URBANMOBILITY DAYS2023

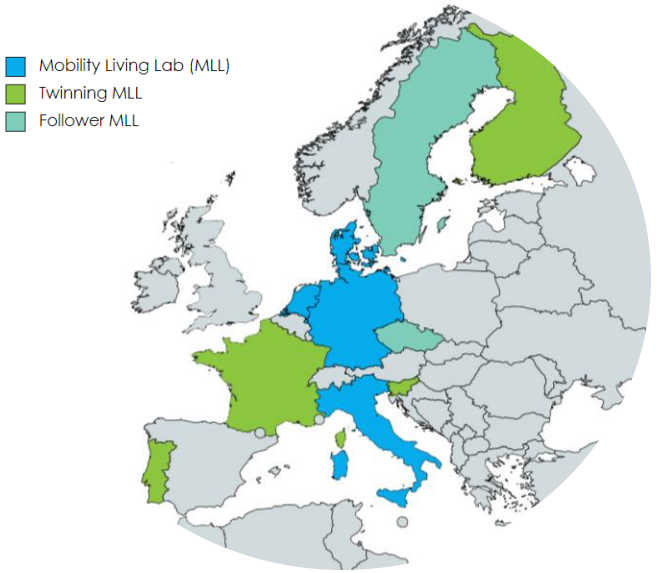
PROJECT PITCHES

European Commission

Sevilla.

UE23

GEMINI



Foster progress towards **climate neutrality** by **reinforcing modal shift** through:

1. MLL **demonstrations** of new shared mobility services, active transport modes, and micro-mobility,
2. and their **integration with PT** in new generation MaaS services.

O1 Utilise a range of **innovation-driven scenarios** to promote the growth and successful **deployment of NMS**.

O2 Delve deep into the **socio-economic and behavioural** factors that influence or hinder the uptake and readiness to use NMS and promote **behavioural change** towards broader and faster adoption of NMS.

O3 Demonstrate, evaluate and consolidate scenario-based NMS implementation strategies in **4 Mobility Living Labs (MLL)** and **4 Twinning MLLs.**

O4 Design, develop and prototype digital tools to support NMS stakeholders' activities, including a dedicated **GEMINI data space**.

O5 Provide **policy recommendations** and develop **topic maps** for the practical implementation of the project results.

O6 Enhance the **dissemination, communication, knowledge transfer, replication, up-scaling and adaptation** of the GEMINI business models, services and new social innovation practices across the use cases in the GEMINI MLLs, two Follower Cities and beyond.

Cooperative and Interconnected Green delivery solutions towards an era of optimized zero emission last-mile Logistics

GREEN-LOG

Co-funded by the European Union

UK Research and Innovation

CIVITAS

HORIZON-CL5-2021-D6-01-08 | € 6,260,158.00 (EU contr.) | Netcompany-Intrasoft S.A

42 months (01/2023-06/2026) | 10 countries (EU & UK) | 29 partners (EU & UK)

GREEN-LOG aims to accelerate systemic changes and create last-mile delivery ecosystems that are economically ecologically and socially sustainable.

