

Cooperation between ITS corridor projects

Cross-corridor cooperation in the TEN-T network at a glance



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Agenda

- Presentation of the individual projects
 - X4ITS
 - MATIS
 - SCALE
 - MERDIAN
- Collaboration with NAPCORE & C-Roads
- Practical examples of collaboration
- Open discussion



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X4ITS – Central Europe Cross border Cooperation for ITS

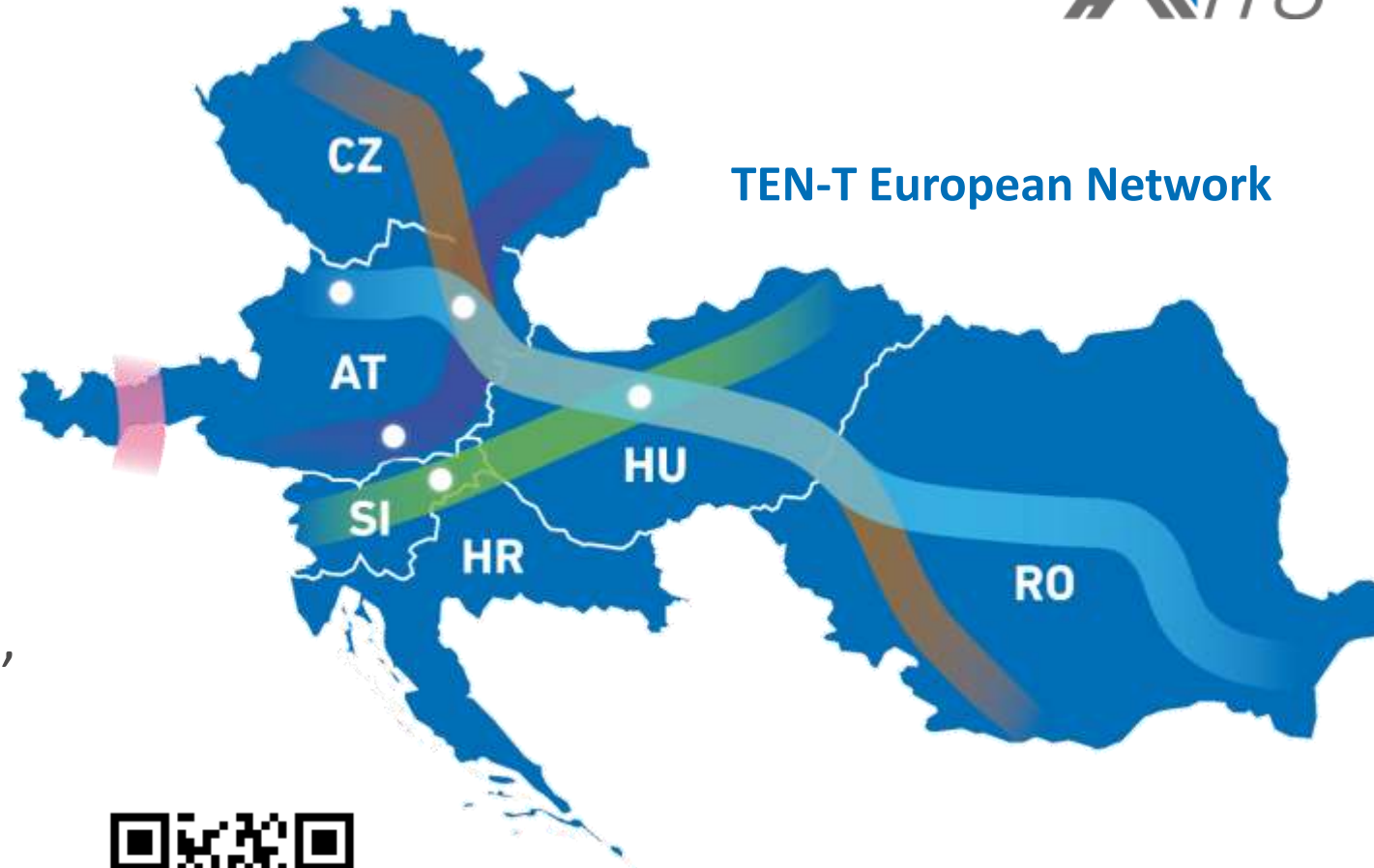
ITS European Congress 2025

Presented by Damaris Gruber

About X4ITS



- Call CEF-T-2022 SIMOBGEN
 - Follow up of CROCODILE
- Runtime 2023 - 2027
- Budget 64.5 Million €
 - EU contribution 50%
- 6 Member States – 28 Partners
 - Austria, Croatia, Czech Republic, Hungary, Romania, Slovenia




x4its.eu



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ASFINAG

 Bundesministerium
Innovation, Mobilität
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 INSTITUT FÜR TECHNOLOGIE
UND ALTERNATIVE MOBILITÄT


KLAGENFURT
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Klagenfurt
mobil

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SURAAA
Smart Urban Region Austria Alps Adriatic

 LAND
SALZBURG

 VERKEHRS-AUSKUNFT
ÖSTERREICH

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A DÁLNIC

oltis group

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ÉRTESÉSI ÉS KÖZLEKEDÉSI
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Hungary


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Romania



X4ITS
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DARS Slovenia



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City of Ljubljana

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CESTE

 HRVATSKE
AUTOCESTE

BIMA istra

AZM



REPUBLIC OF CROATIA
Ministry of the Sea, Transport
and Infrastructure

Objectives

*Overall goal: improved cross-border **cooperation**, deployment project*

- Improve **cross-border** traffic and transport
- implementing **harmonised and synchronised** ITS applications (high level road network)
- Increased focus on secondary road network and multimodality
- Availability of data and optimized **data exchange**
- Implementing C-ITS use cases in urban areas linked to high level road network



WP 1 Project management, communication and cross-corridor cooperation

WP 2 Cross-border cooperation, TMP maintenance and improvement

WP 4 Data access and collection

WP 3 Link to secondary road network, multi-modal/urban nodes and usage of C-ITS

WP 5 Service delivery to end-users and safety-related services implementation

WP 6 Impact assessment and service evaluation

Outcomes



Planned installation of
Roadside Units

108



Planned implemented or
replaced Variable Message
Signs

200



Planned implemented or
replaced CCTV cameras

724



Planned installation of
Onboard Units

50



Planned kilometres of
TEN-T roads equipped with
roadside data collection
equipment

1,138

Planned kilometres of
secondary roads equipped
with roadside data
collection equipment

643



Planned multimodal or
urban hubs equipped with
digital infrastructure

5

Planned kilometres of
secondary road network
equipped with digital
infrastructure

50

Cooperation



- Close contact to organisations and cities in the project
- Cooperation with other corridor projects (MERIDIAN & MATIS):
 - MoU between all three corridor projects
 - Joint workshop and presentations at NAPCORE Mobility Data Days 2024 & 2025
 - Presentation of MERIDIAN and MATIS at the last X4ITS SCOM (10.04.2025)
 - Regular cross-corridor meetings every quarter
- Consideration of C-Roads specifications / inclusion of X4ITS use cases at C-Roads user meetings
- Consideration of NAPCORE recommendations regarding requirements for NAP upgrade



