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Description of the activities' progress in the previous reporting period

ACTIVITY 1

Not used

ACTIVITY 2 Monitoring and follow-up of the descending shafts

Nothing to report

ACTIVITY 3 La Maddalena exploratory activities

Nothing to report

ACTIVITY 4 Exploratory activities from the foot of the Saint-Martin-la-Porte access tunnels

• Saint-Martin-la-Porte Exploratory work -SMP4-

On the SMP4 site, excavation of the *Houiller* on the Lyon side resumed with the boring of the 11 m reduced section between pK 10+794 and 10+805; advancement with full section resumed on 17 January 2022 with progress of 7.5 metres (average rate of 0.5 m/d).

The progress from the Turin side of the face has been 20.5 metres, with an average rate of 0.7 m/d for the month of January. As of 31 January 2022, 94.50 metres remain until the two excavation fronts meet up

ACTIVITY 5

Not used

ACTIVITY 6

Not used

ACTIVITY 7 Release of the land acquired for public purposes and demolitions

Nothing to report

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ACTIVITY 8 Utilities diversions in France

- In 2021, major conventions and work related to network diversions focused on:
 - Diversion of the 63 kV Aussois-Terres Froides [REDACTED] power line: the new underground line was put into service, the cables of the overhead line were removed, as were the pylons. At the end of 2021, 98% of the technical operations have been completed, while the renaturalisation operations and the finalization of the financial operations remain;
 - Diversion of 42kV- 63kV and 150kV [REDACTED] power lines in the Saint-Jean-de-Maurienne basin: in 2021, civil engineering and cable laying operations are completed, and in 2022 the masts and overhead cables will be removed;
 - Diversion of a [REDACTED] power line at the Illaz site (Saint-Julien-Montdenis): the operation was successfully completed in 2021. The line was raised to allow the construction of the ITE (Installation Terminale Embranchée);
 - In 2021, 3 agreements relating to network diversions were signed for an amount of approximately €1,940,000.

ACTIVITY 9 Utilities diversions in Italy

In 2021, both contractual and operational activities were carried out through the implementation of some utility diversions, pursuant to CIPE Resolutions 19/2015, 30 and 39/2018, financed in Construction Lot 1, in accordance with CIPE Resolution 67/2018.

In particular, Executive Design Agreements and works for the utility diversions with the NLTL project have been signed with [REDACTED] for interference with aqueducts and sewers, and with [REDACTED] Chiomonte, for low voltage electrical connections.

Operationally, the planning for the utility diversion of [REDACTED] for the low and medium voltage electricity networks, and [REDACTED] for the telephone and fibre optic networks, in the municipalities of Salbertrand, San Didero/Bruzolo and Torrazza Piemonte, were activated.

Using executive design and the consequent works [REDACTED] jointly with [REDACTED] is diverting the methane gas distribution network in the municipalities of San Didero and Bruzolo for the New Car and Truck Terminal.

The activities carried out by the [REDACTED] to compensate for the wooded areas transformed by the construction site in the Municipalities of Chiomonte, Giaglione and Salbertrand are also nearing completion;

With regard to the utility diversion works, during the year 2021, the following activities were carried out:

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- Within the framework of the agreement with [REDACTED] the final dismantling of the 50 kV "Chiomonte-Susa" overhead line was completed following the activation of the new 15 kV power line connecting the Chiomonte and Susa power plants, thus solving the interference with the NLTL construction site in the municipalities of Chiomonte and Giaglione;
- The utility diversion in the municipality of Torrazza Piemonte was noted with [REDACTED]

ACTIVITY 10 Chiomonte Interchange

• **Motorway junction (CO 04c)**

Most of the areas were handed over to SITAF on 21 December following the signing of the works contract with the [REDACTED] which took place two years after the publication of the call for tenders. The duration of the works is expected to be just over 27 months from the handover to the contractors. The casting of the Bailey Bridge foundations, both on the right and left banks, has been completed. The supply of formwork for the elevated structures (bridge abutments) is currently under way, and work is also under way on the outcrops of the Clarea torrent.

