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Annex 2.4 - Description of the activities' progress planned in the on-going reporting period and until the end of implementation of the Action

Activities' Progress

ACTIVITY 4- EXPLORATORY ACTIVITIES FROM THE FOOT OF THE SAINT-MARTIN-LA-PORTE ACCESS TUNNELS

After a final civil engineering phase to consolidate the supports put in place for the advance, the SMP4 SITE has ended and has given way to the consortium led by [REDACTED] construction group that will realize the base tunnel between Saint Jean de Maurienne and Modane (activities 24 et 25).

ACTIVITY 7 - RELEASE OF THE LAND ACQUIRED FOR PUBLIC PURPOSES AND DEMOLITIONS

A/ Demolitions and land preparation -in France

[REDACTED] buildings will have to be vacated to [REDACTED]

B/ Demolitions and land preparation -in Italy

The works have been completed and testing will be carried out during the year.

ACTIVITY 8 - UTILITIES DIVERSIONS IN FRANCE

These are the main works under this activity:

- **[REDACTED] / Diversion for telephony networks in Saint-Jean-de-Maurienne (on-going)**
According to the Network Operator [REDACTED] Agreement (in Saint-Jean-de-Maurienne and Villargondran municipalities): studies for telephony networks diversion and optical fibers will make works in the Saint- Jean-de-Maurienne's Basin.
Indeed, the amendment was signed in 2022 following the evolution in Saint Jean de Maurienne's basin then the work program under [REDACTED] MOA has been also changed. New areas were affected with a new phasing thus new phases of temporary diversions have been carried out.
- **[REDACTED] / A 42 kV power line diversion works regarding Chaudannes' area (Agreement signed on 14/12/2022)**
A partial revision of the 42 kV power line ARVA N - LE CORBIER - LONGEFAN - ST JEAN DE MAURIENNE from Chaudannes in Saint-Jean-de-Maurienne's area (currently ongoing)
Following the new Agreement works with [REDACTED] the (French) Network of transmission operator for electricity (in the country of Saint Jean de Maurienne), powerline will be increased by the diversion of the of the 42kV Chaudannes Arvan in order to carry out the works of the new railway line.
- **[REDACTED] / A fibre diversion works in Saint-Jean-de-Maurienne (on-going)**
According to the Network Operator [REDACTED] / [REDACTED] Agreement (in Saint Jean de Maurienne's area): the diversions of optical fibre networks will perform the works in Saint-Jean-de-Maurienne. Diversions works have been carrying out according to the planning of the main works.
- **[REDACTED] / Diversion HTA powerline works in Saint-Jean-de-Maurienne (on-going)**
According to the Network operator [REDACTED] Agreement (in Saint-Jean-de-Maurienne): the removal from HTA (20KV) and low voltage networks in Saint-Jean-de-Maurienne allow the main works to be carried out. The diversions work (Artisan Street, Arc Street, Saint-Jean-de-Maurienne and



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Villargondran's areas, Libération Str., rue Louis Sibué Str., la Bastille Str., René Cassin Str., land parcel Martinet, RD81, in the former Resse's area, deviation Bastille post and construction of new Bastille) were carried out according to the planning of the main works (first phase until 31/12/2021)

- **██████████ / A 150kV diversion powerline works (on-going)**

Agreement works with ██████████ Network of transmission operator for electricity (in Saint- Jean-de-Maurienne Saint-Julien-Montdenis and Villargondran countries): thanks to the diversion by earthing the powerline, the works will begin.

- **██████████ (in Saint Jean de Maurienne and Villargondran municipalities): studies for the derivations of telephony networks and optics fibers will allow works in the Saint Jean de Maurienne Basin (on going)**

This diversion is ongoing (around 78% completion) and it will be completed by the end of ██████████

- **██████████ / ██████████ (in Saint Jean de Maurienne municipality): the deviations of optic fiber networks will allow works on Saint Jean de Maurienne. Deviations works are carried out according to the planning of the main work**

This diversion is ongoing (around 27% completion) and it will be completed by the end of ██████████

- **██████████ (in Saint Jean de Maurienne municipality): the derivation of HTA (20KV) and low voltage grids in Saint Jean de Maurienne**

This diversion is ongoing (around 47% completion) and it will be completed by the end of ██████████

The last three tasks (objectives no.9, 14 and 15 in the GA) will be completed outside the GA timeframe. It is proposed to compensate the reduced scope of this activity with the increased works done **in other activities (i.e. 24 and 26) thus increasing their scope (around 1,8 M€).**

ACTIVITY 9 - UTILITIES DIVERSIONS IN ITALY

In ██████████ preliminary talks and agreements with the Operators Network will be planned in order to complete the utilities diversions in the Susa Plain funded in the construction lot n°4 according to the CIPE resolution n.3/2022.

