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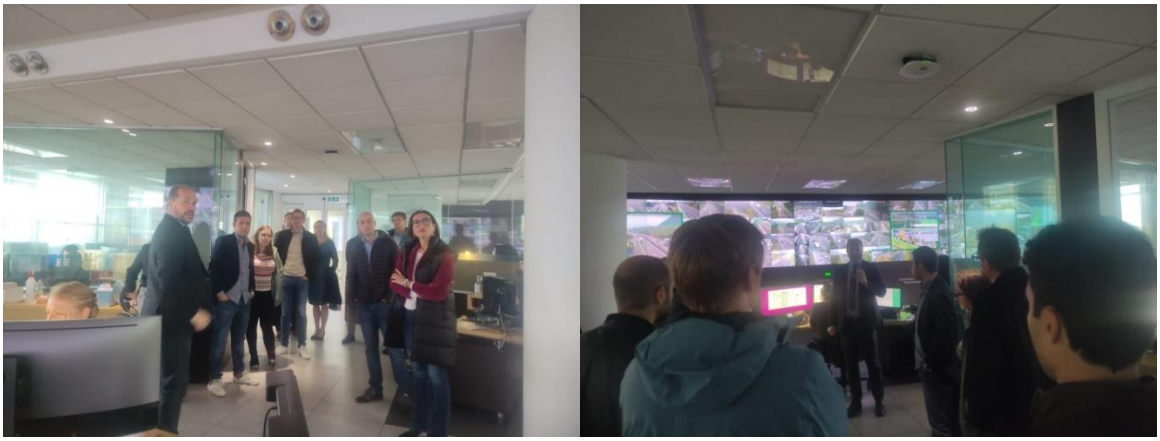
Abstract

On Day 2 of the SCM in Trento, 33 participants visited the premises of Autostrada del Brennero.

The aim of the visit was to give Autostrada del Brennero, the Province of Trento and the Municipality of Trento the opportunity to share their projects.

To optimize the time available for the visit and to allow a better management of the activities, the participants were divided into two groups. Each one was able to enjoy the same experience, but at different times.

One experience consisted in the visit of the A22 Traffic Control Center, where participants had the chance to interact with specialists, addressing their questions directly.



The A22 control room, called CAU, is located near to the tollgate of Trento Centro and consists of two distinct divisions: a Traffic Control Center (TCC) and a Traffic Information Center (TIC). Through optic fibers, radio links and telecommunication cables it receives images from 230 CCTV cameras: 150 are dedicated to traffic control, 67 to AID monitoring inside tunnels while 13 are linked to the website (webcams). It is also connected to 403 SOS call boxes and 25 weather stations. In this way it obtains information in real time about: traffic, weather conditions, visibility and requests for rescue services. The staff of the control room consisting of 1 assistant and 21 operators works on shift to manage information and coordinates the interventions of the road assistance staff 24/7. The road assistance staff are widely distributed along the entire motorway and have the main task of providing users with assistance where necessary and signalling queues, roadworks and road disruptions. They also support the actions of the traffic police and transmit warnings to the other emergency services (road emergency service, ambulance service and the fire fighters) and to travellers via dedicated radio channels: variable message signs (VMS), radio, website and the app.

The second experience consisted in the presentation of two Meridian activities.

The first presentation, titled "**Overview of the Activities Implemented in MERIDIAN**," began by outlining the project's goal: to create a digital infrastructure that collects mobility data from motorway concessionaires and various transport services in surrounding areas. The project also aims to enable third-party services by providing open data and services on mobility. This initiative seeks to construct a digital European motorway corridor, unifying infrastructures and services from diverse geographical, national, and cross-border areas.

The project’s roadmap consists of three phases:

1. Analysis of the logical system architecture, stakeholder and data identification, and quality assessment of the data (commissioned in Q4 2021 with analysis ending in Q4 2022).
2. Design, development, testing, and deployment of OpenMove Road & Traffic Manager and OpenMove Nucleus (commissioned in Q3 2023 with analysis completed by Q1 2024).
3. Design, development, testing, and deployment of the control and management dashboard (OpenMove ATLAS) and the Road & Traffic Portal (commissioned in Q2 2024, with an estimated completion by Q3 2025).