ACTIVITY 11 Relocation of A32 Autoport

• **Site of the San Didero car and truck terminal (CO 02C)**

In April 2021, the construction site in San Didero began for the construction of a new truck and car terminal on an area of approximately 68,000 m² between the A32 and the S.S. 25 del Moncenisio, straddling the municipalities of San Didero and Bruzolo, in the Susa Valley. It is necessary to relocate the current Susa car and truck terminal where facilities are planned associated with the new international railway station on the Lyon-Turin line. The new truck and car terminal will include: an area for a truck station, a parking area for trucks, a service area and a new centralised control post (PCC). The link with the national highway will be provided by a new roundabout, while access from the A32 will be provided by the construction of two inbound and outbound ramps over the motorway. Site preparation activities continue on the site, with work on connections to the electricity and sewage grids and the realisation of the video surveillance and lighting network. The tender for the assignment of the works by [REDACTED] is currently being awarded. The area is expected to be handed over to [REDACTED] by the end of February 2022.

ACTIVITY 12 Relocation of [REDACTED] "safe driving" track

Nothing to report

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ACTIVITY 13 Interconnection tunnel Susa-Bussoleno

Nothing to report

ACTIVITY 14 Electric connection Susa-Venaus

Since 2019, following prescription no 33 of CIPE Resolution no 39/2018, [REDACTED] Chiomonte, [REDACTED] and [REDACTED] have been studied a connection solution to optimise the work of TELT, as part of the creation of an energy hub to serve the territory once the NLTL works will be completed.

After several meetings with the institutions and the Municipality of Chiomonte, acknowledging the Municipality's and [REDACTED] unwillingness to pursue the modification proposed by TELT, TELT confirmed to the high-voltage grid operator, [REDACTED] the request to connect the La Maddalena construction site in order to ensure its power supply, according to the time schedule.

At the same time, TELT agreed to transform the temporary site connection into a definitive one upon completion of the NLTL excavation works, through the construction of a primary cabin in the La Maddalena area, in compliance with the aforementioned prescription no. 33 of CIPE Resolution 39/2018.

ACTIVITY 15 Avrieux shafts

• Avrieux ventilation shafts and underground works from the Villarodin-Bourget / Modane access adit - CO5a

At the Avrieux platform (CO-05a), deep injections continue (approximately 130m) around the shallowest section of the ventilation shafts.

Underground, levelling of the down incline is under way to lower the level of the roadway.

The excavation, carried out using the traditional method for the connection tunnel to the chamber at the foot of the shafts (305m long), reached the 261m stage at the end of January: the advance during the month was 65m (average rate of 2.1m/d).

With the last 2.5-metre sprint, excavation of the spoil storage cavern at the bottom of the shaft was completed (final length 11.80 m)

ACTIVITY 16 Villard Clément cut and Cover

On last November 19, 2021, the first site of the final works of the Mont Cenis base tunnel, Saint Julien Montdenis cut and cover was completed by [REDACTED]

With a length of 85 meters long, it was carried out in 32 months of work in accordance with what had been estimated during the design phase.

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The construction of the structure ended in April 2021 with the pouring of the upper slab. The following months were therefore devoted to the restoration of the RD 1006 pavement which was diverted from August 2019 and whose traffic returned to the normal from August 2021.

Then, during the Science Festival Day 2021 on the first weekend of October the cut was open to the public.

ACTIVITY 17 Electric connection for French Worksites

In 2021, the operations relating to the agreements for the electricity supply of construction sites, necessary for compliance with the general program, progressed specifically:

- Creation of the 63-20kV electrical substation to supply construction site 05 to be commissioned by the electricity operator of Villarodin-Bourget: the work proceeds according to the established schedule and in line with the real needs of Construction site 05.
- Power supply of construction site 08 at the entrance of the tunnel with a power of 5.8 MW: the work is in progress and coordination with the construction site 08 grouping of companies is necessary for the planning of electrical needs.
- Electricity supply for construction site 05a at the Avrieux wells: the works were carried out and delivered by the Avrieux electricity operator in 2021.
- Two PTFs (Technical and financial proposals) were signed with [REDACTED] to determine the terms of the electric railway traction: 2 substations are required, 1 in Saint-Jean-de-Maurienne and 1 in Villarodin-Bourget.