Linked In



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Stay in Touch

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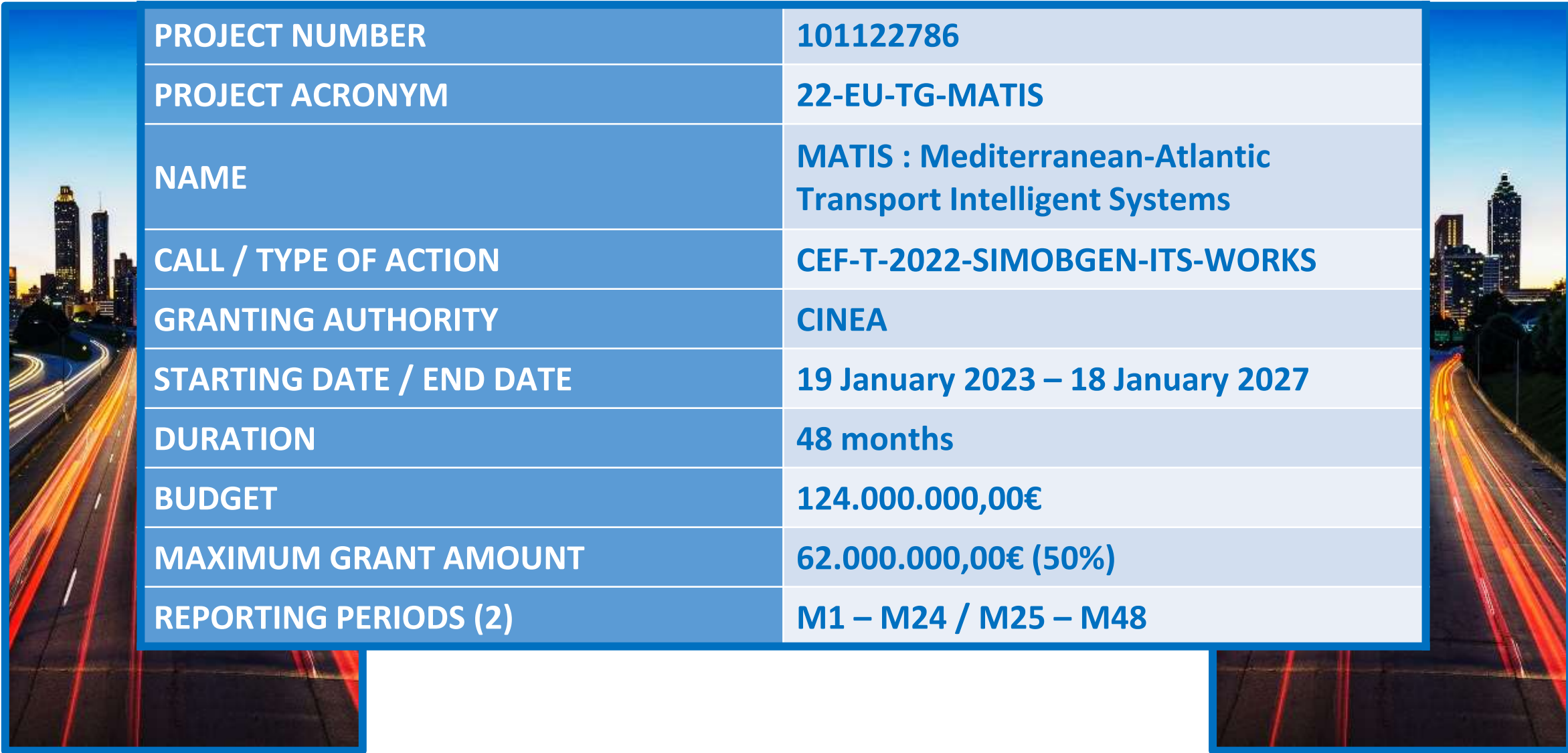
SUSTAINABLE AND SMART MOBILITY
FOR MEDITERRANEAN ATLANTIC ARC

ITS European Congress 2025

Alessandra Pipitone Federico

- 1 – MATIS Identity Card**
- 2 – History & Partnership**
- 3 – Key figures & Expected Impacts**
- 4 – Tasks**
- 5 – C-ITS projects**





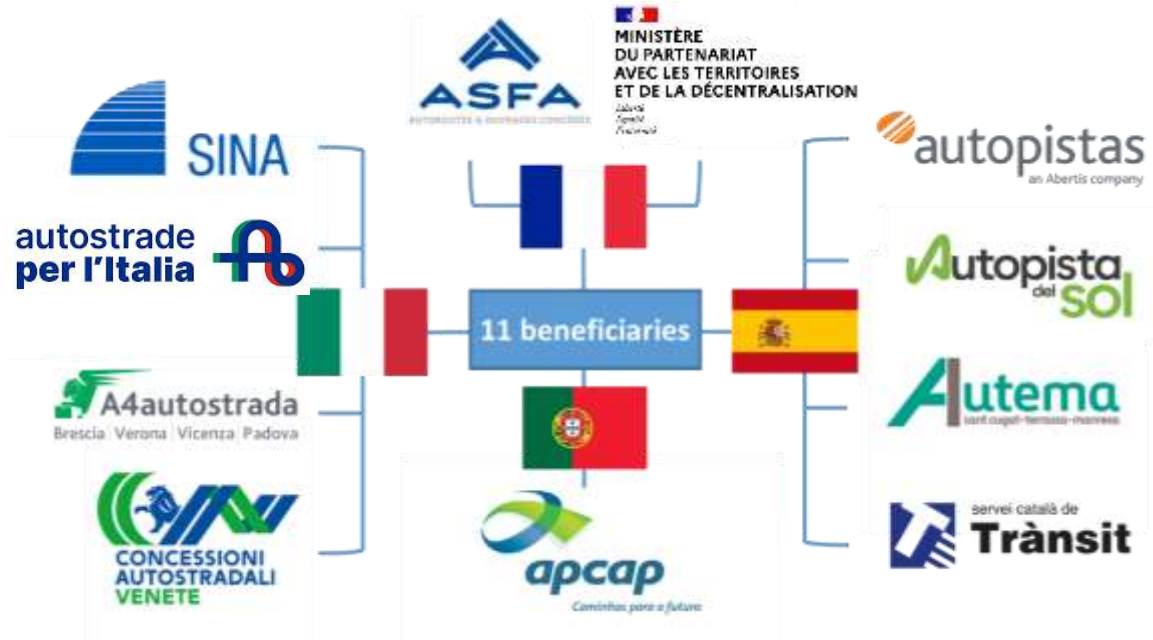
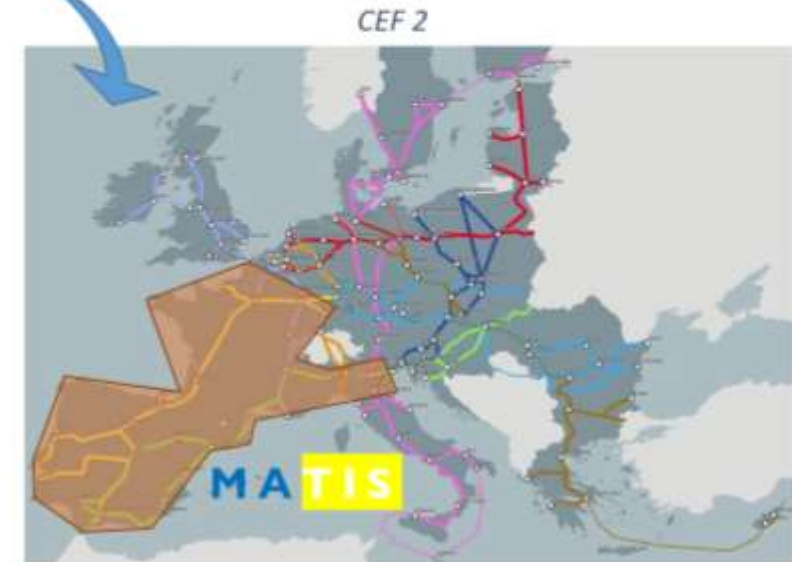
PROJECT NUMBER	101122786
PROJECT ACRONYM	22-EU-TG-MATIS
NAME	MATIS : Mediterranean-Atlantic Transport Intelligent Systems
CALL / TYPE OF ACTION	CEF-T-2022-SIMOBGEN-ITS-WORKS
GRANTING AUTHORITY	CINEA
STARTING DATE / END DATE	19 January 2023 – 18 January 2027
DURATION	48 months
BUDGET	124.000.000,00€
MAXIMUM GRANT AMOUNT	62.000.000,00€ (50%)
REPORTING PERIODS (2)	M1 – M24 / M25 – M48

2 former projects:

- Arc Atlantic I & II
- MedTIS 1 & 2



CEF 1



39 partners:

