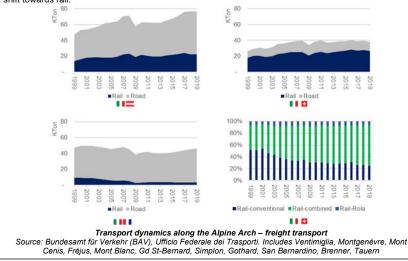
The Fréjus tunnel is the oldest railway tunnel in Europe, and it is still used today by passengers and freight trains running between Italy and France. However, the competitivity and safety of this infrastructure, compared to the highway, has gradually decreased; in fact, the average daily capacity of the tunnel is only 60 trains per day. The 13.7 km tunnel was inaugurated in 1871. The historic tunnel was built by 4,000 workers using pneumatic drills and technologies developed for the occasion, which enabled it to be built in less than 14 years, compared to the 40 needed with traditional excavation methods.

The new tunnel is being built 800 metres lower, to enable trains to travel at the same altitude as the plain. The average daily capacity of the Fréjus railway tunnel is just 60 trains per day. This figure was confirmed by

The main goal of New Turin-Lyon Rail Link (NLTL) is to create a new rail infrastructure with optimal safety, technological and operational characteristics both for passenger and freight traffic and to:

- Remove a bottleneck along a cross-border section,
- Fill a missing link along transalpine and European traffic,
- Contribute to EU sustainable development objectives of reducing the levels of greenhouses gases and improving energy efficiency,
- Promoting transport efficiency: the flat route will shorten travelling time and reduce operating costs between St. Jean de Maurienne and Susa by around 40% with like flat land railways (eliminating booster locomotives for heavy freight trains)
- Shifting from road to rail the crossing of the Alps via the Mediterranean Corridor, optimizing the transport routes.

 Create a more favourable environment for private, public, or private-public partnership investments. The following graphs are showing how rail freight traffic is the first transport mode among the most advanced routes in terms of infrastructure's characteristics, in particular in Switzerland (Simplon and Gothard), where transalpine combined rail traffic represents the majority of the volumes transported. On the contrary, freight traffic transported via rail between Italy and France is progressively decreasing due to the low performances of the infrastructures (Modane and Ventimiglia). Road transport is still representing the most exploited alternative between Italy and France but also between Italy and Austria, requiring relevant investments (new Turin-Lyon and new Brenner base tunnels) for boosting the modal shift towards rail.



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In general, cross-border projects are those that give the greatest benefit to the European economy, with three times higher than the average of the nine TEN- T corridors. France and Italy are the second and third economies of the European Union and respectively the second commercial partner of one another. The economic exchange involves over 44 million tons of goods per year, mainly transported by road (92% travels on lorries) and represents a total of \in 81 billion (Source: ISTAT 2021), almost twice the trade of France with China. The project aims at making the railway more competitive for the transport of freights and passengers, and to increase connectivity between Italy and the European railway networks.

It aims to rebalance in terms of economy and transport the European area, considerably strengthening ties, between Italy and France. Particularly, the line intends to improve intra-European exchanges by contributing to the geographical rebalancing of the Union decreasing at the same time the congestion of the other communication channels, such as Ventimiglia, which penalizes the competitiveness of the European Union.

The economic trade between Italy and France is worth over 85 billion euros (2019 figures) while, if we consider the volume between Italy and the Western European quadrant, it rises to about 150 billion euros. This trade rises still more to 204 billion if we consider also the other countries that could potentially gravitate around the Turin-Lyon line (Portugal, Belgium and the Netherlands). In addition, over 44 million tons of freight circulates along the Italy-France axis. Of this traffic, over 90% travels by road, compared to 70% in Austria and 30% in Switzerland.

Every year almost 44 million tons of goods cross the Western Alps and currently more than 90% travel by road. It is estimated that at least half of these goods will be able to use the new Turin-Lyon line: converting the mountain line into a lowland railway will save 40% of energy, making rail transport more competitive, with considerable benefit for the environment.

Without the modern base tunnel and high-capacity access routes, the traffic flow across the Alpine border will be confined to road transport affecting this sensitive area, causing unnecessary congestion on other routes and creating additional costs.

State of play, results and objectives achieved by the global project so far

As mentioned, the global project is represented by the overall New Turin-Lyon line project. This has been a long and complex initiative, which, besides the cross-border section of the new line, also includes the realisation of a number of projects on the two national sides. Overall, the following main components of the global project can be defined:

- the Italian section, under the management of the management of the section (b) between Bussoleno and Turin:

- the French section under the management of **Example 1999**, between Lyon and Saint-Jean-de-Maurienne:

- and the cross-border section, under the management of TELT, between Saint-Jean-de-Maurienne and Bussoleno/Susa.

The first two components are not included in the present Action, which focuses on the cross-border section. Besides, it is worth highlighting that, in the cross-border section itself, some investments have already been completed (artificial tunnel S. Jean de Maurienne Plain CO 09A; Dams of Villargondran CO 09D; Maddalena interconnecting Niches 04A) and other interventions are not included in the present proposal, in that they are covered by another Grant (2014-EU-TM-0401-M); furthermore,

this proposal does not include cost elements of the Alpine Crossing that, while necessary for the completion of the works, are not eligible under CEF rules: expropriations, accompanying measures, and investments on the historical line. Finally, railway technological intallations that will start once the base tunnel is completed are outside the timeframe of this application.

During the possible GA negotiation of the present Action and during the course of the project, TELT will carefully respect the rules foreseen by European regulation about the Double Financing (Regulation EU 2021/1153, Art. 19).

The progress of the global project mainly reflects a significant advancement on the Alpine crossing. Currently, there are 10 active construction sites in Italy and France. Approximately 34 km, constituting around 21% of the envisaged 162 km of tunnels, have been excavated for this complex project, which includes two parallel tunnels, 4 adits (exploratory tunnels), and 204 safety bypasses. Furthermore, 113 km of geognostic surveys and core drillings have been completed in both Italy and France. Notably, 12 km of the base tunnel have been successfully excavated. Among the completed works, a pivotal achievement is the realization of 10.5 km of the base tunnel between Saint-Martin-Ia-Porte and La Praz. Of this, 9 km were excavated using the TBM, while the remaining 1.5 km were finished using traditional methods. In Saint-Julien-Montdenis, the works on the covered trench, the artificial gallery serving as the entrance to the base tunnel, have been completed. Additionally, the new temporary multimodal hub in Saint-Jean-de-Maurienne has been realized as a preliminary activities in the light of the future construction of the international station. The reinforcement works and preparing the platform for future railway and technical infrastructures, were completed. Simultaneously, activities at the Resses d'en Bas logistics site along the Arc River prepared it to accommodate part of the excavation material management site for the

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base tunnel. In France, the construction of descent points crucial for initiating mountain sites has been completed in Villarodin-Bourget/Modane (4,000 m, completed in 2007), La Praz (2,480 m, completed in 2009), and Saint-Martin-la-Porte (2,400 m completed in 2010 and 1,800 m completed in 2016). In Italy, the geognostic tunnel in Chiomonte (Val di Susa, 7,020 m) has been successfully completed. Overall, the realization of this infrastructure involves over 2,000 employees, including those actively engaged in construction sites, services, and engineering. The project has achieved notable milestones in tunnel excavation, infrastructure completion, and logistical preparations, showcasing substantial progress in its overall implementation.

1. PRIORITY AND URGENCY

1.1 TEN-T network - Project of common interest (PCI)

TEN-T network — Project of common interest (PCI)

Explain why the project is considered a project of common interest (PCI) within the meaning of Article 7 of the <u>TEN-T</u> <u>Guidelines</u> and how it contributes or links to the core and/or comprehensive network.

Does it contribute to realising corridor work plans and implementing acts pursuant to Article 47 of the TEN-T Guidelines?

Does the project (or global project) produce a network effect by linking with or complementing other TEN-T/CEF actions?.

1 Don't forget to also encode this information in the Application Form Part A in the General information section.

Project of common interest and Cross-border link The Project addresses main priorities of the EU Regulation 1153/2021 which establishes the Connecting Europe Facility and repeals Regulations (EU) No 1316/2013 and (EU) No 283/2014. In the Annex, Part III of the Regulation the section object of the current Proposal is defined as a crossborder link within the section "Lyon - Torino: base tunnel and access routes". More in detail, the Regulation states that a "cross border link means, in the transport sector, a project of common interest which ensures the continuity of the TEN-T between Member States. Thus, the Project intends to achieve the TEN-T Guidelines objectives which gives priority to cross-border connections and facilitates their realization. Moreover, cross-border sections are used as key indicators for the TEN-T Network development. In fact, the CEF will be monitored closely based on a set of indicators intended to measure the extent to which the general and specific objectives of the CEF have been achieved. Data will be collected as regards the set of key indicators and the pre-identified cross-border links are part of these indicators. The Project represents one of the most relevant axes of the Mediterranean Core Network Corridor (MED CNC) which is one of the most interconnected in Europe, since it is crossed by other six corridors (Atlantic, North Sea – Mediterranean, Rhine – Danube, Rhine – Alpine, Orient / East - Mediterranean, Scandinavian-Mediterranean and Baltic-Adriatic). Its main branches are (Reg. (EU) 1153/2021): Algeciras - Bobadilla - Madrid - Zaragoza - Tarragona Madrid - Valencia - Sagunto - Teruel - Zaragoza Cartagena - Murcia - Valencia - Tarragona/Palma de Mallorca - Barcelona Sevilla - Bobadilla - Murcia Tarragona – Barcelona – Perpignan – Narbonne - Toulouse/Marseille – Genova/Lyon – La Spezia/Torino - Novara - Milano - Bologna/Verona - Padova - Venezia - Ravenna/Trieste/Koper -Ljubljana - Budapest. Ljubljana/Rijeka - Zagreb - Budapest - UA border.

As a result of the CEF II Regulation, the Mediterranean Corridor was extended in Spain, France and Italy, reaching the total length of 11.410 km.





Alignment of Mediterranean Corridor under revised CEF Regulation 1153/2021

The new railway link Turin-Lyon with its 57.5 km base tunnel is considered as" **the main project of the whole Mediterranean Corridor**" and highly strategic, because this missing link hampers the transport relations between Italy and France, Italy and Spain, and Spain and central and eastern European countries.

This calls for further efforts to complete the Turin-Lyon international cross-border section on time and "to plan and build adequate access lines" since the completion of the access lines to the base tunnel is necessary for the proper functioning of the whole section, as it is recalled also in the recommendations and future outlook of the European coordinator.

2- New Proposal on TEN-T Guidelines

The current Project is coherent with the objectives of **the Proposal COM (2021) 812** final launched on 14^{th} December 2021 for a Regulation on Union guidelines for the development of the trans-European transport network, amending Regulation (EU) 2021/1153 and Regulation (EU) No 913/2010 and repealing Regulation (EU) 1315/2013.

This legislative proposal is a key action of the European Green Deal and the Sustainable and Smart Mobility Strategy. The aim of the TEN-T Regulation is to build an effective EU-wide and multimodal network of rail, inland waterways, short sea shipping routes and roads which are linked to urban nodes, maritime and inland ports, airports, and terminals across the EU. The TEN-T Network is crucial to the functioning of the internal market as it ensures efficient transport of goods and passengers. In order to be greener, more efficient, and more resilient, the Network must meet the following objectives:

- 1) Sustainability: Reduce congestion, transport emissions and impact on climate change.
- 2) Cohesion: Connect EU cities and regions, including rural areas and remote regions.
- 3) Efficiency: Remove bottlenecks and gaps on the transport network.
- 4) Increase user benefits: better transport services to citizens and freight customers.

The current Proposal can be identified as "Project of common interest to develop the trans-European transport network" in line with the requirements set out in the new Regulation Proposal since it has European added value, as contributes to a high-quality, interoperable, and multimodal European network, increasing sustainability, cohesion, efficiency or user benefits.

The current Project has also a higher European added value because it leads, in addition to the potential value for the respective Member State alone, to significant improvements of transport connections or transport flows between Member States (Italy – France). Such cross-border projects are subject of priority intervention by the Union in order to ensure that they are implemented.

Moreover, cross-border sections are at the heart of the development of the European Transport Corridors in view of developing a fully interoperable rail freight system as well as a long-distance rail passenger network at high speed across the Union.

In order to ensure the implementation of the cross-border section, the new Regulation envisages a role for the European Coordinators that, with the agreement of the Member States concerned, may set up

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and chair corridor working groups which focus on the coordinated development and implementation of infrastructure projects in cross-border sections and cross-border passenger rail services.

3- Network effect

In the previous programming periods, other relevant Projects have been co-funded under TEN-T and CEF Transport Programme for the completion of the New Torino-Lyon Line. Under the CEF 2014 – 20 and CEF 2021 – 27 the following have been funded and still ongoing:

Programme	Project	Beneficiary	Grant Amount (Euro)	
CEF Transport 2014 – 20	2014-EU-TM-0401-M "Cross Border Section of the New Turin-Lyon Rail Link Mont Cenis base tunnel (TBM)"	TELT SAS	813.781.900 €	
CEF Transport 2014 – 20	2019-FR-TM-0255-S Studies into phasing for the realization of the French accesses to the Lyon-Turin tunnel		2.000.000€	
CEF Transport 2021 – 27	21-IT-TG-PFD-AviO "Turin-Lyon base tunnel Access		9.888.000 €	
CEF Transport 2021-27	22-EU-TG-RE-AVIBUS-TELT-2	TELT SAS	44.500.000 €	

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1.2 Call objectives and priorities

Call objectives and priorities

Explain how the project contributes to the objectives, priorities and expected results of the topic under which it is submitted.

The Project is submitted under the call topic "CEF-T-2023-COREGEN-RAIL-WORKS" and it is definitely consistent with the call's objective since it aims at "developing rail transport infrastructure projects on the Core Network of the TEN-T".

- As foreseen by the CEF call's priority the scope of the project is related to the:
 - Upgrading of cross-border and missing links, the Project is defined as a cross-border link by the CEF Regulation 1153/2021 (Turin-Lyon base tunnel and access routes), and by itself aims at realizing a cross-border section between Turin and Lyon.
 - Capacity and performance upgrade: the cross-border section will be realized with optimal capacity and performance characteristics, according to the most recent European standards for passengers and cargo rail transport services.
 - Nodes capacity increase, the Project will boost the connections to the relevant nodes of the line, including better articulation of long-distance and local traffic between relevant urban nodes of the TEN-T Network.

Connections of freight terminals to the TEN-T Network, the Project is improving the capacity of the existing line thus facilitating National and International Freight Rail Transport Services.

1.3 EU added value

EU added value

Explain the effects of the project from the perspective of the EU interest and how it contributes to the objectives set at European level.

The Project demonstrates EU added value according to Article 3(d) of the TEN-T Guidelines as it leads to a significant improvement of transport flows between the Member States, and it contributes to the development of the cross-border connections between France and Italy.

The Project contributes also to the following strategies and objectives set at EU level.

1. The Single European Railway Area

The EU has one of the densest railway networks in the world, however national railway systems across the EU vary. In the 1990s, the process of improving the compatibility of EU member states' national

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railway systems started with the end goal of developing an efficient and competitive EU-wide railway network - the Single European Railway Area.

In recent years, the EU has adopted four railway packages which aim to open the railway market to competition, increase the interoperability of national railway systems and define the framework for a Single European Railway Area. The fourth railway package came into force in 2021.

Increasing the share of rail transport in the EU is an essential objective for decarbonising the economy and achieving the EU's climate goals. Rail transport is the most sustainable means of transport as it represents only 0.5% of the EU's total greenhouse gas emissions (2017 data).

In June 2021, the Council adopted conclusions on rail. EU ministers underlined the need to further develop rail transport for both passengers and goods in the EU. They also highlighted the importance to strengthen the resilience of rail in the face of a crisis and to continue investing in interoperability of national systems and stronger connectivity.

2. Decarbonising the transport sector

The EU has pledged to become climate-neutral by 2050. To this end, the transport sector needs to undergo a transformation which will require a 90% reduction in greenhouse gas emissions, while ensuring affordable solutions to citizens. The Fit for 55 package is the EU's plan to deliver on the European Green Deal's climate goals and it includes a set of proposals to revise EU legislation, also in the field of transport.

The COVID-19 pandemic has had a major impact on transport and connectivity in the EU, which in turn has affected the whole EU economy. Sustainable transport is an opportunity to contribute to the recovery and growth of the economy.

3. EU policies for sustainable transport

The EU has long supported the development of EU transport systems, to foster the single market and increase connectivity among Europe's regions.

EU Institutions are supporting initiatives for boosting rail transport as a clean mean of transport which helps to decarbonise and increase the sustainability of European mobility.

The most relevant initiative is the "European Year of Rail 2021" designated on the basis of a Commission proposal, by the Council and the European Parliament. The Year features events and campaigns across Europe.

In June 2021, the Council adopted conclusions on rail. EU ministers underlined the need to further develop rail transport for both passengers and goods in the EU. They also highlighted the importance of strengthening the resilience of rail in the face of a crisis and of continuing to invest in the interoperability of national systems and in stronger connectivity.

4. Sustainable and Smart Mobility Strategy

The Sustainable and Smart Mobility Strategy - Communication issued by the European Commission in December 2020 – defines the Objectives for the Transport and Mobility Sector in order to meet the goal of 90% reduction of greenhouse gas emissions in transport by 2050.

These objectives will be achieved through:

- Reducing the dependence on fossil fuels Scheduled collective travel under 500 km should be carbon neutral by 2030 within the EU: By 2050, a fully operational, multimodal Trans-European Transport Network for sustainable and smart transport with high-speed connectivity.
- Making alternative choices available to this end traffic on high-speed rail will double by 2030 and by 2050 rail freight traffic will double.

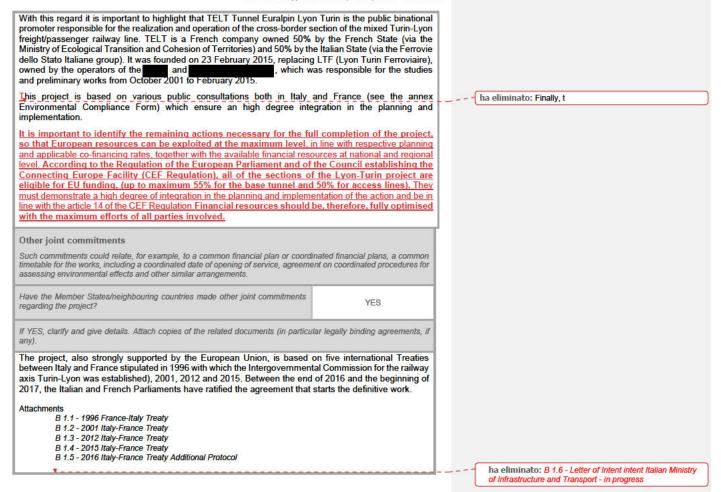
Building a strong and resilient Single Market - Investment in transport infrastructure across the EU Member States.

1.4 Cross-border link

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Cross-border link		
Is the project related to one of the cross-border links listed in Part III of the Annex conjunction with Article 2(h) of the CEF Regulation and Article 3(m) and 3(p) of the TE		
Note: Grants for works addressing a cross-border section may benefit from a higher funding CEF Regulation). A joint application is strongly recommended, as a demonstration of the partners. Single applicant proposals can be considered as addressing a cross demonstrate the commitment of all the countries involved.	g rate (Article 15(2)(a)(i)) of the the good coordination between	
Continuity of PCI or core network corridor		
Is the project located on a section which ensures the continuity of a project of con interest between the nearest urban nodes, on each side of the border of two Member S or between a Member State and a neighbouring country?	States	
or	YES	
Does the project ensure, via a neighbouring country, continuity of a core network co between two Member States?	rridor	
If YES, explain how the project (or part of it) fulfills these conditions. Indicate which countries are concerned and which activities each of them will be carrying out in the fre indicate which core network corridors are addressed (if applicable).		
The Project is part of the cross-border links listed in EC Regulation 1153/202 functionality ensures the continuity of the TEN-T between Member States ar of common interest (the new line Turin-Lyon) between the nearest urban nod sides of the border of two Member States. As defined in Article 2(h) of the CE 3(m) of the TEN-T Regulation: "cross-border link" means, in the transport s interest which ensures the continuity of the TEN-T between Member States or and a third country. This railway stretch will ensure the compliance with the TEN-T infrastrue Regulation EU 1315/2013 and will contribute to the improvement of the rail tr Lyon – Torino axis, which is the central link in the Mediterranean Corridor (axis).	In the continuity of a project es (Lyon and Turin) on both EF Regulation and of Article ector, a project of common or between a Member State cture standards set by the ansport operation along the	
The Turin-Lyon line is part of the development of the European TEN-T netw be fully operational, it is estimated that more than one million lorries will no lo reducing CO ₂ emissions by three million tonnes per year. The benefits that concern the creation of a greater freight interchange between Italy and Frar the number of passenger trains, shorter travel times (e.g. Paris-Milan in four about seven hours) and a series of possible origins and destinations on diffe	nger travel across the Alps, t the project will bring also nce, but also an increase in and a half hours instead of	
In addition, according to Regulation (EU) No 2021/1153 [CEF 2 Regulation] "the cofinancing rate applicable to projects carried out by integrated manage be increased by 5 %" and also the recently approved Work Programme for 2 " 8. Form of Union contributions and co-financing rates - [] as regards Active links, the above specified maximum co[1]financing rates for works (50%) may percentage points for projects carried out by integrated management structure Based on the established integrated management structure for the Turin L and implementation a higher level of co-financing is justified for the propose cent, corresponding to 2.902.776.085,90 € of EU contribution)	gement structures () may 021 guotes as follows ons relating to cross-border by further be increased by 5 es, including joint ventures." yon, base tunnel's planning	(ha eliminato:
High degree of integration in the planning and implementation]
Does your project involve a high degree of integration in the planning and implementation, in accordance with Article 15(2)(e) of the CEF Regulation (for instance through the establishment of a single project company, a joint governance structure, a bilateral legal framework or an implementing act pursuant to Article 47 of the <u>TEN-T Guidelines</u>)?	YES	
If YES, describe the main elements of this integration and attach appropriate evidence	e in annex.	
The project, also strongly supported by the European Union, is based on five considering the additional protocol of 2016) between Italy and France stipu Intergovernmental Commission for the railway axis Turin-Lyon was establis Between the end of 2016 and the beginning of 2017, the Italian and French I agreement that starts the definitive work.	lated in 1996 with which the hed), 2001, 2012 and 2015. Parliaments have ratified the	
		21

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1.5 Integrated management

Integrated management structure	
Is your project a cross-border link project (see section 1.4) which will be carried out by an integrated management structure (including joint ventures, etc), in accordance with Article 15(2)(e) of the CEF Regulation ?	YES
If YES, describe the main elements of this agreement and attach a copy of it in annex.	
The Project will be carried out by TELT SAS as sole Applicant. TELT Tunnel Euralpin Lyon Turin is the public binational promoter responsition operation of the cross-border section of the mixed Turin-Lyon freight/passengee French company owned 50% by the French State (via the Ministry for the Eco 50% by the Italian State (via the Ferrovie dello Stato Italiane group). It was found replacing LTF (Lyon Turin Ferroviaire), owned by the operators of the which was responsible for the studies and preliminary works from October 2001 it TELT shares the European goal of achieving a new faster and more efficien recognition also of the global need to reduce pollution. Aware of the fact that it	r railway line. TELT is a nomy and Finance) and ed on 23 February 2015, nd to rebruary 2015. ent transport network in

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represents a crucial node for commercial exchanges and the mobility of people between European nations, TELT is committed to respecting the international agreements and implementing the infrastructure on schedule and in full respect not only of the highest quality standards, but also of the environment and of all legal requirements.

The top management of TELT consists of the President, appointed by the French State, who represents the Company before the stakeholders, and the Executive Director, chosen by the Italian State, who directs and administers it. Both are members of the Board of Directors, with voting rights, alongside with four members appointed by the French government and four appointed by the Italian one. The post of Board Member has a renewable term of six years and is not remunerated. The European Commission may appoint a representative who sits on the board as a non-voting member. At the moment, the

According to the International Agreement of 2012 TELT is going to be the Infrastructure Manager during the operating phase of tunnel, managing the new cross-border section and the historic line, including the stations located along the lines.

Attachment:

1

B 1.0 - TELT Statute

#@COM-PLE-CP@#

1.6 Synergies

Synergies

Describe possible synergies with other CEF sectors (Energy and Digital) or other EU programmes (Resilience and Recovery Facility (RRF), Digital Europe, Horizon Europe, Structural Funds, etc.).

Indicate if the project includes synergetic elements eligible under another CEF sector within the meaning of Article 10(2) of the CEF Regulation (and, if yes, describe the sector and the elements).

Indicate if the project will benefit from funding from another programme (and, if yes, explain which part of the project, which EU programme and provide the project reference of the other programme).

The Project is not benefiting from fundings of other EU programs. However, it is important to be mentioned that this project is complementary to the CEF Transport 2021. Call for Proposals under the project "21-IT-TG-PFD-AviO Turin-Lyon base tunnel Access' and the CEF Transport 2014-20 concerning the project "2014-EU-TM-0401-MCross Border Section of the New Turin-Lyon Rail Link Mont Cenis base tunnel (TBM)". In addition, the current project Turin-Lyon rail link is complementary to an ongoing proposal under the scope of Connecting Europe Facility 2022-Call for Proposals, specifically an application named "SU.P.ER. EU" (Draft proposal ID SEP-210912284) devoted to upgrade various trains to ERTMS Baseline 2. Finally, the Turin-Lyon Project is related to the project 'SG Frejus' under the digital and technological infrastructures along the corridor along the Alpine territory of Turin-Lyon rail line where works are conducted. Europe. Finally, the applicant recently applied for the upgrading of the rail historic line Bussoleno – Avigiliana, the base tunnel access from the Italian side (22-EU-TG-RE-AVIBUS-TELT-2), which design studies was financed by the Connecting Europe Facility, through the project 21-IT-TG-PFD-AviO.

#§COM-PLE-CP§#

1.7 Dual-use potential (civilian-defence)

Dual-use potential (civilian-defence) (for Military mobility topics) Describe the potential of dual-use (civilian-defence).
N/A

#§PRJ-OBJ-PO§# #§REL-EVA-RE§# #@MAT-URI-MU@#

2. MATURITY

2.1 Readiness and technical maturity

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ha eliminato:

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Readiness and technical maturity

Provide information about the readiness and technical maturity of the project.

For every work package, describe the precise state of preparation (e.g. terms of reference ready, tendered, contract signed, started, etc. If any activities of the project have already started, indicate more precisely their current status of implementation.

Describe how the implementation of the project (and, if applicable, of the global project it is part of) depends on the results of past or on-going feasibility or technical studies. For projects with high technological value (such as infrastructure crossing natural barriers, intelligent traffic management systems, cooperative ITS, or airspace initiatives), provide additional information on the foreseen technology, type of communication, and materials.

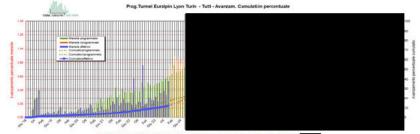
Explain if there are any further dependencies that are critical to the start and completion of the project such as connection to grid or other utilities, access to and use of land, etc. Indicate if such authorisations have been obtained already or when they are planned for.

The Lyon-Turin project stands on a robust foundation, based on comprehensive technical, economic, and environmental assessments. It has successfully completed all the stages of studies, meticulous design work, and necessary approvals, demonstrating its commitment to rigorous planning and adherence to regulatory requirements. As the project advances, the implementation of the construction phase is progressing improving on the bases of the gained know-how constantly implementing the most innovative construction methods, technologies and management strategies.

The major tenders for the allocation of construction contracts have already been awarded, reflecting a high degree of readiness and a clear commitment. While some minor works still await the completion of tendering processes and contract awards, these remaining tasks are not expected to hinder the overall progress of the project. This proactive approach ensures that the Lyon-Turin project remains on track for timely completion and underscores the dedication of the involved parties to realize the vision of a transborder rail connection by the specified deadline. At this stage of the project, around 35 km of tunnels have been excavated, including access tunnels, logistics caverns, ventilation infrastructures and part of the base tunnel and more than 2,000 people are daily employed for the realization of the Cross-Border section.

The project's ability to pass through various stages successfully and maintain a steady pace of work demonstrates its readiness to bring substantial benefits to the region and reinforce cross-border connectivity by the targeted timeline.

Future provisions are based on the so called "s-curve", showing the future evolution of the works according to the updated cash flow of the project.



S-Curve of the base tunnel construction works (2018-

The image shows the "S-Curve" of the overall project, data in blue are representing the actual technical progress recorded. Forecasts are constantly updated by TELT and the green and orange lines are showing different forecasts. Peak values are determined by contractual instalments and provisions.

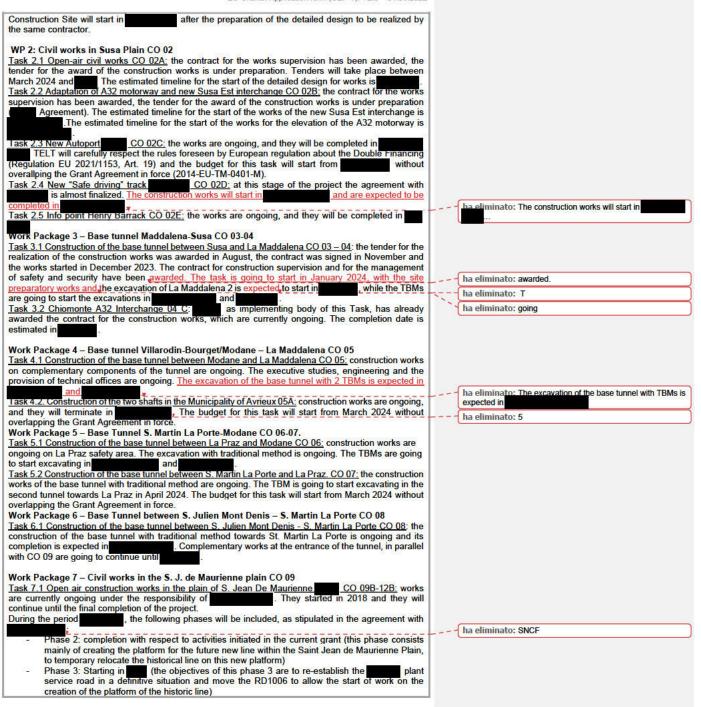
As explained above, this proposal does not include cost elements of the Alpine Crossing that, while necessary for the completion of the works, are not eligible under CEF rules: expropriations, accompanying measures, and investments on the historical line. Finally, railway technological installations that will start once the base tunnel is completed are outside the timeframe of this application.