Signing of the 2 PTFs on 08/06/2021. These 2 PTFs cover a period of 15 years.

- In 2021, 4 energy supply agreements were signed for a rounded amount of €5,690,000.

ACTIVITY 18

Not used

ACTIVITY 19 Civil works in Susa plain (o.w.2A)

Nothing to report

ACTIVITY 20 Info point Henry Barrack (o.w.2E)

Nothing to report

ACTIVITY 21 Maddalena-Susa (o.w.3-4)

Nothing to report

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ACTIVITY 22 Maddalena interconnecting Niches (o.w.4A)

• **Chiomonte (CO 03/04)**

- La Maddalena Tunnel: interchange niches (CO 04a)

At the end of December 2021, excavation of the fifth niche was completed, and excavation of the sixth is currently under way (total length 32 m, average rate 3.6 m/d).
Work is also continuing on the roadbed between KP 1+640 and 2+815.
The cumulative total is 184 metres (22% of the 824 to be built).

ACTIVITY 23 Modane and Maddalena (o.w.5)

Nothing to report

ACTIVITY 24 and 25 La Praz-Modane (o.w.6) / Saint-Martin-la-Porte-La Praz

• **Operational Sites CO 06/07: Base Tunnel from the Saint-Martin-la-Porte and La Praz platforms**

The contract was awarded to the [REDACTED] consisting of [REDACTED]
[REDACTED] It will include the excavation of 43.5 km of tunnels (of which 35.8 km of base tunnel) for a planned duration of 5 years and 7 months from October 2021.

Following the handover of the La Praz (CO 06) sites to the consortium in October, work began on the preparation of the reports relating to the state of conservation and the adjacent areas. On 19 January, the conveyor belts from Saint-Martin-la-Porte to Saint-Félix, and the south tube of the tunnel (excavated with a tunnel boring machine) were handed over to the grouping.

The Saint-Martin-la-Porte areas (CO 07) will be handed over to the grouping of companies at the end of the SMP4 works

ACTIVITY 26 Saint-Julien-Mont-Denis (West Entrance)-Saint-Martin-La-Porte (o.w.8)

• **Operational site CO 08: Base Tunnel from the Saint-Julien-Montdenis entrance**

The contract was awarded to the [REDACTED]
[REDACTED] The work will include the excavation of 5.9 km of tunnels (of which 5.7 km of base tunnel), with a planned duration of 5 years and 3 months.

Service Order No.1, which launches the first three purchase orders (100% of the basic contract amount), was notified with effect from 18 October 2021. The first field activities have started: site facilities, office

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extension and installations for the jet grouting test field for the consolidation of the first section of natural tunnel.

ACTIVITY 27 Saint Jean de Maurienne [REDACTED] (o.w.9B)

• Saint-Jean-de-Maurienne (CO 09)

In Saint-Jean-de-Maurienne, where the international station will be built, 50% of the construction of the multimodal exchange hub, and in particular of the temporary passenger building (by the [REDACTED] [REDACTED] has been completed. Commissioning is planned for mid-2022.

Work on the "embankment of the RD906", which includes the creation of the roundabout at the entrance to the village of SJM, has been under way since July 2021 for a planned duration of 9 months. Numerous other civil works are currently under way under contract to [REDACTED] on behalf of TELT), such as the electrical substation, a technical tunnel (already completed) and railway buildings.

After 3 years of activity, the state of progress has exceeded 16%: 13 sites are currently active. Among these is the commencement of construction of the Salto del Montone at pK 3+396, which will allow the New Line to pass over the Historic Line before the bridge over the Arc: the works were given to the [REDACTED] [REDACTED] with an estimated completion time of just under two years.