- 11 beneficiaries
- 28 affiliated entities

3 – KEY FIGURES & EXPECTED IMPACTS

8.000km of the TEN-T
core network and
10.000km of the
comprehensive network

4 countries
France, Italy, Spain
and Portugal

89 ITS individual
projects

3 TEN-T corridors:
Mediterranean,
Atlantic, North-Sea
Mediterranean

3.000km deployed on TEN-T
network enhancing road
safety

10.000km deployed on
TEN-T network reducing
congestion and thus
contributing to
decarbonize road traffic

3.500km deployed on
TEN-T network
enhancing traveler
information services

3.000km deployed on
TEN-T network
enhancing operations
and securing service
delivery

3 % reduction of lost hours
for road users during
congestion on main
strategic bottlenecks of the
corridor (considering the same level of traffic along
time)

3 % reduction CO2
emissions on main
strategic bottlenecks
of the corridor
(considering the same level of traffic along time)

TRAFFIC MANAGEMENT SERVICES AND TRAFFIC MANAGEMENT PLANS, INCLUDING CROSS-BORDER PLANS

- 1.New equipment for data capture and traffic control
- 2.New intelligent vehicle tracking systems, speed detection systems and traffic counting systems
- 3.New intelligent tools and software for assisting TMC operators in simulating, predicting travel time and monitoring traffic flows and level of service
- 4.Field traffic management systems and equipment

USER SERVICES AND INFORMATION

- 1.Enhancing national data exchange and access points for data
- 2.Web portal and App for traffic and travel information
- 3.New generation field equipment for traffic information

ROAD SAFETY

- 1.Advanced incident detection systems, including ghost vehicles detection
- 2.New hazardous goods tracking systems
- 3.New dynamic control systems for measuring weight of vehicles
- 4.New dynamic control systems for measuring height of vehicles
- 5.ITS equipment to enhance tunnel safety
- 6.Detection systems of weather conditions for increased safety
- 7.Equipment for increased safety in a sensitive section
- 8.New generation SOS services

OPERATIONS AND SECURING SERVICE DELIVERY

- 1.Systems for supervision, remote control and data acquisition
- 2.Cybersecurity for ITS systems protection
- 3.High performance IT network for increased ITS resilience
- 4.New generation radio communication systems

C-ITS DEPLOYMENTS TOWARDS THE CONNECTED AND AUTOMATED MOBILITY

- 5 C-ITS projects deployed on very high level of traffic networks in Portugal and Italy
- Project 154:
 - North of Italy
 - Over 100 KM
 - A new high speed telecommunication network (ITS G5/5G solutions)
 - More than 150 RSUs deployed
 - A V2X solution acting as an integrated system based
 - A full CCTV system to monitor the whole system's operation, (infrastructure and user's needs / behavior)
 - An agreement with a car manufacturer.
 - In link with the use cases indicated by the C-ROADS platform.

For what purpose?

- To better know the traffic flow and motorists behaviour in all circumstances and react in a prompt and a right way
- To improve the users safety by delivering a high quality road information to the only vehicles concerned , at the right place and at the right time.
- To adapt the infrastructures to the new mobility requests from travelers and to the delivering of innovative services for road users and operators
- To communicate with the new generation connected vehicles, but also with a view to making it possible to use the most advanced levels of automatic driving assistance

- Joint declaration with X4ITS (signed in November 2024 in Turin)
- Joint declaration with MATIS (signed in November 2024 in Turin)
- Ongoing discussions with Napcore for the signature of a joint declaration
- MoU between all the corridor projects
- Joint workshop and presentations at NAPCORE Mobility Data Days 2024 & 2025
- Presentation of MATIS at the last X4ITS SCOM (10.04.2025)
- Regular cross-corridor meetings every quarter
- Cooperation and coordination on the evaluation methodology (cross-corridor workshop organized by MATIS on the 11/06/2025)
- Invitation sent to all the corridors to join MATIS SCOM (10-11/6/2025) in Barcelona



THANK YOU !

Coordinator (ASFA): Alessandra PIPITONE FEDERICO alessandra.pipitonefederico@autoroutes.fr

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SCALE

Strengthening C-ITS Adoption and Lining-up across Europe

SCALE IN A NUTSHELL

SCALE

Strengthening C-ITS Adoption and Lining-up across Europe



**70
BENEFICIARIES**



**20
ASSOCIATED
PARTNERS**



**4
MEMBER
STATES**
France, Italy, Spain,
Graz (+ Hungary)



**10
PILOT SITES**



DURATION
52 months
09/2024 – 12/2028



**TOTAL
BUDGET**
77 millions €

SCALE PARTNERS

NATIONAL AUTHORITIES



RESEARCH & STUDIES



INDUSTRIAL PARTNERS



LOCAL AUTHORITIES



MOTORWAY COMPANIES



PROJECT OBJECTIVES

The overall objective of SCALE project is to address the remaining challenges that hamper the industrialization of the C-ITS ecosystem in Europe and thus contribute to the implementation of large-scale operational deployment, the extension of the geographical coverage and the achievement of C-ITS continuity

- o)) **Technological challenge:** C-ITS are currently experiencing different kinds of complementary but also competing communication technologies and architectures. This competition fosters the uncertainty of investment by public and private stakeholders. SCALE aims at addressing this issue by working on technical evaluation for each new use case, so to find the best technologies and architectures to better answer the stakeholders' and end-users' needs.
- o)) **Operational challenge:** SCALE aims to address the operational topics to level the services by building a framework for the set-up of operations, which involves working on production launch processes and operational compliance, working on the maintenance topics and their consequences
- o)) **Socio-economical challenge:** SCALE will help the discussions between the stakeholders to find business models that allow the deployment of valued-added services while taking into account the important investments of the different stakeholders, the idea being to find a costs-benefits balance for each of them.

IMPACTS OF THE PROJECT

2000

Vehicles equipped
by the French
Ministry of
Transport

100

Vehicles equipped
by the French
Ministry of Home
Affairs

100

Vehicles equipped
in Spain

100

Road-side units
deployed /
updated in France

45

Road-side units
deployed /
updated in Italy

330

Road-side units
deployed /
updated in Spain

40

Road-side units
deployed /
updated in Graz

50

Connected traffic
lights deployed in
Graz



THANK YOU

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marie-christine.esposito@developpement-durable.gouv.fr



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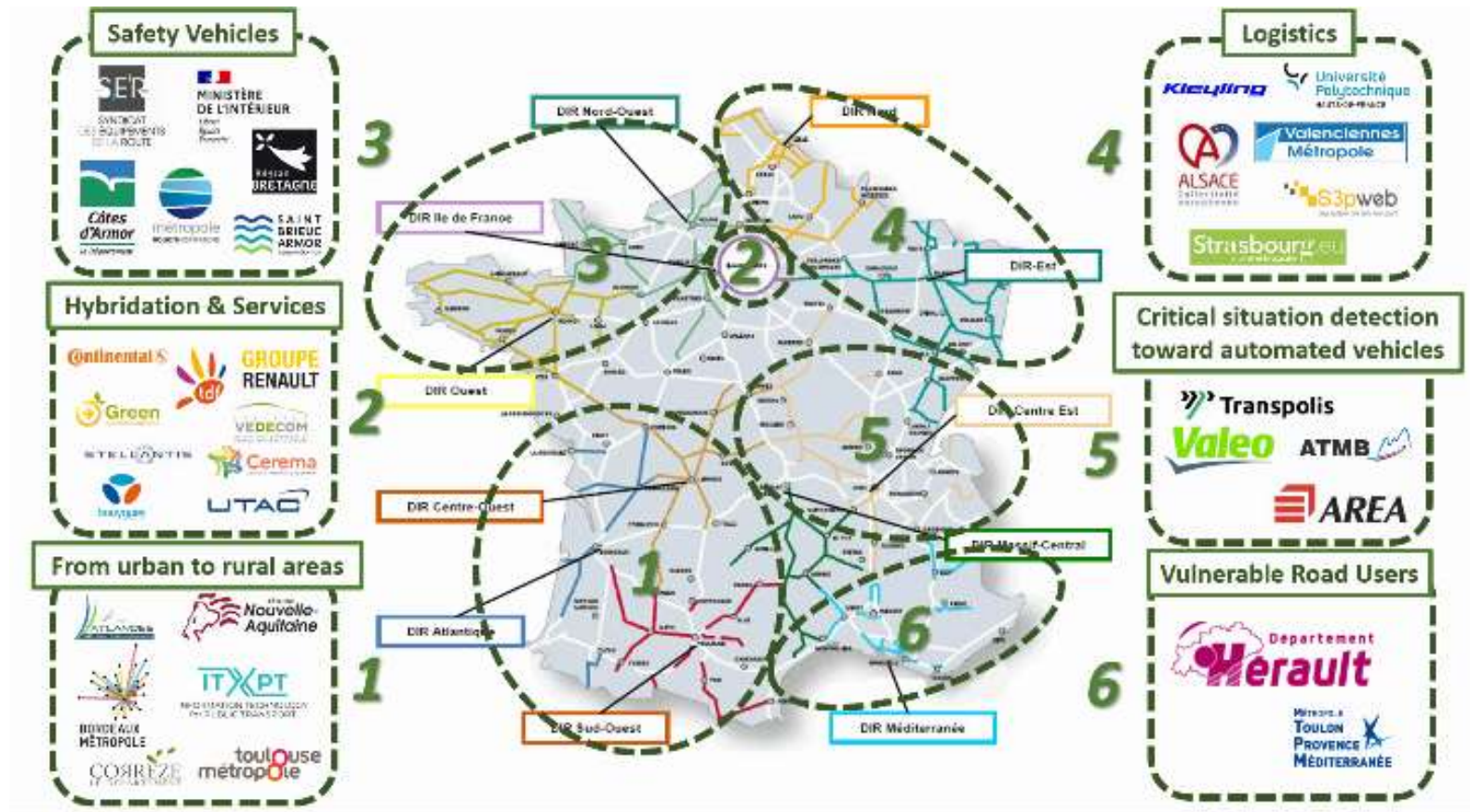
EXAMPLES OF USE CASES