The budget of this project is based on the expected progress defined by the orange line, that is more conservative. In addition, we attach as Annex of B Form the specific S-Curves of each Work Package.

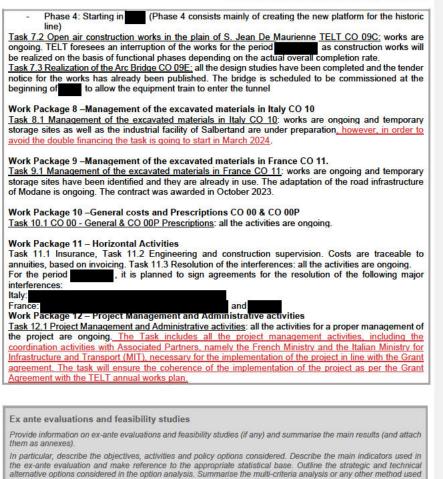
The following paragraphs are presenting details on the maturity of each WP:

WP 1: Interconnection of Bussoleno - CO 01

Task 1.1 Interconnection of Bussoleno - CO 01: The tender of the execution of the works has been launched and the applications are under evaluation. The award and the signature of the contract with the assigned company is expected at the beginning of the construction works for this Operating



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In particular, describe the objectives, activities and policy options considered. Describe the main indicators used in the ex-ante evaluation and make reference to the appropriate statistical base. Outline the strategic and technical alternative options considered in the option analysis. Summarise the multi-criteria analysis or any other method used to shortlist the alternatives and what have been the arguments used to exclude cheaper but still relevant solutions. Summarise the shortlisted options or any other method used that led to the final selection.

If the ex-ante evaluation was carried out on a global project going beyond the scope of the project, give an overview and explain how it is linked to the project.

Clarify if TEN-T/CEF or other EU programmes have provided financial support for the ex-ante evaluations.

All the design studies have been completed and the construction works are ongoing. More in details:

In Italy

The design studies have been officially approved with the following Deliberations of the Italian Committee of the Ministries for Economic Programming:

- Deliberations n. 57 of 3rd August 2011 approved the preliminary design studies of the Italian section of the International common cross-border section. (Annex B 2.1)
- Deliberation n. 19 of 20th February 2015 approved the final design studies of the Italian section
- of the International common cross-border section. (Annex B 2.2) Deliberations n. 30 of 21st March 2018 and n. 39 of 26th April 2018 approved the variant of the final design studies in compliance with the prescription 235 of CIPE's Deliberation n. 19 of 2015 with forecase that is the section of the sec 2015 which foresees that in the course of executive planning, an alternative location of the construction sites should be studied in accordance with the safety requirements of the workers and in compliance with the operational requirements of the works. (Annexes B 2.3 - B 2.4)

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- Ministero dell'Ambiente e della Sicurezza Energetica (MASE Ministry of Environment and Energy Security) Approval n. 248 of 28/09/2022, of the "Piano di Utilizzo delle Terre e Rocce da scavo" (Plan for the reuse of the Base Tunnel excavation materials) (Annexes B 2.5.1 B 2.5.2). This approval refers to the detailed design of all the Italian operating construction sites with reference to the site preparation and the management of the excavated material. Horizontal rules will be applied for all the Italian construction sites, while specific detailed design studies will be directly realized by the construction companies. This will speed up the start of the works.
 Deliberations n. 3 of 15th February 2022, approved the remodeling of lots n. 3, n. 4, n. 5, and
- building lot authorization n. 4.
 Deliberations n. 7 of 29th March 2022, authorization to start the construction lot n. 3 «phase tunnel completion», and allocation of the related resources available. <u>This deliberation allowed the start of the works.</u>

The Observatory, in the context of the Turin-Lyon railway project, played a crucial role in shaping the final layout of the railway route. Its involvement was instrumental for several reasons:

- Examination of Route Alternatives: The Observatory conducted a detailed analysis of various
 route alternatives for the railway. This process involved the assessment of eleven different
 options, each with its own implications in terms of environmental impact, costs, and benefits.
 The Observatory's task was to impartially and objectively evaluate these options.
- Engagement with Stakeholders: During the decision-making process, the Observatory actively
 interacted with the local communities affected by the project. It held meetings and hearings with
 representatives from local institutions, experts, and other stakeholders. This engagement
 allowed for a wide range of perspectives to be considered, listening to community concerns and
 addressing local needs.
- Development of Technical and Policy Solutions: The Observatory went beyond a consultative
 role and was tasked with developing technical and policy solutions based on the data collected
 and stakeholder consultations. These solutions significantly influenced the choice of the final
 layout by providing well-founded and objective input for optimizing the railway route.
- Redesign of the Route: One of the most significant outcomes was the radical redesign of the
 original railway route. This entailed substantial changes, including altering the side of the valley
 crossed. These modifications were made after an extensive process of discussion and
 assessment of alternatives and received the necessary approvals to proceed with the final
 construction works.

In summary, the Observatory played a pivotal role in the decision-making process concerning the final layout of the Turin-Lyon railway. It contributed to the analysis of alternatives, gathered input from local communities, developed technical and policy solutions, and led to a substantial change in the original route. This approach marked a substantial shift in the approach to large infrastructure projects, moving from a sectoral view to active engagement of affected communities in determining the final layout. Further details will be provided in the oublic consultation box.

In France

The design studies have been officially approved with:

- Ministère de l'écologie, du développement et de l'aménagement durables Déclaration d'Utilité Publique (DUP) of 18/12/2007: Declared the Public utility and the urgency of the works needed for the realization of the Turin-Lyon line. (Annex B 3.1)
- Déclaration d'Utilité Publique (DUP) of 30/03/2011: Declaration of Public utility by the Prefet of Savoy stating the public utility and the urgency of the works needed for the realization of the Turin-Lyon line In the Villarodin-Bourget area. (Annex B 3.4)
- Ministère de la transition écologique et solidaire, Déclaration d'Utilité Publique (DUP) of 06/12/2017: extending the effects of the decree of 18/12/2007 declaring of public utility and urgency the work necessary for the realization of the railway link Lyon–Turin between Saint-Jean-de-Maurienne and the Franco-Italian border.

The following general criteria have characterized the realization of the design studies:

Participatory planning: the local communities have been involved in a continuous discussion during the planning phases.

Choice of the optimal route: various route alternatives were evaluated in the preliminary planning stage with public multi-criteria comparative analysis to identify the best corridor based on the suggestions of the Local Communities.

Priority through the definition in functional phases: the phasing is an essential point as it avoids duplication of the works, construction works of uncertain duration and uncertain conditions of the work site:

Concentration and limitation of interventions: the phasing made it possible to select the maximum benefits while limiting the problems to a minimum; all the significant works are concentrated in few municipalities in Italy and France;

Optimization of land use: the phasing, by selecting and concentrating the areas of intervention, has made it possible to involve almost exclusively sites already compromised for transport uses, with minimal soil consumption;

Opportunity for reorganization: the project design aims at realizing an improved territory in terms of layout, functionality and image, including the future new lay out and functionality of the infrastructures; *Quality of the works*: related to the shape of the future infrastructure, their inclusion in the territory and the materials and technologies used during the construction phase;

Optimization of construction sites: work was done in order to reduce the size of the construction sites by optimizing their functions, eliminating the base camps and instead using the accommodation facilities of the area, moving the excavated materials exclusively by rail, carrying out the work in closed and controlled spaces (thus solving the problem of dust and noise), optimizing the economic and employment effects of the territory;

Anticipation of works for the environment: various environmental interventions are planned in correspondence of the construction sites. Economic impact: discussions with local communities have revealed the possibility of implementing

Economic impact: discussions with local communities have revealed the possibility of implementing various actions to enhance the economic impact of the project on the territory.

Political commitment

Provide information on the political commitments regarding the implementation of the project and, if relevant, on the global project, including cross-border commitments where relevant.

List and briefly describe the (formal and informal) documents demonstrating these commitments (decisions of national and regional authorities, memoranda of understanding, written agreements, national transport master plans or in sectorial strategies, etc).

As explained above, the realization of this project as part of the Global Project is the result of several international Treaties, demonstrating the strong political commitment for the realization of the NLTL:

- The Franco-Italian Agreement of 15.1.1996 which established an Intergovernmental Commission (IGC)
- A Franco-Italian Agreement was signed on January 29, 2001, in Turin which became Treaty
 after its ratification by the Parliaments of the 2 Countries, on February 28, 2002, in France
 and on September 27, 2002, in Italy. This agreement focused on the construction of the
 works of the common Franco-Italian part, necessary for the construction of a new transalpine
 rail link between Lyon and Turin for goods and passengers.
- A Franco-Italian Agreement was signed on January 30, 2012 in Rome whereby the Government of the French Republic and the Government of the Italian Republic decided the construction of a new Lyon Turin railway line which became a Treaty after its ratification by the Parliaments of the 2 Countries, on December 2, 2013 in France and on April 23, 2014 in Italy. For the subsequent phases of the cross-border section, the art. 16 of the 2012 International Agreement provides that each Party finances, with the help of the European Union, the infrastructures located on its territory that are needed to access to the transfrontalier tunnel.
- An Agreement was signed on 24 February 2015 in Paris whereby the Government of the French Republic and the Government of the Italian Republic decide to start the final works of the cross-border section and to entrust the construction to the Promoter called Tunnel Euralpin Lyon Turin.

The previous agreement (2015) was supplemented by the Additional Protocol of 2016.

On a democratic basis, all the above-mentioned Treaties have been approved by the National Parliaments of Italy and France, highlighting the relevant and "horizontal" political commitment for the realization of this project during the last decades.

Various institutional meetings between Italy and France have confirmed, during the year, the will for completing this relevant project. The last one was held in Naples in February 2020. Finally, the political relevance of this intervention is confirmed at European level, by its inclusion in all the

planning documents related to the realization of the TEN-T Network (see chapter "Priority"). Finally, it is important to identify the remaining actions necessary for the full completion of the project, so

that European resources can be exploited at the maximum level, in line with respective planning and applicable co-financing rates, together with the available financial resources at national and regional level. According to the Regulation of the European Parliament and of the Council establishing the

Connecting Europe Facility (CEF Regulation), all of the sections of the Lyon-Turin project are eligible for EU funding, (up to maximum 55% for the base tunnel and 50% for access lines). They must demonstrate a high degree of integration in the planning and implementation of the action and be in line with the article 14 of the CEF Regulation Financial resources should be, therefore, fully optimised with the maximum efforts of all parties involved.

Public consultations

Describe the public consultations carried out and the feedback received (or consultations foreseen and their timing). Provide information on the plans to involve stakeholders during the implementation.

In Italy

With the Turin-Lyon railway project, for the first time in Italy, institutions had to implement a new tool for engaging with local communities. Following the strong protests in Venaus, Val di Susa, in December 2005, the central government intervened at the beginning of 2006 using a dual approach, which was innovative in its division of responsibilities. This division was agreed upon between local communities and the government, with the Institutional Table of Palazzo Chigi serving as the political forum for discussions and the Observatory for the Turin-Lyon railway line acting as the technical body responsible for developing and proposing policy solutions.

The Observatory was a unique experiment and left an indelible mark on public discourse regarding large infrastructure projects in Italy. Only in the early months of 2017, with the introduction of the new public procurement code, did the practice of consultation become mandatory for large infrastructure projects in Italy, following the example set by the Turin-Lyon project. Subsequently, with the National Recovery and Resilience Plan coming into effect, the instrument of public debate was strengthened, and a ministerial commission approved the guidelines.

In this context, the implementation of the National Recovery and Resilience Plan is facilitated by the equation of "large infrastructure = the country's future development = citizens and businesses."

In Italy, the experience of the Observatory in the approval process, from 2006 to 2015, involved over 236 meetings with representatives of local institutions, including 50 municipalities with 16 delegated representatives. It also included extensive benchmarking of national and international experiences, 300 expert hearings, and the compilation of nine in-depth volumes. The Observatory enabled technical experts and stakeholders to establish peaceful relationships with the communities affected by the project, even in the ongoing debate between those in favor and those against the project.

Most notably, after lengthy discussions and considering eleven alternative routes, the Observatory led to a new project that radically changed the original one, even altering the side of the valley that was crossed. With the necessary approvals from the CIPE (Interministerial Committee for Economic Planning), it gave the green light for the final construction works on the Italian side.

the green light for the final construction works on the Italian side. However, this was only one of the results of the Observatory. The uniqueness of this experience lies in all the actions taken after agreeing on the project route, which can be summarized as a radical shift in the perspective of accompanying infrastructure. Until its establishment, large infrastructure projects were viewed within a sectoral framework, with the territory playing a minor role and being consulted only for mitigation measures to limit negative effects and compensations for those affected by non-mitigable impacts. This approach contributed to the perception that infrastructure equals damage. Instead, the Observatory made territorialization its mission, aiming to integrate the Turin-Lyon project into the social, economic, and environmental context of the region and pursue policies and actions to stimulate development factors.

Furthermore, the Observatory did not restrict itself to studying alternative routes but also developed the phasing of interventions, assessed environmental benefits and safeguards, and significantly influenced the conception of construction sites as places of value. Notably, the Observatory saw the presentation of the first true plan for the economic and social recovery of Val di Susa: "Smart Susa Valley," a project that, due to its sustainability and technology focus, with the valorization of local resources, remains relevant and forward-thinking nearly a decade after its inception.

Here below the details of various public consultations that have been held for this project during the last decades and many local and national institutions have expressed their approval of the project. Here we provide references for the most recent ones.

Several public consultations with authorities and stakeholders were held in order to discuss about the project: in 2011, in Italy the **preliminary design** (*Progetto Preliminare*) was approved after a first stage of public consultation which foresaw the following phases:

 Announcement on National and Regional newspaper of the launch of the approval procedure of the project and information on the access to the technical and environmental documentation;

- Private Citizens and involved stakeholders can send technical remarks on the project to the Competent Authority (Ministero dell'Ambiente e della Sicurezza Energetica) within the 60 of the Announcement date.

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- Regarding the EIA, Regione Piemonte (Regional Competent Authority) had activated n. 3 sessions of Conferenza di Servizi, Technical Consultations opened to the involved public parties: Public Offices, Municipality, Stakeholders interfered. In 2015, the **final design** (*Progetto Definitivo*) of the project was approved after another consultation

stage structured as follows: Announcement on National and Regional newspaper of the launch of the approval procedure

of the project and information on the access to the technical and environmental documentation;

- Private Citizens and involved stakeholders can send technical remarks on the project to the Competent Authority (Ministero dell'Ambiente e della Sicurezza Energetica) within the 60 of the Announcement date.

- Regarding the EIA, Regione Piemonte (Regional Competent Authority) had launched n. 3 sessions of Conferenza di Servizi, Technical Consultations opened to all the involved public parties: Public Offices, Municipality, Stakeholders interfered.

- Regarding the approval of the Detailed Design, the Ministero delle Infrastrutture e dei Trasporti, had launched n. 2 sessions of National Conferenza di Servizi Technical Consultations opened to all the involved public parties: Public Offices, Municipality, Stakeholders interfered.

Finally, the **design of variant** of the final Design (*Progetto Definitivo*) was approved in 2018 with two Deliberations of the CIPE after an additional public consultation phase:

 Announcement on National and Regional newspaper of the launch of the approval procedure of the project and information on the access to the technical and environmental documentation;
 Private Citizens and involved stakeholders can send technical remarks on the project to the

Competent Authority (Ministero dell'Ambiente e della Sicurezza Energetica) within the 60 of the Announcement date.

- Regarding the EIA, Regione Piemonte (Regional Competent Authority) had launched n. 2 sessions of Conferenza di Servizi, Technical Consultations opened to all the involved public parties: Public Offices, Municipality, Stakeholders interfered.

- Regarding the approval of the Detailed Design, the Ministero delle Infrastrutture e dei Trasporti, had launched n. 1 session of National Conferenza di Servizi Technical Consultations opened to all the involved public parties: Public Offices, Municipality, Stakeholders interfered.

As just described, the public consultation held in Italy was structured with a continuous debate with the stakeholders and systematically approved by the Italian Authority (CIPE) considering the results of these debates and issuing specific prescriptions for the realization of the project accordingly. The consultations were carried out both on a National and Regional level. Moreover, within the scope of the **environmental impact assessment** procedures carried out for this project all the public was consulted according to the European and National relevant laws.

In France

As part of the public research subsequently carried out in the Municipality of Villarodin-Bourget, a consultation process was also put in place. Between February 2008 and March 2011, there were more than 40 working meetings held by LTF (now TELT) with various State departments, half of them in consultation with the Mayor of the Municipalities. The Sub-prefect took part in 10 of these meetings, and the Prefect in 4 of them. During the public inquiry, in June 2010, the investigating commissioner organized a public meeting. At the end of the process, the investigating commissioner sent to LTF (now TELT) several questions, which led to the drafting of a report. The commissioner took this report into account in his conclusions, before sending it to the Prefect so that the latter could issue a decree declaring the public utility.

A continuous consultation process continued, leading representatives of LTF (now TELT) to meet regularly with the mayors of the municipalities concerned by the Project, to participate in public information meetings or conferences, in addition to all communication through the press and by welcoming the public at the LTF information center (now TELT) in Modane.

Given the possible damage to the environment, some installations require prior administrative authorization. These are mainly facilities classified for the protection of the environment (ICPE - "Les Installations Classées pour la Protection de l'Environment"), inert waste storage facilities (ISDI) and authorizations to destroy protected species (CNPN). In accordance with the Environment Code, these files are examined by the State services, transmitted in parallel to the municipalities and made available to the public. In addition, public displays (on the internet, site, in town hall and in the press) are made so that everyone can be aware of these files, consult them and make comments. Some works required administrative authorizations according to the regulations of the Environment Code. In particular, construction sites and material storage sites are subject to ICPE (Plants classified for environmental protection) declaration, registration or authorisation.

The following prefectural decrees were issued considering the environmental, urban and heritage impacts:

 AP ICPE registration 17/02/2023 for the deposit site of Les Resses in the municipality of Villargondran.

 AP ICPE registration 16/11/2022 for the Tierces deposit site in the municipality of Villarodin-Bourget.

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Within the framework of the authorizations obtained under the environment code for the works of the descending tunnels, and more particularly for the works of the gallery of Saint-Martin-la-Porte which begin in 2015, this information and consultation process was carried out, mainly in 2013 and 2014. It consisted of meetings with the elected representatives of the municipalities concerned. At the request of some mayors, meetings were also held before municipal councils, as well as public information meetings. All the planning and programming activities at local level are taking into account the realization of this project and the following are example of this participated planning: the Pays de Rhône Alpes Development Contract (CDPRA) and the Savoie Territorial Contract (CTS).

2.2 Status of contracting procedures and authorisations, approvals and permits

Authorisations, approvals and permits

Indicate the general project maturity in terms of authorisations, approvals and permits needed.

This project is the result of a very complex approval process at national level, in France and Italy and at local level. All the approvals have been obtained and no further authorizations are needed to continue with the realization of the project. A specific scheme on all the approvals obtained is provided in the Annex B 4.1, In this chapter we refer to the most relevant authorizations obtained.

Here below the Task involved aggregated per Territory (Italy and France) as a support for the following box (Authorisations, approvals and permits (including environmental).

Authorisations, approvals and permits (including environmental)

For each work package/task, list the authorisations or approvals needed (at governmental, regional, local level, including environmental approvals, right-of-way, state aid notification/decision, etc.) and their status and expected timeline.

Risk factors and mitigating measures (alternative solutions) if the authorisations are not obtained in time should be described in section 3.4.

Task No	Type and Description	Status	Date of award
IT (all tasks)	Comitato Interministeriale per la Programmazione Economica (CIPE -Committee of the Ministries for Economic Programming), Delibera n. 47 - 03/08/2011: approval of the preliminary design studies of the Italian section of the International common cross- border section. (Annex B 2.1)	Received	03/08/2011
IT(all tasks)	Comitato Interministeriale per la Programmazione Economica (CIPE -Committee of the Ministries for Economic Programming), Delibera n. 19 - 20/02/2015: approval of the final design studies of the Italian section of the International common cross-border section. (Annex B 2.2)	Received	20/02/2015
IT (all tasks)	Comitato Interministeriale per la Programmazione Economica (CIPE -Committee of the Ministries for Economic Programming), Delibera n. 30 - 21/03/2018: approval of the variant of the final design studies in compliance with the prescription 235 of CIPE's Deliberation n. 19 of 2015. (Annex B 2.3)	Received	21/03/2018
IT (all tasks)	Comitato Interministeriale per la Programmazione Economica (CIPE -Committee of the Ministries for Economic Programming), Delibera n. 39 - 26/04/2018: approval of the amendment of the variant. (Annex B 2.4)	Received	26/04/2018
IT (all tasks)	Approval by the Ministero dell'Ambiente e della Sicurezza Energetica (MASE) N. 248, on September 28th, 2022, of the Piano di Utilizzo delle Terre e Rocce da scavo (Plan for the reuse of the Base Tunnel excavation materials) (Annexes B 2.5.1 - B 2.5.2)	Received	28/09/2022

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IT (all tasks)	Approval act n. 1004.TELT_UE_PROVV.1004.TEC.22 on June 09th 2022, for the renewed public utility for the Italian section of the International common cross-border section. (Annex B 2.6)	Received	09/06/2022
FR (All Tasks)	Ministère de L'écologie, du Développement et de L'Aménagement Durables (Ministry of Ecology, Development and Sustainable Development), Décret of 18/12/2007 (JO le 20/12/2007) declaration of public utility (DUP) and urgent the work necessary for the realization of the railway connection Lyon-Turin between Saint-Jean-de-Maurienne and the Franco- Italian, excluding works and surface works planned in the territory of the municipality of Villarodin-Bourget, and including compatibility of the planning documents of the municipalities of Saint-Jean-de-Maurienne, Villargondran, Saint-Julien-Mont- Denis, Montricher-Albanne, Saint-André, Avrieux in the department of Savoie, whose effects were extended by decree of 06 December 2017. (Annex B 3.1)	Received	18/12/2007
FR (All Tasks)	Prèfet de la Savoie (Prefect of Savoy), Arrêté préfectoral of 12/02/2007, authorizing, pursuant to Articles L.214-1 to L.214-6 of the Environment Code, the work to build the new Lyon-Turin rail link between Saint-Jean-de-Maurienne and the Franco- Italian border. (Annex B 3.2)	Received	12/02/2007
FR (All Tasks)	Préfet de la Savoie (Prefect of Savoy), Arrêté préfectoral of 4/03/2011, granting additional authorization under Articles L.214- 1 to L.214-6 of the Environment Code, "initial status" and "follow- up" phases to be carried out in the context of the Lyon-Turin rail link. (Annex B 3.3)	Received	4/03/2011
FR (All Tasks)	Prèfet de la Savoie (Prefect of Savoy), Arrêté préfectoral of 30/03/2011, declaration of public utility including compatibility of the Land Use Plan of the municipality of Villarodin-Bourget for the project of works and surface works planned in the territory of the municipality of Villarodin-Bourget within the framework of the new rail link Lyon-Turin, whose effects were extended by prefectural decree of 14 March 2016. (Annex B 3.4)	Received	30/03/2011
FR (All Tasks)	Préfet de la Savoie (Prefect of Savoy), Arrêté Prefectoral n. 1166 - 16/08/2016: this approval relates to the derogation from the law protecting the destruction of protected species ("Dérogations à la destruction d'espèces protégées" of the Conseil National de la Protection de la Nature CNPN) and concerns all the sites linked to the digging of the base tunnel, as part of the cross-border section of the project for a new rail link between Lyon and Turin (NLTL). (Annex B 3.5)	Received	16/08/2016
Describe wl Indicate the	ork package/task, provide information on the building permits which must be o hat the permit is for, the authority concerned, the size (land surface) and the ir status timeline.	kind of works o	
Risk factors in section 3.	and mitigating measures (alternative solutions) if the permits are not obtained 4.	d in time shoul	d be described
Task No	Type and Description	Status	Date of

Task No	Type and Description	Status	Date of award
IT (All Tasks)	All the approvals listed are authorizing the start of the construction works and therefore they have to be considered building permits.	N/A	N/A

Contracting procedures

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N/A

FR (All Tasks)	All the approvals listed are authorizing the start of the construction works and therefore they have to be considered building permits.	N/A	
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Procurement in general Indicate the project maturity in terms of procurements needed. Various contracts are currently included in the procurement list of TELT (ongoing and awarded) for the realization of this project for an overall amount of more than 5 billion €. Procurement activities are performed in accordance with the company's objectives and applicable laws and regulations which are prominent in public sector. In short, the hierarchy of documents is as follows: Laws and regulations The TELT Procurement Policy The TELT Procedures and Processes internal manuals. TELT's procurement policy aims at awarding contracts not only on the basis of economic and technical criteria, but also measuring sustainability aspects, such us the awarding of contractors that guarantee the use of territory's services. TELT goes further by introducing evaluation criteria in its calls for tenders based on occupational safety or employment promotion objectives as well as on environmental certifications. Moreover, TELT requires from the selected contractors to subscribe its Code of Ethics. This process involves also an Independent Contracts Commission which controls all the aspects involved in awarding and executing contracts drawn up by the company. In addition, the international agreements of 2012 and 2015 stipulate that in order to combat mafia infiltration, TELT is obliged to apply an extremely strict set of Contract Regulations that reconciles the procedure of Italian anti-mafia controls with the supplier assessment provisions of risk mapping, and anticorruption, of procurement law. It is worth mentioning that TELT has also obtained the Procurement Excellence Programme Certification by Chartered Institute of Procurement and Supply (CIPS). Contracts awarded before submission of the proposal For each work package/task, explain the contracts already awarded, their typology and status. For public procurers, please specify which procurement method has been selected (e.g. EU-wide or national; open, restricted or negotiated, etc). For private companies, please specify best value for money. Where applicable, indicate the starting dates of the awarded contracts A Please note that we do not check or validate the procurement method you chose. The procurement must be in compliance with the provisions set out in the Grant Agreement and compliance may be checked later on (in checks, reviews, audits or investigations). The following table is presenting the main contracts currently awarded. Considering the overall global project, TELT has awarded various contracts, for an overall value of 3.83 billion €. We provide below the main ones. All the contracts have been awarded carefully respecting the Italian and French Laws for public procurement procedures. Main contracts awarded by July 2023 WP & CO Description Contractors Value € T7 LOT 2 - Construction of the base tunnel of the cross-border section of the Lyon-Turin rail link starting from the connections on the France side LOT 2: Construction site 6/7 construction of the tunnel starting from the WP 5 1.660.661.683 CO6-7 connections of the La Praz and Saint-Martin-la-Porte descents (2021-C188002-A) T7 LOT 1- Construction of the base tunnel of the cross-border section of the Lyon-Turin rail link starting from WP4 CO5 the connections on the France side LOT 1: Operational construction site 5: Construction work of the tunnel 1.609.276.225 starting from the Villarodin-Bourget/Modane descent attachment (2021-C188001-A) T7 LOT 3 - Construction of the base tunnel of the cross WP6 border section of the Lyon-Turin rail link starting from the connections on the France side LOT 3: Operational 304.827.071 **CO8**

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	construction work 8: Tunnel construction work starting from the Villard-Clément portal attacks (2021-C188003- A)		
WP4 CO5	S8: Base Modane tunnel works - Villarodin/Bourget - Maddalena - MOE - DL (construction supervision/direzione lavori) Lotto 1 (2018-C180007-0)	(mandataria)	39.926.733
WP5 CO6-7	S8: Base tunnel from La Praz and Saint-Martin-la-Porte – MOE – DL (2018-C180008-0)	(mandataria)	37.065.990
WP3 CO3-4	S29: Operational Construction Sites 3-4 - Works Management Maddalena Base Tunnel - Susa and Maddalena Interchange Area - DL (construction supervision/direzione lavori) (2019-C180259-0)	Groupement	20.642.686
WP3 CO3-4	T13 LOT 1 - Construction works of the base tunnel of the cross-border section of the Lyon-Turin railway link starting from the attacks on the Italian side and works to enhance excavated lands and rocks – LOT 1: Operational construction sites 3 and 4 (CO3 and CO4): construction works of the base tunnel on the Italian side starting from the Chiomonte construction site, both with TBM and with traditional method.		1.099.000.000
WP10 CO00	S27: Project management assistance services Engineering in the works phase (AMO) (2019-C17306- 0)	Groupement	19.979.510
WP8 CO10	T20 - Removal of abandoned materials and waste and reclamation / safety works of areas C and D / Site of Salbertrand. (2021-C210423-0)		19.979.399
WP9 CO11	S37: Project management for the management and use of excavated materials on the France side (CO11) (2020-C192172-0)		19.240.916
WP9 CO11	T12 - Work related to the management and use of excavation materials on the FRANCE side of the cross- border section of the Turin-Lyon railway project (operational site 11)	Groupement (mandataire)	799.000.000
WP6 CO8	S8: Base tunnel from the west head – MOE – DL (construction supervision/direzione lavori) (2018- C180009-0)	(mandataria)	13.761.630
Horizontal	S53 - Construction insurance benefits for the works of the base tunnel of the Turin–Lyon rail link - LOT 1: Principal liability (2022-C200751-A)		10.670.730
WP1-2 CO1-2	S42 - Provision of construction supervision and high surveillance for operational construction sites CO1 — interconnection tunnel (Bussoleno) and CO2 — outdoor works (plain of Susa). LOT 2: Works supervision and high supervision services for the construction of the open-air works of the new Turin-Lyon railway line in the Susa plain. (2022-C181039-B)		10.391.227
WP8 CO10	S24: Project management service for the management and recovery of excavated materials on the Italian side of the cross-border section of the Lyon-Turin railway project (Operational Site No. 10) (2020-C180351-A)	Groupement	10.228.559
WP9 CO11	T10 - Construction of a construction track for the Modane ring road – Lot 2: Underground works carried out with traditional method and open-air works (2022- C181476-B)		9.345.508
WP10 CO00	S36: Security coordination at IT run time (2020- C180571-0)	Groupement	7.821.750

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WP1-2 CO1-2	S42 - Provision of construction supervision and high surveillance for operational construction sites CO1 — interconnection tunnel (Bussoleno) and CO2 — outdoor works (plain of Susa). LOT 1: Works supervision and high supervision services for the construction of an interconnection tunnel and grafting of the new Turin-	6.869.503
Horizontal	Lyon railway line to Bussoleno. (2002-C181039-A) T5 - Preparatory work for the construction of the western entrance to the base tunnel on the left bank of Arc Lot 1 - reinforcement of dams by resuming the works and carrying over to the rear - diversion and creation of networks. (2021-C192049-A)	6.799.828

Contracts planned during implementation

For each work package/task, explain the contracts planned, their typologies and status. For public procurers, please specify which procurement method will be selected (open, restricted, negotiated, EU wide or national). For private companies, please specify how you will ensure best value for money. Where applicable, please indicate the start dates of the awarded contracts.

