

## 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.



## 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.

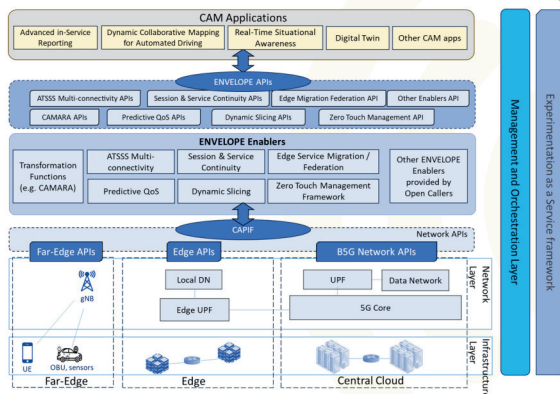
**Open Call 1**  
**Launched & Submission Closed**

**Coming Up:**  
**Open Call 2 Launch: October 2025**

Scan for more



## 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

## FACTS & FIGURES

Call: HORIZON-JU-SNS-2023

Topic: STREAM-D-01-01, "SNS Large Scale Trials and Pilots (LST&Ps) with Verticals"

Use Case Priority 1: Connected and automated mobility (CAM) vertical and intelligent terrestrial transportation  
Start & End Date: 01/01/2024 - 31/12/ 2026

**23** Partners  
**36** Months  
**10** Countries