Phase 1 focused on stakeholder and data engagement, while Phase 2 revolved around developing the system architecture. The benefits of the project include an API layer that allows third-party services to utilise open data and services, facilitating future evolutions to meet the needs of users, the market, and regulators. The project's future potential includes:

- Toll booths serving as intermodal hubs
- Support for Autonomous Vehicles (AV)
- ITS for KPI measurement
- Fusion of multiple transport modes
- Development of a data marketplace

The next step is to develop the ROAD & TRAFFIC Portal, a web app available to users for viewing data on a map and searching for travel solutions using an intermodal trip planner powered by the collected data. Features of the portal will include:

- Data visualisation on a map
- An intermodal trip planner incorporating various data types (DATEX II, GTFS, NeTEx)
- Two parallel routing engines (OTP and OSRM) for effective intermodality
- Customisable travel solutions
- Sorting based on predefined KPIs

The project will also develop a Management Dashboard, available to all stakeholders. This dashboard will enable data management and provide governance over the digital layer. Key features will include:

- Management of API access by authorised entities
- Control and monitoring of API usage
- Report generation
- Data management capabilities.

The second presentation focused on the "**Detection of Critical Traffic Situations, Provision of Information, and Warnings to Users on the Road Network of the Autonomous Province of Trento**." This initiative, known as "Viaggiare in Trentino," is part of the broader "Digital Corridor Management" project. It is designed to collect and share real-time information on traffic disturbances that may lead to congestion or slowdowns within the Province of Trento. The information is disseminated to road users through multiple channels, including radio announcements, TV bulletins, and a dedicated website.

The main routes covered by the service include the Brenner Corridor (North-South), local traffic routes, and major tourist routes, particularly during peak summer and winter seasons. The services provided by the Servizio Gestione Strate (Strategic Management Service) include information on roadworks, traffic restrictions or closures, accidents, other emergencies, and heavy or critical traffic conditions.

"Viaggiare in Trentino" connects its users via its website (www.viaggiareintrentino.it), radio announcements, TV bulletins, and Variable Message Signs. The latest contract for this service, spanning from 2023 to 2026, was activated on September 27, 2023, with the previous contractor being reappointed. This ensured continuity of service and the timely activation of new services proposed by the contractor.

The service's previous 2021-2023 contract covered the collection, processing, and broadcasting of traffic information, hourly traffic and road construction bulletins, live webcam feeds, management of VMS, weather updates, public transport timetables, and the sharing of traffic data with platforms like Google, Garmin, and TomTom.

The new 2023-2026 contract includes these same services, with several additional features such as:

- Enhanced webcam coverage in critical road sections
- The ability to purchase train and bus tickets
- Real-time localisation of car parks in urban centers, including information on available parking spaces (where possible)
- Expanded coverage of traffic conditions along the Brenner corridor
- Website and bulletin services in both English and German

The objectives and expected outcomes of the new system include a potential reduction in traffic congestion and slowdowns on the provincial road network due to more widespread and accessible information. This, in turn, is expected to lead to fewer car accidents, increased use of public transportation, and shorter travel times along the Brenner corridor by improving the availability of traffic information and offering users alternative routes.

In terms of partnerships, "Viaggiare in Trentino" plays a key role in promoting public transportation and encouraging the use of the cycle path and pedestrian network supported by the Autonomous Province of Trento.

The newsletter with information about the site visit can be found at: www.meridian-corridors.eu.

On-Site Visit in Trento, 2nd of October 2024			
No.	Name	Surname	Signature
1	Adamo	Ferro	
2	Alberto	Cozzi	
3	Alberto	Lenisa	
4	Alberto	Milotti	
5	Andrea	Minardi	
6	Andrea	Steccanella	
7	Antonio	Raimondo	
8	Björn	Siebert	
9	Clara	Rybin	
10	Fabian	Telch	
11	Francesco	Magagnoli	
12	Francesco	Meini	
13	Francesco	Varone	
14	Gillian	Freeney	
15	Henri	Schlüter	
16	Hubert	Hartl	
17	Ilaria	De Biasi	
18	Ivano	Toni	
19	Jean	Walravens	
20	Liesma	Grīnberga	
21	Lorenzo	De Conca	
22	Luca	Leonelli	
23	Mais	Swaf	
24	Margit	Kuuse	
25	Maria	Lacaria	
26	Michele	Bonistalli	
27	Mirko	Vindimian	
28	Nil	Mudul	

On-Site Visit in Trento, 2nd of October 2024			
No.	Name	Surname	Signature
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30	Peter	van Dop	
31	Ross	Foley	
32	Simone	Pacciardi	
33	Stefano	Terribile	
34	Stephanie	Kleine	
35	Tibor	Molnar	
36	Vladimirs	Remesovs	
37	KEVIN	LAMO	
38	DAVID	TAMANINI	
39	ANTONIO	CASTAGNA	
40	ANDREA	SEGNALINI	
39	ALESSIA	MARCOLINI	
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