Please note that we do not check or validate the procurement method you chose. The procurement must be in compliance with the provisions set out in the Grant Agreement and compliance may be checked later on (in checks, reviews, audits or investigations).

The following table is presenting the main contracts to be awarded for the realization of the project until the end of

CO	Description	Status	Value €
WP3 CO3-4	T13 LOT 2 - Construction works of the base tunnel of the cross-border section of the Lyon-Turin railway link starting from the attacks on the Italian side and works to enhance excavated lands and rocks – LOT 2: Operational site 10: works to enhance the excavated lands and rocks from all the construction sites on the Italian territory, and environmental requalification works	-	216.440.000
WP8 CO9	T16 - Works for the construction of a viaduct over the Arc River, for railway use, in the plain of Saint-Jean-de-Maurienne (CO9e operational site)		37.500.000
WP9 CO11	T21 - Reception and valorisation of inert and sulphated materials from the excavation of the base tunnel of the new Turin-Lyon railway link project (3 lots)		33.090.000
Horizontal	S54 - Strategic consulting, design and implementation of TELT's global communication (4 lots)		9.000.000
Horizontal	S63 - Assistance in the recruitment and management of temporary staff		3.525.000
WP10 CO00	S56 - Environmental coordination services for construction sites on the French side		3.000.000
Horizontal	S52 - Health insurance provision for the staff of the company TELT with residence in Italy for the period between 01/01/2024 and 31/12/2028.		3.000.000
Horizontal	S58 - Carrying out internal audits for TELT (2 lots)		3.000.000
Horizontal	S59 – Translation and revision of documents for TELT's statutory services and bodies (3 lots)		1.960.000

2.3 Financial maturity

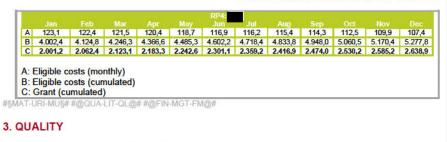
Financial maturity

Describe the availability of funds for the project over its lifecycle (budget in balance; use of funds vs sources of funds) demonstrating that the sources of funds cover the project costs. Distinguish between the applicant's own resources, third party resources, grants and other forms of funding of the project and list for each source the fund providers, recipients and use of funds. Provide a diagram of entities participating in the financing structure, either as a receiving party or as provider of funding of financing, or of other support (e.g. guarantee).

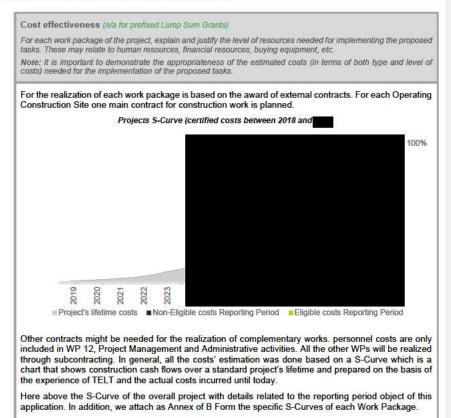
Provide details on revenues and other sources of financing needed to complement the CEF support and the degree of confidence in those financial commitments.

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3.1 Cost effectiveness and financial management



Detail of the reporting period resources needed

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Here below the details of the eligible costs per work package and per year and reporting period.

Eligible costs of the projects per WP from 2024 to 2027 in k euro

WP		RP1	RP2	RP3	RP4	TOTAL	CEF-50%
/Tas k	со						
1	CO 01 - Interconnection of Bussoleno	0	0	4.177	37.049	41.226	20.613
2	CO 02 - Susa Plain Works	3.434	28.282	60.936	85.220	177.873	88.93
2.1	CO 02A	0	0	7.965	44.098	52.064	26.03
2.2	CO 02B	0	1.020	33.866	41.122	76.007	38.00
2.3	CO 02C	0	24.146	3.270	0	27.416	13.70
2.4	CO 02D	0	2.581	15.836	0	18.416	9.20
2.5	CO 02E	3.434	535	0	0	3.970	1.98
3	CO 03-04 - Base tunnel Maddalena-Susa	93.189	188.101	213.728	234.485	729.503	364.75
3.1	CO 03-04	93.189	163.746	213.728	234.485	705.148	352.574
3.2	CO 04C	0	24.355	0	0	24.355	12.17
4	CO 05 - Base Tunnel Modane-Maddalena	85.167	50.586	219.951	420.096	775.800	387.90
4.1	CO 05	8.179	13.526	219.433	420.096	661.234	330.61
4.2	CO 05A	76.988	37.060	518	0	114.566	57.28
5	CO 06-07 - Base Tunnel La Praz-Modane-S. Martin La Porte	442.444	538.927	456.918	191.576	1.629.865	814.93
5.1	CO 06	253.358	266.132	225.543	112.262	857.296	428.64
5.2	CO 07	189.086	272.795	231.375	79.314	772.569	386.28
6	CO 08 - Base Tunnel S. Julien Mont Denis-S. Martine La Porte	72.290	88.433	40.417	4.345	205.485	102.742
7	CO 09 - S. Jean de Maurienne Works	85.950	81.802	99.695	87.635	355.081	177.54
7.1	CO 09B-12B	85.950	69.357	69.206	66.425	290.938	145.46
7.2	CO 09C	0	0	4.391	14.707	19.098	9.54
7.3	CO 09E	0	12.445	26.098	6.502	45.044	22.52
8	CO 10 - Valorization of Materials (Italian Side)	49.253	91.550	80.212	28.647	249.662	124.83
9	CO 11 - Valorization of Materials (French Side)	35.602	80.085	112.631	131.035	359.354	179.67
10	CO 00 - General + CO 00P - Prescriptions	6.836	12.782	16.586	17.377	53.580	26.79
11	Horizontal Activities	109.750		103.398	92.789	411.080	205.54
11.1	Insurance	10.189	11.036	12.141	10.654	44.019	22.01
11.2	Engineering	81,395	77.072	77,588	74,982	311.037	155.51

1	ha eliminato: 113.985
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1	ha eliminato: 103.398
-	ha eliminato: 92.789
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11.3	Interferences	18	3.167 17.035	13.669	7.153	56.023	28.012
12	PM & Administrative activities	80	0.209 70.264	70.624	68.170	289.267	144.633
	TOTAL	1.064.	124 1.335.954	1.479.273	1.398.423	5.277.775	2.638.887
	CEF	532.0	62 667.977	739.637	699.212	4.678.488	
	CEF - cumulated	532.0	62 1.200.039	1.939.676	2.638.887		
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Financial management

Describe in detail the arrangements for the financial management of the project and the monitoring, internal and external audit and evaluation processes, put in place to ensure the eligibility of the expenditure.

TELT will monitor that the Project is implemented in accordance with the Grant Agreement and bears the responsibility for supplying all documents and information that may be required under the Agreement. The expenditure progress will be monitored by the Project Management Team and by the administrative, technical and financial departments of the Company on the basis of the Operating Construction Sites. The structure of this project proposal based on the Operating Construction Sites is conceived in order to In a structure of this project proposal based on the Operating Construction sites is conceived in order to ensure an effective, efficient and reliable financial management. The following activities will be performed for managing the CEF fund:
Monitoring the expenditures to comply with the financial plans;
Elaboration of guidelines/instructions for documentation of expenditures (e.g. time sheets, invoices)

based on CINEA guidelines and monitoring of these documents;

- A structured and harmonised periodic system will be set up for administrative and financial monitoring and audits.

More specifically the control procedure set by the Grant Agreement will be enforced for the realization of the project, especially considering the following articles of the Model Grant Agreement: 19. General Information Obligations

20. Record-Keeping

21. Reporting

22. Payments and recoveries - Calculations of amounts due

23. Guarantee

24. Certificates

25. Checks, reviews, audits and investigations - Extension of findings

26. Impact evaluations

Internal audit and evaluation process TELT in order to ensure the quality and the evaluation of the financial procedures during the implementation of the project has established specific internal and external bodies and issued policies towards an effective financial management. TELT has established a permanent external and

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independent Audit Committee with the mission of strengthening the internal and external levels of control and consolidate the financial governance. In addition, the Permanent Control Service is an external body that ensures the proper use of public funds and the economic, financial and technical efficiency. Finally, the Contracts Commission which is composed from independent experts recognised for their competence in the technical, legal, economic and financial aspects involved in awarding and executing contracts drawn up by the company.

TELT has also established a specific internal division directly depending on the Board of Directors named as Statutory Affairs and Internal Audit Department devoted to set up specific internal control processes, ensuring the sound financial management.

Finally, the yearly financial performances of TELT are evaluated and certified by an Independent Body (Organismo di Certification/ Organisme de Certification).

1

External audit and evaluation process There are two external control bodies, which are the Contracts Commission and the Permanent Control Service. The Contracts Commission was established by the Article 7 of the Treaty of 30th January 2012 as a specific body in charge of awarding contracts in respect of the European Directives on public contracts carefully respecting the principle of best value for money and sound financial management. The Permanent Control Service (established under Article 8 of Treaty of 2012) is a control body composed by 12 experts appointed by the Italian and French governments and it supervises the implementation of the project and more generally, the operation of the company. It ensures the proper use of public funds and the economic, financial and technical efficiency carrying out periodic audits, investigations and control on site. In addition, there are three other external governance bodies: Remuneration Committee, which has the duty of establishing the remuneration of the Chairman and the General Director; Ethics Committee, which supervises the implementation of the Code of Ethics and the Audit committee was instituted through the presidency, with the mission of strengthening the internal and external levels of control and consolidate the governance.

Internal and external accounting control procedures are designed to ensure that TELT's books, records and financial statements are not used to conceal acts of corruption or political patronage.

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3.2 Consortium set-up, governance and organisational structure

Consortium cooperation and division of roles and organisational structure

Describe the organisational structure set up to implement the project.

In particular, explain the distribution of roles and responsibilities between the different partners (Beneficiaries, Affiliated Entities and Associated Partners, if any).

Describe the main contractual arrangements, the governance structure, the lines of communication and decisionmaking processes. Describe if the governance bodies have already been established; if members have been nominated and the status of approval of the governance rules. List any pending decisions on the organisational structure

If a special purpose company/vehicle (SPC/SPV) is envisaged, indicate whether a shareholder agreement has already been prepared. If not yet, the case, indicate where you are with the finalisation of the agreement.

TELT is a simplified joint stock company governed by the Agreement of 30 January 2012 between the Government of the French Republic and that of the Italian Republic for the management of the construction of new Lyon-Turin railway line, constituted under French law and it has its registered office in Chambéry (France) and head office in Turin (Italy). TELT is responsible for the design, realisation and operation of the cross-border section and it will be in charge for the management and operation of the Freius historical line

The main mission of TELT is decided in two phases, the first one which aims at the realisation of the project and the construction of the railway infrastructure, and the second one which focus on the management, maintenance and traffic management of this infrastructure when operational

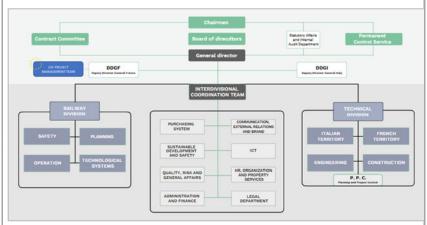
TELT is divided into main bodies that monitor and govern the realisation of the project. At the top level of the organisational model of TELT there is the Board of Directors and the General Assembly

Apart from these bodies, there are two external control bodies, which are the Contracts Commission and the Permanent Control Service. The Contracts Commission was established by the Article 7 of the Treaty of 30th January 2012 as a specific body in charge of awarding contracts in respect of the European Directives on public contracts carefully respecting the principle of best value for money and sound financial management. The Permanent Control Service (established under Article 8 of Treaty of 2012) is a control body composed by 12 experts appointed by the Italian and French governments and it supervises the implementation of the project and more generally, the operation of the company. It ensures the proper use of public funds and the economic, financial and technical efficiency carrying out periodic audits, investigations and control on site.

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From an operational point of view, TELT is organised into main divisions and all of them are committed and involved in the realisation of this project. From a technical point of view, the Technical division is responsible for implementing the works of each Operating Construction site. More specifically, it is applied a management system of vertical efficiency leaders in each Operating Construction site that are supported by two coordinators in both France and Italy, to ensure also the horizontal efficiency with the sharing of best practices and the capitalisation on both sides of the work. Following, the newly established railway division directed by the Deputy Director General in France, which aims at steering the activities of planning and defining the technical systems for safety and railway operations. Finally, one of the main division constitutes the Interdivisional Coordination Team which focus on the company's priorities and overall schedule.



The organisational structure of TELT

This Grant will be managed by a Project Management Team (PMT) under the responsibility of the Financial Division and it will consist of an appointed Project Manager, various technical managers of the Beneficiary who are responsible for the coordination and management of the project and of its Work Packages, as well as top management representatives who will ensure the compliance with the terms of the Grant Agreement. All the project management activities include the coordination activities with Associated Partners, namely the French Ministry and the Italian Ministry for Infrastructure and Transport (MIT), necessary for the implementation of the project in line with the Grant Agreement. These activities will ensure the coherence of the implementation of the project as per the Grant Agreement with the TELT annual works plan.

In addition, the Commissione Intergovernativa franco-italiana (Franco-Italian Intergovernmental Commission — IGC) was set up on 15 January 1996 to follow, on behalf of the governments, the issues relating to the preparation of the construction of the Montmélian-Turin international section of the new freight-passenger railway line Lyon-Turin.

The IGC has evolved and been updated by including in its composition — which was initially only governmental — the Regions (Piedmont and Auvergne - Rhone Alpes) and the European Commission (the coordinator of the Mediterranean Corridor, Iveta Radicova), in the strong conviction that the Lyon-Turin line is a fundamental piece of the trans-European rail network and an essential contribution to the ecological transition of our economies, our transport systems, our societies.

The IGC has therefore been the technical, legal and financial forum that has accompanied and prepared the Summits, Agreements and International Acts approved by the Italian and French Parliaments over the last 20 years; it is a journey that began in 2000, the most recent act of which was the Italy-France Treaty in force since 1 March 2017 for "the start of the definitive works of the Cross-Border Section of the New Lyon-Turin Railway Line". Its tasks of guiding, supervising and controlling the construction and management of the work have also been integrated and updated in the various international agreements and acts between Italy and France and the resulting Ratification Laws (2001, 2012, 2017). The IGC was assigned the task by the two countries of presiding over the activities necessary for the definition, construction and management of the Lyon-Turin railway line, exercising, on behalf of the states, firstly the functions of guidance, study, in-depth analysis and elaboration, and then, with the establishment of the Public Promoter, of supervision and control over its activities in the project preparation phase, the execution of preliminary works and now in the phase of construction and construction of the work.

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3.3 Project management, quality assurance and control procedures

Project management, quality assurance and control procedures

Describe the methods to ensure good quality, monitoring, planning and control for the implementation of the project. Explain the main features of the quality assurance plan and quality control system that will be used.

TELT has established an Internal control and management system which precisely sets the organizational structures, standards and internal rules that permit a correct and coherent management of the Company's tasks and responsibilities. The quality of the procedures and the relative control systems are established since 2017, under an Integrated Quality Management System and a Quality, Risk and General Affairs Department is established for this purpose. The project management team will be responsible for ensuring the compliance with the Integrated Quality Management System for all the tasks covered by this Grant.

The Integrated Quality Management System is certified by which is French , in accordance with ISO 9001:2015 (Quality), ISO 14001:2015 (Environmental Management Systems), ISO 45001:2018 (Occupational Health and Safety) and ISO/IEC 27001:2017 (Information Security Management Systems). TELT has also obtained some certifications concerning the UNI EN ISO 9001, ÚNI EN ISO 14001 or Equivalent, OHSAS 18001, UNI EN ISO 27001, UNI EN ISO 45001, ISO 50001, ISO 37001, QUALIBAT, MASE/France Chimie Joint System Certification n°RA 2020-070 (asbe stos and lead decontamination).

Taking into account the public nature of the project and the resources available for its implementation, TELT's organisation, management and control model pursues excellence through:

- the quality of the organisation (effectiveness and efficiency in the regulation of activities);
- the ethical nature of all operations (compliance with "corporate values" in particular to with regard to legality - in managing its activities).

Against the backdrop of these general guidelines, however, as mentioned TELT is also aware that it is responsible for the realisation of a project that is the subject and symbol of a dispute that has often transcended the nature of a railway infrastructure: for this reason, it has equipped itself with a system capable of going beyond a simple albeit indispensable capacity, to include administrative-managerial efficiency and strict compliance with regulations, while also embracing the essential requirements of attention to the local territories, respect for local communities and additional sensitivity to the professional environment, defining, in the light of these multiple requirements, the main thrusts of its management policy:

- rigour in planning by taking as a strategic pivot the fulfilment of the objectives of the Grant Agreement:
- major contracting role with full assumption of this task on behalf of the states (after completion of the project phase) through the transparency of the actions, the fight against fraud and corruption, the quality of contracts, the safeguarding of competition and the reduction of risks (also with an appropriate insurance strategy);
- centrality of work and safety, starting with the safety of workers, first and foremost on construction sites and in offices (with the goal of 'zero mortality'), but more generally by considering every nature of activity (with particular attention also to data security, a safeguarding of privacy);
- commitment to the environment by considering not only the effects of the anthropisation generated by the work, but also human and social relations, with the aim of not only avoiding "reducing value(s)" from the territory but indeed of "creating value(s)" from a local and binational perspective.

These principles represent the strategic input to allow the individual Departments to seek a specific level of cultural initiative, each within its own context, with a multidisciplinary scope and considering the relationship with the local communities to be natural and diary, based on consultations in the designated offices (Patto per il Territorio in Italy and Démarche Grand Chantier in France). TELT's general policy is expressed in company policies published on the company's website, such as the quality system policy, environmental policy, worker safety policy, information security policy, personal data processing policy, human resources policy, procurement policy and anti-fraud and corruption policy. These requirements are essential for TELT, but instead of being considered as objectives to be achieved, they become the standard starting points for a higher level of cultural legitimacy, which has at its heart the challenge of "multidisciplinary excellence" and the search for "added value" in all fields, from social to the environment,

from landscape to technology, from training to safety. In addition, the international agreements of 2012 and 2015 stipulate that in order to combat mafia infiltration, TELT is obliged to apply an extremely strict set of Contract Regulations that reconciles the procedure of Italian anti-mafia controls with the supplier assessment provisions of risk mapping, and anticorruption, of procurement law.

Finally, In the innovation process, following international best practices guiding safety management on construction sites, such as "Participatory Safety," it is crucial to plan actions and initiatives aimed at

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empowering workers to take an active role in their own safety. This should occur within a collaborative environment that facilitates the active involvement of various stakeholders in managing procedures. The objective of these activities is to transform safety and health management on the construction site by fostering widespread awareness of procedures and risks associated with the work, extending from the construction hierarchy to each individual worker.

A pivotal component for implementing a "Smart Construction Site" will be the synergy between information digitization, web platforms, and cloud storage. In this way, TELT's representative on the construction site, equipped with a tablet or smartphone running the necessary applications, can interact and directly access pertinent information. This includes systems for access control, transportation of materials and personnel, logistics management, fire prevention systems, and more. Construction sites are already equipped with systems ensuring power supply continuity, machines with automatic or remote guidance, advanced solutions for Tunnel Boring Machines (TBM), as well as continuous monitoring of occupational health and safety (OHS) for dust, quartz, asbestos, gas, and radiation.

Furthermore, attention is given to microclimate and comfort management, incorporating dust removal systems, temperature and humidity control, rest areas, dining facilities, and other personnel services, as recommended by ISO 45001.

Finally, the project management activities include the coordination activities with Associated Partners, namely the French Ministry and the Italian Ministry for Infrastructure and Transport (MIT), necessary for the implementation of the project in line with the Grant agreement. These activities ensure the coherence of the implementation of the project as per the Grant Agreement with the TELT annual works plan.

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3.4 Risk management

Risk management methods and procedures

Explain how risk management is part of your project management approach and how you address risk management in general. Mention only methods and major elements (details are to be provided in the risk assessment grid below). Indicate whether a risk management plan is in place and explain its main features

The Internal Risk Monitoring and Management System (SCI-GR, Sistema di Controllo Interno e di Gestione dei Rischi, SCI-GR) is a crucial point in the governance of TELT. The SCI-GR is based on a preventive approach and is one of the tool that helps the governing bodies to take decisions.

Risk Management is related also to the compliance with ISO 9001 international quality certificate. Risks are evaluated in the framework Integrated Quality Management System of TELT. In particular, since September 2017, risk management has become part of the Integrated Quality Management System (SGI, Sistema di Gestione Integrato) related to Quality, Environment, Occupational Safety and Data Security. The first four priority risk analyses for TELT were completed In November 2017, in the fields of Environment, Safety at work, Corruption and Contracts. These risk analyses were devoted to identify the main critical elements with potential impact on TELT's activities as well as, the mitigating measures and the risk response plan. In general, the risk management process is based on the PDCA (Plan-Do-Check-Act) method. In addition, the risk management system is based on three levels. The first level is the most important because it covers 100% of the activities, has a preventive measure and relates to diary works activities carried out by all the professionals in the realization of this project. In fact, all the professionals are trained to identify promptly potential risks impacting on their activities and they are fully aware of the rules and recommendations of the Internal Risk Monitoring and Management System.

The second level of risk control, with particular attention to the risk families that TELT has prioritized, is attributed to the Risk Manager of TELT with the support of additional second level control functions od other departments of TELT. These functions are independent and must monitor the compliance with the guidelines, standards and rules established, identify and assess the risks and propose the actions to be taken to eliminate or mitigate them. Finally, there is the third-level role under the responsibility of the Permanent Control Service, the Contract Commission and the Ethics Committee: these three bodies carry out an independent process to assess, define and develop the strategies, operations and mitigating measures related to the risk management in order to ensure the continuous improvement of the organization.

For construction works various risks are potentially impacting on the proper achievement of the objectives, and among them we point out the following ones:

- Accidents occurred during the works.
- Delays in the supply of raw materials. Environmental risks due to the Geology.
- Failure to comply with the terms of the contract by the contractors

In addition, TELT has endowed an insurance policy based on an "all risk" approach, covering any civil and environmental liability for damages caused during the implementation of the project. Contractors are also applying rigid protocols for the risk management.

Risk assessment grid

Describe critical risks, uncertainties or difficulties related to the implementation of your project, and your measures/strategy for addressing them. Include significant risks, factors of uncertainty and major elements of complexity that may affect the project implementation, whether of political, institutional, financial, organisational, social and/or technical nature.

Indicate for each risk (in the description) the impact and the likelihood that the risk will materialise (high, medium, low), even after taking into account the mitigating measures.

Note: Uncertainties and unexpected events may occur in all organisations, even if very well-run. The risk analysis will help you to predict issues that could delay or hinder project activities. A good risk management strategy is essential for good project management.

Risk No	Description	Work Package No	Proposed Risk Mitigation Measures
1	Risks related to tendering procedures (Legal dispute initiated by tenderers, delays in the launching and awarding of the tender, lack of valid offers etc.). Impact: medium Likelihood: medium	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	Constant monitoring of the gantt chart of the project and anticipation of procedures when possible. Integration of the procurement team by external experts. In case of legal dispute, make a claim to an out-of-court dispute resolution system and opt for a legal resolution only as last resort. Update of the value of the contracts if needed (inflation, price of the raw materials, use of official price list.) This risk is under control by the administrative department, the procurement department and the general management of TELT.
2	Environmental risk impacting on the construction works (unexpected externals conditions during the excavation, e.g. dangerous material, subsoil waters) Impact: high Likelihood: medium	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	Geotechnical campaigns constantly updated during the construction works, constant environmental monitoring of the construction site and dedicated budget line (CO 00). Rigid protocols applied by the contractors. Constant updates on the safety and security protocols on the basis of the conditions of the environment. Specific site for the storage of dangerous materials are foreseen. This risk is under control by the technical department and the general management of <u>TELT</u> .
3	Missing of data impacting on the operating aspects and need to update the design studies Impact: medium Likelihood: low	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	The Beneficiary implements other methodologies to gather the required information and eventually implements ad hoc surveys This risk is under control by the technical department and the general management of <u>TELT.</u>
4	Delays in the realization of the construction works if compared with the timeline of the Gantt chart Impact: high Likelihood: medium	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	Constant update and monitoring of the Gantt chart of the Operating Construction Sites so to permit to eventually reschedule the tasks. The staff of professionals and the pool of external contractors responsible for the realization of this initiative are aware of the rules and of the rigid timeframe of the project. Periodic project

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5	Damages or failures of the equipment and technical materials during the construction works causing delays Impact: high Likelihood: medium	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	meetings at all levels (institutions, contractors, top management etc.) will be organized to monitor the status of the Project. This risk is under control by the technical department, administrative department and the general management of TELT. Penalties included in the contracts for damages and failure depending on the causes (maintenance). Immediate substitution of material of guaranteed by legal clauses in the contracts. This risk is under control by the technical department, administrative department and the general management of TELT.
6	Unexpected geological characteristics during the excavation causing delays Impact: high Likelihood: medium	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	Geotechnical campaigns constantly updated during the construction works, constant environmental monitoring of the construction site and dedicated budget line (CO 00). Rigid protocols applied by the contractors. Constant updates on the safety and security protocols on the basis of the conditions of the environment. Specific site for the storage of dangerous materials are foreseen. <u>This risk is under control by the technical</u> <u>department, administrative department and the</u> <u>general management of TELT.</u>
7	Security issues Impact: low Likelihood: medium	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	Extended protocols with police and military forces to ensure the regular flow of works. <u>This risk is under control by the technical</u> <u>department, administrative department and the</u> <u>general management of TELT.</u>
8	Risks related to the availability of space for the Operating Construction Sites Impact: medium Likelihood: low	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	Procedures and protocols for implementing public authorities decisions related to the use of space for the realization of the project. <u>This risk is under control by the technical</u> <u>department, administrative department and the</u> <u>general management of TELT.</u>
9	Financial risk Impact: high Likelihood: low	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	Constant update and revision of the project budget on the basis of the actual progress of the construction works and negotiation with the involved institutions (French, Italian Governments and European commission) <u>This risk is under control by the administrative</u> <u>department, the procurement department and</u> <u>the general management of TELT.</u>
10	Accidents occured during the works Impact: high Likelihood: low	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	TELT is aiming at 0 accident policy through various measure: constant monitoring by the technical department to ensure the compliance with the Safety and Coordination plan. Continuous updating of the Safety and Coordination plan. Costs for safety and security determined by the Safety and Coordination Plan can't be discounted during the tendering process. Coordinate with Administration and Personnel to implement

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			inspections and enforcing the respect of the relevant law on safety by the contractors and suppliers. This risk is under control by the technical department, administrative department and the general management of TELT.
11	Failure to comply with the terms of the contract by the contractors Impact: high Likelihood: low	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	Possibility of termination of the contract for non-fulfilment or failure of the contractor in the execution of the contractual terms. The contractors are required, as part of any tender response, to provide details of the current financial position, capacity to undertake the project being tendered, current projects in terms of any programming delays or cost overruns.
			This risk is under control by the administrative department, the procurement department and the general management of TELT.
12	Increase in material prices Impact : high Likelihood : medium	<u>1, 2, 3,</u> <u>4, 5, 6,</u> <u>7, 8, 9,</u> <u>10, 11</u>	Continuous monitoring of the raw material market; Negotiating fixed contracts for an extended period; diversifying sources of supply; using contractual agreement with suppliers to limit escalation; adaptation of the contracts in case on the bases of regulatory provisions. This risk is under control by the administrative department, the procurement department and the general management of TELT.
<u>13</u>	Delays in material delivery Impact : high Likelihood : medium	<u>1, 2, 3,</u> <u>4, 5, 6,</u> <u>7, 8, 9,</u> <u>10, 11</u>	Accurate planning of procurement timelines; reserve essential materials in advance; close collaboration with suppliers to monitor timelines; Identification of alternative suppliers. This risk is under control by the administrative department, the procurement department and the general management of TELT.