During the year, the ██████████ low voltage line in the operating site 03/04 from La Colombera to Chiomonte is planned to be relocated.

The utilities diversion will be anticipated before the arrival of the construction companies on the O.W. 10 for the completion of the ██████████'s sewer section in Salbertrand and the ██████████'s Medium voltage line in Torrazza Piemonte.

As far as the following tasks concerns (objectives no.4, 5 and 9 in the GA), they will be completed outside the GA timeframe. It is proposed to compensate the reduced scope **of this activity with the increased works done in other activities (i.e. 24 and 26) thus increasing their scope (around 136k€).**

██████████ (Torrazza Piemonte, San Didero and Bruzolo municipalities): the deviation of water mains in San Didero and Bruzolo that will allow the construction of roundabout of access to the New Autoporto and in Torrazza that will connect the railway to the deposit will be completed by ██████████

██████████ (in Torrazza Piemonte San Didero, Bruzolo and Salbertrand municipalities): as described above also this deviation will be completed by ██████████



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██████████ (San Didero and Bruzolo municipalities): the deviation of gas pipeline that will allow the construction of roundabout of access to the New Autoporto will be completed by ██████████

ACTIVITY 10 - CHIOMONTE INTERCHANGE

The activities concerning the construction site installation for the new Chiomonte junction are now starting.

ACTIVITY 11- RELOCATION OF AUTOPORT (CONVENTION ██████████)

In ██████████ the following operations are expected to be carried out:

- Completion of platform embankments
- Construction of service building structures
- North lane entrance-exit ramps.

ACTIVITY 12 - RELOCATION OF ██████████ "SAFE DRIVING" TRACK

It has to be underlined that on last 21 December 2022, TELT initiated the procedures for starting the Environmental Impact Assessment and the Declaration of Public Utility, pursuant to articles 167, 183 and 185 of Legislative Decree 163/2006, with specific notices published in national newspapers ██████████ and Local newspapers ██████████ and submitted the Definitive Plan to the competent bodies.

The first session of the Regional Services Conference was held on 23 January 2023, while the session of the National Services Conference will be held on 7 February.

Proceedings are underway with the technical assessments by the competent bodies.

ACTIVITY 13 - INTERCONNECTION TUNNEL SUSA-BUSSOLENO

This activity and its tasks cannot be completed within the timeframe of the present Grant Agreement.

Commentato [PF1]: Is it possible to include a justification?

It is proposed to compensate the reduced scope of this activity with the increased works **done in other activities (i.e. 24 and 26) thus increasing their scope (around 0,8M€).**

ACTIVITY 14 - ELECTRIC CONNECTION SUSA-VENAUS

During ██████████ the authorisation process will begin at the Ministry of Economic Development for the modification of the national electricity grid, in order to allow the replacement of the power line support useful for the temporary diversion.

This electrical connection, previously designed as a trench, has been interested by a design variant. The new configuration involves the passage of the electric conduit in the base tunnel. As a result, this connection, worth in the Grant of € 5.6 M€, is rescheduled ██████████

The achievement of milestone ██████████ Completion of works for electrical power supply for Chiomonte, is therefore postponed after the completion of the action.

It is proposed to compensate the reduced scope of this activity with the increased works **done in other activities (i.e. 24 and 26) thus increasing their scope (around 5,6M€).**



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ACTIVITY 15- AVRIEUX SHAFTS

On the Avrieux platform (CO-05a), work will continue for the construction of the shafts and in particular the completion of 2 (or 3) bores. The last bore should be completed in early [REDACTED]. Excavation of the 4th pilot hole. Work on the lining and support of the shafts which have already been excavated.

Since work on Part 2 was completed, underground work will focus on Part 3 with the construction of the assembly chambers for the tunnel boring machines; the work on Part 3 should be completed by early [REDACTED].