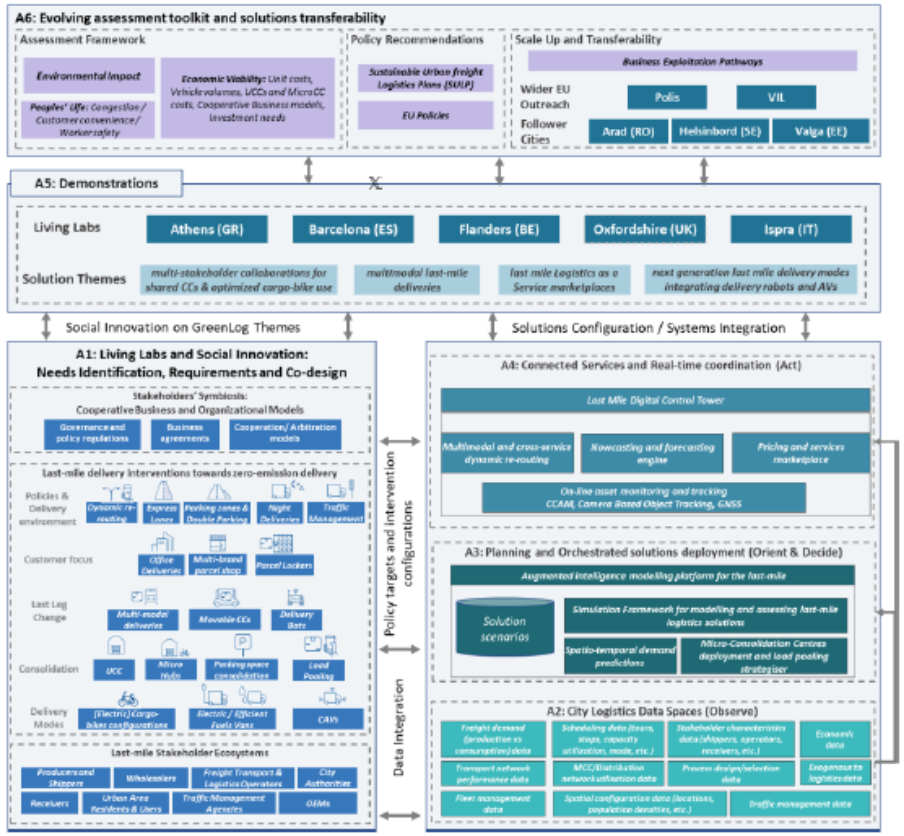
Objectives

1. Design sustainable and cost-efficient cooperative last mile delivery solutions.
2. Enable last mile delivery ecosystems to design, test and configure last mile interventions to achieve sustainable businesses, road transport efficiency and environmental goals.
3. Manage and optimize last mile delivery and road transport efficiency in real time through dynamic and interconnected services and interfaces.
4. Demonstrate the GREEN-LOG approach and last mile delivery solutions in five representative living lab cities and areas.
5. Accelerate the large take up of the GREEN-LOG last mile delivery solutions through continuous impact creation activities.

60% of the world population will live in urban areas

78% growth through 2030 in urban last-mile deliveries

The GREEN-LOG approach



5 Urban Living Labs

- Multi-stakeholder collaborations for shared MCCs and optimised cargo-bike use **Athens, GR**
- Multimodal last-mile deliveries **Barcelona, ES**
- Last-mile Urban Logistics-as-a-Service **Flanders (Ghent, Mechelen, Leuven), BE**
- Next generation last-mile delivery integrating cargo-bikes and AVs **Oxfordshire, UK**
- Next generation last-mile delivery integrating delivery robots **Ispra, IT**

3 follower cities

- Transferability and Adaptability Arad (RO), Helsingborg (SE), Valga (EE)

Website & Social Media

https://greenlog-project.eu/

GREEN-LOG | @GREENLOG_HE

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Accelerate transformational change towards sustainable urban mobility through innovative and integrated electric mobility solutions

VEHICLES
- Development, remodelling, retrofitting of 2- and 3-wheelers
- Business models and roll-out concepts for E-buses, E-taxis & shared fleets

OPERATIONS
- Innovative charging solutions
- Mobility as a Service application and business models

INTEGRATION
- Innovative integration solutions
- Business models for innovative E-mobility services