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3.5 Communication and visibility

Communication and visibility

Describe the communication plan and strategy to provide visibility to the EU funding (e.g. billboards, reports, websites, brochures, information leaflets, reports, factsheets, newsletters, press articles, presentations).

Provide the websites being used for this purpose, the Social Media accounts and the communications' contact person. Note: Please note that we will no longer pay for project websites which are not hosted on participants' websites; costs for separate project websites are no longer eligible.

The scope of the project encompasses a multitude of actors and stakeholders. The intense media attention surrounding the project requires the dissemination of fresh and regular contents concerning the promoter's activities on relevant issues, such as the construction sites, the environment and daily impacts. In collaboration with the other TELT departments, the Communication department acts in both Italian and French side, taking into account the specificities linked to the territories, which require a strategic and localised approach.

Communication is a key aspect, particularly for a company like TELT, a public promoter and coordinator of this project proposal. The company's positioning in Europe allows it to effectively communicate its values and competencies as well as the status of its construction sites through an annually planned communication strategy. Collaboration and Innovation have always been at the heart of TELT's activities. Constructing large infrastructure works is by definition a collaborative undertaking, requiring the interaction of multiple institutions, companies, professionals. In addition, major works are complex, long-

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term projects for which continuous updating of practices and techniques to the best state of the art available on the market is necessary. Only with the constant search for excellence can the environmental, economic and social sustainability of the works realized be guaranteed and the use of the resources made available by the States and Europe be made more efficient. Round tables, in-person and virtual made available by the states and Europe be made more enicient. Kound tables, in-person and virtual meetings with other companies, research centers or institutions, in order to share experiences, techniques and working methodologies on concrete topics at various levels of professionalism, from management to operational experts, are essential. Among the various permanent activities carried out by TELT for the promotion of the new Turin-Lyon axis we mention the following.

Forum	Торіс	Collaboration
1 /	Business models and railway safety	Memorandum
2	Safety and Security aspects	Memorandum
	Various	Memorandum
4	Various	Memorandum
5	Safety and Security aspects	Memorandum
6	European project management	Memorandum
7	Sicurezza e Security	Round tables
8	Various	Round tables
9	Various	Round tables
10	Tunneling	Round tables
11	Plants and maintenance	Events
12	Tunneling	Events
13 SIFER	Tunneling	Events
14 Workd Tunnel Congress (WTC)	Tunneling	Events
15 Expo Ferroviaria	New mobilities	Events
16 Innotrans	New mobilities	Events
17 Smart City Expo World Congress	New mobilities	Events

TELT Participation to round tables, events and dissemination forum

Participation in international public events, fairs and congresses in Europe, in order to tell the world about TELT's project and to monitor technological and regulatory developments in the field of transport and tunnelling construction. TELT has always been present at many international congresses such as: -WTC-SIFER-EXPOFERROVIARIA-TEN-T DAYS, promoting European values and projects. The ng images are showing some of the stands realized by TELT in the past years.



TELT Participation to public events with dedicated areas

For these reasons, within this project, special attention will be given to ensure publicity and transparency for CEF funding informing the public of the role of the European Union in the implementation of the 53

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project, through planning in a project's Communication Strategy the communication objectives and the communication activities and tools tailored on the target groups to be reached during the course of the implementation.

Dissemination will be a core part of it, to ensure that the wider group of stakeholders and the beneficiaries will be reached by information on the benefits of the project, and the results obtained. Communication and visibility activities come at no costs for the CEF programme, as they will be

Communication and visibility activities come at no costs for the CEF programme, as they will be performed within the regular activities of TELT internal staff.

According to the EU specific rules, any report, brochure or other documentation connected with the project will mention the EU co-funding through the CEF Programme thus ensuring visibility (please see below).



The funding received will also be emphasized in corporate intranet sites and further visibility would result from publication of the approval of co-financing through press release and on local and national media. An information page on the progress of the operation will be created on the institutional site of TELT available in French, Italian and English - <u>https://www.telt-sas.com/en/telt-homepage/</u>

A communication plan will define the additional events to be realized during the course of the project to disseminate the project results.

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3.6 Sustainability and maintenance strategy

Sustainability and maintenance (for Works topics)

Describe the follow-up of the project after the EU funding ends. How will you guarantee the proper maintenance and continued operation of the investments made?

Describe in detail the strategy (periodicity, components, financing, actors) and practical measures that will be put in place.

Sustainability policies of TELT: The applicant has issued a three-year 2022 Sustainability Plan approved by the Board of Directors. It represents TELT's strategic vision of sustainability which corresponds to some of the global challenges (United Nations Sustainable Development Goals, or European Sustainable Development Goals) and underlines the commitments made by the Promoter, through the Integrity and Sustainability Pact, into measurable qualitative and quantitative objectives. The main challenges and objectives that TELT has set through this Plan are the participatory planning, the minimisation of land consumption, the optimisation of the use of excavated materials, the quality of the works, the improvement of working conditions in the Operating Construction Sites and safety, the environmental protection and the valorisation of the territory's cultural heritage. To reduce greenhouse gas emissions, it is first necessary to be able to quantify them. The impacts of the works were calculated using the Carbon Footprint@5, which responds to this logic by proposing a method of estimating the greenhouse gas emissions induced by an activity or project over the entire life cycle.

In addition, TELT publishes periodically Sustainability Reports according to the most updated international and European standards.

To reinforce this intent, TELT has since 2018 adopted a shared French-Italian Environmental Policy that aims to promote a sense of responsibility towards the protection and preservation of the environment and to share the same values with external firms that are called upon to work for TELT, essential partners for the achievement of the objectives. In line with the objectives defined in the Environmental Policy, TELT continuously pays great attention to the territories crossed by the works, committing itself to bringing added value in particular in terms of biodiversity and implementing a vast programme of measures to benefit protected species and habitats. Flora and local ecosystems are another of the environmental aspects of particular importance to the Company. Moreover, during the course of 2022, TELT has continued its relationships with universities and research organisations, inaugurating joint study projects on the themes of innovation, sustainability and economic development. The management of the excavated materials constitutes also an activity that promotes the sustainability goals of the project as it has an objective 60% reuse of the materials and the exchange of them between the French and Italian side <u>(MATEX Agreement)</u>. Maintenance Strategy of TELT: Once operational the base tunnel will be managed and maintained by

Maintenance Strategy of TELT: Once operational the base tunnel will be managed and maintained by TELT in its role of infrastructure manager, the transfer to this role is preparatory to the amendment of the agreement on the management of international stations. TELT will manage the historic line and the new line, with great synergies in terms of planning of the interventions for all ordinary and extraordinary maintenance. The applicant will implement a maintenance strategy according to the latest and most updated international and European railway standards. Maintenance Plans have been issued together with all the designed studies.

Maintaining an infrastructure as significant as the Euralpin Lyon-Turin Base Tunnel is a complex an costly endeavor. However, it is essential for ensuring safe and efficient operation of this critical ransalpine connection. A robust maintenance plan can help prevent unexpected failures, reduce downtime, and extend the infrastructure's lifespan. It is crucial for the competent authorities and railwas operators to allocate adequate resources for regular and preventive maintenance of the tunnel and it associated systems. Funnel Maintenance The tunnels traversing the Alps are exposed to extreme weather conditions, including freezin emperatures, heavy snowfall, and ground movements. Regular maintenance is crucial to ensure the
afety and accessibility. This should encompass:
Regular Inspections: To identify any structural damage or water infiltration issues.
Routine Cleaning: To remove debris and snow accumulation, maintaining clear passages. Constant Ventilation Monitoring: To ensure the air inside the tunnel remains safe to breathe.
Road Surface Inspection: To guarantee the road surface is in good condition without potholes of lefects.
Railway Systems Maintenance
The maintenance of the railway infrastructure within the tunnel is vital to ensure the safe operation or rains. This should involve:
 Rail Inspections: To detect rail wear and assess the need for replacements. Maintenance of Signaling and Traffic Control Systems: Ensuring safe and efficient trai operations.
 Monitoring of Power Supply Systems: To prevent power interruptions.
Maintenance of Tunnel and Railway Equipment
3. Tunnel Equipment: The tunnel is equipped with various systems, including lighting, ventilation, safety and communication. Maintenance of these systems is paramount for safety and efficient tunnel operation (his includes:
 Regular Lighting Inspections: Ensuring proper functionality.
- Ventilation System Maintenance: To maintain clean and well-circulated air.
 Safety System Checks: Such as fire prevention systems to ensure they are operational. Continuous Monitoring of Communication Systems: For reliable connectivity between tunne personnel and trains.
Regular maintenance will not only enhance safety but also optimize the operational efficiency of thi undamental transcontinental link.
n addition, it's imperative to recognize that the journey doesn't conclude with construction. The long erm success of this fundamental infrastructure is based on a commitment to extraordinary maintenance. Ensuring the ongoing safety, efficiency, and sustainability of the railway demands a strategic an consistent approach to extraordinary maintenance. This involves vigilant inspections, prompt repairs, an he continuous adaptation of maintenance protocols to evolving technologies and environmenta constitutions. The foresight applied in the project's planning and execution must now extend to its pos construction phase, solidifying the Turin-Lyon railway as a model not only for thoughtful development bu also for responsible and effective maintenance practices.

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4. IMPACT - COST-BENEFIT ANALYSIS

4.1 Demand analysis

Demand/traffic forecast study

Provide the results of the demand/traffic forecast study (if any). Give an outline of the overall context (including date of completion) and scope of the study, explain the methodology chosen and the assumptions made regarding the demand growth rate and the utilisation rate on completion of the project. Provide the list of indicators and their sources of verification (e.g. institution or organisation collecting statistical information, website, database, etc.). If the study carried out goes beyond the scope of the project, give an overview of the demand analysis of the global project and explain how it is related to the project. Clarify if TEN-T/CEF or other EU programmes have provided financial support for the study.

TRAFFIC FORECAST APPROACH

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The determination of traffic volumes has been carried out sequentially in terms of demand projection (mobility evolution) and traffic distribution by alpine crossings (diversions and inductions). These steps are applied separately to the reference situation and the project variants.

The calculation of the evolution of mobility is based on the assumption of a linear statistical link between the change in real GDP (constant euro) of France and Italy, and that of passenger and freight transport volumes. This evolution of mobility is expressed in average annual growth rate and applies from the base year 2015. The constructed demand model takes into account also:

- Time- or price-related traffic shifts, based on the assumption of a punctually linear statistical link (arc elasticity): (i) between the price/time variation of a mode and its traffic variation: this is then a so-called "direct" elasticity; (ii) between the price/time variation of a mode and the traffic variation of a competing mode: in this case, this is a so-called "cross" elasticity.
- Capacity constraints of road tunnels and urban motorways, on the basis of the speed flow curves used in TELT's freight transport studies³.
- Capacity constraints of passenger rolling stock; assumptions for the number of longdistance passenger services for the different stages are detailed in the description of the scenarios considered on the Alpine crossing and its access (see CBA Report);
- Capacity constraint of freight train paths; the freight capacity assumptions for the various stages are also detailed in the description of the scenarios considered on the Alpine crossing and its access (see CBA Report); a transfer of traffic from rail to road shall be applied for each year, corresponding to the new traffic of the year which cannot be traced within the limit of capacity expressed in number of paths;
- Induction of passenger traffic and Induction of freight traffic: shifted flows from outside the perimeter;

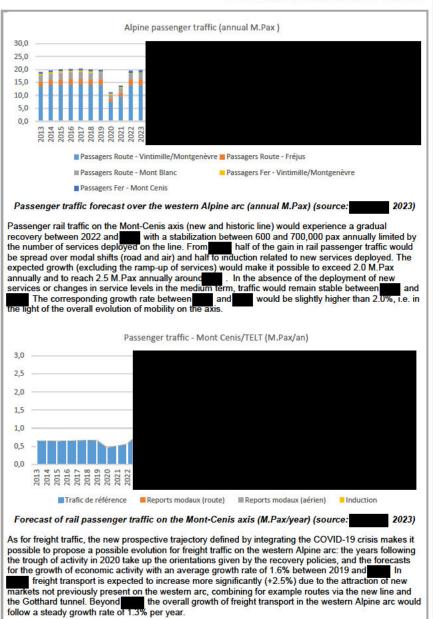
To establish traffic forecasts, an elasticity set was extracted from the comprehensive studies conducted between 2006 and 2011 in order to represent the price and supply sensitivities of demand by mode at levels estimated by previous statistical analyses (see CBA Report for elasticity parameters). Various adjustments have been made to the elasticity estimates used in the 2019 evaluations in order to take into account more precisely the effects of the project:

- Distinction of freight and passenger modal shift elasticities vis-à-vis the road price on the Mont Blanc/Fréjus axis on the one hand and on Ventimiglia on the other. The elasticity on Ventimiglia is aligned with the estimates of the CGDD in the plain (Projection of transport demand over the long term, 2016);
- Hypothesis of gradual amplification of passenger modal shift elasticities vis-à-vis road or rail prices after according to the trajectories given by (Modal choice criteria in rail transport, 2018);
- Change of basis for the calculation of the induction of rail passenger transport in a project situation, based on the traffic of the reference situation and not from the total unconstrained runof-river potential, consistent with the link between service differential and traffic gain.

TRAFFIC FORECAST RESULTS

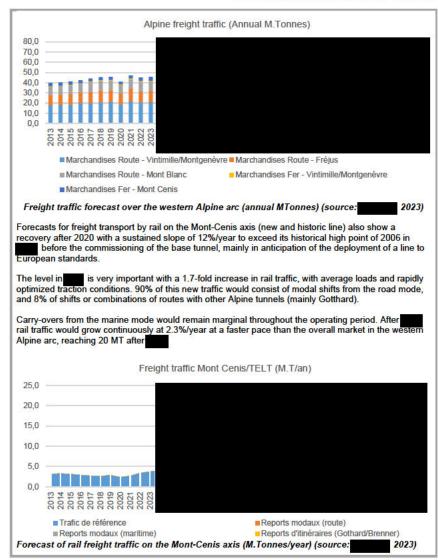
According to the macroeconomic and forward-looking assumptions previously established, the projection of total passenger transport demand on the Western Alpine arc shows a gradual recovery of mobility after the significant decline in 2020 and 2021 due to the COVID-19 crisis and health restrictions. While the market showed very modest growth between 2009 and 2019 (+0.2%/year), the period 2021preceding the commissioning of the base tunnel and the first part of the accesses would see more marked growth (+1.5%/year) in line with the various national and European recovery plans. The year would see a renewed mobility linked to the launch of new high-speed services on the new line (+5%), followed by moderate growth of 1%/year until

³ PRELIMINARY DRAFT REVISION, SUBMISSION N 41, Passenger traffic study, TELT, 20/12/2010; PRELIMINARY PROJECT REVISION, SUBMISSION N 46, Freight traffic forecasts, TELT, 21/01/2011



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4.2 Economic and financial analysis

Socio-economic impact analysis

Describe the general socio-economic impact of the project.

Describe whether the project (or the wider global project) has the potential to generate cash revenues, and what are the limitations (legal, regulatory, or commercial, if any), that constrain the revenues generation to the levels you have estimated.

Provide details on the expected revenues and their timeline (e.g. number and diversity of users). Describe if the users are sensitive to prices and if they are captive. Provide indications concerning the degree of certainty of your

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assumptions and estimations. Explain whether the project will operate in an autor expected level of revenues depends on the completion of additional investments or p		whether the	
To Works proposals required to submit a full CBA, describe the main results of the benefit analysis (Economic Rate of Return (ERR) and Economic Net Present Val conomic analysis addressed by the CBA is wider than the scope of the project, etween the CBA and the project and to what extent findings of the CBA are relevant CBA report and the CBA cash flow template filled in.	e economic analysis lue (ENPV). If the s explain the differen	cope of the ce in scope	
For Works proposals required to submit a simplified CBA, provide information une simplified CBA calculator filled in. No need for a separate CBA report.	der this section and	submit the	
For the CBA report, please use the unitary values referred to in the <u>Handbook on Ext</u> Note:	ernal Costs of Trans	port.	
For more guidance on CBA, see <u>CINEA Guide on economic appraisal for CEF Trans</u> to Cost-Benefit Analysis of Investment Projects and <u>DG REGIO CBA Economic Appr</u>	port Projects, DG R aisal Vademecum,	EGIO Guide	
The full CBA for the Global Project is presented in detail in the attached CB/ recap the main outcomes of the economic analysis.	A Report. The follo	owing data	
n order to ensure consistency within the analysis. all amounts in the CBA h constant €2023 values; figures stemming from estimations made in previous to nto 2023 values by means of the application of the NLTL Index. NB: the figu- come from the application of appropriate factors to convert financial costs in	vears have been o ures in the tables i ito economic costs	n this box	_
The net present values of the components of the economic analysis are as i			(ha eli
Components of the economic analysis (net present value, M€ Component	Economic N	PV (M€2023)	(ha
Capital expenditure, of which	-23 5		
Alpine accesses - Italian side (connection to Turin and upgrade of Bussoleno-Avigliana 1st phase)	-18	42 <	ha el
	-57		ha el
Alpine crossing - TELT (preliminary and exploratory works) Alpine crossing - TELT (base tunnel)	-22		
Alpine crossing - TELT (base tunnel) Alpine crossing - TELT (historical tunnel doubling avoidance)	1 0		
Alpine crossing - TEET (historical tunnel doubling avoidance)	-50		
Alpine accesses - Italian side (Bussoleno-Avigliana 2nd phase)	-12		
	-11		
	-92		
	-49	7	
Operating expenditure, of which	2 23	38	
Railway operation and maintenance	-13		
Road operation and maintenance (passengers)	40		
Road operation and maintenance (freight)	3 1:		
Economic benefits and costs, of which	41 3		
Passenger user surplus (time and costs)	6 33		
Freight user surplus (time and costs)	22 0		
Passenger external costs	6 20		
Freight external costs	67		
Economic residual value	5 34		
TOTAL	25 4	17	
Source: 2023			
and access) and their long-term effects and residual value over	lead t		
and access) and their long-term effects (access) and residual value over conclusion that the project lies within socio-economic convenience ranges;	the sensitivity ana	lysis (see	
and access) and their long-term effects (access) and residual value over conclusion that the project lies within socio-economic convenience ranges: <u>the CBA Report for details confirms this outcome</u>). To produce these indicat talian parameters recommended by the Ministero delle Infrastrutture e dei	the sensitivity anal tors, for the record	lysis (see , the	
and access) and their long-term effects and the second and residual value over onclusion that the project lies within socio-economic convenience ranges; <u>the CBA Report for details confirms this outcome</u>). To produce these indicat talian parameters recommended by the Ministero delle Infrastrutture e dei T discount rate of 3%, opportunity cost of public funds of 30%).	the sensitivity anal tors, for the record Frasporti are appli	lysis (see , the	
and access) and their long-term effects and residual value over onclusion that the project lies within socio-economic convenience ranges; <u>the CBA Report for details confirms this outcome</u>). To produce these indicat talian parameters recommended by the Ministero delle Infrastrutture e dei T discount rate of 3%, opportunity cost of public funds of 30%). Socio-economic profitability indicators	the sensitivity anal tors, for the record Frasporti are appli	lysis (see , the	
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59

I

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B/C Ratio Source: 2023	2,60 -		
Financial analysis			
Describe the financial viability/sustainability of the project over its lifecycle (budget in bal of funds).	ance; use of funds vs sour	es	
For works proposals submitting a CBA, mention the value of the financial indicators after that CEF support is granted for the amount requested (Financial Rate of Return FRR (C Present Value FNPV(C after CEF)). Compare the profitability achieved after CEI international benchmarks for the sector.	after CEF) and Financial	Vet	
For projects with negative FNPV and with FRR smaller than the discount rate, explain w (e.g. other grants, reduction of costs) you would still proceed with the project despite it and illustrate how the project would be at least financially sustainable (i.e. not likely to de trisk the commitment from the EU budget) by showing that the cumulated casi Unprofitable/nonviable projects need to demonstrate their sustainability, for example by of support (such as national/local grants or operational subsidies) or revenues that ca flows or by the applicant's commitment and financial capacity to cover the remaining or accept deferral of profits.	s İnsufficient financial viab fault and therefore not putt h flows are always positi benefitting from other sourd n compensate negative ca	lity ing ve. ces ish	
Describe any financial risks associated with the implementation of the project.			
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ha eliminato: 409 ha eliminato: 5,5

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Indicator	Financial NPV (M€2023)	cu déneration de
FNPV without subsidies	<u>-12 929</u>	
EU contribution - present submission (base tunnel)	2 326	1
FNPV with CEF contribution	<u>-10 602</u>	Ĩ
Other public subsidies (including previous EU subsidies)	<u>15 601</u>	1
of which past European fundings (not discounted)	859	
of which road operation and maintenance costs saving	<u>15 2.129</u>	
of which other public contributions	<u>12 613</u>	
FNPV with all grants	<u>4 999</u>	
The financial profitability indicators calculated for all the		
access) and their long-term effects and res financing plan is based largely on public funding, both national used to complete the financing plan as follows:		v that the ng is being
 Past European contributions are not enough to shift t range. 	he net financial present value into	a positive
 The addition of the expected European contribution in net financial present value into a positive range, as this gramounts of the cross-border section only. 		
Additional European funding on the remaining part of		
French access will be necessary to ensure the financial vi	the cross-border section and on liability of the operation.	talian and
	ability of the operation <u>.</u> ast subsidies, road operation and ma	iintenance
French access will be necessary to ensure the financial vi 4) The other public subsidies are composed of European pa- costs future savings and other future fundings to be define	ability of the operation. ast subsidies, road operation and ma ed from the Member States and the ne national or at the European level	<u>iintenance</u> European
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4.3 Social, environmental and other impacts

Impact on congestion, modal split, safety and security, service quality, noise air pollutants

Describe the expected positive and/or negative impacts of the project on time savings, optimisation of existing capacity and service quality. If quantified in the CBA, mention the total monetary value of such impacts (\in Net Present Value (NPV)) and the main assumptions in terms of quantities (e.g. change in number of hours or vehicles) and unit values (e.g. \in hour or \notin vehicle/km).

Describe the expected positive and/or negative impacts on modal split.

Describe the expected positive and/or negative impacts on safety and security. If quantified in the CBA, mention the monetary value of such impacts (€ NPV) and the main assumptions in terms of quantities (e.g. change in number of accidents, injuries and fatalities) and unit values (€/accident).

Describe the expected positive and/or negative impacts of the project on noise emissions. If quantified in the CBA, mention the total monetary value of such impacts (\in NPV) and the main assumptions in terms of quantities (e.g. change in number of trains) and unit values (e.g. \notin train).

	na eliminato: Ine financial profitability indicators calculated for all the developments carried out tasse tunnel and access) and their long-term effects and residual value over show that in the absence of both national and European investment grants, the programme is not financially profitability taking into account national and European investment subsidies makes it possible to achieve a range of financial profitability for the investment as a whole.¶
11	ha eliminato: 409
11	ha eliminato: 2016
11	ha eliminato: 0,04%
1	ha eliminato: 101
1	ha eliminato: M€2016
1	ha eliminato: 0,4%
1	ha eliminato: 016
1	ha eliminato: M€2016

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ha eliminato: Component

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[...[1]

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The project contributes to improve the safety and the Quality of rail services

Safety Improvement

The global project's rail system safety was analyzed in detail by a specialized committee of the Lyon – Turin CIG (Intergouvernamental Committee). Principles consistent with European and national legislations were defined and the specific risks of a number of situations and scenarios were analyzed and drawn up in a reference document entitled "Lyon - Turin CIG safety principle". A detailed risk analysis was also carried out to define reliability levels and identify critical interactions and the means needed to limit their effects and redundancies in terms of critical systems. The safety demonstration is based on the reference system definition, the statistical data available from French and Italian national infrastructure managers and from Eurotunnel, and the critical scenarios defined by the CIG in its "safety criteria". The acceptability thresholds used are the ones included in the Italian decree relating to "safety in rail access tunnels".

And finally, a safety validation process, based on a "Safety report", was drawn up to ensure the continuity of the safety measures taken throughout the project's life up to full-scale implementation.

Furthermore, the impact of the realization of the project in terms of modal shift along the corridor has indeed a relevant beneficial effect on the safety of transport flows, shifting them from road to rail, decreasing the external safety costs of transport. In the CBA, this is assessed along the entire reference period in monetary terms as bringing benefits, per type of traffic, as follows:

- Reduction of accidents in passenger flows: 120 M€
- Reduction of accidents in freight flows: 8,830 M€
- therefore totaling benefits for almost 9 billion € in terms of increased safety of national and international transport flows.

1. Improve the Quality of rail services

The global project is technically designed to cope with a "design traffic" level equal to or higher than the traffic projections in the medium term. It will thus accommodate mixed rail traffic involving:

- High-speed passenger trains running at a speed of up to 250 km/h;
- Wide-gauge rolling motorway trains running at a speed of 120 km/h, with a maximum tonnage of 2050 metric tons;
- Conventional and combined transport freight trains running at speed of 100 and 120 km/h with a max tunnage of 1800 metric tons.

The ERTMS signalling system (level 2) provides a nominal operating situation with a very high-quality level. The operating model indicated above requires a very high level of infrastructure availability (99.5%), and very robust timetables, to provide rail companies with a very high level of quality.

The traffic control and monitoring systems will be doubled up (two PCCs are provided, one in France, and the other in Italy, with a regular changeover from one to the other), so as to provide rail operation continuity transparently)

in the event of a problem on one system. The exchange of information with rail companies is scheduled.

The simulations carried out on timetables demonstrate a robustness able to absorb the limited late running of a train (normal event within the operation of a rail service), without impairing the schedules of other trains.

The structure, with respect to equipment and installations, is designed to ensure operating regularity and management robustness.

2. Noise and air quality

The modal shift triggered by the new tunnel also brings benefits in terms of reduced acoustic and air pollution. In the overall time horizon, such benefits are estimated in the CBA in terms of reduction of the external cost of noise and air pollution generation of transport operations, as follows:

- Reduction of noise from passenger transport: 30 M€
- Reduction of noise from freight transport: 400 M€
- Total reduction of the external costs of noise: 430 M€

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- Reduction of air pollution from passenger transport: 50 M€
- Reduction of air pollution from freight transport: 610 M€
- Total reduction of the external costs of air pollution: 660 M€

3. Time savings

Another relevant type of benefit generated by the new transport system layout is the time savings made possible for transport flows of passengers and goods. The CBA estimates the monetary value of such benefit as follows:

- Time savings for passengers: 1,390 M€
- Time savings for goods: 7,980 M€

Hence, the project allows time savings for the mobility of people and goods totalling more than 9 billion €.

Environmental and climate impact

Describe the expected positive and/or negative impacts of the project on the climate change targets (such as the Paris Agreement and the 2030 Climate and energy framework).

Describe the expected positive and/or negative impacts of the project on the emission of air pollutants such as Particulate Matter - PM2.5, Nitrogen oxides - NOX, Sulphur Dioxides - SO2, etc. If quantified in the CBA, mention the total monetary value of such impacts (\in NPV) and the main assumptions in terms of quantities (change in tonnes or vehicle⁺km) and unit values (e.g. \in tonnes or \in V/km).

Specify if the project helps to reduce greenhouse gas emissions (GHG) and limit global warming. Explain how it impacts upstream and downstream emissions (e.g. emissions from purchased electricity as well as full life cycle). For works proposals submitting a CBA, also include the total monetary value of such impacts (\mathbb{R} -NV) and the main assumptions in terms of quantities (avoided tonnes of GHG) and unit values (e.g. \mathcal{E} tCO2equivalent).

Describe how climate change has been taken or will be taken into consideration when designing the project and its components.

Describe how the project is consistent with the climate proofing of infrastructure mitigation pillar (including how the cost of greenhouse gas emissions have been integrated in the economic evaluation, how it is consistent with the energy efficiency first principle and how it is consistent with the emission targets for 2050; for details, see <u>Commission</u> Technical guidance on the climate proofing of infrastructure).

Describe in detail the measures that are foreseen to monitor, prevent and mitigate a negative impact on the environment, and provide an estimation of the associated costs.

The environmental impact assessment was updated in 2019 in line with the principles developed by ADEME in the Bilan Carbone® method. This assessment is updated at 2019 values. It is a simplified version but consistent with the overall approach taken in previous studies, through taking into account the following elements:

- · emissions during the design and construction phases
- emissions avoided during operation

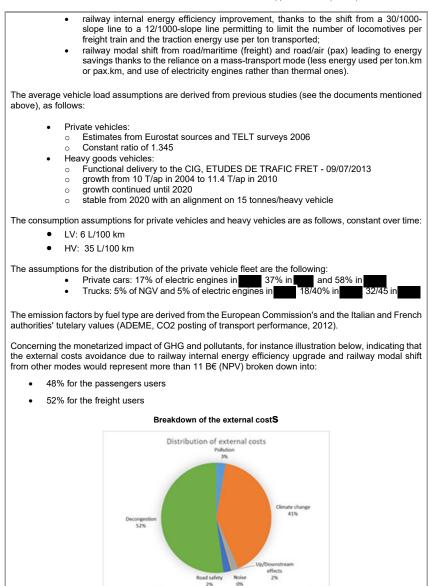
These estimations thus make it possible to identify the points that emit the most in order to identify materials, processes and implementation methods that have the least impact. On the other hand, it is possible to know the "equilibrium point" of operation with regard to greenhouse gas emissions.

