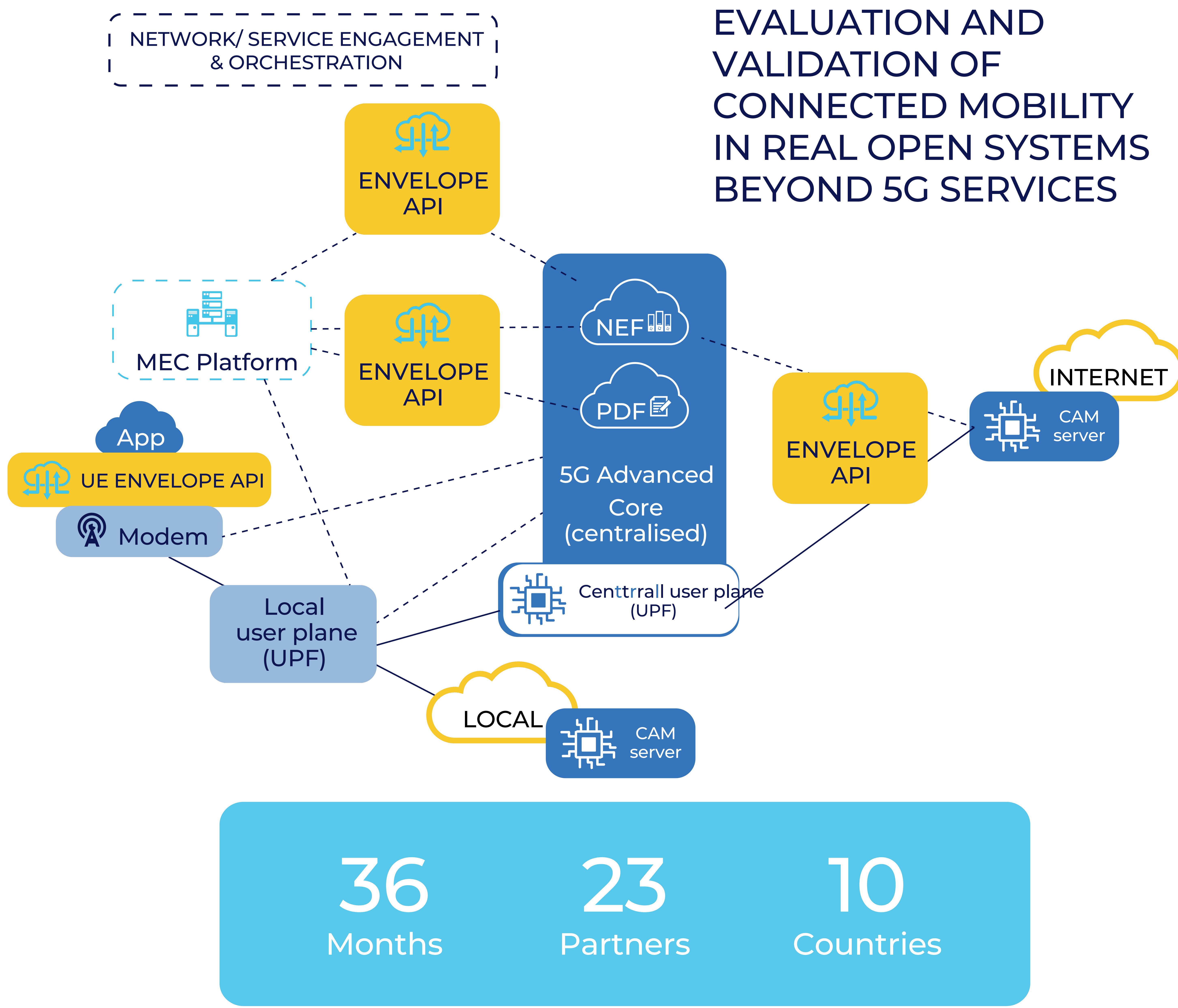


# ENVELOPE

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



### 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.



### SCOPE & PROJECT OBJECTIVES

- Develop an open and dynamically reconfigurable B5G system.
- Develop novel CAM services and design vertical-oriented open, transparent, easy-to-use interfaces (network and service side).
- Advance key B5G technologies to enable the ENVELOPE architecture to meet the challenging requirements of automation and improved user experience (ATSSS multi-connectivity, PQoS, Zero-Touch management).
- MEC integration and cross-domain east/west-bound coordination involving different stakeholders (network-assisted service continuity).
- Demonstrate the ENVELOPE capacity to accommodate a variety of services (Digital Twin Assisted CAM and Open Call large-scale experimentation on 3 B5G infrastructures).



### 3 LIVING LABS

THE NETHERLANDS  
ITALY  
GREECE



### OPEN CALLS

ENVELOPE WILL LAUNCH 2 ROUNDS OF OPEN CALLS

9 **open call winners** will have the opportunity to receive funding and test their innovative solutions by employing ENVELOPE's architecture.

Total Funding: 2.700.000 €  
Open Call 1 Launch: June 2025  
Open Call 2 Launch: October 2025



### 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

PARTNERS



ENVELOPE PROJECT



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6G SNS



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