SUSTAINABLE URBAN MOBILITY SOLUTIONS

BUSINESS OPPORTUNITIES, INDUSTRY PARTNERSHIPS, ALLIANCES OF LOCAL AND NATIONAL GOVERNMENTS, BANKABLE PROJECTS

JOINT GLOBAL PLATFORM
TOOLBOX, GLOBAL OUTREACH AND EXCHANGE, INTERNATIONAL COMPARISIONS

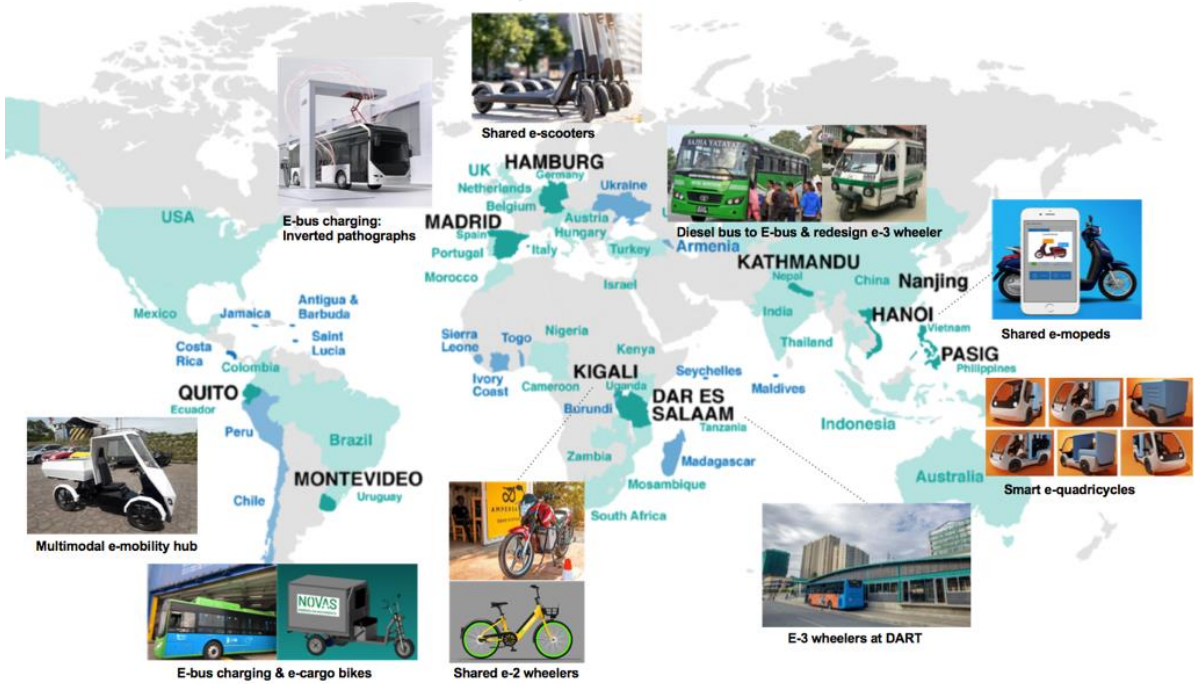
Latin America | Africa | Asia | Europe

Joint regional Support and Investment Platforms, which provide technical implementation support to the partner cities and countries, support the data collection and impact assessment and facilitate the regional trainings and capacity building

DEMO CITIES

Quito, Montevideo | Dar es Salaam, Kigali | Pasig, Kathmandu, Hanoi | Hamburg, Madrid

Regional Replication in at least 20 cities



SOLUTIONSplus concept

INFORM — Comprehensive toolbox on e-mobility solutions

INSPIRE — Exchange among city officials, transport operators and entrepreneurs

INITIATE — Initiate partnership among local and european companies; business models

IMPLEMENT — Implementing innovative, sustainable e-mobility solutions in cities

IMPACT — Integrate innovations into local, national and global policy and planning

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 875041

FACTSHEET: eBRT2030

- **Project overall duration: 48 months**
- **Start date: 1/1/2023**
- **Total person month: 2823**
- **EU Grant: 22,776,213.57**
- **Partners: 45**
- Strategic and overall operational Coordinator: **UITP**
  - Technical Manager: **VUB** (MOBI-EPOWERS RG)

Main objective: Create a New Generation of advanced full electric, urban and peri-urban European BRT enhanced with novel automation and connectivity functionalities.

6+1 operation-focused Demos: Barcelona, Athens, Prague, Rimini, Amsterdam, Eindhoven & Bogota

eBRT2030 project aims to reduce:

- Cost/km/passenger by 10%;
- TCO by 10%;
- Greenhouse gas and pollutant emissions by 70%, and
- Traffic congestion by 10%

Technological Innovations:

- **Vehicle**
- **Charging**
- **IoT Connectivity**

01 January 2023 — **31 December 2026**

VISIT **userchi.eu**

USER-CHI
CHARGING YOUR E-MOBILITY FUTURE

6 OBJECTIVES

1. DESIGN OPTIMISATION OF CHARGING NETWORKS WITH A USER-CENTRIC APPROACH
2. DEPLOYMENT OF AN INTEROPERABILITY FRAMEWORK AND PLATFORM
3. SCALABLE INFRASTRUCTURE ROLL-OUT BY MEANS OF SMART GRID INTEGRATION
4. DEVELOPMENT OF INNOVATIVE AND HIGHLY CONVENIENT CHARGING SYSTEMS
5. DEMONSTRATION OF NOVEL BUSINESS AND MARKET MODELS
6. LEGAL AND REGULATORY RECOMMENDATIONS FOR MASSIVE EV DEPLOYMENT

8 PRODUCTS

Soft

INCAR – Interoperability, charging and parking platform

SMAC – Smart Charging tool

CLICK- Charging location and holistic planning kit

Hard

INSOC – Integrated solar DC charging for Light Electric Vehicles (LEVs)