Emissions during the design and construction phase require an investigation of the different components of the programme, the materials used, the site logistics and the implementation processes of each operation. The table in the "telt-in-motus" document explicitly mentions the source values, the estimates made and the basis for calculating unit values.

The carbon footprint in the <u>operation</u> phase includes the additional emissions related to the operation and maintenance works on the new infrastructure, i.e. all the emission related to the activity of the infrastructure manager; and differential emissions of transport flows. The latter component is based on the differential estimation of vehicle journeys between the reference and project situations. The corresponding emissions are estimated according to the chosen methodology (European Commission, Italy, France), by means of:

- an assumption of average load of private vehicles and lorries;
- a hypothesis of consumption of private vehicles and lorries;
- · a hypothesis of distribution of the private vehicle fleet;
- a hypothesis of emission factor per liter of fuel consumed;

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The illustration above shows that the external costs are divided as follows:

- 52% as road decongestion: speed-flow curves models has been made applied on the Frejus
 and Mont Blanc tunnels where time losses due to saturation are estimated for the reference and
 project scenario, and valued with the standard value of time;
- 41% of GHG emission avoidance (the internal railway efficiency weights more than road modal shift as this sector is supposed to reach almost carbon neutrality on the long run);
- 3% of pollution avoidance (the internal railway efficiency weights less whether the road fleet is
 expected to increase quickly its energy and pollution performance);

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2 2/0 of up and de	Miloucan	n effects;								
2% of road safe	ty;									
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Climate resilience (for Works topics)

Describe the climate proofing exercise and how it was taken into consideration when designing the project and its components in line with the <u>Commission Technical auidance on the climate proofing of infrastructure</u>. Summarise the findings of the vulnerability assessment to identify the climate hazards to which the project is more sensitive (because of the its type or location).

If significant risks are identified, explain how the vulnerabilities were embedded in the decision-making process so that they can be addressed and mitigated and what relevant measures were taken to ensure the resilience of the project to climate change.

The appraisal of the carbon footprint has been carried out, since the screening list proposed by the climate proofing guidance indicates that the project should take this kind of assessment. With reference to the climate proofing process for climate change mitigation, the process for this type of project categories will also include a detailed analysis which includes the following main steps: (1) definition project's boundaries; (2) definition of the assessment period; (3) emission scopes included;(4) quantification of project's emissions.

(1) Three geographical boundaries have been defined: French section (connection between Lyon and Saint-Jean-de-Maurienne), Cross-border section (including the main tunnels) and the Italian section (connection between Chiusa di San Michele, Susa valley, and Torino). Furthermore, three phases of the project lifecycle have been defined: the conception phase, the construction phase and the operation phase.

The conception phase includes the elaboration and design of the project and exploratory galleries. The GHG emission considered are the ones produced by the engineering studies. The construction phase includes the construction of the line and the structures, extraction and use of materials during use and machine constructions.

Finally, the operation phase includes the energy consumption of the new trains and avoided emissions, which derive from modal shift, such as emissions for the reference situation, for all transportation modes (rail, road, air) and emissions for the project situation: trains (see above), and all transportation modes after implementation. For all the traffic are considered direct and indirect emissions of the vehicles (fuel consumption, upstream emissions for oil refining, vehicles construction emissions) and emissions of electricity consumption. The perimeter concerned at this stage includes future railway infrastructure and the whole geographic perimeter involving origin-destination lines impacted by the project, differentiating freight and passenger transportation.

(2) The conception phase accounted from the public inquiry in 2021 to final exploratory works in 2017, the construction phase started in 2015 and will end in the before the base tunnel commissioning, and the operation phase will start in the and end in the start in

The presented assessment has been held in 2011 for the public enquiry studies. The carbon footprint assessment has been updated in 2020 for some construction stage specific items. Even with new dates and revised assumption, for the same perimeter, the results are at the same order of magnitude.

(3) The carbon footprint for the TELT project includes the three phases of the project, generated and avoided emissions. Details of the scope estimated is presented in the following table:

Presentation of the structure for the Carbon Footprint ®

Generated emissions by the project	Avoided emissions by the project
1. Co	nception stage

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Construction of exploratory galleries	
	2. Construction stage
"Life of the site works" - Construction of the line - Construction of tunnels - Construction of tunnels - Construction of railway buildings - Construction of rolling stock	- Non-construction of heavy trucks
	3. Operating stage
 Traction energy supply for trains Operating buildings day to day running 	 Modal shift from road to rail for passengers Modal shift from air to rail for passengers Modal shift from road to rail for freight
Source:	2023 after LTF. 2011
emissions avoided by the project. The fol up to	t by sum up the emissions generated by the project wi illowing table synthesize the quantification of project's emis
up to Summary of carbon fe	Ilowing table synthesize the quantification of project's emission items by phase (k.teqCO20)
up to Summary of carbon fe Carbon footpr	illowing table synthesize the quantification of project's emi- footprint emission items by phase (k.teqCO20) rint up to kt.eq.CO2
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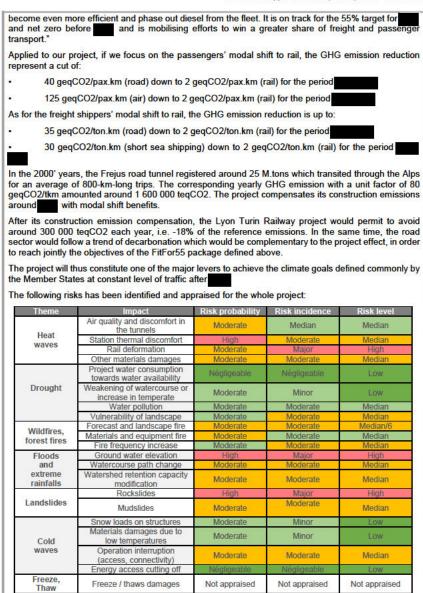
more on the construction and operating phase which weights most of the emission of the project. As for the construction stage, the first version of the carbon footprint appraisal estimated the total emission for the future line up to +9,64 million teqCO2 of which +8,95 million teqCO2 have been updated regarding the progress of technical studies in particular on the excavation. It led to adjust this subitem emission up to +8,92 million teqCO2, and the full works for the future line up to +8,92 million teqCO2.

The analysis of the operating phase leads to estimate a growth of traction energy emission for the passenger train where new circulation are commissioned but a net reduction for the trains where the number of locomotives and the energy efficiency compensate the new circulations. The modal shift constitutes the main savings in the GHG emission, principally for the freight on the road to rail modal shift in the short and middle term. The monetization of the total GHG emission of the project for the conception, construction and operating phases, discounted according to the assumptions of the cost benefit appraisal weights 1,4 net billions of euros before the total GHG emission of which:

- 3,2 billion euros of generated emission, mainly on the short term during the construction phase, marked up due with the discount rate.
- -4,6 billion euros of avoided emission, related mostly to the modal shift during the operating
 phase, marked down with the discount rate on the long run.

After the presentation of the FitFor55 package, UIC, the international Railway Association, recalls the following arguments in favour of the railway sector in its 10/2021 press release: "Rail has already been playing its part and is the only transport mode to have reduced emissions. In 2010, as part of the UIC/CER "Environmental Strategy for and Beyond", leading members of UIC committed to reducing emissions by 30% by and annual data submitted shows that this target has already been reached (28% location-based; 38% market-based). This has been achieved through a combination of energy efficiency measures and a continuous increase in electrified routes. Rail is continuing to innovate to

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As stated in the guidelines provided by the European Commission: "Project Cycle Management (PCM) is the effective and efficient planning, organizing, coordinating and auditing of a project throughout its phases, from planning to implementation and operation to decommissioning."

The climate change management plan takes into account the impact and probability of the major risk identified to define the measures taken in the project design in terms of risks adaptations and mitigations. Further details can be found in the Climate Proofing Annex.

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Decision-making tool, input for policy making or development of best practices (for Studies topics) Show how the project will have an impact as decision-making tool or input for policy making or development of best practices

Who will use the output of the project and for how long? Describe the extent to which the output will be relied on for decision-making, possibly in relation to other studies and future projects, and at what level, (e.g. a future CEF Transport action, national project, global project, etc.). Describe the relevance and economic value of those future projects in terms of costs and benefits. Explain the degree to which elements of the project could be used to develop best practices.

Not Applicable

Interoperability and accessibility

Describe if and how the project contributes to increased interoperability of transport systems and/or modes in the TEN-T network.

Describe if and how the proposal enhances the accessibility for passengers and/or goods to the TEN-T network (e.g. cross-border dimension, effect/contribution to territorial accessibility, including for outermost regions and islands).

The new Turin-Lyon railway line, being one of the 9 axes of the European TEN-T transport network, with an extension for 3.000km, connecting 7 European corridors from East to West, constitutes at the same time part of a large interoperable network. The interoperability as presented by the European Directives represents the ability of a rail system to allow the safe and uninterrupted movement of trains which accomplish the required levels of performance. In accordance with the Directive 2008/57/EC 'Interoperability of the Rail System within the Community' of the European Parliament and of the Council it is appropriate to improve the interlinkage and interoperability of the national rail networks as well access to those networks by implementing necessary measures in the field of technical standardisation in order to enable citizens of the Union, economic operators and competent authorities to benefit to the full advantages deriving from the establishment of a single European railway area. In particular, the Turin-Lyon line is part of this Trans-European interoperabile rail network and it will be implemented according to the Technical Specification of Interoperability for structural subsystems closely related to the role of the Infrastructure Manager, as derived from the European Directives.

The Turin-Lyon project, being part of the Global Project provides a series of advancements and improvements in railway conditions at International and European level. With this regard, it is worth to mentioning the implementation of technical, infrastructural and administrative initiatives devoted to strengthening rail interoperability and accessibility at other European borders, such as the entry into service of the Ghotard and Ceneri base tunnels. The opening of this new alpine line triggered the growth of new international rail transport services, the improvement of the quality of the transport and, together with the increase in road prices, it generated a significant reduction in the share of the road in favour of other modes of transport (traffic data are described in detail in the Global Project chapter and in the demand analysis).

The construction of the New Turin-Lyon rail link, with the commitment to pursue the objective of railway interoperability between different States of the European Union, will provide an excellent compatibility between the characteristics of the national networks. This cross-border project structured as a long railway plain line requires, since the early design stages, to respect a series of approval steps which aim to ensure safety of the railway and its compliance with the interoperability requirements described in the International Standards. In particular, for all the AV/AC (high speed/high capacity) sections that are part of the interoperable corridors, the Parliament of the European Community has issued, over the years, the Technical Specifications for Interoperability that are input for the design and realization of the investments foreseen by this project. It is clear that the compliance with the TSIs is a necessary condition for the safe integration of the international section into the trans-European rail system, to which it will be connected through both the French and Italian sections.

Describe if and how innovative technologies are being used to reach the project's objectives.

Describe if and how the digitalisation forms part of the project (or its use).

In case the project is making use of results from EU-supported research projects, please give the reference of the EU research project.

Innovation and digitalisation

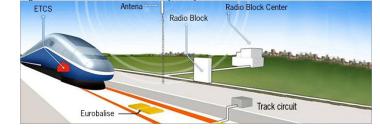
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This project will be realized by implementing state-of-the art technologies.

The Italian railways are among the first in Europe to adopt the level 2 European Rail Traffic Management System/European Train Control System (ERTMS/ETCS) on the new lines of the High Speed/High-Capacity network. The system - based on the European standard - allows trains from different countries to circulate without interruption on all European lines that are equipped with it and is capable of guaranteeing the safe movement of trains with the adoption of functions and technologies at the avant-garde.

The line will be equipped with the SCCM system (Multi-station Command and Control System) ACCM equipment (multi-station computerized central apparatus) one of the systems of the highest technological level in the railway signalling sector, it is a real "control room" which, thanks to the latest generation technologies and infrastructural upgrading make the infrastructure more reliable by increasing the standards of regularity and punctuality of railway traffic.

Currently there are more than 20 train control systems across the European Union. Each train used by a national rail company has to be equipped with at least one system but sometimes more, just to be able to run safely within that one country. Each system is stand-alone and non-interoperable, and therefore requires extensive integration, engineering effort, raising total delivery costs for cross-border traffic. This restricts competition and hampers the competitiveness of the European rail sector vis-à-vis road transport by creating technical barriers to international journeys.



ERTMS components

As a unique European train control system, ERTMS is designed to gradually replace the existing incompatible systems throughout Europe. This will bring considerable benefits to the railway sector as it will boost international freight and passenger transport. In addition, ERTMS is arguably the most performant train control system in the world and brings significant advantages in terms of maintenance costs savings, safety, reliability, punctuality and traffic capacity. This explains why ERTMS is increasingly successful outside Europe, and is becoming the train control system of choice for countries such as China, India, Taiwan, South Korea and Saudi Arabia. The ERTMS has two basic components:

- ETCS, the European Train Control System, is an automatic train protection system (ATP) to replace the existing national ATP-systems;
- 2) GSM-R, a radio system for providing voice and data communication between the track and the train, based on standard GSM using frequencies specifically reserved for rail application with certain specific and advanced functions. For more information on GSM-R, please click here.

ERTMS aims at replacing the different national train control and command systems in Europe. The deployment of ERTMS will enable the creation of a seamless European railway system and increase European railway's competitiveness.

Building Information Modeling (BIM) is a sophisticated and comprehensive approach to construction and project management that seamlessly integrates data and information throughout every stage of a project's life cycle, from initial feasibility assessments to actual construction and ongoing operation. It also promotes effective communication and collaboration among the diverse professionals involved in a project.

In the context of this project, this technology plays a pivotal role. TELT utilizes BIM to create a digital representation of the entire project, encompassing architectural designs, structural plans, building systems, material specifications, component details, construction phase schedules, cost estimations, and even maintenance requirements. This digital model serves as a central hub for all project-related information, enabling real-time updates and collaboration among architects, engineers, contractors, and other stakeholders within the TELT project.

By maintaining and updating this comprehensive database of project information, TELT harnesses the power of BIM to streamline project coordination, preventing discrepancies or conflicts in design and planning. This approach results in faster construction timelines, cost savings, enhanced reliability, and reduced susceptibility to errors or risks, thereby ensuring the TELT project's success. Moreover, TELT empowers its project managers and decision-makers with accurate and up-to-date information, improving the overall effectiveness of their choices in the management and execution of the project. In this way,

TELT benefits from the innovative and efficient capabilities that Building Information Modeling offers in the construction and operation of the Lyon-Turin tunnel project.

Moreover, partnerships with the international research community have become an integral part of the nature of the company. Research themes are multidisciplinary, encompassing not only hard sciences but also organizational, sociological, and, more recently, artificial intelligence topics. TELT also serves as a hub for other partnerships with leading actors in Europe, including, for example,

Each joint development agreement allows TELT to enhance its expertise in core areas such as sustainability, safety, and technological innovation, exchanging experiences with some of the most qualified entities in Europe. This aligns with the multistakeholder logic of the Global Compact and with SDG9 "Build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation."

Since 2015, TELT has established collaborations with leading research institutions in Europe and worldwide. The primary partnerships have fallen into two categories:

- Commissioned Studies: Involving a specific scope, TELT has enlisted researchers to address complex technical problems.
- Research Projects: The infrastructure and the public promoter's organization itself have become subjects of experimentation and in-depth study across various knowledge domains.

The 2022 collaborations include 21 activated or ongoing projects and 15 partnerships with research institutions. Between 2021 and 2022, TELT invested approximately €878k in research, including scholarships and equipment. These investments are part of the normal fund management for the project and reflect the public promoter's strategy to enhance critical themes for the base tunnel realization (environment, engineering, construction, etc.).

TELT's partners are located in France and Italy, the two nations primarily involved in the new line's construction. However, some scientific partners have expressed interest from other nations, and an extensive research project with the University of Montreal is currently underway.

In 2022, TELT joined Claire, a network that forms a pan-European Confederation of laboratories for artificial intelligence research in Europe. The groups and organizations involved commit to working collaboratively to achieve European excellence in AI, with a specific focus on human-centric approaches. As a Promoter of a symbolic innovation project, TELT is attuned to the theme of artificial intelligence serving major infrastructures and is dedicated to the goal of realizing the "Connected Tunnel."

The agreement, allowing the cross-border transport of excavation materials to the "Cantiere unico" (unique construction site) of the Turin-Lyon railway, and requiring over three years of work, was approved during the session of the Intergovernmental Commission held in Rome in December 2022. The agreement is now operational, marking the first instance in Europe where the binational reuse of excavation materials within transborder construction sites of the same project is permitted. This establishes the collective construction sites as a single site, the perimeter of which is defined in the 2012 International Treaty.

The optimization of excavation material reuse is closely tied to innovation. To address this, TELT has formed the following collaborations:

- Advantex: A research project in collaboration with the (Departments of control of and control of provide early characterization of excavation materials. In 2021, the research team worked on a sample from the La Maddalena geognostic tunnel aiming to present innovative solutions in the realm of circular economy.
 A Franco-German R&D partnership funded by the EU Commission.
 - and Partnerships for knowledge exchange and experience sharing.

Carisma: A project for which TELT collaborated with the international foundation working to promote, lead, and enhance innovation processes through research projects. TELT participated in the European call "Circularity, Resilience, and Intelligence in the Construction, Maintenance, and Use of Transport Infrastructure."

Competition

Describe the expected positive and/or negative impacts of the project on regional and national competition.

1. Competition at European level

The planned works for the New Turin Lyon project are aimed at creating greater competition and increasing the capacity and potential of the line, thus making it possible to increase passenger services and freight traffic, which will allow a shift of traffic from road to rail and have several competitive impacts that will help to create a more efficient and customer-responsive industry within the European union.

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The rebalancing of trade between transport modes within the European commercial area constitutes a major advancement while it will have positive effects in the European Union by facilitating trade whose the origin or destination is the Iberian Penisula on the one hand and the countries of south-eastern Europe on the other hand. In addition, it is also considerable the improvement of land exchanges between Western Europe to the whole Mediterranean region and corridors as part of the global project.

With this regard we underline that, according to the Work Plan of the Mediterranean Corridor, the overall modal split for international freight flows between the Countries of the Corridor is transported by the 66% via road, 9% via rail and 25% via maritime transport. Corridor countries have strong cross-border exchange flows at regional level with each other and with the rest of Europe; in particular Catalonia and Lombardy, but also Piedmont and Rhone Alpes appear as the predominant generators of trade flows in this part of the Corridor. An improvement of the infrastructure performances along this network will result in a facilitation of the trade, with great impacts on the economic sector, but also on the social wellbeing.

2. <u>Competition at regional and local level</u> In terms of regional competition, the Mediterranean Corridor, to which the Turin-Lyon section belongs, concerns 18% of the European population representing the 17% of the EU GDP (Source: Eurostat). To support the economic development of these territories, an efficient infrastructure alternative to road transport is essential.

Alpine territory's competition is expected to be affected positively by the upgrade of the infrastructure thanks to thew increased accessibility, the construction of new stations and the increased services.

This project has several aims by enabling the extension of the high-speed network: this new line will make it possible to increase the frequency of high speed trains and to implement high-speed regional services. In addition, faster travelling times will have as a result to boost both travel and trade through the Alps, rebalancing the cargo flows between different modes of transport and increasing the quality of the services for local tourism

Today around 46.3 million tons of goods cross the Western Alps, between Italy and France, and currently more than 92% are transported by road (Source: Bundesamt für Verkehr (BAV), Ufficio Federale dei Trasporti. Includes Ventimiglia, Montgenèvre, Mont Cenis, Fréjus, Mont Blanc). It is estimated that at least half of these goods will be able to use the New Turin-Lyon line (Source: This result will save 40% of energy, making rail transport more competitive, with considerable benefit for the environment.

As for freight, this new line represents a concrete and long-term alternative to road transport. This new voite will ensure a thighly effective link for businesses needing to transport merchandise, with a great variety of rail transport services (traditional, combined,

The main effects that the new infrastructure will gene rate on the competitiveness of the territories is described below:

- Greater interchange: with the creation of a tangible alternative to road transport, it will be possible to intercept the increase in the circulation of goods, as seen through the other Alpine passes;
- Greater capacity: the extended compliance with the European standard will allow the passage
- of trains with the improvement of rail capacity Improved environment: a train eliminates 60 heavy goods vehicles travelling on the road networks:

Better source allocation: rail transport costs decrease over time compared to the road costs increase

Regional and local development and land use

Describe the expected positive and/or negative impacts of the project on regional and/or local development, and land use. Assess the impacts on the neighbouring regions.

Indicate if the project is linked to urban development plans, or if it will contribute to increasing the land value.

This project, as part of the Global Project will generate relevant impacts on the Regional and local development.

1. <u>Regional and local development</u> The New Turin-Lyon Line will produce a great variety of impacts on the territory and on regional development. The NLTL will have major regional effects, given the socio-economic characteristics of the French and Italian regions (Rhône-Alpes and Piedmont) on which these effects will be the most significant. These two regions are characterized by their demographics of respectively 5.6 million inhabitants in Rhône-Alpes and 4.3 million in Piedmont, populations almost equivalent to those of Denmark and Finland. This strong demographic weight is a real advantage because it offers a large employment pool but also a vast area of differentiated production and a large market for consumption. Given these elements, the NLTL can only reinforce the cohesion of these territories of the European Union, providing new and improved possibilities for the movement of goods and passengers.

The creation of efficient infrastructure is directly connected with the economic development of the territories in which the works are being conducted since this large-scale project will provide an important boost of economic growth at both regional and local levels and thus improve the living standards of

id tourism. s presented in the graphs below, the rate of the GDP in the regions of Piedmont and Rhone Alps, v e works of the rail section are conducted, illustrate that the dynamics of the rate are not incre		
epresenting a slow growth in terms of economic development and equivalent economic prosp		
nstruction of the new line (including the Internat nt'Ambrogio, Borgone and Bruzolo station will	ional Stations) and the current advancements in increase the attractiveness of these areas, cre	
re opportunities in terms of job positions and qu		
GDP per capita - Piedmont	GDP per capita - Auvergne-Rhône-Alpes	
40.000	40.000	
		30.000
25.000	25.000	
§ 20.000	§ 20.000	
15.000	15.000	
10.000 5.000	10.000	
5000	5.000	
2012 2013 2014 2015 2016 2017 2018 2019 2020	2012 2013 2014 2015 2016 2017 2018 2019 2020	
Source: Instituto Nazionale di Statistica, ISTAT, Italy	Source: Institut national de la statistique et des études économique. France	
	development is expected to boost mobility, incr s making more attractive the region ad improvin	

and the local community:

- Mon emploi Lyon-Turin: A unique service for finding employment on the construction site, obtaining training, or hiring future employees for the Turin-Lyon project. Led by Pôle Emploi, this platform promotes recruitment in the region by connecting construction companies with job seekers. Mon emploi Lyon-Turin supports companies in recruiting, guiding, and training candidates, as well as anticipating the primary needs of the construction site. This initiative is supported by an ongoing initial training program tailored to the realities of the construction site.
- ALTE (Appui Lyon Turin Entreprises): A platform supporting the local and regional economic fabric, facilitating access to the construction site for local and regional companies or developing services for employees. To provide local and regional companies with access to specific job contracts, especially subcontracting opportunities, the platform simplifies communication between companies, facilitates access to information about construction site activities, and helps improve their skills in terms of human resources, innovation, marketing, etc.

Renovated housing to better accommodate Turin-Lyon employees:

- In November 2022, renovated housing was inaugurated in a building in Saint-Jean-de-Maurienne (23 apartments for 54 Turin-Lyon employees and 6 apartments for people with reduced mobility).
- La Maison de l'Habitat: A local reference point, a resource for renovating and renting property. The agreement between TELT and the Communauté de Communes Cœur de Maurienne Arvan for the operation of La Maison de l'Habitat in Saint-Jean-de-Maurienne under the FAST framework was renewed in 2022.

2. Land Use The New Lyon Turin rail line is based upon initiatives and measures that have been taken to ensure conscious land use and sustainable development of the Alpine region with an integrated approach to safeguarding the Alps in their complex economic-social-cultural and ensuring nature protection and landscape protection. One of the main objectives of the realization of this project is relied on the respect of Alpine heritage and promotion of a sustainable use of both natural and cultural resources.

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Outermost regions (if applicable)

Describe which outermost regions are impacted by the project.

Indicate how the regions and project promoters cooperate. If relevant, specify which countries are impacted and explain how the cooperation with them is ensured.

Not Applicable

Other considerations

Please describe any other relevant considerations.

Not Applicable

#§IMP-ACT-IA§# #@CAT-EFF-CE@#

5. CATALYTIC EFFECT

5.1 Financial gap

Financial gap

Explain how the EU grant will facilitate or accelerate the project, in comparison to a situation without the EU funding. Describe the financial gap, which the EU funding is supposed to cover. Specify and justify the amount. Describe the financial obstacles and how public funding would help to overcome them. Indicate whether you expect any EU support under the Recovery and Resilience Facility (RRF) (with an approximate amount).

1. Funding Gap considerations

The Financial Analysis of the CBA (see the Cash Flow template), carried out for the global project, shows that the present value of project investment costs equals some $1\underline{1,9}$ billion $\underline{\in}$ ($\underline{f_{2022}}$ values, used for all amounts in the CBA). In the face of such costs, the operation phase allows 0&M overall savings (including rail and road operations) for a present value of some $1\underline{3,billion} \in \underline{c}$ and total revenues are estimated in some $1\underline{4.9,billion} \in (\underline{f_{2022}}, \underline{f_{2023}})$. Furthermore, the residual value at then of the 50-year period equals (in present value) some $2\underline{2,billion} \in \underline{c}$.

These figures imply a FNVP (Financial Net Present Value) which is negative by 12.9 billion €, which corresponds to the project's Funding Gap, and a non-calculable IRR. In relation to the above-mentioned project costs, such funding gap represents 72.1% (Funding Gap Rate).

It is worth noting that the calculation of the Return on investments after the CEF grant has little effect in this framework, because the scale of the global project (17.9 bln \in in present values) is much wider than the supposed CEF grant for the present Action (2.6 bln \in in current values, 2.3 bln \in in present values). Instead, when we consider all grants, the Financial Analysis also shows that the public subsidies greatly improve the sustainability of the project bring the FNPV to a positive value of 4.9 bln \in .

In fact, it has to be considered that *no private funding* is envisaged in the funding plan of the global project; this is by all means a public initiative, funded both by European Union and the concerned Member States, carried out in light of its central relevance in both the national and European transport policies. This has two consequences in terms of financial indicators:

- The "Return on investments with all grants" is very high (4.<u>9,bln€), because public contributions</u> (both CEF and national ones) count as incomes in the calculation of this indicator;
- The "Return on investments on private sector capital" has no significance, as there is no private capital involved.

ha eliminato: 6 ha eliminato: Euro2016 ha eliminato: 1 ha eliminato: 27 ha eliminato: 1 ha eliminato: 6 ha eliminato: 4 ha eliminato: of 0.04% ha eliminato: 5.5 ha eliminato: 6
ha eliminato: O

ha eliminato: cannot be calculated

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2. The need for public funding

The CEF-Transport contribution is essential to accelerate the implementation of the project (due to the time constraints set out in the concession documents) and to strengthen its financial structure, ensuring greater financial stability at Member State level. The EU and Public contribution is essential to overcome the financial obstacles determined by a very long time horizon of the project and a major investment cost for this kind of initiatives with high public relevance. Consequently, in the absence of Community support, the operation could take longer to complete and/or present greater risks, particularly in the event of financial difficulties on the part of the Member State or of unforeseen events.

Both the COVID-19 pandemic and the new situation created by the war against Ukraine had significant negative impacts on the transport sector. At the same time, the pandemic crisis demonstrated the crucial role of transports in guaranteeing free movement of people, goods, and services across Europe

Improving the quality and efficiency of transport infrastructures is essential to boost European competition and ensure access to the internal market for all regions.

Since investments are necessary to realize new railway infrastructures, the public financial support – such as the CEF Transport funding - is vital to recover from the severe COVID-19 crisis and to accelerate and guarantee public/private investments.

The project management activities include the coordination activities with Associated Partners, namely the French Ministry and the Italian Ministry for Infrastructure and Transport (MIT), necessary for the implementation of the project in line with the Grant agreement. These activities will ensure the coherence of the implementation of the project as per the Grant Agreement with the TELT annual works plan.

5.2 Public and private investment and financial leverage

Public and private investment and financial leverage

Provide information on the capacity of the grant to trigger a bigger investment or to allow other investments. Will the EU grant help mobilising additional public and private funding? Will different sources of funding or higher amounts become available? Has the financial leverage been optimised in terms of amounts and duration?

The CEF grant will speed up the completion of the Lyon-Turin cross border section of the Mediterrranean Corridor, thus encouraging the allocation of further public resources in favour of the completion of the missing link.

CEF grant is also intended to act as a catalyst to attract further funding from other actors: as we are experiencing a continuous pressure on EU public budgets the support through EU funding programmes is necessary to leverage the impact of EU budgetary resources.

TELT's strategy aims at implementing actions to maximize the positive effects of the work on the economic induced of construction and services. The company's responsible purchasing strategy, aimed at promoting competition, the rewarding nature of innovation and, through the expansion of the information base and the transparency of tender procedures, also the participation of SMEs in groupings, has certainly led to create a Turin-Lyon value chain that will grow with the progress of the work and the activation of all subcontracts and supplies of energy and raw materials, branched out all over the word.