-)) **Dedicated lanes for public transport** in cities and ring roads to ensure punctuality in urban nodes
-)) **Connected intersections** giving signal priority to emergency and public transport vehicles and securing vulnerable road users
-)) **GLOSA (Green Light Optimal Speed Advisory)** to reduce emissions and enhance comfort
-)) **Smart level crossings** that alert drivers and train operators of stopped vehicles
-)) **MaaS-type (Mobility as a Service) solutions and new user services** (e.g., schedules, park & ride info) to encourage modal shift in low-emission zones
-)) **Onboard incident logbooks** for operators to document accidents, share alerts with nearby vehicles and emergency services, and coordinate from traffic control centers

THE 10 SCALE PILOT & OPERATION SITES

6 Pilote and Operation Sites in France:

- » South-East : Vulnerable Road Users
- » South-West : From urban to rural mobility
- » North-West : Safety vehicles
- » Paris Region : Hybridization & Services
- » North-East : Logistics
- » Center-East : Critical situation information from/to AV



THE 10 SCALE PILOT & OPERATION SITES

2 Sites in Italy:

Urban areas new use cases (with Verona, Torino & Trento):

- Modal transfer information
- Process optimization for logistics use cases
- Terminal slot request and assignment for heavy vehicles
- I2V information on traffic management and parking information
- RWW Mobile - Extensive work zone
- Urban logistic
- Emergency or Rescue/Recovery Vehicle in Intervention

Motorways new use cases:

- Modal Transfer Information
- Terminal slot request and assignment for HDT
- Process optimization for logistics use cases

Extension of existing new services/use cases

Use Cases	Torino	Trento	Verona
HLN – Emerg. Veh. Appr.			
HLN – Emerg. Veh. Interv.			
HLN – Traff. Jam ah. Warn.			
RWW – Road/Lane closure			
IVS – Free Text			
PVD – Event Data Collect.			
SI – GLOSA/TTG			
SI – Traff. Light Priority			
Vulner. Road User Protect.			
On Street PKG Managem.			
Off Street PKG Info			
Traff. Info & Smart Routing			

New services/use cases*

Use Cases	Torino	Trento	Verona
HLN – Stationary Veh.			
HLN – Accident zone			
HLN – Weath. cond. Warn.			
HLN – Temp. Slippery Road			
HLN – Anim/Pers on the R			
HLN – Alert Wrong Way Dr.			
HLN – PT Veh at a stop			
RWW – Winter Mainten.			
IVS – Traffic Signs			
PVD – Veh. Data Collection			
SI – Emergency Veh. Prior.			
AVG – SAE Level Guidance			

Service extension
 Incl. up-grade / new release
 New in city
 * excl. intermodal

THE 10 SCALE PILOT & OPERATION SITES

1 Site in Spain, divided in 4 areas:

Galicia-Norte

Madrid

Pais Vasco

Catalunya

114 RSUs and 35 OBUs

35 RSUs and 10 OBUs

50 RSUs and 50 OBUs

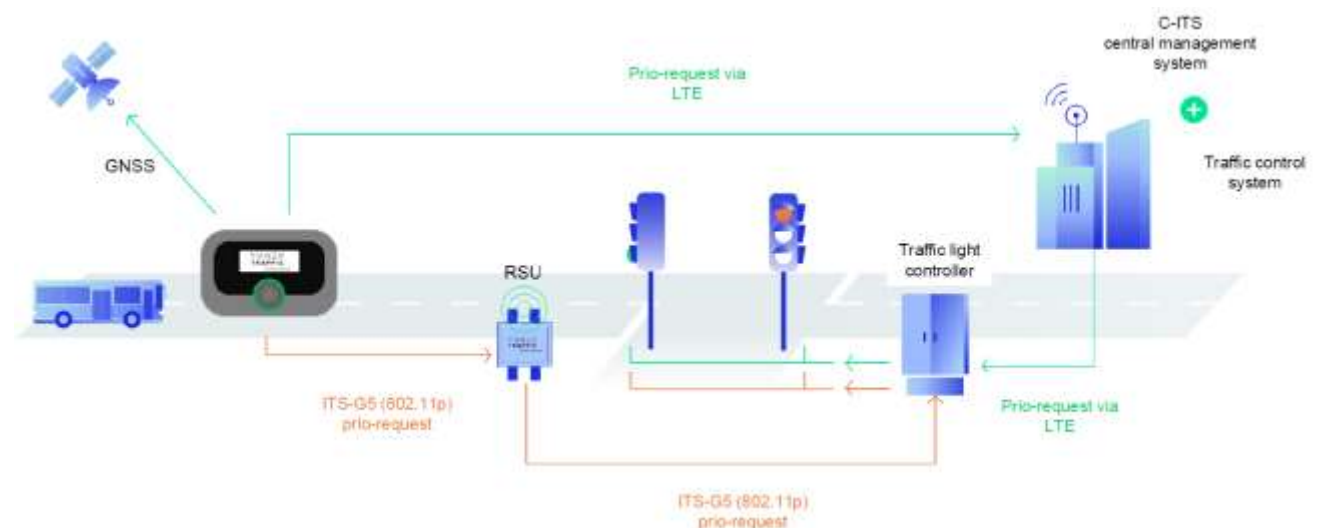
135 RSUs and 7 OBUs



THE 10 SCALE PILOT & OPERATION SITES

1 Site in the city of Graz (Austria) with the following use cases :

- » Signal phase and timing information
- » Traffic condition (central based message control)
- » Railway level crossing
- » VRU / Right turn assistant
- » Virtual traffic light
- » Public transport prioritisation
- » Support for automated vehicles



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- Practical examples of collaboration
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MERIDIAN





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- ▶ Facts & Figures
- ▶ Achievements
- ▶ Outlook 2025
- ▶ Visit us