INDUCAR – Inductive charging for e-cars

Stations of the future handbook

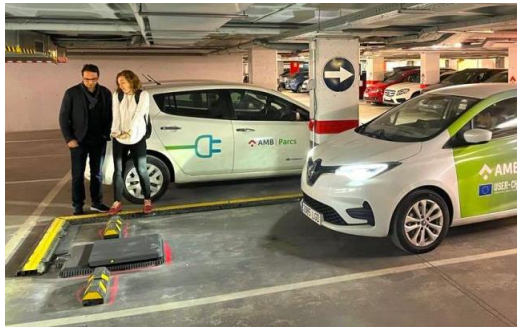
eMoBest – e-Mobility replication and best practice cluster

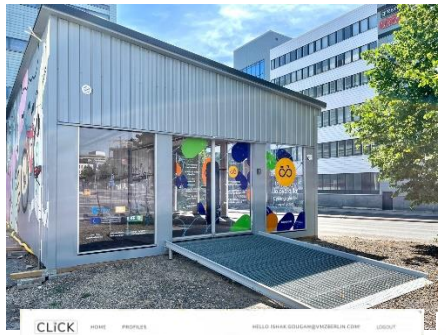
Theo

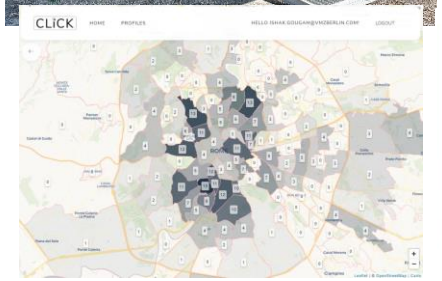
INFRA – Interoperability framework

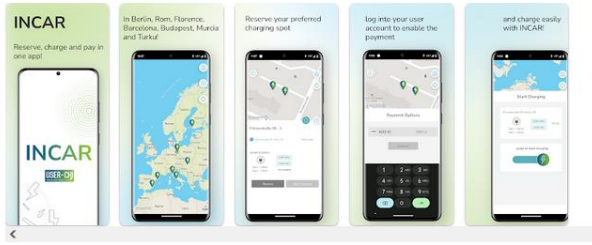
7 EU CITIES ALONG 2 TEN-T

Barcelona · Budapest · Berlin · Turku · Rome · Murcia · Florence









SHOW in a nutshell

SHared automation Operating models for Worldwide adoption

Real-life urban pilots in 20 cities (2020-2024)

Lessons learnt from pilots

Apply a technical verification framework for all test sites (18 use cases)

Provide recommendations for regulatory entities and application guidelines for cities, public transport, etc.

Develop novel alternative business models for CCAV deployment for urban mobility

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 875530.

What do we want to achieve with The ULTIMO project?

Automated Mobility in Switzerland, Germany, and Norway

56 million euros, 23 partners, 2022 -> 2026

ULTIMO

Unlock the integration of AVs into cities with on-demand and door-to-door services, tackling obstacles that are hindering large-scale AV uptake.

- To target the operation without safety-driver on board, in fully automated mode in three cities: [Running] **Belle idée, Geneva,** [Soon] **Herford, North Rhine-Westphalia**, and [Soon] **Grorud Valley, Oslo**. Each city with **15 or more AVs.**
- Validate integrated shared **CCAM systems & multivendor business models**
- Provide **automated passenger services** for safety and service quality
- Develop **open-source standard API's** to enhance agnostic **integrations (MaaS/LaaS)**
- Set the basis for a common and reusable model for **High-Definition (HD) maps**

Co-funded by the European Union

PADAM MOBILITY

Project co-funded by
Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Confederation
Federal Department of Economic Affairs, Education and Research EAER
State Secretariat for Education, Research and Innovation SERI

Traffic Orchestration = Extended Traffic Management

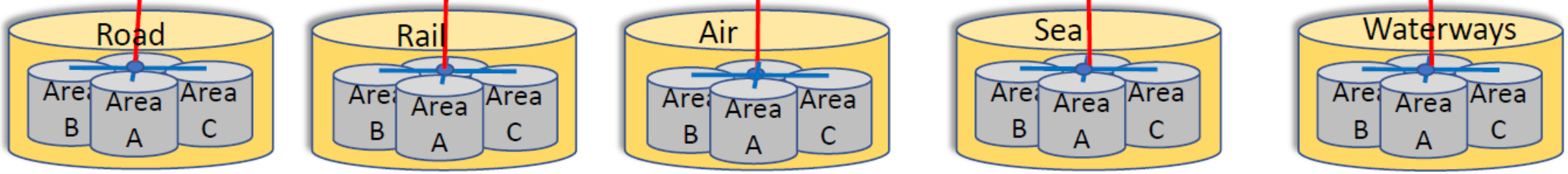
Traffic Orchestration

- Data management and governance
- Monitoring & Awareness
- Decision support & Decision making
- Regulation of zones & Measures
- Coordination across networks/modes
- Coordination with transport actors