Once the project will be realized, the economy will benefit from investment by major players of supplychain and transport, producing also benefits for consumers, with lower prices and higher levels of service due to the reduction of the Generalized Cost of Transport between Italy and France and along the Ten-T network. Moreover, the project will support and allow the increase of modal shifting, which will benefit the economic growth of intermodal terminals, and the optimization of routes enhancing the European transport of goods and people though the Ten-T Corridors. This results in an increase of attractiveness of new players to use and invest in the rail transport and complementary infrastructures allowing the private investors of the territory and Europe to benefit from the economic growth triggered by this project. Specifically, this project is going to produce direct, indirect, and induced impacts to the economic:

Direct Impact, which includes economic and employment growth generated directly on the local
economy linked to business activities, such us all the subcontractors involved in the project.

ha eliminato: It is a key part of ha eliminato: the aim

ha eliminato: to

- Indirect impact, which includes economic and employment contribution indirectly linked to business activities, such the value generated by the partners and suppliers involved along the value chain.
- Inducted impact, economic and employment contribution linked to business activities constituted by the value generated through the demand for goods and services in the territory supported by long-term employees.

Considering the complexity and the relevance of the Global project for the economy of Europe, the European and National funds, will be crucial for its completion and will allow to speed up all the works foreseen.

Finally, quality-wise, the European regulation and rigorous procedures ensures a high accountability for the financial and the technical part, resulting in a well-designed project and high-quality Project Management. Moreover, the Grant Agreement encourage to carry out a systematic monitoring which grants the visibility of results of the activities to Europe and a strong ownership of the project to the Beneficiaries. Considering the complexity and the magnitude of this project, the European Framework is crucial for its optimal execution and completion.

5.3 Stakeholder commitment

Stakeholder commitment

Explain how the EU funding would reinforce the commitment of different partners and stakeholders (public and private).

What would be the effects, in terms of commitment of stakeholders, if the project would not receive the grant?

The European Union's contribution plays a crucial role in ensuring the full commitment and involvement of France and Italy in transnational infrastructure projects. The EU acts as a catalyst for the consolidation of common interests, promoting cooperation among its member states. In the implementation of this transnational infrastructure project, the European Union provides a regulatory and financial framework that facilitates the active participation of member countries. Within the context of Franco-Italian relations, this contribution translates into enhanced synergies and partnerships, allowing both countries to collaborate more effectively and cohesively. The EU thus serves as a key pillar in ensuring the success of shared projects, strengthening the involvement of nations like France and Italy in achieving their common ambitions.

The new rail line constitutes a major element of the local, national and European transportation system, ensuring significant improvements in the transit times of passenger and cargo rail services, improving accessibility and limiting the congestion of the valleys by road traffic. Furthermore, the Turin-Lyon is an essential part of the Mediterranean Corridor, being one of the 9 railway axes that belongs to the European TEN-T network. Its realization will guarantee a connection, south of the Alps, between Western and Central Eastern Europe aiming to promote the economic exchanges and strengthen the competitiveness of Mediterranean European Countries while being a freight and passenger railway network, which also intersects with the most important sea and river ports, major cities and airports. The following entities support the project and underline the strategic importance of the realization of this project for the national economic development (Support Letters attached):

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#@WRK-PLA-WP@#

6. WORK PLAN, WORK PACKAGES, ACTIVITIES, RESOURCES AND TIMING

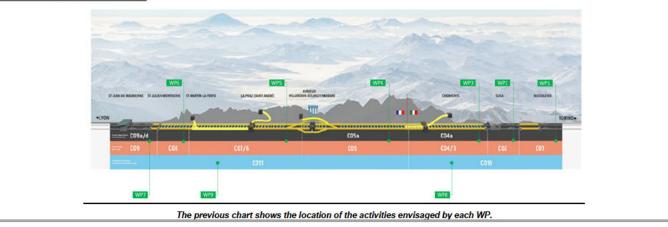
6.1 Work plan

Work plan

Provide a brief description of the overall structure of the work plan (list of work packages or graphical presentation (Pert chart or similar)).

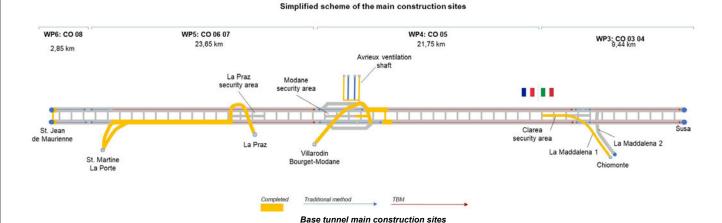
The NLTL line is a part of the is an essential component of the "Mediterranean Corridor", one of the nine TEN-T networks Corridors and the core element of the new line is the 57.5 km Mont Cenis base tunnel. For the realization of the Mont Cenis base tunnel, the works being conducted, both in Italian and French side, have been separated in twelve different "Operating Construction Sites" (Cantieri Operativi /Chantiers Opérationnels). The present proposal aims at realising the NLTL through a number of technical Work Packages that each of them correspond to the Operating Construction Sites and the specific objectives of the project and its realization.

The Work Plan of the Project encompasses 12 technical Work Packages corresponding to the various Operating Construction Sites (CO): <u>Work Package 1: Interconnection of</u> <u>Bussoleno CO 01; Work Package 2: Civil works in Susa plain CO 2; Work Package 3: Base tunnel Maddalena-Susa CO 3 – 4; Work Package 4: Base tunnel Modane-La <u>Maddalena CO 5; Work Package 5: Base tunnel S. Martin La Porte-Modane CO 06 -07; Work Package 6: Base tunnel S. Julien Mont Denis - S. Martin La Porte CO 08; Work Package 7: Civil works in the S. J. de Maurienne plain CO 09; Work Package 8: Management of the excavated materials in Italy CO 10; Work Package 9: Management of the excavated materials in France CO 11; Work Package 10: General CO 00 & Prescriptions CO 00P; Work Package 11: Horizontal activities; Work Package 12: Project Management and Administrative activities.</u></u>





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The excavation of tunnels for the cross-border section is being tackled using various excavation methods: about 40% with the traditional ones and 60% with the mechanised one. Moreover, TELT has decided to promote the implementation of the innovative BIM approach, which represents a revolution in the field of project management. More precisely:

- 1. Mechanised digging using a TBM: TBMs Tunnel Boring Machines are machines, custom-built to dig underground quickly and safely. The TBM cutter is configured as a "travelling industry": it allows to mechanise and automate all the excavations, the management of the excavated materials and the installation of the concrete segmments, reducing to a minimum both the work time and the number of operators that have to be present. For the realisation of this project the use of 7 TBMs in total is planned and they have been designed on the basis of the different geological characteristics of the mountain that each of them will face during the excavation. One section of the tunnel was already excavated with Federica TBM, between S. Martin La Porte and La Praz. Part of the budget of this project is also linked to ordering, purchasing, testing, transporting, assembing and make fuctioning this machines. Currently, 5 out of 7 TBMs have been already ordered by TELT and 3 of them will be tested in the production factory by the end 2023 then they will be transported to the concerning Operating Construction Site.
- 2. Traditional excavation using explosives: This is used in the more complex mountain sections. This technique involves making holes in the rock wall which are then filled with beams in order to mantain them stable. After explosives are used to proceed with the excavation without risks of collapse of the tunnel. After the debris are removed, the front is consolidated with spraved concrete. In some cases, the shell can be reinforced with steel bars,
- 3. Traditional excavation using pneumatic drills. Where the rock is less resistant and explosives cannot be used, progress is made using pneumatic drills, with the excavation again being consolidated with beams and concrete and in particular conditions characterised by soft characteristics of the mountain (Work Package 6) the "umbrella arch method (UAM)" can be used.
- Building information modeling (BIM): TELT has opted to use the innovative BIM Building Information Modelling computer technology, which represents a revolution 4. in the field of project management. BIM is a data analysis and communication tool linking the different professionals involved in a project and used to facilitate cooperation. simulation, and continuous improvement throughout the entire life cycle of the infrastructure. The integration and updating of information (architectural, structural and plant

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design, characteristics and properties of materials, components and systems, planning of construction phases, timing and execution costs, maintenance works), allows to monitor the overall process, helping to speed up the construction process, making it cheaper, more reliable and less prone to errors or risks.

We attach to this Application the so called "Master Plan 30/06/2023 - Le Chemin de Fer du Programme Objectif" which provides a clear overview of the works to be done. Please consider that the technical progress is based on the financial expenditures expected for this project. In fact, the financial statement reflects the physical implementation (invoices are issued considering the cumulative progress of the construction works). For these reasons, at this stage of the project preparation, we consider the budgetary instalments more adequate to monitor the progress of the works.

6.2 Work packages, activities, resources and timing

WORK PACKAGES Work packages This section concerns a detailed description of the project activities. Group your activities into work packages. A work package means a major sub-division of the project. For each work package, enter an objective (expected outcome) and list the activities, milestones and deliverables that belong to it. The grouping should be logical and guided by identifiable outputs. Projects should normally have a minimum of 2 work packages. WP1 should cover the management and coordination activities (meetings, coordination, project monitoring and evaluation, financial management, progress reports, etc) and all the activities which are cross-cutting and therefore difficult to assign to another specific work package (do not try splitting these activities across different work packages). WP2 and further WPs should be used for the other project activities. You can create as many work packages as needed by copying WP1. For very simple projects, it is possible to use a single work package for the entire project (WP1 with the project acronym as WP name). For works proposals, please make sure to use separate work packages for activities that are linked to the following specific budget categories (D.2 Studies, D.3 Synergetic elements, D.4 Works in outermost regions and D.5 Land purchase, if applicable). Work packages covering financial support to third parties (1) only allowed if authorised in the Call document) must describe the conditions for implementing the support (for grants; max amounts per third party: criteria for calculating the exact amounts, types of activity that qualify (closed list), persons/categories of persons to be supported and criteria and procedures for giving support; for prizes: eligibility and award criteria, amount of the prize and payment arrangements). Enter each activity/milestone/output/outcome/deliverable only once (under one work package). Lesure consistency with the detailed budget table per WP/calculator (if applicable) (n/a for prefixed Lump Sum Grants) Objectives

. Describe the objective of the work package and how it contributes/relates to the overall and specific objectives of the project. State if there are links to other work packages (or conversely that there are no links to any other work package).

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Activities (WP description)

Provide a concise overview of the work (planned tasks). Be specific and give a short name and number for each task. Provide quantitative information (dimensions, capacity of infrastructure, etc). Mention for each task links with tasks planned under other work packages. Flag tasks which are on the critical path.

Show who is participating in each task: Coordinator (COO). Beneficiaries (BEN), Affiliated Entities (AE), Associated Partners (AP), indicating in bold the task leader.

Add information on other participants' involvement in the project e.g. subcontractors.

Complete the column on subcontracting. Subcontracts must be awarded using your usual purchasing practices – provided that they ensure best value for money and no conflict of interests. If you are a public procurer ('contracting authority/entity' within the meaning of the EU Directives on public procurement), you must also comply with the applicable national law on public procurement." Note:

The Coordinator remains fully responsible for the coordination tasks, even if they are delegated to someone else. Coordinator tasks cannot be subcontracted.

Milestones and deliverables (outputs/outcomes)

Milestones are control points in the project that help to chart progress.

The milestones must be SMART: specific, measureable, achievable, relevant and time-related and must have clearly identified means of verification. The number of milestones per work package will depend on the complexity of each work package. Each work package should have at least two milestones related to it, ideally, one milestone per activity and per year. If needed, one or more intermediate milestones can be added, particularly for long or very complex and costly work packages. Examples of milestones include publication of a tender, signature of contract, starting of study/works, technical progress as certified by the works/studies subcontractors, etc.

Means of verification are how you intend to prove that a milestone has been reached. If appropriate, you can also refer to indicators. They should be easy and concrete. Examples of means of verification include: publication of the tender notice, signature of a contract by the last party, acceptance/approval of final report/outcome, etc. A deliverable can be also used as a mean of verification for a milestone.

Deliverables are project outputs which are submitted to show project progress (any format) and achievement of the technical work. Refer only to major outputs. Do not include minor sub-items, internal working papers, meeting minutes, etc.

Examples of deliverables for works projects include: constructed rail section, built bridge, deployed charging stations, concluded contract, published manuals, construction of the transmission line [name of the line], commissioning of the transmission line [name of the line], constructed transmission tower, deployed submarine cable, etc. For deliverables which are physical investments, provide in the 'Description' field the type of document you will use to prove the completion of the deliverable (e.g. acceptance note, test protocol, certificate of completion, handover certificate, etc).

Examples of deliverables for studies include: a technical design, an engineering design, a completed analysis, an environmental report, data collection, creation of a model and description of scenarios, etc. For such deliverables, provide in the 'Description' field: confirmation of completion and/or approval of technical design, copy of environmental report, etc.

For deliverables such as meetings, events, seminars, trainings, workshops, webinars, conferences, etc., enter each deliverable separately and provide the following in the 'Description' field: invitation, agenda, signed presence list, report of the event, presentations.

For deliverables such as manuals, toolkits, guides, reports, leaflets, brochures, training materials etc., add in the 'Description' field: format (electronic or printed), language(s), approximate number of pages and estimated number of copies of publications (if any).

For each deliverable you will have to indicate a due month by when you commit to upload it in the Portal. The due month of the deliverable cannot be outside the duration of the work package and must be in line with the timeline provided below. Month 1 marks the start of the project and all deadlines should be related to this starting date.

The labels used mean:

Public — fully open (1) automatically posted online on the Project Results platforms)

Sensitive - limited under the conditions of the Grant Agreement

EU classified — RESTREINT-UE/EU-RESTRICTED, CONFIDENTIEL-UE/EU-CONFIDENTIAL, SECRET-UE/EU-SECRET under Decision 2015/444. For items classified under other rules (e.g. national or international organisation), please select the equivalent EU classification level.

1 Please note that milestones/deliverat	bles should relate to the project work. Periodic re	ports or final reports	linked to payments sh	ould NOT be included.		
rk Package 1						
Work Package 1: CO 01 – Inter	rconnection of Bussoleno					
Duration:	Lead Beneficiary:		TELT			
Objectives						
The following main construction wor The construction of 2 interd The construction of the tec railway buildings etc.);	P: <u>Task 1.1 Interconnection of Bussoleno -</u> ks are foreseen: connecting tunnels of 2 kms between Susa hnical areas and the railway buildings servi ne new line with the historic line in Bussolen	and Bussoleno; ng the line (Comm	and and Control sys	tems, first aid structures, fire-fighting	g buildings,	ha eliminato: u
The construction of a bridg The interconnection is necessary to	e over the Dora Riparia river (about 75m le allow the trains to maintain an adequate tra foreseen by European regulation about the	ngth) before the er avel dynamic, in ter	ms of speed and sl	opes of the line, when exiting the bas	se tunnel.	
	Technical progress	Future Gra	nt Agreement			
	Task 1.1 - CO 01 WP1	0% 0% 0% 0%	10% 100% 10% 100%			
Activities (WP description)						
Task No	Descrip	otion		Participants		
1				1		

inked to WP)		Nam e	Role (COO, BEN, AE, AP, OTHER)	Subcontractin g (Yes/No and Percentage of the task that will be subcontracted).
T1.1 Interconnection of Bussolenc - CO 01	Ine 2km interconnecting tunnels Susa-Bussoleno: consisting in two tubes of 2km each excavated in traditional method, including the artificial tunnels at the entrances. The tunnels	TELT	COO, BEN	Yes – 100%

Milestone No (continuous numbering not linked to WP)	Milestone Name	Work Packag e No	Lead Benef iciary		Description		Due Date (month number)	Means of Verification			
	Completion rate of CO 01 at month 10%	1	TELT	the financial	Completion rate is determined by the financial progress of the works in the Operating Construction Site		works basis of the actual financial and technical progress of				ha eliminato: actual financial progress
	Completion rate of CO 01 at month 100%	1	TELT	the financial	rate is deterr progress of t ting Construct	he works		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 100%			- ha eliminato: actual financial progress
Deliverable No (continuous numbering linked to WP)	Deliverable Name	Work Packag e No	Lead Benef iciary	Туре	Disseminat ion Level	Due D (month nu		Description (including format and language)			
<u>D1.1</u>	Task 1.1 – C0 01 – Signature of the contract	1	TELT	<u>[R —</u> <u>Document.</u> <u>report]</u>	<u>(SEN —</u> <u>Sensitive</u>]			Signature of the contract with the subcontractor (PDF – ENG)	-		- Tabella formattata
<u>D1.2</u>	Completion rate of Task 1.1 at month	1	TELT .	[R — Document , report]	[SEN — Sensitive] -	_	0	Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 0% (PDF - ENG)	<	1	ha eliminato: D1.1
•	. .	3	s	s	· •	- t					ha eliminato: D1.2 ha eliminato: Task 1.1 - CO 01 - Start of the construction works 1
rk Package 2									8		ha eliminato: 1 ha eliminato: TELT
Work Package 2: C	O 02 - Civil works ir	n Susa pl	ain							11 11 1	ha eliminato: [R — Document, report] ha eliminato: [SEN — Sensitive] ha eliminato:
Duration:		Lead E	Beneficia	ary:		TEL	т				ha eliminato: certifying the start of the works (PDF - ENG)

Objectives	
This Work Package includes all the activities related to the Operating Construction Site 02. This Work Packa works in Susa plain to realize the NLTL infrastructure between the East entrance of the base tunnel as Bussoleno.	
Four tasks are foreseen for this WP: <u>Task 2.1 Open-air civil works CO 02A; Task 2.2 Adaptation of A32 moto</u> Autoport CO 02C; Task 2.4 New "Safe driving" track CO 02D; Task 2.5 Info point Henry Ba	
The following main construction works are foreseen:	
 The construction of the railway infrastructure in the Susa plain connecting the Eastern entrance Bussoleno (Task 2.1); 	of the base tunnel with the interconnecting tunnel of
 The adaptation of the motorways and streets around the railway line, especially the A32 motorw (Tasks 2.1 and 2.2); 	vay and the construction of the new Susa Est interchange
 The construction of a new Autoport between San Didero and Bruzolo, managed by the replay the construction site of the base tunnel. The new Autoport will be used by the heavy vehicles in exceptional events avoiding queues of heavy goods vehicles that could block the motorway by for ordinary motorway traffic conditions to be restored. (Task 2.3); 	diverting them to a special temporary rest area while waiting
 The relocation of the Safe driving track managed by the company activity clearing the areas 2.4); The Henry Barrack building, part which will be renovated and transformed into a 'TELT Info Poil 	involved by the construction site of the base tunnel (<u>Task</u> nt' for the duration of the NLTL works (<u>Task 2.5</u>).
It is worth to mention that the construction of the international station of Susa, part of the Global Project, is no studies and approval process is still ongoing. TELT will carefully respect the rules foreseen by European regulation about the Double Financing (Regulation	
Future Grant Agreeme	Inf
Technical progress	
Task 2.1 - CO 02A 0% 0% 15%	100%
Task 2.2 - CO 02B 0% 1% 46%	100%
Task 2.3 - CO 02C 0% 100% 100%	100%
Task 2.4 - CO 02D 0% 14% 100%	100% ha eliminato: 96
Task 2.5 - CO 02E 87% 100% 100%	100% na emmato: 96
WP2 21% 36% 63%	100%
TELT will carefully respect the rules foreseen by European regulation about the Double Financing (Regulation	n FLI 2021/1153 Art 19)
TEET will calculary respect the fulles foreseen by European regulation about the Double Financing (Regulation	10 2021/1100, Alt. 10).

		<image/> <caption></caption>			
Activities (V	VP descrij	otion)			
Task No (continuous	Task Name	Description	F	articipants	Subcontracting (Yes/No and
numbering linked to WP)	Name		Name	Role (COO, BEN, AE, AP, OTHER)	Percentage of the task that will be subcontracted).
T2.1	Open- air civil works CO 02A	 This Task concerns the realization of the open-air civil works in Susa plain to realize the NLTL infrastructure works between the East entrance of the base tunnel and the West entrance of the interconnecting tunnel, for about 2,700 km. In particular the following works are planned: The construction of a section of the line between the entrance of the base tunnel and the international station of Susa, realized on a railway embankment; 	TELT	COO, BEN	Yes – 100%

		 The construction of a new 98 meters railway arc bridge over the Dora Ripa after the exit from the station; A railway underpass of the A32 motoway; A technical area, consisting in a section of the line with 4 tracks 750 meters long to be used for safety and traffic management purposes, an adjacent area with various buildings dedicated to technical offices including a medical emergency area and an heliport; Various interventions for resolving the interferences with the local road system. 			
T2.2	Adaptat ion of A32 motorw ay and new Susa Est interch ange CO 02B	The adaptation of the motorway A32 and the construction of the new interchange in Susa, that is necessary for connecting the construction sites with the Susa plain, facilitating the operations of the heavy vehicles and the transfer of the materials from and to the Operating Construction Sites; This work is complementary to the creation of the new interchange in Chiomonte (CO 3-4) to allow an efficient connection of the digging site with the plain of Susa.	TELT	COO, BEN	Yes – 100%
T2.3	New Autoport CO 02C	The construction a new car and truck terminal -Autoport- between San Didero and Bruzolo transferring the current one in Susa. This intervention is necessary for managing the overall transport flows in the area concerned by the construction works of the new railway line and to clear the areas at the entrance of the base tunnel that will be used for the supply of the materials and for the temporary storage of the excavated material. The Autoport includes a truck station, a parking area for heavy vehicles, a service area and a new centralised control post. A new roundabout will connect the Autoport to the main road, while access from the A32 motorway will be provided by two entry and exit ramps. The new autoport is an essential part of the works in case of exceptional events such as heavy snowfalls, accidents in the Fréjus tunnel, etc. allowing avoiding queues of heavy goods vehicles that could block the motorway by diverting them to a special temporary rest area while waiting for ordinary motorway traffic conditions to be restored. This is particularly relevant also considering the traffic that will be generated by the construction works on the base tunnel. This Task is under the responsibility of the acting as implementing body, and the financing is under the responsibility of TELT.TELT will carefully respect the rules foreseen by European regulation about the Double Financing (Regulation EU 2021/1153, Art. 19) and the budget for this task will start from the transmitter or and the start or and the start from diversity without overlapping the Grant Agreement in force (2014-EU-TM-0401-M).	TELT	COO, BEN	Yes – 100%

T2.4	New "Safe driving" track CO 02D		g the area le responsi	involved bility of	ack, transferring the existing one man- by the construction site of the base tur acting as implementing body possibility of TELT.										
T2.5	Info point Henry Barrack CO 02E	di Finanza (Italian fin	ance police ation of the	e). Part o NLTL w	the Italian State and is currently partly f the building will be renovated and tra orks. Once the NLTL works will be con Guardia di Finanza.	Yes – 100%									
lilestones	and delive	rables (outputs/outco	omes)												
Milestor (continuous r not linked	numbering	Milestone Name	Work Packag e No	Lead Benef iciary	Description	Due Date (month number)		N	leans of Verifical	ion					
27		Completion rate of CO 02 at month 21%	2	TELT	Completion rate is determined by the financial progress of the works in the Operating Construction Site		basis of the	actu	t by the technica al financial and to ifying the achieve	I director on the echnical progress ement of the 21%		- ha eliminato	actual financial	progress	
		Completion rate of CO 02 at month 36%	2	TELT	Completion rate is determined by the financial progress of the works in the Operating Construction Site		basis of the	ertificate issued by the technical director on the sis of the actual financial and technical progress the works certifying the achievement of the 36%				- ha eliminato	actual financial	progress	
		Completion rate of CO 02 at month 63%	2	TELT	Completion rate is determined by the financial progress of the works in the Operating Construction Site		basis of the	Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 63%				- ha eliminato	actual financial	progress	
		Completion rate of CO 02 at month 100%	2 TELT the financial progress of the works									- ha eliminato	actual financial	progress	

Deliverable No **Deliverable Name** Work Lead Туре Disseminat Due Date Description (continuous numbering Packag Benef ion Level (month (including format and language) linked to WP) number) e No iciary Task 2.2- Signature of Signature of the contract with the subcontractor (PDF -[R ---SEN-D2.1 2 Document ENG) the contract TELT Sensitive) , report] Task 2.2- Signature of PDF - ENG) [R ---Signature of the agreement with SEN-D2.2 the agreement with 2 TELT Document Sensitive/ , report] [R ---Task 2.5 - Completion SEN-Certificate issued by the technical director certifying the -D2.3 2 TELT Document of the Henry Barrack Sensitive] completion of the works (PDF - ENG) , report] [R ---Certificate issued by the technical director on the basis of Completion rate of Document /SEN --the actual financial progressactual financial and technical D2.4 Task 2.1 at month TELT progress of the works certifying the achievement of the 8% , reporti,--Sensitivel 23 _ _ _ _ _ Certificate issued by the technical director on the basis of Completion rate of [R ---/SEN the actual financial progressactual financial and technical TELT, Task 2.2 at month Document D2.5 -progress-of the works-certifying the achievement-of the 8% Sensitive1-, report] ----(PDF-ENG) ------2 -Certificate issued by the technical director on the basis of Completion rate of [R the actual financial progressactual financial and technical SEN-D2.6 Task 2.3 at month TELT, Document 2 progress-of the works-certifying the achievement-of the 20% Sensitivel , report1 <u>PDFENG</u>________ R -Certificate issued by the technical director on the basis of Completion rate of Document the actual financial progressactual financial and technical SEN-D2.7 Task 2.4 at month TELT - report progress-of the works-certifying the achievement-of the 0% Sensitive EE (PDF ENG), [R -Certificate issued by the technical director on the basis of Completion rate of Document the actual financial progressactual financial and technical SEN-TELT, D2.8 Task 2.5 at month progress of the works certifying the achievement of the - --, report! -Sensitive 00% -180% (PDFENG)

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Tabella formattata	21
Tabella formattata	31
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ha eliminato: 2	
ha eliminato: TELT	7
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	4

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ha eliminato: 2 ha eliminato: TELT . . . *====d2======== ---ha eliminato: [R - Document, report] - ha eliminato: ha eliminato: Certificate issued by the technical direc [14] Task 2.1- Signature of [R ---Signature of the contract with the subcontractor (PDF -D2.10 TELT SENha eliminato: /SEN - Sensitive/ the contract 2 ENG) Document Sensitive , report] ha eliminato: D2.9D2.7 ... [15] ha eliminato: Task 2.3 - Completion of the works at th [16] Task 2.4 - Completion [R --of the New "Safe Document Certificate issued by the technical director certifying the ha eliminato: 2 /SEN D2.11 TELT. driving"-track completion of the works (PDF = ENG) - - - - - - --, report Sensitiv 3 ha eliminato: TELT ______ ha eliminato: [R - Document, report] ha eliminato: Y ha eliminato: Autoport opened to costumers (PDF - ENG) ha eliminato: /SEN - Sensitive/ ha eliminato: D2.9 ha eliminato: 2 Work Package 3 ha eliminato: TELT ha eliminato: [R - Document, report] Work Package 3: CO 03-04 - Base Tunnel Maddalena-Susa ha eliminato: Certificate issued by the technical direc ha eliminato: /SEN - Sensitive/ Duration: Lead Beneficiary: TELT ha eliminato: ha eliminato: Task 2.1 - Start of the works of Open-a Objectives ha eliminato: D2.10 This Work Package includes all the activities related to the Operating Construction Site 03-04 and consists in the excavation of the base tunnel along the section ha eliminato: Task 2.4 - Completion of the New "Safe ____[19] between La Maddalena and Susa, under the Ambin massif. ha eliminato: 2 Three tasks are foreseen for this WP: Task 3.1 Construction of the base tunnel between Susa and La Maddalena CO 03 - 04; Task 3.2 Chiomonte A32 Interchange CO ha eliminato: TELT 04 C ha eliminato: [R - Document, report] The following main construction works are foreseen: ha eliminato: the construction of the access tunnel of La Maddalena 2 and of the base tunnel towards Susa (Task 3.1): the excavation of La Maddalena 2 of around 7 km will start in and it will be used as a survey tunnel, having the same diameter of the base tunnel. Traditional excavation method and TBM will be used for realizing ha eliminato: Certificate issued by the technical direc [20] it. According to the variant study this tunnel will be the access point for the TBM which will begin boring towards Susa, realizing around 9,5 km of base tunnel in ha eliminato: /SEN - Sensitive/

ha eliminato: D2.6

ha eliminato: Completion rate of Task 2.5 at month 1(

[13]

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each direction, totalling 19 km of base tunnel. Once operational, La Maddalena 2 will be used for ventilation and smoke extraction for the base tunnel, and, partially, for the definitive storage of dangerous green rocks after the excavation phase. The construction of connecting tunnels to be used for the access of the safety vehicles, ventilation, storage of green rocks and the realization of the Clarea safety site is also foreseen.

the new interconnection with the A32 Motorway (<u>Task 3.2</u>): this interconnection will consist in a new dedicated motorway junction, used as service road during the construction works, in order to avoid impacts on road traffic in Chiomonte during the realization of the works. After the completion of the project, the junction will remain available to emergency services and as an access road to the base tunnel. The project provides for the construction of a bidirectional viaduct of around 600 metres from the exit of the 'Giaglione' gallery, which will allow to reach the site directly.

Complementary works for the realization of technical caverns, logistic sites for the assembling of the TBM inside the base tunnel, inner tube tunnels are foreseen for this WP.

TELT will carefully respect the rules foreseen by European regulation about the Double Financing (Regulation EU 2021/1153, Art. 19).