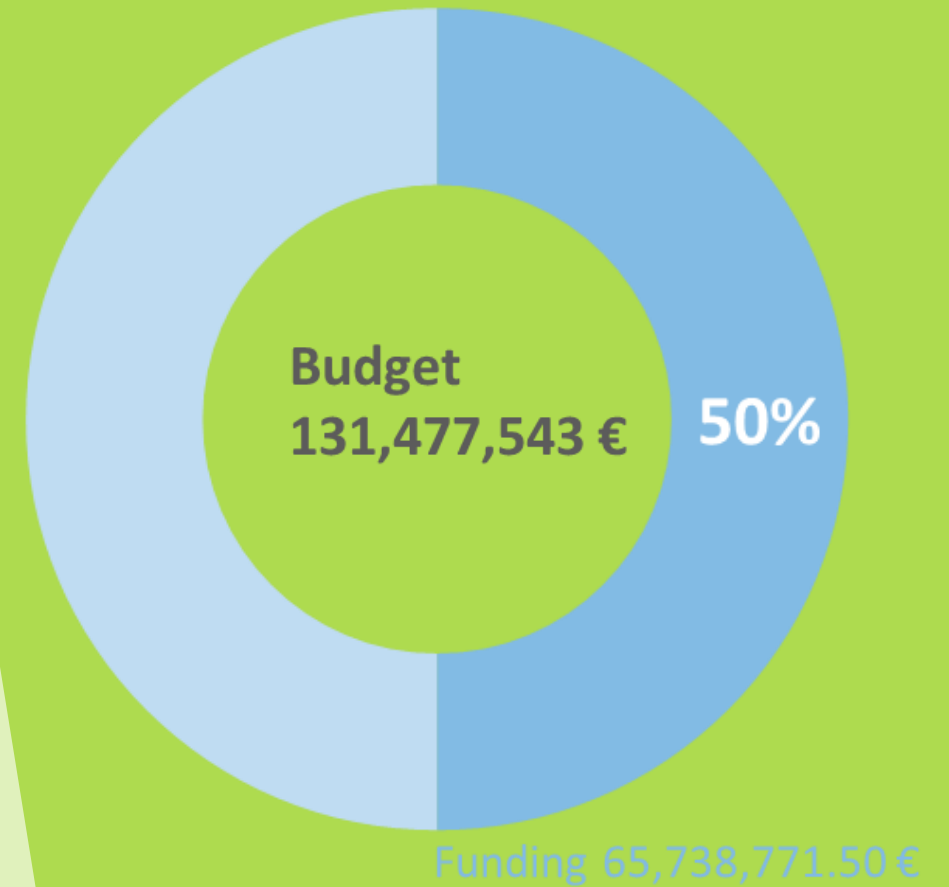
25
Partners

36
Projects

5 years

01/01/2021 to 31/12/2025

Facts & Figures



Introduction

Facts & Figures

Achievement 1

Achievement 2

Achievement 3

Outlook

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Achievement



- Despite initial setbacks caused by the coronavirus pandemic and global supply chain disruptions, [the rollout of Road Works Warning Trailers \(RWW\) equipped with C-ITS](#) has gained impressive momentum.
- The milestone of the 1,000th C-ITS equipped RWW was celebrated with an official handover to the road maintenance departments.
- Looking ahead, [the Autobahn GmbH](#) is accelerating further, with plans in motion to deliver [at least another 1,000 RWWs](#).
- These innovative units are now strategically positioned along Germany's TEN-T corridors and major motorways, [enhancing road safety and connectivity](#).



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Achievement 1

Achievement 2

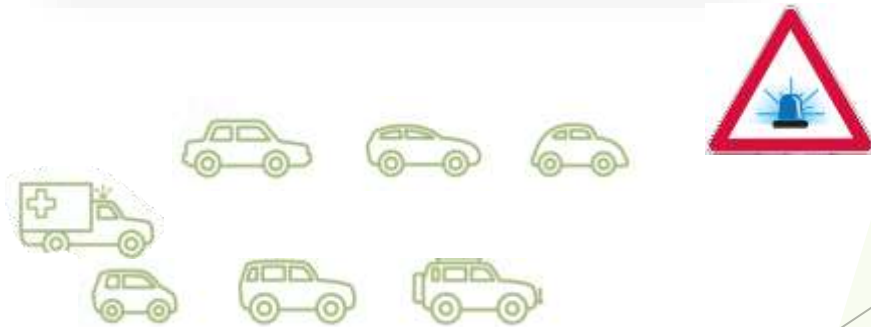
Achievement 3

Outlook

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Achievement

- Successful completion of Task 'Safety Priority System - I2V data provision for in-car warnings' with an Event in Amersfoort, NL
- Real-Time In-Car Safety Alerts
- Emergency Vehicle Communication
- Seamless ITS Integration
- Cross-Sector Collaboration
- Innovative Traffic Management
- Euro NCAP & Policy Shifts
- Future-Ready smart infrastructure

The Netherlands Leading the Way

Full deployment in ambulances, fire trucks & more. Plus Future-Ready Infrastructure incl. smart systems transforming road experiences

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Achievement

- In 2023, the **Smart Cycling** working group kicked off its mission, led by MERIDIAN's partner **MUNV NRW**.
- Collaborating with the **Interreg project MEGABITS**, MERIDIAN explored the exciting potential of **ITS in cycling**—leading to the creation of the **Smart Cycling Roadmap**.

Curious to see how ITS can revolutionize cycling?

Join us on [May 20 / 16:15](#) at the [Commission's booth](#) for an insightful presentation on **Smart Cycling in MERIDIAN** and the groundbreaking **Smart Cycling Roadmap**, brought to you by MERIDIAN and MEGABITS.

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Month	Event & Location	Topics
March	Event “Experience the latest in road safety”, NL	Meeting the C-ITS experts of MERIDIAN Part3 -Safety Priority Services-
ongoing	Experts’ Workshops	TMP exchange in the Brennero corridor - DE,IT,AT,(CH)
May	Event “ITS Congress” Seville,Spain	Presenter / Booth EC “Corridor Session”
May	Event “Steering Committee Meeting” Seville, Spain	Working groups & project administration
June	Event “Transport&Logistics” Munich,Germany	Multimodal - Digitalization of ports and freight transport
June	Experts’ Workshop Knowledge Building	Cybersecurity in Mobility
June	Event “Matis SCOM”	Presenter & Participant Evaluation Workshop
July	Event “C-ITS & urban nodes” Amsterdam, NL	Meeting the C-ITS experts of MERIDIAN -TCC-
Oct	Event “Steering Committee Meeting” Utrecht, NL	Working groups & project administration
Oct	Event “Smart Cycling Summit” Brussels, Belgium	Roadmap Smart Cycling
Nov	Experts’ Workshop Multimodal Services	C-ITS & Multimodal Services
ongoing	Expert’s Workshop Smart Cycling	Smart Cycling

Visit us.



- *For more information and engagement, please visit www.meridian-corridors.eu and/or contact us via info@meridian-corridors.eu*

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Collaboration with C-Roads

Fostering Harmonised C-ITS deployments across Europe

Collaboration of X4ITS, MATIS, Meridian, SCALE, C-Roads Germany Phase 3, and C-Roads Austria 3 with the European C-Roads Platform: commitment to use C-Roads Specifications and to provide feedback for possible improvements.

Date: 20th of May 2025
Time: 12:45 – 13:15
Location: EC booth, ITS Europe Seville