Please note that the final milestone is the milestone [REDACTED] while the last task *Construction of the four ventilation shafts and layers of different material covering the inside surface of the shafts* will be completed by end [REDACTED].

ACTIVITY 16- VILLARD CLÉMENT CUT AND COVER

While works have been completed, the administrative closure of the contract and the final payment will be done during [REDACTED].

Activity 17 - Electric connection for French worksites

The agreement with the operator [REDACTED] (in Villarodin-Bourget municipality) is to create the electrical transformer station 63/20 KV for the electrical supply of the site in a first stage, then the auxiliaries High Voltage and for the power supply electric traction of the base tunnel in the operating phase in a second stage.

ACTIVITY 19: Civil works on Susa plain (O.W. 2A)

Structural decisions have yet to be made by all the stakeholder regarding the organization of works in the Susa Plain. By the end of [REDACTED] the tender for main works will be published. However, the first task of the PMC regarding the preparation of the documentation for the call for tenders will not be completed before the end of the action but latest estimations for this milestone indicate first quarter [REDACTED].

Consequently, milestones [REDACTED] and [REDACTED] cannot be achieved within the timeframe of the action and therefore it is intended excluded from the scope of the GA (technical 70%).

It is proposed to compensate the reduced scope of this activity (0.6M€) with the extension of the scope in other activities **[i.e. 24 and 26]**.

ACTIVITY 21- MADDALENA-SUSA (O.W.3-4)

The tender phase for the awarding of the contracts for the Base Tunnel works is expected to end during summer [REDACTED]. Key dates are:

- [REDACTED] signature of the Contract
- [REDACTED] handover of areas to the contractor
- From [REDACTED]: start of the 1st phase of the Executive design work.



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ACTIVITY 22- MADDALENA INTERCONNECTING NICHES (O.W.4A)

The excavation of the niches (11 remaining niches for a total of 385 linear meters of excavation) and road surface construction (2,040 m for the concrete platform and 755 m for the drainage system) are expected to be completed by [REDACTED]

ACTIVITY 23- MODANE ANE MADDALENA (O.W.5)

In [REDACTED], the executive design activities will continue in all parts of the project. In particular, the following achievements are planned for [REDACTED]

- Arrival at the factory of the two tunnel boring machines that were ordered in 2022.
- The order and start of the specific tools required for the construction of the tunnel lining, called "wûrm".

While the order of wûrm will be made in [REDACTED] the set up in supplier's factory is expected by [REDACTED]. Milestone [REDACTED] cannot be achieved within the timeframe of the action. Therefore, it is intended excluded from the scope of the GA (Technical % 90), but it is proposed to compensate its costs of 19,3 M€ with the extension of the scope in other activities (i.e. 24 and 26).

ACTIVITY 24- LA PRAZ-MODANE (O.W.6)¹

Work on the final section of the access adit and the installation of construction site facilities will continue in [REDACTED]

This will allow excavation of the connection tunnel and the first excavations at the foot of the access adit to the west of the La Praz safety site.

The two tunnel boring machines will be delivered to the factory in the [REDACTED]

We propose to anticipate the upgrade of the access adit gauge by 1.5 meter for the entire length of the adit (around 2.5 km), with an indicative additional amount of costs of the order of 42M euro, in order to include it in the scope of the current GA as a replacement for those activities that will not entirely fulfil their respective GA scope (i.e., activities 8, 9, 13, 14, 17, 19, 23, 33 for around 32M euro of costs).

ACTIVITY 25- SAINT-MARTIN-LA-PORTE - LA PRAZ (O.W.7)¹

Work on the platform will continue in [REDACTED] with the completion of the main installations. The foundation work and the assembly of the conveyor structure will be carried out.

The excavation of the logistics galleries and the structures located at the foot of the access adit, in particular the technical cavern, will be carried out underground.

The tunnel boring machine will be delivered to the factory and then transported to the construction site [REDACTED]

¹ Please note that these two activities are a unique contract assigned to the same group of companies (consortium). The detailed execution of the works is necessarily decided by this consortium and may differ from what TELT engineers have initially planned. Reading these two activities together is the correct and only way to analyze them as there are more tasks done in one activity and less in the other, but they are globally online with the GA hypothesis.