12	F	Future Grant Agreement							
Technical progress									
Task 3.1 - CO 03-04	13%	36%	67%	100%					
Task 3.2 - CO 04C	71%	100%	100%	100%					
WP3	24%	48%	73%	100%					

14 16 🚢 12 Constanting Street The THE PARTY OF THE 19 📥 BE DESCRIPTION OF THE OWNER Drawings of the Operating Construction sites 03-04 of the Turin-Lyon base tunnel Activities (WP description) Subcontracting (Yes/No and Percentage of the Task No Task Name Description Participants (continuous numbering Name Role

nked to WP)				(COO, BEN, AE, AP, OTHER)	task that will be subcontracted).
T3.1	Construction of the base tunnel between Susa and La Maddalena CO 03 - 04	Within this Task, the following main construction works will be realized: • Maddalena 2 access tunnel: starting from the construction site of Chiomonte, it will run in parallel to the Maddalena 1 tunnel. This infrastructure of 7 Km is under construction, it is used as a survey tunnel, having the same diameter of the base tunnel. During the works, this will be the access point for the TBM which will begin boring towards Susa. Once operational, La Maddalena 2 will be used for ventilation and smoke extraction for the base tunnel, and, partially, for the definitive storage of green rocks. The start of the excavation with TBM is expected in	TELT	COO, BEN	Yes – 100%
		 Operating construction site of Chiomonte Connecting tunnels: two connecting tunnels of 1,05 km each will be excavated serving for the movement of the vehicles and for interconnections between the main excavation sites. La Maddalena 1 bis: which is an integration of La Maddalena 1 exclusively dedicated to hosting the excavated material in case of presence of green rocks. Base tunnel: realizing around 9,5 km of base tunnel in each direction, totalling 19 km of base tunnel. It will be realized with 2 TBMs working in parallel. Clarea safety site: the construction of Clarea safety area and logistic cavern will be conducted with traditional methods of earthworks activities. After the completion of the base tunnel, the Clarea cavern will be used for safety area, while during the construction works it is used for logistics purposes. Complementary works: such as the assembling of the TBM inside the base tunnel, the construction of the logistic sites and the construction of the technical caverns. 			

		The excavation o tunnel and in			expected to be completed in uthern tunnel.					
T3.2	Chiomonte A32 Interchang 04C	 interchange in Cl Maddalena'. The be composed by The reason of thi worksite and carr the local roads. If motorway, withou This Task is unde and managemen TELT will carefull <u>Finan</u>cing (Regul 	new interch new interch two lanes of s interchang y the excav will be also t causing to er the respond t will be und y respect to ation EU 20	hich will c hange will of 719 m (ge is its u vation mai o possible raffic in th onsibility c der the re me rules fo 021/1153,	2 Interchange, covering the construction on ect the A32 motorway to the work: be constructed in viaduct, with variable towards Torino) and 674 m (towards Ese by the heavy-goods vehicles to supterials to the deposit sites in Susa Vall to reach directly from the construction e surrounding municipalities. If the surrounding a simplementing body sponsibility of TELT. Dreseen by European regulation about Art. 19) and the budget for this task vigreement in force (2014-EU-TM-0401)	site of 'La le height, and it w Bardonecchia). pply materials to the ey without using n sites the , and the financing the Double vill start from	le	COO, BEN	Yes – 100%	
lilestones	and delivera	ables (outputs/outco	mes)							
Milestone No continuous numbering not linked to WP)		Milestone Name	Work Packag e No	Lead Benef iciary	Description	Due Date (month number)		Means of Verif	fication	
		Completion rate of CO 03-04 at month 24%	03-04 at month 3 TELT the financial progress of the works				the basis of progress of		chnical director on <u>ncial and technical</u> fying the	ha eliminato: actual financial progress
		Completion rate of CO 03-04 at month 48%	0 03-04 at month 3 TELT the financial progress of the works			the basis of progress of		chnical director on <u>ncial and technical</u> fying the	ha eliminato: actual financial progress	
		Completion rate of CO 03-04 at month 73%	3	TELT	Completion rate is determined by the financial progress of the works in the Operating Construction Site		the basis of progress of		chnical director on <u>ncial and technical</u> fying the	ha eliminato: actual financial progress

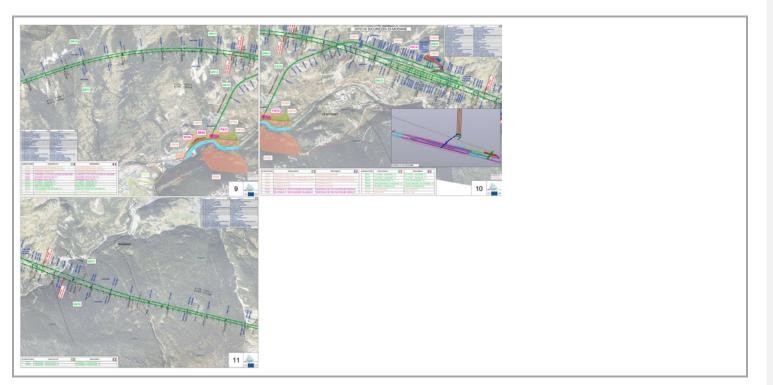
	Completion rate of CO 03-04 at month 100%	3	TELT	the finan	ion rate is det icial progress perating Cons	of the works	Certificate issued by the technical director on the basis of the <u>actual financial and technical</u> <u>progress</u> of the works certifying the achievement of the 100%		
Deliverable No (continuous numbering linked to WP)	Deliverable Name		Work Package No	Lead Benef iciary	Туре	Disseminati on Level	Due Date (month number)	Description (including format and language)	
D3.1	Completion rate of Task 20 corresponding to me completion of traditional excavation (100m)		3	TELT	[R — Document , report]	[SEN — Sensitive]		Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 20% <u>and the completion of the traditional excavation</u> (PDF - ENG)	ha eliminato: actual financial progress
D3.2	Completion rate of Task 61 corresponding to 300m excavated of the viaduct	%	3	TELT	[R — Document , report]	[SEN — Sensitive]		Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 61% <u>and the excavation of 300m of the viaduct</u> (PDF - ENG)	ha eliminato: actual financial progress
D3.3	Task 3.2 - New A32 interchange of Chiomont completed	te	3	TELT	[R — Document , report]	[SEN — Sensitive]		New A32 interchange opened to traffic (PDF - ENG)	
D3.4	Task 3.1 - Start of excav works with 1 TBM from L Maddalena to Susa plain	a	3	TELT	[R — Document , report]	[SEN — Sensitive]		Certificate issued by the technical director certifying the start of the works (PDF - ENG)	ha eliminato:
<u>D3.5</u>	Task 3.1 – completion of excavation of La Maddal (2,5 km) and excavation km of the base tunnel	lena 2	<u>3</u>	TELT	[R— Document , report]	<u>[SEN —</u> <u>Sensitive]</u>		Certificate issued by the technical director certifying the completion of the excavation of La Maddalena 2 (2,5 km) and excavation of 9,5 km of the base tunnel (PDF - ENG)	

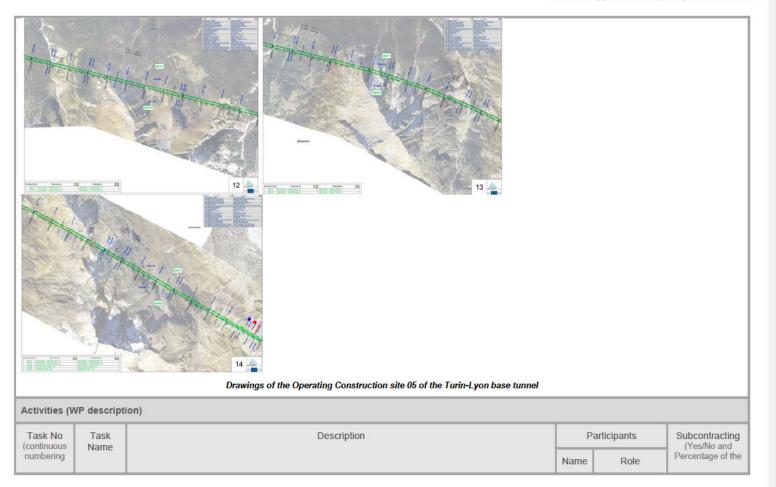
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Work Package 4

Duration:	Lead Beneficiary:		TELT			
Objectives						
This Work Package includes	all the activities related to the Operating Constr	uction Site 05. focu	sed on the e	xcavation	of the base tunnel along the sec	tion between
lodane and La Maddalena						
	is WP: Task 4.1 Construction of the base tunnel	between Modane ar	nd La Madda	lena CO 05;	Task 4.2. Construction of the two	shafts in the
unicipality of Avrieux 05A						
ne following main construct	on works are foreseen					
•	on works are foreseen: the area of Villarodin-Bourget/Modane of a dou	ble tube section with	TBMs towar	ds "La Mad	lalena", for about 18 km each dire	ction, totalling
		ble tube section with	TBMs towar	ds "La Mad	lalena", for about 18 km each dire	ction, totalling
 the excavation from 36 km (<u>Task 4.1</u>); 						ection, totalling
 the excavation from 36 km (<u>Task 4.1</u>); the excavation from 	the area of Villarodin-Bourget/Modane of a dou	ble tube section in tra	iditional meth	od towards	"La Praz" (<u>Task 4.1);</u>	
 the excavation from 36 km (<u>Task 4.1</u>); the excavation from the construction of ' complementary works for the 	the area of Villarodin-Bourget/Modane of a dou the area of Villarodin-Bourget/Modane of a dout	ble tube section in tra ask 4.1); the constru	iditional meth ction of the v	od towards entilation sh	"La Praz" (<u>Task 4.1);</u> afts in the municipality of Avrieux (Task 4.2).
 the excavation from 36 km (<u>Task 4.1</u>); the excavation from the construction of ' complementary works for the /P. 	the area of Villarodin-Bourget/Modane of a dou the area of Villarodin-Bourget/Modane of a dout Modane security area' with traditional method (<u>T</u>	ble tube section in tra <u>ask 4.1);</u> the constru r the assembling of t he Double Financing	iditional meth ction of the v he TBM insid (Regulation	od towards entilation sh le the Base EU 2021/11	"La Praz" (<u>Task 4.1</u>); afts in the municipality of Avrieux (Funnel, inner tube tunnels are fore	Task 4.2).
 the excavation from 36 km (<u>Task 4.1</u>); the excavation from the construction of ' complementary works for the VP. 	the area of Villarodin-Bourget/Modane of a dout the area of Villarodin-Bourget/Modane of a dout Modane security area' with traditional method (<u>T</u> realization of technical caverns, logistic sites fo e rules foreseen by European regulation about th	ble tube section in tra <u>ask 4.1);</u> the constru r the assembling of t he Double Financing	iditional meth ction of the v he TBM insid	od towards entilation sh le the Base EU 2021/11	"La Praz" (<u>Task 4.1</u>); afts in the municipality of Avrieux (Funnel, inner tube tunnels are fore	Task 4.2).
 the excavation from 36 km (<u>Task 4.1</u>); the excavation from the construction of ' Complementary works for the WP. 	the area of Villarodin-Bourget/Modane of a dout the area of Villarodin-Bourget/Modane of a dout Modane security area' with traditional method (<u>T</u> realization of technical caverns, logistic sites for e rules foreseen by European regulation about the <u>Technical progress</u>	ble tube section in tra ask 4.1); the constru r the assembling of t he Double Financing Future Gran	iditional meth ction of the v he TBM insid (Regulation	od towards entilation sh le the Base EU 2021/11	"La Praz" (<u>Task 4.1</u>); afts in the municipality of Avrieux (Funnel, inner tube tunnels are fore	Task 4.2).
36 km (<u>Task 4.1</u>); - the excavation from - the construction of ' Complementary works for the WP.	the area of Villarodin-Bourget/Modane of a dout the area of Villarodin-Bourget/Modane of a dout Modane security area' with traditional method (<u>T</u> realization of technical caverns, logistic sites fo e rules foreseen by European regulation about th	ble tube section in tra <u>ask 4.1);</u> the constru r the assembling of t he Double Financing	iditional meth ction of the v he TBM insid (Regulation	od towards entilation sh le the Base EU 2021/11	"La Praz" (<u>Task 4.1</u>); afts in the municipality of Avrieux (Funnel, inner tube tunnels are fore	Task 4.2).

	ha eliminato: 73%
1	ha eliminato: 100%
111	ha eliminato: 100%
1111	ha eliminato: 100%
11. h	ha eliminato: 1%
- 11	ha eliminato: 3%
- 9	ha eliminato: 36%
	ha eliminato: 100%





nked to WP)				(COO, BEN, AE, AP, OTHER)	task that will I subcontracted
T4.1	Construc tion of the base tunnel between Modane and La Maddale na CO 05	This task includes the base tunnel civil works along the section Villarodin-Bourget/Modane realizing an excavation of a double tube section in mechanized excavation with 2 TBMs towards La Maddalena and the excavation of a double tube section in traditional method towards La Praz for about 3,76 km each direction, totalling 7,5 km. The excavation towards Modane will proceed with two TBMs boring in parallel. The construction of the Modane security area (approx. 750m) is also envisaged within this Task.	TELT	COO, BEN	Yes – 100%
		The excavation is expected to be completed by the end of the Northern tunnel and at the beginning of the Southern tunnel while the part of the tunnel excavated towards La Praz with traditional method will be completed in			
T4.2	Construc tion of the two shafts in the Municipa lity of d'Avrieux 05A	 This task covers the realisation of two vertical shafts (length 500 m each one) that will allow air supply of the base tunnel. They will start at the bottom of the Villarodin-Bourget/Modane site and will reach the surface in the territory of the Avrieux municipality. These shafts will also be used for ventilation during the construction stage of the underground Modane safety area and the base tunnel from the Modane/Villarodin-Bourget access tunnel. The construction of the ventilation shafts is expected to be completed by the the start of the budget for this task will start from March 2024 without overallping the Grant Agreement in force. 	TELT	COO, BEN	Yes – 100%

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Milestone No (continuous numbering not linked to WP)	Milestone Name	Work Packag e No	Lead Benef iciary		Description		Due Date (month number)	Means of Verification	
20 20	Completion rate of CO 05 at month 14%	4	TELT	the financia	n rate is deterr al progress of rating Constru	the works		Certificate issued by the technical director on the basis of the <u>actual financial and technical</u> <u>progress</u> of the works certifying the achievement of the 14%	 (ha eliminato: actual financial progress
	Completion rate of CO 05 at month 20%	4	TELT	the financia	n rate is deterr al progress of rating Constru	the works		Certificate issued by the technical director on the basis of the <u>actual financial and technical</u> <u>progress</u> of the works certifying the achievement of the 20%	 ha eliminato: actual financial progress
	Completion rate of CO 05 at month 47%	4	TELT	the financia	n rate is deterr al progress of rating Constru	the works		Certificate issued by the technical director on the basis of the <u>actual financial and technical</u> <u>progress</u> of the works certifying the achievement of the 47%	 ha eliminato: actual financial progress
	Completion rate of CO 05 at month 100%	4	TELT	the financia	n rate is deterr al progress of rating Constru	the works		Certificate issued by the technical director on the basis of the <u>actual financial and technical</u> <u>progress</u> of the works certifying the achievement of the 100%	 ha eliminato: actual financial progress
Deliverable No (continuous numbering linked to WP)	Deliverable Name	Work Packa ge No	Lead Benef iciary	Туре	Disseminat ion Level	Due Da (month nur		Description (including format and language)	
D4.1	Completion rate of Task 4.1 at month 16 (:2% corresponding to the order of 2 Wurms	4	TELT	[R — Document , report]	/SEN — Sensitive/		the acture certifying	te issued by the technical director on the basis of al financial and technical progress of the works g the achievement of the 2% corresponding to the 2 Wurms (PDF - ENG)	 ha eliminato: actual financial progress
D4.2	Completion rate of Task 4.2 at month 84%	4	TELT	[R — Document , report]	[SEN — Sensitive]			te issued by the technical director on the basis of al financial and technical progress of the works	 (ha eliminato: actual financial progress

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	corresponding to <u>4 shafts bored</u>					certifying the achievement of the 84% and the boring of 4 shafts (PDF - ENG)
D4.3	Task 4.1 - Start of excavation works with 2 TBMs from Modane to La Maddalena	4	TELT	[R — Document , report]	[SEN — Sensitive]	Certificate issued by the technical director certifying the start of the works (PDF - ENG)
D4.4	Task 4.2 - Completion of Avriuex Shafts excavation and starting of coating activities,	4	TELT	[R — Document , report]	/SEN — Sensitive/	Certificate issued by the technical director certifying the progress of the works (PDF - ENG)

ha eliminato: completion

ha eliminato: Avriuex Shafts completed

Work Package 5

Work Package 5: CO 06	-07 – Base Tunnel La Praz-Modane-S. Martin La	Porte
Duration:	Lead Beneficiary:	TELT
Objectives		
sections between S. Martir was completed in 2019 for a km, completed in 2009). Onc	La Porte and La Praz and between La Praz and Mod bout 9 km. In addition, two access tunnels are already in the base tunnel becomes operational, these access tu ged for this Work Package: <u>Task 5.1 Construction of the l</u>	ite 06-07. This Work Package concerns the excavation of the base tunnel along th lane . The Southern tube of the base tunnel between S. Martin La Porte and La Praz place, one in St. Martin La Port (2,4 km, completed in 2010), and one in La Praz (2 innels will serve as a ventilation duct and as a maintenance and safety passage. base tunnel between La Praz and Modane CO 06; Task 5.2 Construction of the bas
- the excavation of a	tion works are foreseen: le Northern single tube section from St. Martin La Porte a double tube section between La Praz and Modane for al a Praz security site in traditional method (750 m) (Task 5	bout 9,38 km with 2 TBMs (Task 5.1).

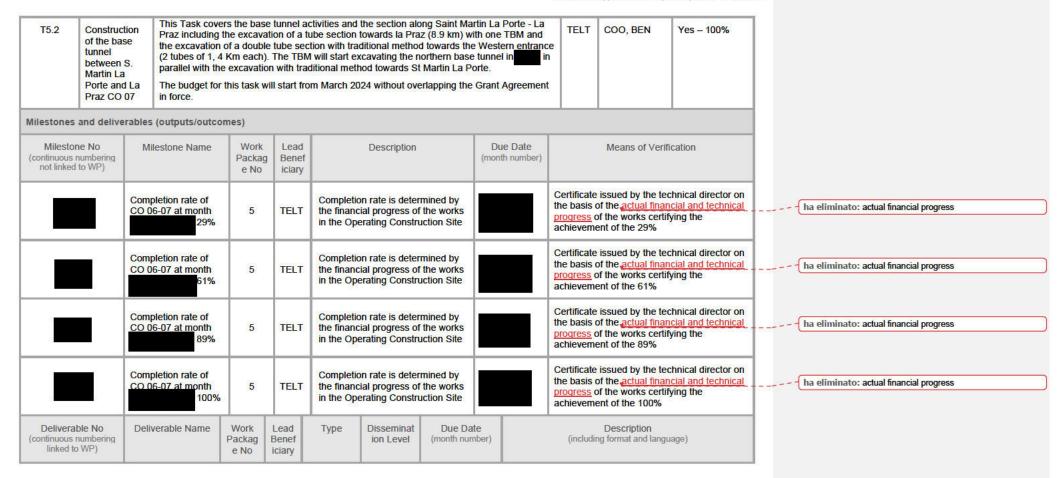
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- excavation of a double tube section in traditional excavation method towards the Western entrance from the St. Martin La Porte (2 tubes of 2,14 Km) (Task 5.2) Complementary works for the realization of technical caverns, logistic sites for the assembling of the TBM inside the base tunnel, inner tube tunnels are foreseen for this WP. TELT will carefully respect the rules foreseen by European regulation about the Double Financing (Regulation EU 2021/1153, Art. 19). Future Grant Agreement Task 5.1 - CO 06 <u>30% 61% 87% 100%</u> Task 5.2 - CO 07 24% 60% 90% 100% WP5 29% 61% 89% 100%

-{	ha eliminato: 29%	
1	ha eliminato: 61%	
Ì.	ha eliminato: 89%	
Ì	ha eliminato: 100%	
1	ha eliminato: 29%	
1	ha eliminato: 61%	
1	ha eliminato: 89%	
ſ	ha eliminato: 100%	



Drawings of	the Operating Co	nstruction sites 06-07 of the Turin-Lyon base tunnel			
Task No (continuous numbering linked to WP)	Task Name	Description	P	Participants Role (COO, BEN, AE, AP, OTHER)	Subcontracting (Yes/No and Percentage of the task that will be subcontracted).
T5.1	Construction of the base tunnel between La Praz and Modane CO 06	 This task covers the constructive works within the section La Praz- Villarodin-Bourget/Modane (CO6) and in particular: the excavation of a double tube section with TBM between La Praz and Modane (2 tubes of 9.38 km); the excavation of La Praz security site in traditional excavation method (approx. 750m); The excavation of the security site of La Praz is currently on-going and it will be completed in mid-2026. The BMS will start excavating the Norther base tunnel in the southerm one in 2026. The boring activities will be completed by the end of the bound of the security site from March 2024 without overlapping the Grant Agreement in force. 	TELT	COO, BEN	Yes – 100%



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D5.1	Completion rate of Task 5.1 at month 40%	5	TELT	[R — Document , report]	[SEN — Sensitive]	Certificate issued by the technical director on the bas of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 40% (PDF - ENG)
D5.2	Completion rate of Task 5.2 at month	5	TELT	[R — Document , report]	[SEN — Sensitive]	Certificate issued by the technical director on the bas of the actual financial and technical progress of the works certifying the achievement of the 35% (PDF - ENG)
D5.3	Task 5.1 - Start of excavation works with 1 TBM from La Praz to Modane	5	TELT	[R — Document , report]	[SEN — Sensitive]	Certificate issued by the technical director certifying the start of the works (PDF - ENG)
D5.4	Task 5.2 - Completion of the excavation works with the traditional method of the base tunnel in St Martine La Porte	5	TELT	[R — Document , report]	[SEN — Sensitive]	Certificate issued by the technical director certifying the completion of the works (PDF - ENG)

Work Package 6

Work Package 6: CO 08 -	- Base Tunnel S. Julien Mont Denis-S. Martine	.a Porte	
Duration:	Lead Beneficiary:	TELT	
Objectives			
	n the excavation of the base tunnel along the sectio cessary works for the construction of the base tunnel al	between S. Julien Mont Denis, at the entrance of the base tunne ng this section.	I, and S. Martin
One main Task is envisaged	for this Work Package: Task 6.1 Construction of the bar	e tunnel between S. Julien Mont Denis - S. Martin La Porte CO 08.	

ha eliminato: actual financial progress

ha eliminato: actual financial progress

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The following main construction works are foreseen:

- The excavation of the base tunnel along this section, consisting in the excavation from the Western entrance of two tubes of about 3 km each, totalling more than 6 km, using the traditional excavation method, and more precisely the "umbrella arch method (UAM)" (<u>Task 6.1</u>). Woks are currently on-going and around 450 meters have been excavated. All the preliminary works on at Villard Clement have been completed (such as installation of platforms, ventilation, cooling and drainage installations required for underground works, installations to remove excavation materials).
- At the entrance of the tunnel an artificial tube, constructed with cut and cover method is already in place (corresponding to the Operating Construction Site CO09.A – "tranche couvert"-completed) and this infrastructure will represent the entrance to the base tunnel on the French site. More specifically, the entrance of the base tunnel will be at the covered trench that will allow the new railway line to pass under the A43 motorway at Villard-Clément. At the end of the works, within this WP, all the construction site between the entrance of the tunnel at the tranche couvert and the Operating Construction Site in S. Julien Mont Denis, will be covered with terrain in order to restore the natural landscape.

TELT will carefully respect the rules foreseen by European regulation about the Double Financing (Regulation EU 2021/1153, Art. 19).

	Future Grant Agreement						
Technical progress							
Task 6.1 - CO 08	38%	79%	98%	100%			
WP6	38%	79%	98%	100%			

Activities (WP description)

Task No (continuous	Task Name		Description	Р	articipants	Subcontracting (Yes/No and
numbering linked to WP)				Name	Role (COO, BEN, AE, AP, OTHER)	Percentage of the task that will be subcontracted).
T6.1	Construction of the base tunnel between S. Julien Mont Denis - S. Martin La Porte. <u>CO 08</u>	entrance of two tubes of the soft geological char method (UAM)", as a p conditions, widely used this section, are ongoin At the end of the works tunnel at the tranche of will be covered with ter The boring activities wi	ase tunnel along this section will include the excavation from west of about 3km using the traditional method, and more precisely given racteristics of the mountain in this area with the "umbrella arch re-reinforcement approach of tunnels in complex geological to maintain the tunnel stability. The works on the base tunnel, along ig, and around 450 m have been completed. , within this WP, all the construction site between the entrance of the buvert and the Operating Construction Site in S. Julien Mont Denis, rain in order to restore the natural landscape. If be completed by end of will start from March 2024 without overlapping the Grant	TELT	COO, BEN	Yes – 100%

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D6.2	.2 Task 6.1 - Completion of the construction of the base			TELT	[R — Document , report]	(SEN		Certificate issued by the technical director certifying the completion of the works (PDF - ENG)			
D6.1	Completion rate of Tasi month corresponding to 4,6 km the base tunnel excave	0% n of	6	TELT	[R — Document , report]	[SEN Sensiti ve]		of the a works of	ate issued by the technical director on the basis ictual financial and technical progress of the certifying the achievement of the 50% and the tion of 4.6 km of the base tunnel (PDF - ENG)		(ha eliminato: actual financial progress (ha eliminato:
Deliverable No (continuous numbering linked to WP)	Deliverable Nam		Work Packag e No	Lead Benef iciary	Туре	Type Dissem Due Da ination (mont Level numbe			Description (including format and language)		
	Completion rate of CO 08 at month 100%	6	TELT	the fir	bletion rate is determined by nancial progress of the works Operating Construction Site		vorks		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 100%		ha eliminato: actual financial progress
	Completion rate of CO 08 at month 98%	6	TELT	Completion rate is determined by the financial progress of the works in the Operating Construction Site			orks		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 98%		ha eliminato: actual financial progress
	Completion rate of CO 08 at month 79%	6	TELT	the fir	oletion rate is nancial progre Operating Co	ess of the w	vorks		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 79%		ha eliminato: actual financial progress
	Completion rate of CO 08 at month 38%	6	TELT	the fir	pletion rate is nancial progre Operating Co	ess of the w	/orks		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 38%		ha eliminato: actual financial progress
Milestone No (continuous numbering not linked to WP)	Milestone Name Work Packag e No Lead				Description			ue Date month umber)	Means of Verification		

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Denis	el between S. Julien Mont s - S. Martin La Porte.	Sensit vej	i	
k Package 7				
Work Package 7: CO 09 –	- S. Jean de Maurienne works			
Duration:	Lead Beneficiar	у:	TELT	
Objectives				
				the integration of the NLTL with the existing ra
network. In Saint Jean de Mat this Work Package is under th This WP will cover all the cons works, related to the adaptatio is under the responsibility of T Three main Task is envisaged construction works in the plain	urienne plain, civil works at the base the responsibility of the S.J. de Maurier struction works on the S.J. de Maurier on of the railway infrastructure are div rELT. The construction of a Multimod of for this Work Package: <u>Task 7.1 Op</u> of S. Jean De Maurienne TELT CO	tunnel will interfere with the nati nplementing body. nne plain in order to adapt the ex rided in six phases which are un al Exchange Centre at the static en air construction works in the	ional railway network kisting infrastructures der the responsibility on of S. J. de Maurier plain of S. Jean De I	(road and railway) to the future tunnel. Part of of the future tunnel is also envisaged under this WP.
network. In Saint Jean de Mat this Work Package is under th This WP will cover all the cons works, related to the adaptatio is under the responsibility of T Three main Task is envisaged <u>construction works in the plain</u> The following construction wor • Works for the adapta	urienne plain, civil works at the base the responsibility of the S.J. de Maurier as in struction works on the S.J. de Maurier on of the railway infrastructure are div rELT. The construction of a Multimod of for this Work Package: <u>Task 7.1 Op</u> <u>n of S. Jean De Maurienne TELT CO</u> rks are foreseen:	tunnel will interfere with the nati nplementing body. nne plain in order to adapt the ex- rided in six phases which are un al Exchange Centre at the static en air construction works in the 09C; Task 7.3 Realization of the ne new line but also of the histor	ional railway network kisting infrastructures der the responsibility on of S. J. de Maurier <u>plain of S. Jean De I</u> <u>e Arc Bridge CO 09E</u> ric line, in St. Jean th	a various works and deviations are required. Part (road and railway) to the future tunnel. Part of y of the same
network. In Saint Jean de Mat this Work Package is under th This WP will cover all the cons works, related to the adaptatic is under the responsibility of T Three main Task is envisaged <u>construction works in the plain</u> The following construction wor • Works for the adapta areas for trains and le • The construction of re-	urienne plain, civil works at the base the responsibility of the second as in struction works on the S.J. de Maurier on of the railway infrastructure are div FELT. The construction of a Multimod: If for this Work Package: <u>Task 7.1 Op</u> of S. Jean De Maurienne TELT CO rks are foreseen: ation of the railway infrastructure of the	tunnel will interfere with the nati nplementing body. nne plain in order to adapt the ex- rided in six phases which are un al Exchange Centre at the static en air construction works in the <u>09C</u> : <u>Task 7.3 Realization of the</u> ne new line but also of the histor and the construction of the Multii ting the overall railway traffic;	ional railway network kisting infrastructures der the responsibility on of S. J. de Maurier <u>plain of S. Jean De I</u> <u>e Arc Bridge CO 09E</u> ric line, in St. Jean th	a various works and deviations are required. Part (road and railway) to the future tunnel. Part of y of the same

TELT will ca	refully respect the		ay out of the St. Jean de la uropean regulation about t	he Double		(Regulatio	n EU 2021/1			
			Technical progress		uture Gran	IL Agreeni				
			Task 7.1 - CO 09B	30%	53%	77%	100%			
			Task 7.2 - CO 09C	0%	0%	23%	100%			
			Task 7.3 - CO 09E	0%	28%	86%	100%			
			WP7	25%	48%	75%	100%			
Activities (WP description) Task No (continuous Task Name Description								F	Participants	Subcontracting (Yes/No and
numbering linked to WP)									Role (COO, BEN, AE, AP, OTHER)	Percentage of the task that will be subcontracted).
T7.1	Open air construction works in the plain of S. Jean De Maurienne	 The works under the responsibility of the saint as implementing body, concern: The clearing of the track plan of the Saint-Jean-de-Maurienne station, with the objective of relocating certain railway functions to the sites of Saint-Avre and Hermillon and clearing spaces for the construction of the new line. The creation of the infrastructure for the future new line and the temporary relocation of the historic line to this new platform. 							COO, BEN	Yes – 100%

