

Consortium

The ENVELOPE Consortium is coordinated by ICCS and counts 23 partners, from 10 European countries.



Contact us

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GOING BEYOND 5G



About ENVELOPE

Starting in January 2024, ENVELOPE project is funded under the HORIZON-JU-SNS-2023 call and it is classified as a HORIZON JU Innovation Action.

ENVELOPE will capitalise on the expertise and advancements garnered from other SNS Stream C projects, along with the operational insights derived from managing large-scale trials and open call projects.



36 months



Greece
Italy
The Netherlands



23 partners

Objectives

1. **Advancing 5G architecture** to cater to Connected and Automated Mobility (CAM) verticals. This involves making the architecture vertical-oriented, enabling dynamic network capabilities for CAM use cases.
2. **Streamlining 5G weaknesses** by simplifying network and end-device configurations, reducing manual effort.
3. **Enhancing vertical-specific functionalities**, such as location services and network slicing, to meet CAM and Intelligent Transportation Systems (ITS) requirements.
4. **Developing a modular architecture** supporting any vertical while addressing specific needs. This allows for better network visibility and advanced Application Function (AF) influence.
5. **Enhancing trial deployments** in Italy, the Netherlands, and Greece with CAM-specific functionalities and exposure capabilities.
6. **Promoting architecture reusability** across various verticals, demonstrated through CAM-oriented use cases and open-call projects.

ENVELOPE addresses challenges in supporting verticals like CAM efficiently, aiming to meet their specific requirements and streamline network configurations.

Pilot sites

ENVELOPE will develop a unified architecture, encompassing a spectrum of infrastructural types. This spans from open-source core implementations like Open5GS/OAI, offering extendibility with new functionalities, to commercial solutions such as HPE core, delivering advanced features and heightened performance.

GREECE

ITALY

THE NETHERLANDS