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ACTIVITY 26- SAINT-JULIEN-MONTDENIS (WEST ENTRANCE) – SAINT-MARTIN-LA-PORTE (O.W.8)

The excavation work of the entrance to the base tunnel began on 5 December 2022 and will continue until [REDACTED] realizing more than 400 meters per tube compared to the GA objective of 300 meters.

We propose to include the excavation of the base tunnel in the O.W. 8 in excess of 300 meters per tube in the scope of the current GA **with an indicative additional amount of costs of the order of 6M euro**, as a replacement for those activities that will not entirely fulfil their respective GA scope (i.e., activities 8, 9, 13, 14, 17, 19, 23, 33 **for around 32M euro of costs**).

ACTIVITY 27 SAINT-JEAN-DE-MAURIENNE [REDACTED] (O.W.9B) AND ACTIVITY 28 SAINT-JEAN-DE-MAURIENNE (TELT) (O.W.9C)

A/ **O.W.9B**: The year [REDACTED] will be the completion of phase 1 with the commissioning of a new railway installations (substations and signalling) carried out over the last years.

This punching operation will take place over a few days in [REDACTED] with hundreds [REDACTED] agents dedicated to the operation.

The work base for receiving all the companies for 10 years will be operational from March 2023.

The main works contracts [REDACTED] (Civil Engineering) [REDACTED] (Railway Equipment) notified at the beginning of [REDACTED] will allow the start of phase 2 of the operation.

B/ **O.W. 9C**: International Railway Station, Junction RD906

- Continuation of the International Railway station Studies AVP and PRO
- Demolitions phase 4 on the [REDACTED]

ACTIVITY 29- TRIMET AND VILLARGONDRAN DAMS (O.W.9D)

Works completed.

ACTIVITY 30- ARC BRIDGE (O.W.9E)

Start of the final project phase in February 2023 for the launch of the tender for the works before the [REDACTED]

ACTIVITY 31- MANAGEMENT OF EXCAVATED MATERIAL IN ITALY (O.W.10)

The main activities are expected to take place during [REDACTED] are as follows:

- The contract award and start of works for 'Waste removal from areas C and D' (T20) and the characterisation of the soil beneath the spoil heaps. The construction site is expected to start [REDACTED] and will last approximately [REDACTED] months.
- The tender analysis will continue for the main works of CO10 (T13 lot 2). By the end of the year, the award and the start of the executive design of CO10 and the construction site works for the first phase Executive Project are expected.



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During [REDACTED] the agreement with [REDACTED] should be drafted for railway works on the national line

ACTIVITY 32- MANAGEMENT OF EXCAVATED MATERIALS IN FRANCE (O.W.11)

A/ Saint Antoine Bridge: the second part of the reprofiling of the Saint Antoine riverbed will be completed. The new bridge will be built and the temporary bridge will be dismantled in [REDACTED]

B/ T10 Lot 2: Modane By Pass Road

Work on the soil-nailed walls will resume in winter. The tunnel excavation is expected to start around [REDACTED]. Then the roadworks and installations will be carried out.

ACTIVITY 33- ENGINEERING AND OTHER COSTS NOT INCLUDED IN OTHER O.W.

The main activities will be:

- a) Assistance to all operational sites for the check and control of the development of the detailed studies and design and design follow-up of the work's activities, with a view to guaranteeing compliance with the functionality and the need for homogeneity between the different lots of the Project and maintainability of the work,
- b) Assistance to all operational sites for the implementation of the BIM specifications of the executive studies and works with a view to ensuring the homogeneity of the BIM protocols between different sites in the different EXE/DOE phases,
- c) Assistance to the Tender design activities of the multidisciplinary activities related to the System Engineering of the Contract O.W.12. In this contract will emerge the activities of the Civil Works finalization, the trackwork activities and the System's related to the railway and not railway technological systems. This support will be assured during the consultation phases and true the evaluation of technical and financial studies,
- d) External control of the preliminary design DCE of the operational sites O.W.01 and O.W.02,
- e) Detailed technical studies on various operating sites in France and Italy, not included in the activities commissioned to the Supervision of Works.

Milestone [REDACTED] and [REDACTED] cannot be achieved within the timeframe of the action. Therefore it is intended excluded from the scope of the GA (Technical 95%); we propose that the reduced costs as of 4,7 M€ could be compensated with the extension of the scope of other activities (i.e. 24 and 26).