	09B-12B		refere with t	ence to the F	RD1006 and ilways and	g roads in the St. Jean de Maurienne pla d the RD906 that will be deviated in ord I ensuring the continuity of the works his area (der to not interfere	e			ha eliminato: The creation of new infrastructures (so called
T7.2	Open air constructi works in ti plain of S. Jean De Maurienne TELT CO	tion the S.	The following v The construction The construction The construction The implementation The reinforcem	works under truction of the der section; truction of the oncerning the mentation of ns) according nent of the e	the respon the Passenge the maintena the new line a f new line e g to the mose embankmen	es for bringing the new line into commen nsibility of TELT are foreseen: ler Building and the Multimodal Exchang ance building, the control building, the fin and supporting the overall railway traffi equipment (including technical buildings ost recent railway standards; nts of the rivers running in this area, and of roads and associated networks.	nge Centre of the fire-fighting fic; s, electrical		COO, BEN	Yes – 100%	"Saut-de-mouton"/"Salto di Montone") to allow the historic line to be moved to its final location and to allow the access to the base tunnel of the cross-border section.
T7.3	Arc Bridge 09E			135 metres a	allowing the	the right bank, as well as those of the A e new line to cross the river "Arc" before		TELT	COO, BEN	Yes – 100%	
Milestones	and delive	rables	(outputs/outco	omes)							
Milestor (continuous i not linked	numbering	Mile	estone Name	Work Package No	Lead Benefic iary	Description	Due Date (month number)		Means of Veri	fication	
			9 at month 25%	7	TELT	Completion rate is determined by the financial progress of the works in the Operating Construction Site		the basis of progress of		echnical director on ncial and technical ifying the	ha eliminato: actual financial progress
			bletion rate of 9 at month 48%	7	TELT	Completion rate is determined by the financial progress of the works in the Operating Construction Site		the basis of progress of		echnical director on ncial and technical ifying the	ha eliminato: actual financial progress

	Completion rate of CO 09 at month 75%	7	TELT	Completion rate the financial pro in the Operating	ogress of the wo	orks	Certificate issued by the technical director on the basis of the <u>actual financial and technical</u> ha eliminato: actual financial progress progress of the works certifying the achievement of the 75%
	Completion rate of CO 09 at month 100%	7	TELT	Completion rate the financial pro in the Operating	ogress of the wo	orks	Certificate issued by the technical director on the basis of the <u>actual financial and technical</u> <u>progress</u> of the works certifying the achievement of the 100%
Deliverable No continuous numbering linked to WP)	Deliverable Name	Pac	Vork Lead acka Bene e No ciary	iefi	Disseminat ion Level	Due Date (month number)	Description (including format and language)
D7.1	Completion rate of Task 7.1 at month 37% corresponding to the construction the retaining walls to create the embankments		7 TELT	[R — Document , report]	[SEN — Sensitive]		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 37% and the construction of the retaining walls to create the embankments(PDF - ENG) ha eliminato:
D7.2	Completion rate of Task 7.2 at month 0%		7 TELT	.T [R — Document , report]	[SEN — Sensitive]		Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 0% (PDF - ENG)
D7.3	Completion rate of Task 7.3 at month 1% corresponding to the award of the contract		7 TELT	[R — Document , report]	[SEN — Sensitive]		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 1% and the award of the contract(PDF - ENG)
D7.4	Task 7.2 – Start of the works of C0 09c	7	7 TELT	[R — Document , report]	[SEN — Sensitive]		Certificate issued by the technical director certifying the start of the works (PDF - ENG)

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D7.5	Task 7.1 - Completion of earthworks phase 2 and railway equipment phase 2	7	TELT	[R — Document , report]	[SEN — Sensitive]	Certificate issued by the technical director certifying the completion of the works (PDF - ENG)
D7.6	Task 7.3 - Completion of Arc Bridge	7	TELT	[R — Document , report]	[SEN — Sensitive]	Certificate issued by the technical director certifying the completion of the works (PDF - ENG)

Work Package 8

Work Package 8: CC	10 - Management of	the excavated materials	in Italy							
Duration:		Lead Beneficiary:		TELT				ha elii	minato: 1	
Objectives										
construction of the cros reducing, as much as pr More specifically the ex Thus, the material will be base tunnel. This proce tunnel will be located. To of Torrazze and Caprie the tunnel.	s-border section on the ssible the externalities pr cavated material of the lt s selected, and we estima is will take place directly the remaining share of exc n Piedmont where it will the protocol is going to be sign	ated to the Operating Const Italian side. The manageme roduced. Overall, around 37 Ialian Operating Construction tate that approximately the 60 in Salbertrand where all the avated material, unusable for perocessed for further user and in 2023 to manage and the	ent strategy of exca million tons of rocks n Sites will be trans % of them will be re ndustrial processes r the construction of s and re-naturalization	vated materials is int are expected to be e ported by trucks in th used for the production to produce the struct the tunnel, will be train on purposes. Dangero	tended to reduce neg extracted from the work ne industrial site, unde on of tunnel lining segr ural elements for the of insported via rail direct bus green rocks are go	ative impacts of trans ks on the cross-border er construction, of Sal ments or other structur construction of the over thy from Salbertrand to bing to be stored direct	sports by r section. bertrand. res of the erall base the sites thy inside			
		ge: <u>Task 8.1 Management o</u> European regulation about ti			1/1153, Art. 19).					
		Technical progress Task 8.1 - CO 10 WP8	Future Gra 20% 56% 20% 56%	nt Agreement 89% 100% 89% 100%	-					

Activities (\	WP descrip	ption)											
Task No continuous	Task	Name		C	escription			icipants		Subcontracting (Yes/No and Percentage of the task			
numbering linked to WP)							Name	(COO, E	Role COO, BEN, AE, AP, OTHER)		ER) that will be subcontracted).		
excava		vated O rials in Italy m		s includes all the g Construction S nent of excavate tion of the cross	Site 10 and con ed materials pr	nsists in the roduced during the	TELT	COO, E	DO, BEN		Yes – 100%		
Ailestones	and delive	erables (out	puts/outc	omes)									
Milestone No (continuous numberin not linked to WP)		ering		Work Package No			otion		Due Date (month number)		Means of Verification		
		Completion rate of CO 10 at month 20% Completion rate of CO 10 at month 56%		8	TELT	Completion rate is the financial progree in the Operating Co	ess of the	works		direo finar	ificate issued by the technical ctor on the basis of the <u>actual</u> <u>ncial and technical progress</u> of the sc certifying the achievement of the		
				8	TELT	Completion rate is the financial progre in the Operating Co	ess of the	works		Certificate issued by the technical director on the basis of the <u>actual</u> <u>financial and technical progress</u> of the works certifying the achievement of the 56%			(ha eliminato: actual financial progress
		Completion CO 10 at n		8	TELT	Completion rate is the financial progre in the Operating Co	ess of the	works		direo finar	ificate issued by the technical ctor on the basis of the actual <u>ncial and technical progress</u> of the is certifying the achievement of the		ha eliminato: actual financial progress

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	Completion rate of CO 10 at month 48 (Dec-2027): 100%	8		the financial	rate is determin I progress of the ating Construction	he works	Certificate issued by the technical director on the basis of the <u>actual</u> <u>financial and technical progress</u> of the works certifying the achievement of the 100%	ha eliminato: actual financial progress
Deliverable No (continuous numbering linked to WP)	Deliverable Name	Work Package No	Lead Beneficiary	у Туре	Disseminat ion Level	Due Date (month number)	Description (including format and language)	
D8.1	Completion rate of Task 8.1 at month 30% corresponding to 100.000 tons of rocks extracted/handled	8	TELT	[R — Docume nt, report]	[SEN — Sensitive]		Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 30% <u>and the extraction/handling of 100.000 tons of rocks</u> (PDF - ENG)	ha eliminato: actual financial progress
D8.2	Completion rate of Task 8.1 at month 100%	8	TELT	[R — Docume nt, report]	[SEN — Sensitive]		Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 100% (PDF - ENG)	ha eliminato: actual financial progress

Work Package 9

Work Package 9: CO 11	- Management of the excavated materials in Fr	ance
Duration:	Lead Beneficiary:	TELT
Objectives		
construction of the cross-bon On the French side, for all t	rder section on the French side. Overall, around 37 million he Operating Construction Sites, three main types of sit	Site 11 and consists in the management of excavated materials produced during the n tons of rocks are expected to be extracted from the works on the cross-border section. es for the management of the excavated materials are foreseen: sites for the material posit are located in Plan d'Arc. Les Resses and Les Tierces. Temporary storage sites

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are located in Illaz, Plan d'Arc, Les Tierces, Les Epines. The treatment of the material takes place in Illaz and Le Moulin (eastern sector of the Villarodin-Bourget/Modane platform). The tunnel lining segments and the other structures of the base tunnel will be realized in La Chapelle.

Dangerous green rocks are going to be stored directly inside the tunnel.

The infrastructures necessary for the transit and evacuation of materials foresees road infrastructure including the Modane ring road connected with the A43 motorway and the railway infrastructure, to allow the transportation of the materials from all the outdoor and underground construction sites (La Praz, S. Martin La Porte, Modane, S. Jean Mont Denis, S. J. de Maurienne plain).

A binational agreement was signed to manage and transport the excavated materials across the national borders, to reuse them for the construction of the Turin-Lyon crossborder section.

One main Task is envisaged for this Work Package: <u>Task 9.1 Management of the excavated materials in France CO 11</u>. TELT will carefully respect the rules foreseen by European regulation about the Double Financing (Regulation EU 2021/1153, Art. 19).

		Future Grant Agreement									
	Technical progress										
E	Task 9.1 - CO 11	10%	32%	64%	100%						
	WP9	10%	32%	64%	100%						

Activities (WP description)

Task No (continuous	Та	sk Name			Description		Pa	ticipants	Subcontracting (Yes/No and Percentage of the task		
numbering linked to WP)						Nam e	Role (COO, BEN, AE, AP, OTHER)	that will be subcontracted).			
T9.1		Management of ated materials CO 11	Construction S	Site 11 an uced duri	ludes all the activities related to the Op d consists in the management of exca ing the construction of the cross-borde	vated	TELT	COO, BEN	Yes – 100%		
Milestones	and delive	rables (outputs/	outcomes)								
Mileston (continuous n not linked	umbering	Milestone Nar	ne Work Packag e No	Lead Benef iciary	Description	Due Dat (month number)		ļ	Means of Verification		

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	Completion rate of CO 11 at month 10%	9	TELT	the financial pr	te is determine progress of the v ng Construction	works		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 10%	 - ha eliminato: actual financial progress
	Completion rate of CO 11 at month 32%	9	TELT	the financial pr	ate is determine progress of the v ng Construction	works		Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 32%	 ha eliminato: actual financial progress
	Completion rate of CO 11 at month 64%	9	TELT	the financial pr	ate is determine progress of the v ng Construction	works		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 64%	 ha eliminato: actual financial progress
	Completion rate of CO 11 at month 100%	9	TELT	the financial pr	ate is determine progress of the v ng Construction	works		Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 100%	 ha eliminato: actual financial progress
Deliverable No (continuous numbering linked to WP)	Deliverable Name	Work Packag e No	Lead Benef iciary	f	Disseminat ion Level		e Date h number)	Description (including format and language)	
D9.1	Completion rate of Task 9.1 at month 16% corresponding to construction activities of the STM of Illaz and Le Moulin (Modane)	9	TELT	[R — Document , report]	[SEN — Sensitive]		1	Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 16% and the construction activities of the STM of Illaz and Le Moulin (Modane) (PDF - ENG)	 ha eliminato: actual financial progress
D9.2	Completion rate of Task 9.1 at month 100%	9	TELT	[R — Document , report]	[SEN — Sensitive]			Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 100% (PDF - ENG)	 ha eliminato: actual financial progress

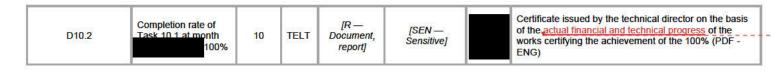
Work Package 10

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Duration:			Lead Beneficiary:		т	ELT				
Objectives										
arried out a according to clearing, pre One main Ta	the overall of the outcomes of eventive archelog ask is envisaged	construction site, s f the permitting ph y interventions, co for this Work Pac	elated to the Operating Construct such as surveys, archaeological ac ase. These environmental and civ ompensatory measures for wildlife kage: <u>Task</u> 10.1 CO 00 - General by European regulation about the Technical progress	ctivities, en ril prescript e, flora or h <u>& CO 00F</u> Double Fir	vironmenta ion concern iuman activ Prescriptic	l monitor i specific ities. o <u>ns</u> egulation	ing and environ EU 202	the contract	ests for the environmental lactions in Italy and Fra	al and civil prescriptio
			Task 10.1 - CO 00 + CO 00P WP10	13% 13%	37% 37%	68%		00% 00%		
Task No	VP description) Task Name	·	Description					P	articipants	Subcontracting (Yes/No and
numbering linked to WP)							Name	(COC	Role), BEN, AE, AP, OTHER)	Percentage of the tas that will be subcontracted).
T10.1	CO 00 - General & CO 00P Prescriptions	carried out along archaeological a environmental a permitting phase	all the general construction work of the overall construction site, suc- ctivities, environmental monitoring nd civil prescriptions according to be these environmental and civil p ctions in Italy and France such as	h as surve g and the o the outcor rescription	ys, costs for the nes of the concern sp		TELT	coc), BEN	Yes – 100%

Milestone No (continuous numbering not linked to WP)	Milestone Name	Work Packag e No	Lead Benef iciary		Description		Due Date (mont h numb er)	Means of Verification	
	Completion rate of <u>CO</u> 00 + 00P at month 13%	10	TELT	financial prog	rate is determined b gress of the works i onstruction Site			Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 13%	 ha eliminato: actual financial progress
	Completion rate of CO 00 + 00P at month 37%	10	TELT	financial prog	rate is determined b gress of the works i onstruction Site			Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 37%	 ha eliminato: actual financial progress
	Completion rate of CO 00 + 00P at month 68%	10	TELT	financial prog	rate is determined b gress of the works i onstruction Site	ts in the		Certificate issued by the technical director on the basis of the <u>actual financial and technical</u> progress of the works certifying the achievement of the 68%	 ha eliminato: actual financial progress
	Completion rate of <u>CO</u> 00 + 00P at month 100%	10	TELT	financial prog	rate is determined b gress of the works i onstruction Site			Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 100%	 ha eliminato: actual financial progress
Deliverable No (continuous numbering linked to WP)	Deliverable Name	Work Packag e No	Lead Benef iciary	Туре	Dissemination Level	Due Date (month number)		Description (including format and language)	
D10.1	Completion rate of Task 10.1 at month 20%	10	TELT	[R — Document, report]	[SEN — Sensitive]		of the	ificate issued by the technical director on the basis le <u>actual financial and technical progress</u> of the cs certifying the achievement of the 20% (PDF - G)	(ha eliminato: actual financial progress

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Work Package 11

Duration:		Lead Beneficiary:	TEL	Г			
Objectives							
agreements drains, telec Three Tasks	with public utility ow ommunications, opti are envisaged for the	s related to transport, traffic, security and the engineering actions to deviate those utilities whose alignment is interfering with the project are also included (sure is Work Package: <u>Task 11.1 Insurance, Task 11.2 Engineering</u> les foreseen by European regulation about the Double Finance.	ith the ope ch as for b ng and cor cing (Regu	n-air work uildings, v Istruction lation EU	s in France vehicles, ar <u>supervisior</u> 2021/1153	e and in Ita nd personn <u>n, Task 11.</u> 9, Art. 19).	ly: electricity lines, gas pipes, wat lel)
			nt Agreeme	ent			
		Technical programs					
		Technical progress	23%	48%	76%	100%	
		Task 11.1 - Insurance	23% 26%	48% 51%	76% 76%	100%	
			23% 26% 37%	48% 51% 65%	76% 76% 88%	100% 100% 100%	
		Task 11.1 - Insurance Task 11.2 - Engineering and construction supervision	26%	51%	76%	100%	
Activities (V	VP description)	Task 11.1 - Insurance Task 11.2 - Engineering and construction supervision Task 11.3 - Resolution of the interferences	26% 37%	51% 65%	76% 88%	100% 100%	
Activities (V Task No (continuous	VP description) Task Name	Task 11.1 - Insurance Task 11.2 - Engineering and construction supervision Task 11.3 - Resolution of the interferences	26% 37%	51% 65%	76% 88% 78%	100% 100%	Subcontracting (Yes/No and Percentage of the ta

ha eliminato: actual financial progress

Milesto continuous not linked	numbering	Milestone Name							Means of Verification		
lilestones	and deliverable	s (outputs/outcomes)									
T11.3	Resolution of the interferences	This Task covers engir owners to deviate thos electricity lines, gas pip	e utilities who	ose alignn	nent is interfering with	the works:	T E L T		Yes – 100%		
T11.2	Engineering and construction supervision	It consists in ensuring economic and tempora on site and in back-offi The engineering includ the different operationa to transport, traffic, sect the engineer (MOE) environmental studies a Among the main aspect there are: - Compliance of constr - Control of work scheo - Certification of work p - Authorization of progr - Change orders - Conflict resolutions - Coordination of extern - Ensures the compliant	I point of vier ce. es services, a la worksites, and worksites, urity: Engineu and the sut and monitoria ts to be moni uction with d lule and bud rogress ess paymeni hal contracto	w. In this p studies an such as: ering techn b-contractong; Techn itored and esign stud get ts	purpose, activities wil d works that are not e Engineering function nical studies or audit ors; design and pla ical studies for supply controlled he constru- lies	I be realized both lirectly linkable at al studies related limed at checking nning; Technical y of rail traction.	TELT		Yes – 100%		
T11.1	Insurance	this task covers all the The approach applied t insurance that covers li realization of this proje applied by TELT descri The Value of the insura residual value of the in	from telt for t ability for civ ct. Please, al bed in the cl ance is reduc	he realizativil and envilso considination here and here a	ironmental damages er the risk managem for mitigating and re	caused by the ent policies ducing any risk.	T E L T		Yes – 100%		

	Completion rate of Horizontal Activities at month 2	27%	11	TELT	determ	pletion rate is mined by the cial progress		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 27%	ha eliminato: actual financial progress
	Completion rate of Horizontal Activities at month 5	53%	11	TELT	determ	pletion rate is mined by the cial progress		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 53%	ha eliminato: actual financial progress
	Completion rate of Horizontal Activities at month	78%	11	TELT	determ	bletion rate is mined by the cial progress		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 78%	(ha eliminato: actual financial progress
	Completion rate of Horizontal Activities at month	100%	11	TELT	determ	pletion rate is mined by the cial progress		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 100%	ha eliminato: actual financial progress
Deliverable No (continuous numbering linked to WP)	Deliverable Name	Work Packag e No	Lead Benef iciary	f	уре	Disseminat ion Level	Due Date (month number)	Description (including format and language)	
D11.1	Completion rate of Task 11.1 at month 31%	11	TELT	Docu	R — ument eport]	[SEN — Sensitive]		Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 31% (PDF - ENG)	ha eliminato: actual financial progress
D11.2	Completion rate of Task 11.2 at month 34%	11	TELT	Docu	? — ument eport]	[SEN — Sensitive]		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 34% (PDF - ENG)	ha eliminato: actual financial progress
D11.3	Completion rate of Task 11.3 at month 43% corresponding to the resolution of 38% of the interferences in	11	TELT	Docu	R — ument eport]	[SEN — Sensitive]		Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 43% the resolution of 38% of the interferences in Italy and 100% in France (PDF - ENG)	ha eliminato: actual financial progress

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	Italy and 100% in France						
D11.4	Completion rate of Task 11 1 at month 100%	11	TELT	[R — Document , report]	[SEN — Sensitive]	Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 100% (PDF - ENG)	 ha eliminato: actual financial progress
D11.5	Completion rate of Task 11.2 at month 100%	11	TELT	[R — Document , report]	[SEN — Sensitive]	Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 100% (PDF - ENG	 ha eliminato: actual financial progress
D11.6	Completion rate of Task 11.3 at month 100%	11	TELT	[R — Document , report]	[SEN — Sensitive]	Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 100% (PDF - ENG	 ha eliminato: actual financial progress

Work Package 12

Work Package 12: Projec	t Management and Administrative activities							
Duration:	Lead Beneficiary:		TELT					
Objectives								
THIS WORK PACKAGE INCLUGES	all the activities related to Project Management and Administ	strative act	ivities. This	Work Pack	age covers	all the cost	s for Human I	esources,
rental of TELT main offices in the management of Modane i One Task is envisaged for thi	Torino and Le Bourget du Lac, vehicles, furniture, office sup nformation point. s Work Package: <u>Task 12.1 Project Management and Admir</u> e rules foreseen by European regulation about the Double Fi	pplies, IT s nistrative a inancing (l	systems, co activities	nsultancy a EU 2021/1	and regulato	y controls,		
rental of TELT main offices in the management of Modane i One Task is envisaged for thi	Torino and Le Bourget du Lac, vehicles, furniture, office sup nformation point. s Work Package: <u>Task 12.1 Project Management and Admir</u>	pplies, IT s nistrative a inancing (l	systems, co activities Regulation	nsultancy a EU 2021/1	and regulato	y controls,		

Task No continuous	Task Name		1	Descriptio	n		Parti	cipants	Subcontracting (Yes/No and Percentage of the task		
numbering linked to WP)							Name	Role (COO, BEN, AE, AP, OTHER)	that will be subcontracted).		
T12.1	Project Management and Administrative activities	coordination activities and the Italian Ministr the implementation of will ensure the cohered Agreement with the TE The main activities pla - Administrative coorn management team; - Monitoring of the pro - Preparation and sub - Preparation and sub - Organization of prog - Strategic project devises - Coordination of a coordination of a coordination of a coordination function of the - Management of the	with Assoc y for Infras the project nee of the ir LT annual nned will be dination of pect implem mission of p mission of p mission of fi ess meetin elopment, ions; ctivities wi ponitoring a progress r informatio	iated Pa iructure a in line w nplement works pla : the proj entation a eriodic re nancial s gs betwe including the the nd evalua eports, ei n flows l	ect's activities and of as defined in the Grant ports; tatements and audit ce en participants; preparation and docur Associated Partners ation,	nch Ministry ecessary for nt. The task er the Grant the project Agreement; rtificates; nentation of (meetings, in particular	TELT, MTCES, MIT	COO, BEN AP AP	Yes – 100%		
lilestones	and deliverables	(outputs/outcomes)									
(continuous r	Ailestone No inuous numbering t linked to WP)			Lead Benef iciary	Description	Due Da (month num		1	Means of Verification		

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D12.2	Completion rate of Task 12.1 at month 100%	12	TEL	T Doci	R — eument eport]	[SEN — Sensitive]		the,	ficate issued by the technical director on the basis of actual financial and technical progress of the works rtifying the achievement of the 100% (PDF - ENG)	ha eliminato: actual financial progress
D12.1	Completion rate of Task 12.1 at month 36%	12	TEL	T Doci	R — eument eport]	[SEN — Sensitive]		the,	ficate issued by the technical director on the basis of actual financial and technical progress of the works	ha eliminato: actual financial progress
Deliverable No continuous numbering linked to WP)	Deliverable Name	Work Package No	Lead Bene ician	ef	уре	Disseminat ion Level	Due Date (month number)		Description (including format and language)	
	Completion rate of PM Administrative activities month		12	TELT	determin	ion rate is led by the progress			Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 100%	ha eliminato: actual financial progress
	Completion rate of PM Administrative activities month	and at 76%	12	TELT	determin	ion rate is led by the progress			Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 76%	ha eliminato: actual financial progress
	Completion rate of PM Administrative activities month		12	TELT	determin	ion rate is led by the progress			Certificate issued by the technical director on the basis of the actual financial and technical progress of the works certifying the achievement of the 52%	ha eliminato: actual financial progress
71 m	Completion rate of PM Administrative activities month	and at 28%	12	TELT	determin	ion rate is red by the progress			Certificate issued by the technical director on the basis of the <u>actual financial and technical progress</u> of the works certifying the achievement of the 28%	ha eliminato: actual financial progress

Estimated budget — Resources (n/a for prefixed Lump Sum Grants)

See detailed budget table per WP/calculator (annex 1 to Part B)

See the Detailed Budget Table attached in Annex

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6.3 Timetable

Timetable

Fill in the timetable for the project (using either the template available on Portal Reference Documents or a Gantt chart which respects the minimum requirements set out in the template) and attach it to your Application Form (annex X to Part B).

#§WRK-PLA-WP§#

See the Gantt chart attached in Annex

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#@ETH-ICS-EI@#

7. OTHER

7.1 Ethics

Ethics

Not applicable.

#§ETH-ICS-EI§# #@SEC-URI-SU@#

7.2 Security

Security		
Not applicable.		
EC-URI-SU§# #@DEC-LAR-DL@#		_

8. DECLARATIONS

Higher funding rate (if applicable)	YES/NO
Do you fulfil the conditions set out in the Call document for a higher funding rate? If YES, explain and provide details.	YES
According to Regulation (EU) No 2021/1153 [CEF 2 Regulation] in Article 15 (2)	
cofinancing rate applicable to projects carried out by integrated management str increased by 5 %" and also the recently approved Work Programme for 2021- Form of Union contributions and co-financing rates - [] as regards Actions relati	quotes as follows " 8.

Form of Union contributions and co-financing rates – [..] as regards Actions relating to cross-border links, the above specified maximum co[1]financing rates for works (50%) may further be increased by 5 percentage points for projects carried out by integrated management structures, including joint ventures." Based on the established integrated management structure for the Turin Lyon base tunnel's planning and implementation a higher level of co-financing is justified for the proposed project (i.e. up to 55 per cent, corresponding to 2.902.776.085,90 € of EU contribution)

winned projects (if applicable)	YES/NO
s the project twinned to another project which is funded under another CEF call and part of he same global project?	
f YES, give details on the twin-project (name, number, etc).	NO
Note: Twinned projects will be evaluated together and afterwards managed as linked actions for the purposes of the Grant Agreement).	
N/A	

Double funding	
Information concerning other EU grants for this project Please note that there is a strict prohibition of double funding from the EU budget (except under EU Synergies actions).	YES/NO

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We confirm that to our best knowledge neither the project as a whole nor any parts of it have benefitted from any other EU grant (<i>including EU funding managed by authorities in EU Member States or other funding bodies, e.g. EU Regional Funds, EU Agricultural Funds, etc).</i> If NO, explain and provide details.	YES, we confirm that no double funding is expected for this project
We confirm that to our best knowledge neither the project as a whole nor any parts of it are (nor will be) submitted for any other EU grant (including EU funding managed by authorities in EU Member States or other funding bodies, e.g. EU Regional Funds, EU Agricultural Funds, etc). If NO. explain and provide details.	YES, we confirm

Financial support to third parties (if applicable) If your project requires a higher maximum amount per third party than the threshold amount set in the Call document, justify and explain why this is necessary in order to fulfil your project's objectives.

N/A

#§DEC-LAR-DL§#

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ANNEXES

LIST OF ANNEXES

Standard

Detailed budget table per WP/Calculator Annual activity reports List of previous projects (annex 4 to Part B

Special Timetable/Gantt chart (annex 5 to Part B) Other annexes (annex 6 to Part B): - 1996 France - Italy Treaty - 2001 Italy-France Treaty - 2012 Italy-France Treaty - 2015 Italy-France Treaty - 2016 Italy-France Treaty Addition

- 2016 Italy-France Treaty Additional Protocol

- TELT Statute Deliberations n. 57 of 3rd August 2011 Deliberations n. 30 of 21st March 2018
- Deliberations n. 39 of 26th April 2018 PUT Determina MiTE n.248 2022 PUT CTVIA Parere n.538 2022

- Determina n.1004 TELT Proroga Pubblica utilità 2022
- Décret d'Utilité Publique (DUP) of 18/12/2007 Arrêté Prefectoral of 12/02/2007 Arrêté Prefectoral of 04/03/2011
- Déclaration d'Utilité Publique (DUP) of 30/03/2011

- Arrêté Prefectoral of 16/08/2016 Déclaration d'Utilité Publique (DUP) of 06/12/2017 Authorisations, approvals and permits Support letters S-Curves

- Chemin the Fer
- Climate proofing

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LIST OF PREVIOUS PROJECTS

Participant	Project Reference No and Title, Funding programme	Period (start and end date)	Role (COO, BEN, AE, OTHER)	Amount (EUR)	Website (if any)
TELT	2014-EU-TM-0401-M "Cross Border Section of the New Lyon-Turin Rail Link Mont Cenis Base Tunnel (TBM)",	01/01/2014 - 31/12/2023	BEN	1,915,054,750 Eur (813,781,900 cofunding from Connecting Europe Facility)	https://ec.europa _eu/inea/en/com- ecting-europe- facility/cef- transport/2014- eu-tm-0401-m
TELT	22-EU-TG-RE-AVIBUS- TELT-2 "Upgrading of the rail historic line Bussoleno – Avigliana"	1/1/2023- 31/12	BEN COO	89,000,000 € (44,500,000 € cofunding from Connecting Europe Facility)	Not available

HISTORY OF CHANGES					
PUBLICATION DATE	CHANGE				
01.09.2021	Initial version (new MFF).				
01.06.2022	Consolidation, formatting and layout changes. Tags added.				
	DATE 01.09.2021				

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