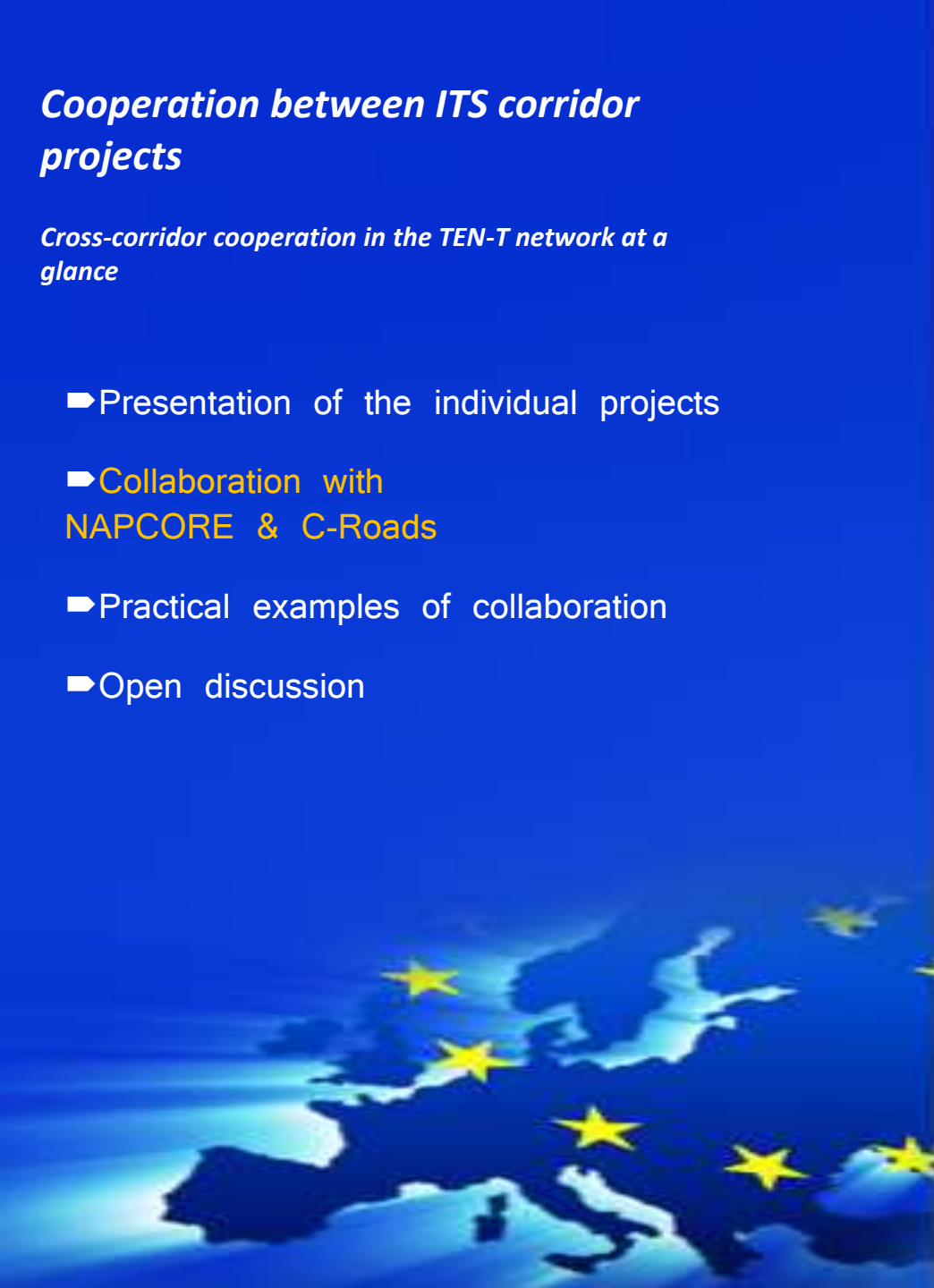


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Collaboration with NAPCORE



NAPCORE & Corridor Projects

- Member State coordination for implementing the ITS Directive
- Recommendations for harmonizing National Access Points and National Bodies
- Common work on data accessibility and usability
 - mobilityDCAT-AP
 - Data exchange standards
 - Data quality frameworks
 - Data dictionary
- Topic related community management
- NAPCORE academy & training

National Access Point Coordination Organisation for Europe

- Active since 2021
- EC funded via Connecting Europe Facility (CEF), 2021-2025-2027, 14 Mio € & 11 Mio €
- All Member States and further countries
- Stronger focus on multi-modal mobility & engagement of cities and regions



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Practical examples of collaboration





X4ITS & NAPCORE Cooperation – practical example

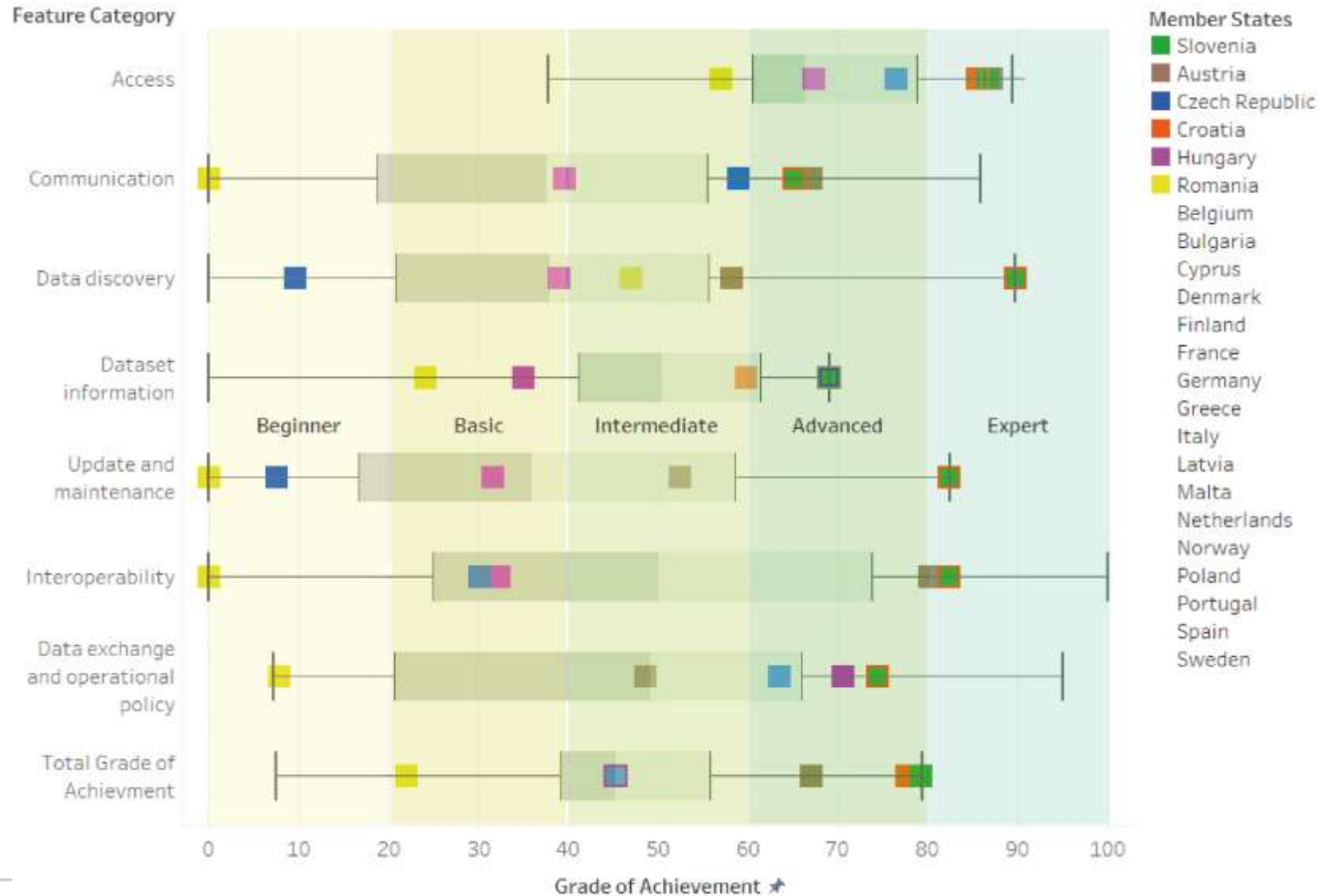
Uptake of NAPCORE recommendations
for X4ITS implementations

National Access Points

- Facilitate access, exchange and reuse of transport related data
- Support the provision of EU-wide interoperable travel and traffic services
- Implementation of delegated acts adopted under Directive 2010/40/EU
- Various forms possible: database, data warehouse, data marketplace, repository, and register, web portal or similar
- Harmonisation through „The National Access Point Coordination Organisation for Europe“ (NAPCORE)
 - Development of recommendations for interoperability
 - Data standard harmonisation
 - Expansion of availability and access of mobility related data



NAP Level of Service of X4ITS Partners



X4ITS 2nd Technical Workshop 9th April 2025



Learnings

- Every NAP is facing similar problems – mostly related to implementation
- Dedicated staff supporting the NAP in a structured and formal way could be helpful
- National Bodies and National Access Points can be under single organisation
- Organisation of NAP-conferences supports harmonized implementation
- Patience and persistence is needed when operating a NAP