Coordinate and synchronise traffic management across modes and networks

Monitor, control and support individual transport operations

Support for optimal multimodal door-to-door transport services and chains



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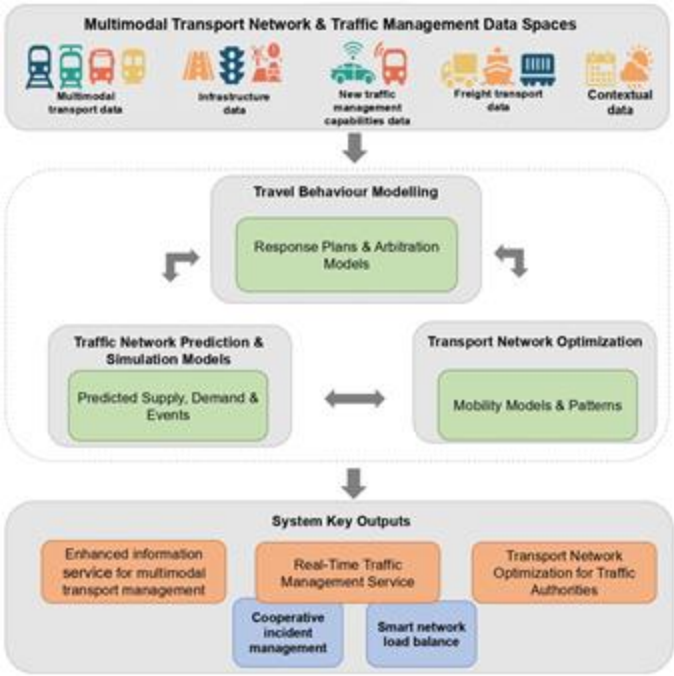
Orchestra

TANGENT - Enhanced Data Processing Techniques for Dynamic Management of Multimodal Traffic



TANGENT **aims to develop new tools for optimizing the operations in traffic management** of the transport network in a dynamic and adaptive way from **a multimodal perspective** and considering motorized and non-motorized users as well as **automated/ non-automated vehicle.**

- Traffic update dissemination using VMS in Great Manchester and Bee Bus Network alignment for traffic state prediction and network optimization
- Mobility Survey conducted and Vehicle demand analyzed during NOS 23 event in Lisbon
- Investigated the impacts of CAVs (and CCAM in general) towards mitigating the impacts of a disturbance in Athens
- Multi-actor cooperative strategy buildup carried out in Rennes

TANGENT **sets the** targets for reduction of 10% in travel time, 8-10% in CO2 emissions, 5% of accidents, 5-10% increase in use public transport and use of active modes or 10% of economic costs due to a more efficient management.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 955273

FRONTIER - Next generation traffic management for empowering CAVs integration, cross-stakeholders collaboration and proactive multi-modal network optimization

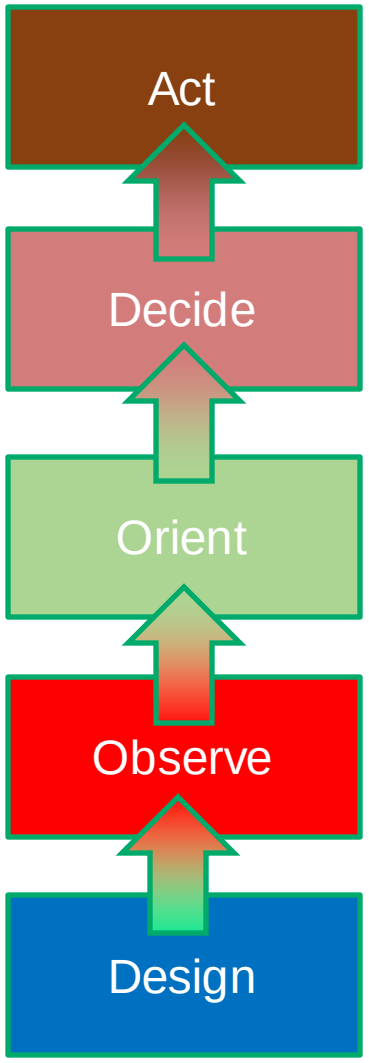
O5. Design and develop services and interfaces for the **proactive orchestration and evaluation** of multimodal network and traffic management systems