ACTIVITY 28 Saint Jean de Maurienne (TELT) (o.w.9C)

Nothing to report

ACTIVITY 29 Trimet and villargondran dams (o.w.9D)

• Protective embankments along the Arc river and modification of networks (CO-09d)

The consolidation works of the protective embankments along the Arc river, which had already started in 2019A, in Saint-Jean-de-Maurienne, Villargondran and Saint-Julien-Montdenis were completed.

The contract for lot 2 of this contract, which includes the diversion of the RD1006 and the creation of the corresponding networks, was notified at the end of December 2021 for a duration of 6 months. Work on the construction site is being prepared (the handover of the areas is scheduled for 17 January). There is no activity on the site as of now.

ACTIVITY 30 Arc bridge (o.w.9E)

Nothing to report

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ACTIVITY 31 Management of excavated materials -Italy (o.w.10)

The following principal activities were carried out during 2021:

- The bidding documents for the waste removal tender for areas C and D in Salbertrand (T20) have been prepared. The tender was published on 17/12/2020 with deadline on 04/04/2022. The tender procedure is correctly under way.
- The bidding documents for the CO10 works tender (T13) were finalised and sent to the Applicants on 05/11/2021. The deadline for submission of tenders is 23/05/2022. The tender procedure is correctly under way.
- The first phase of the Executive Plan, including the Land Use Plan, was completed in compliance with CIPE Resolution 39/2018.
- Waste removal works in area A of Salbertrand were completed on time and on budget. Environmental investigations to analyse the soils beneath the heaps were also completed.
- The application to take over the quarry activity at the Torrazza site has been prepared. The Piedmont Regional Authority's Quarry Office issued a positive opinion with a managerial decision on 22/11/2021.

On 01/07/2021, the request for connection to the national railway infrastructure was sent for the Torrazza railway junction. RFI has asked for further project studies which are currently being carried out.

• Salbertrand site (CO 10)

The [REDACTED] has completed the removal of about 46,000 tonnes of waste, earth and excavated rocks from Area A, the area closest to the railway station on the Historic Line.

This area will be the **site for the recycling of excavated materials** from the base tunnel construction site on the Italian side, where the ashlar plant for the tunnel lining will be located.

ACTIVITY 32 Management of excavated materials-France (o.w.11)

• Modane bypass (CO11)

Works located on the first area of the bypass road have begun. It will be used to supply the site and will bypass the city then to reach the A43 motorway and at the same time to allow the removal of the excavated materials.

The excavation works of the RD1006 bypass road, and the roundabout have been stopped half December because of snowfall.

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ACTIVITY 33 Engineering and other costs not included in other OW

Through a multi-year project contract to offer project management support signed with a group of major engineering companies [REDACTED] the Engineering Department provides general technical activities and support to operational construction sites not included in the project management engineering activities or of the implementing companies (executive design).

The main activities in 2021 were as follows:

- External monitoring of the cut-and-cover tunnel works associated with the re-routing of the A43 motorway
- External monitoring of the bidding documents of the 10 and 11 operational construction sites
- Feasibility study for the discharge of seepage water from the French side of the base tunnel into the natural environment (still ongoing)
- Update of the environmental impact study in France, following the concerns of the administrations (still ongoing)- Drafting of the technical specifications concerning topography and geodesy for the redefinition of the geographic and cartographic reference system for the project and for the external control of the base tunnel route
- Support to CO5a construction site for the compliance control of the executive studies and follow-up of the works, with a view to ensuring compliance with the functionality and the requirements of homogeneity of the different lots and maintainability of the project
- General functional studies on the implementation of BIM specifications for the commissioning phase of the executive design studies by construction sites n. 06/07 and 08
- Verification and coordination of the design the preliminary activities of the Executive Project of the construction site implementation Phase 1 and the Land Management Plan of the Italian section (pursuant to art. 33, paragraph 2 of Legislative Decree no. 163/2006 Att. XXI)
- Detailed technical studies on the various operational construction sites in France and Italy, not included in the activities entrusted to the project management.

b) New task during the period of reference

Not applicable