X4ITS 2nd Technical Workshop 9th April 2025



Recommendations for data providers

- Increased **accessibility** of **high-quality** data
- Harmonisation of data **structure**
- Automated and **regular upload** of data to the NAP

Recommendations for the interface of NAP

- Harmonised user-friendly **look and feel**
- **Simpler registration** for data providers
- High-performing **searching tool**



X4ITS 2nd Technical Workshop 9th April 2025



Recommendations for the NAP operator

- Standardised data evaluation and authorization
- More involvement and information for stakeholders
- Joint efforts and close communication of all NAPs
- NAP upgrades according to NAPCORE recommendations



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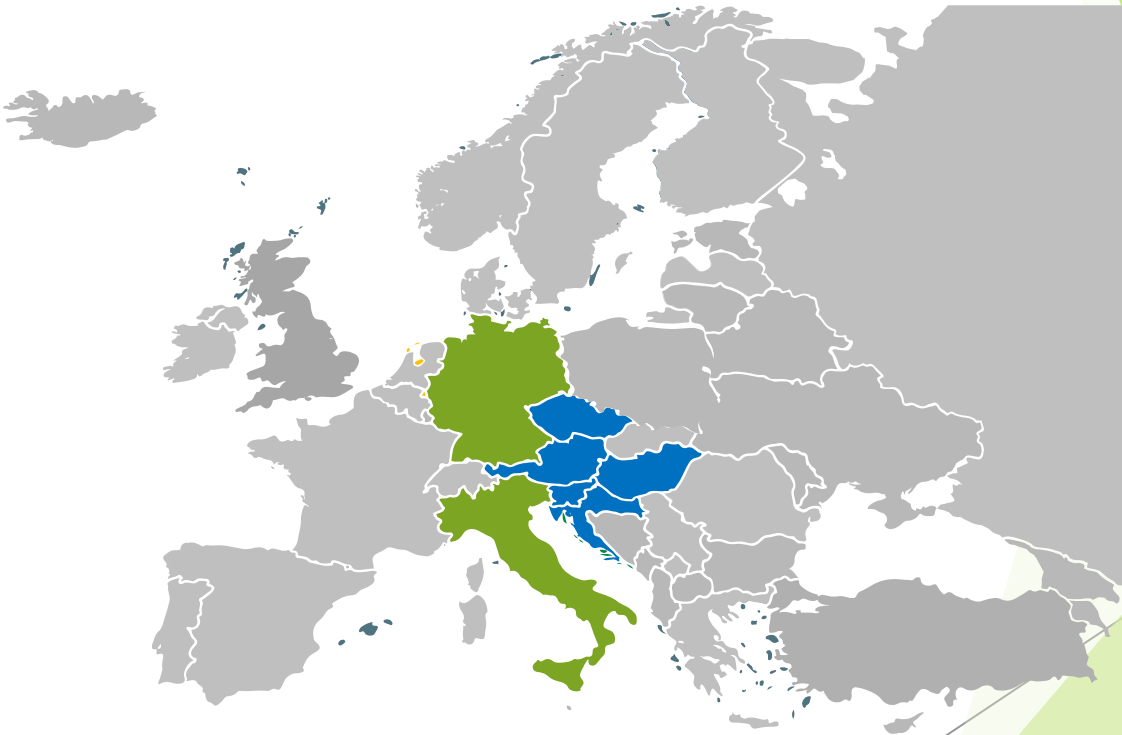
Practical examples of collaboration



MERIDIAN

X4/ITS

&



Cross-Border-Cooperation in the Alpine+ region

Background information:

- First meeting in March 2024
- **Key Stakeholders:** Motorway authorities, Research institutes, Alpine region representatives
- Expert Meetings & Workshops every month
- **Geographical Focus on Alpine regions and major motorways (North-South Axis)**

4 Sub-WGs:

- **Workgroup 1:** technical/operational collaboration
- **Workgroup 2:** data analysis
- **Workgroup 3:** communication/public relations
- **Workgroup 4:** coordination of road works/constr. Sites



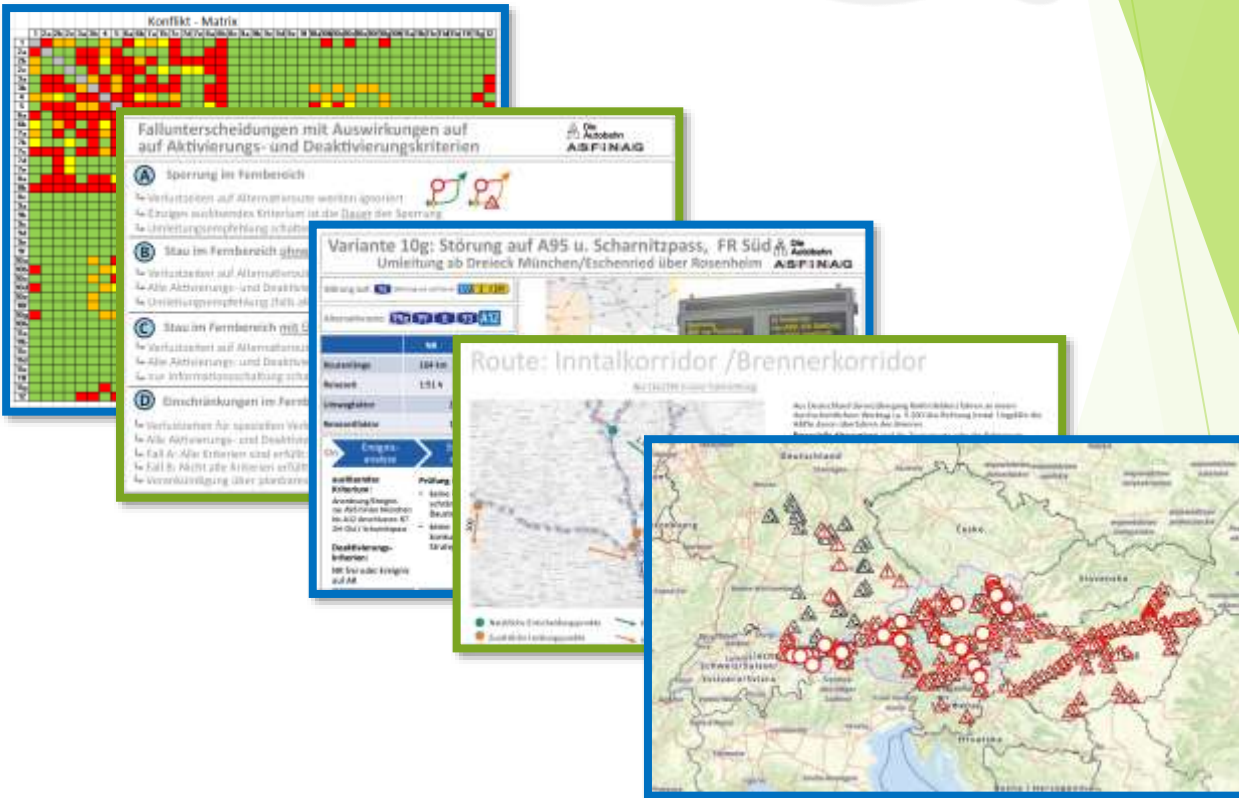
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Challenges:

- **Unstructured** Multi-Level Communication
- **Inconsistent** Cooperation & Agreements
- **Manual Information Exchange**
- 'Traditional' Traffic Management Plan Sharing
- ...