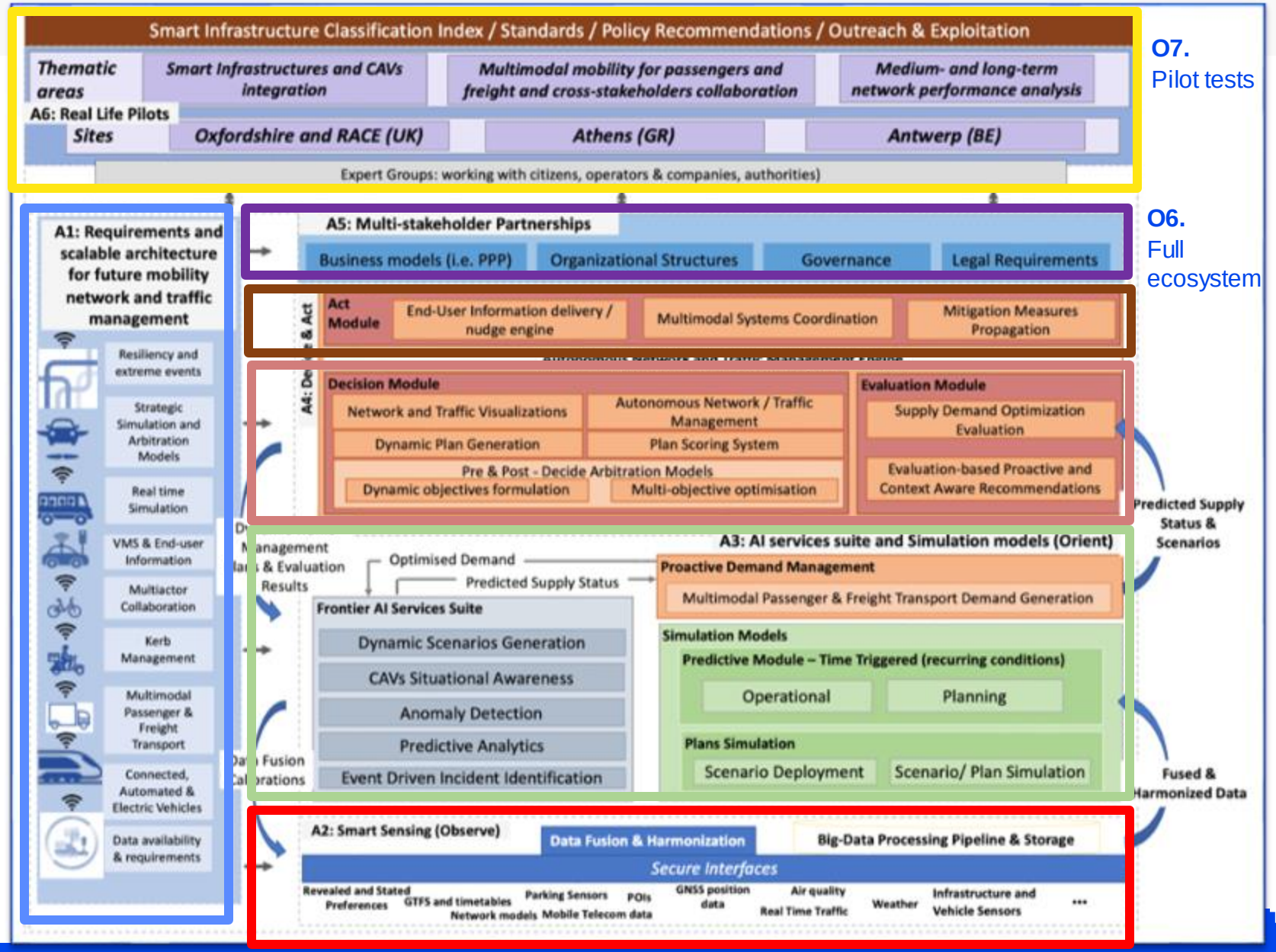
O4. **Decision** module to **support** proactive decisions and continuous performance improvement

O3. Dynamic generation of **supply scenarios and travel demand optimization** through traffic simulations and data analysis algorithms

O2. Comprehensive **view** of the transport ecosystem, by a smart and secure big data system

O1. **Design** scalable architecture





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 955317

FRONTIER FUTURE MOBILITY