



## ENVELOPE ARCHITECTURE

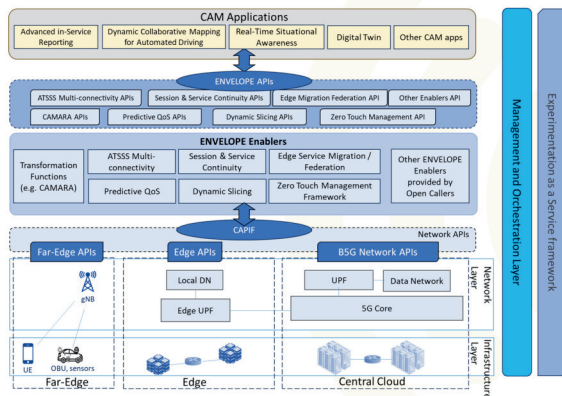
ENVELOPE aims to advance and open up the reference **5G advanced architecture** and transform it into a vertical-oriented one. It proposes a novel open and easy-to-use 5G-advanced architecture to enable tighter integration of the network and the service information domains by:

- Exposing network capabilities to verticals;
- Providing vertical information to the network;
- Enabling verticals to request and modify key network aspects dynamically.

All performed in an open, transparent and easy-to-use, semi-automated way.



## EVALUATION AND VALIDATION OF CONNECTED MOBILITY IN REAL OPEN SYSTEMS BEYOND 5G SERVICES



## 3 LIVING LABS - 6 USE CASES

The ENVELOPE architecture will serve as an envelope that can cover, accommodate, and support vertical services. The applicability of ENVELOPE's capabilities will be demonstrated via 6 BEYOND 5G (B5G) USE CASES and at least 9 open-call projects.

### THE NETHERLANDS

- UC 1: PERIODIC VEHICLE DATA COLLECTION FOR IMPROVING DIGITAL TWIN (DT)
- UC 2: VEHICLE TESTING WITH MIXED REALITY
- UC 3: TELE-OPERATED DRIVING AIDED BY DIGITAL TWINS

### ITALY

- UC 1: ADVANCED IN-SERVICE REPORTING FOR AUTOMATED DRIVING VEHICLES
- UC 2: DYNAMIC COLLABORATIVE MAPPING FOR AUTOMATED DRIVING

### GREECE

- UC 1: MEC HANDOVER ACROSS MNOs

## Open Calls

### Two rounds of open calls

A total of **2.700.000€** will be provided in the form of lump sum funding.

#### Proposals should target to:

- Demonstrate** the reusability of the ENVELOPE developed features by third party stakeholders and potentially other verticals, and/or
- Extend** the provided infrastructure for experimentation as a service with additional functionalities, potentially tailored to the needs of other verticals/industries.

**Open Call 1 Launch: June 2025**

**Open Call 2 Launch: October 2025**

## Open Call 1

**19/05/2025 – 15/06/2025**  
Feasibility Check / Submission of Proposals

**01/08/2025 – 30/09/2025**  
Evaluation & Selection

**01/10/2025 – 31/11/2025**  
Subgrant Agreement Preparation and Signature

**01/12/2025 – 30/06/2026**  
Project Implementation

Scan for more



**Final Submission Deadline:**  
**31 July, 2025**



Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or Smart Networks and Services Joint Undertaking (SNS JU). Neither the European Union nor SNS JU can be held responsible for them. Copyright © ENVELOPE Consortium 2024.

## PARTNERS



ENVELOPE PROJECT  
envelope-project.eu