Milestones achieved:

- Jointly coordinated press releases
- Joint coordination of redirection recommendations and corresponding messages on the VMS displays
- **Strategy handbook 1.0 (covering 39 TMP-strategies)**
- **Construction site overview map 1.0 (highways & rail)**
- **Joint data analysis on cross-border HGV traffic**



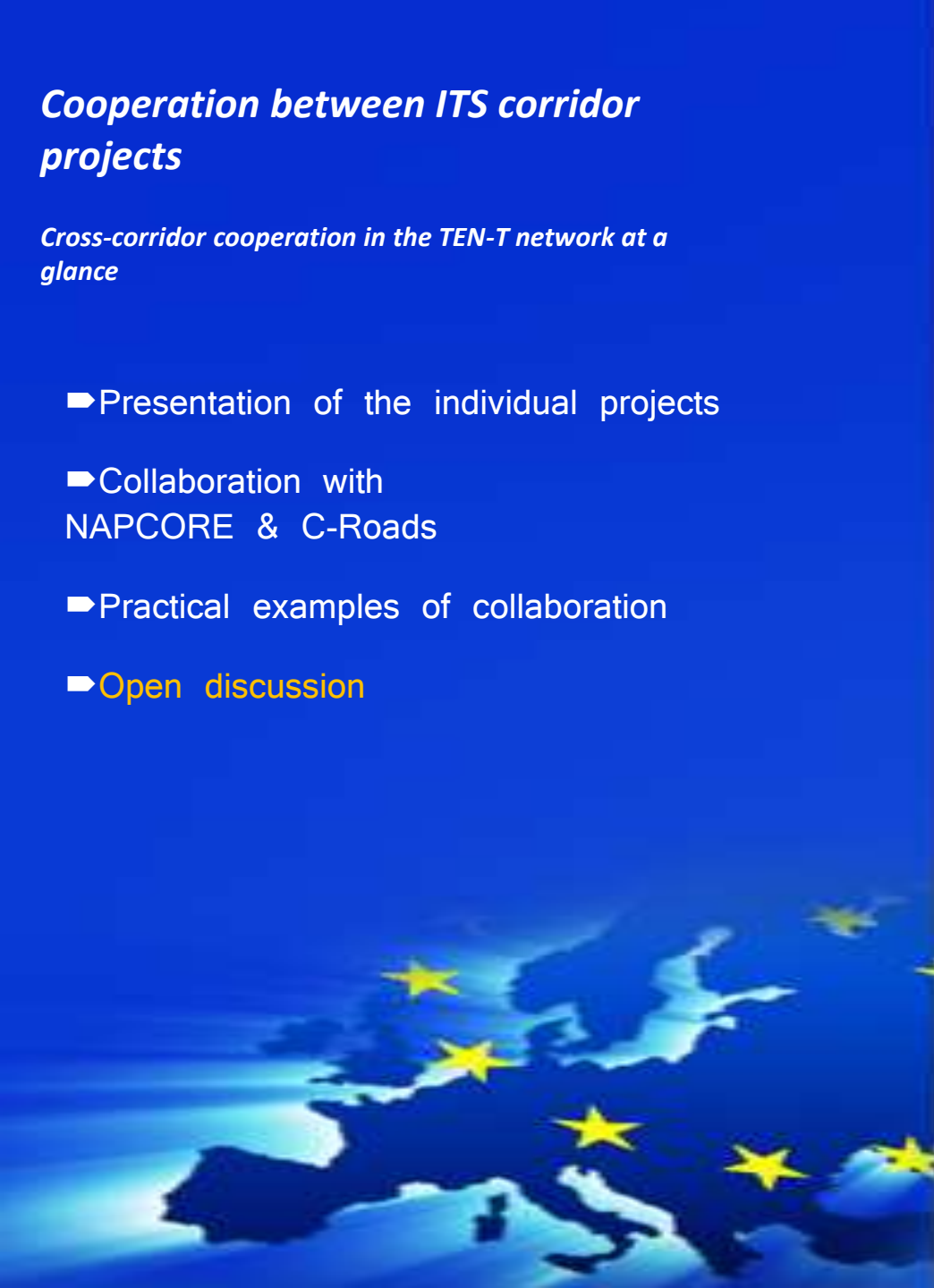
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Question

What are the main challenges in achieving seamless cross-corridor cooperation among ITS projects?



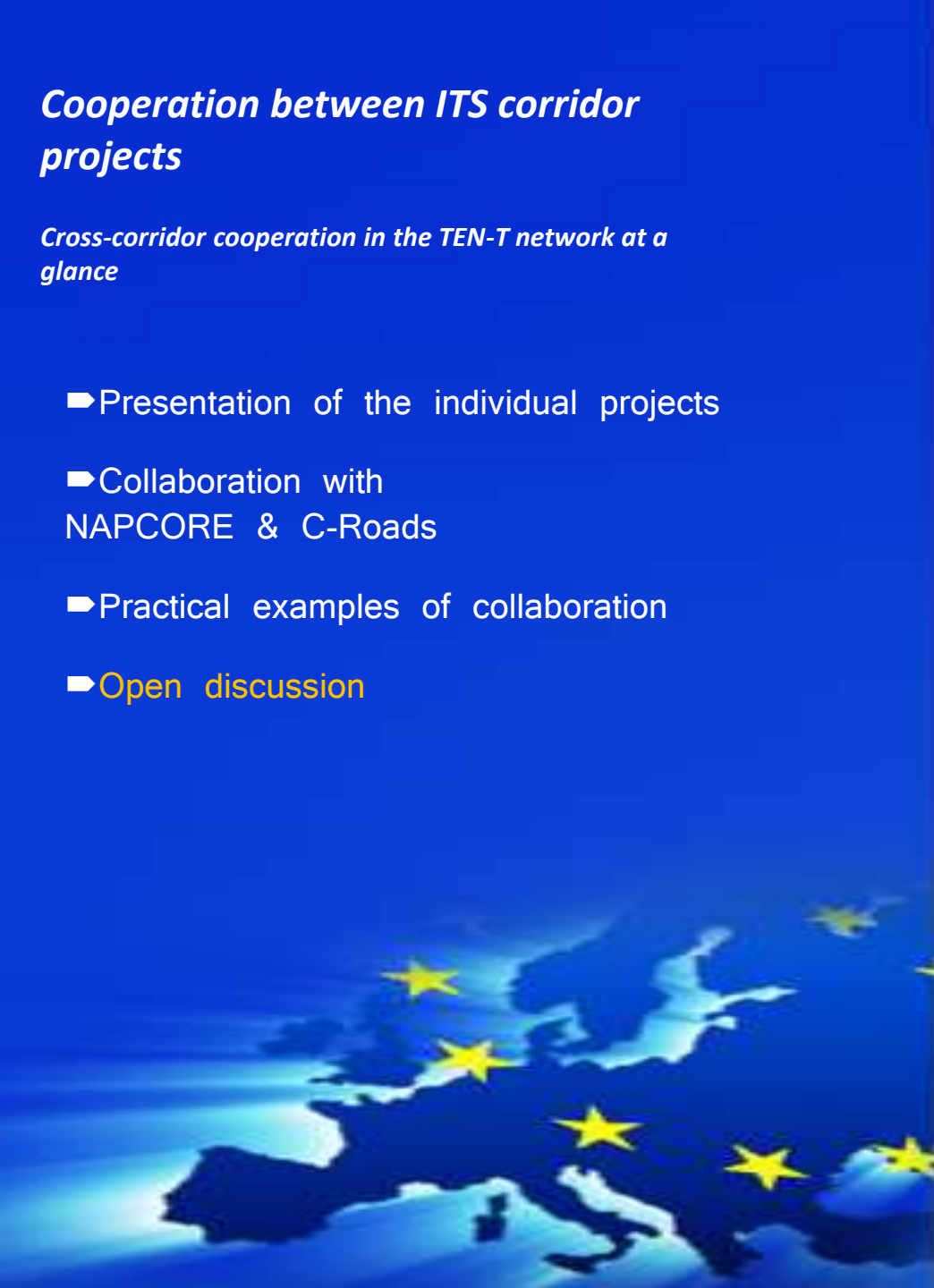
Cooperation between ITS corridor projects

Cross-corridor cooperation in the TEN-T network at a glance

- Presentation of the individual projects
- Collaboration with NAPCORE & C-Roads
- Practical examples of collaboration
- **Open discussion**

Question

What are the tangible benefits of cross-corridor cooperation for stakeholders (partners, EC,...)?



Cooperation between ITS corridor projects

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Question

How can EC be leveraged to support cross-corridor ITS initiatives?

