



Evaluation and validation of connected
mobility in real open systems beyond
5GS

Project deliverable D8.5

ENVELOPE Exploitation Plan

HORIZON JU Innovation Actions | 101139048 |
ENVELOPE - HORIZON-JU-SNS-2023



Co-funded by
the European Union

6GSNS

Deliverable administrative information

Dissemination level	SEN - Sensitive
Type of deliverable	R — Document, report
Work package	WP8
Title of the deliverable	D8.5 – Exploitation plan
Status – version, date	Draft – V1, 03/10/2024
Deliverable leader	eBOS
Contractual date of delivery	30/06/2025
Submission date	03/07/2025
Keywords	IPR, Exploitation, Plan

List of contributors

Name	Organisation
Anargyros Roumeliotis, Pavlos Bassaras, Konstantinos Katsaros	ICCS
Dimitris Tsolkas, Katerina Giannopoulou	FOGUS
Giacomo Bernini	NXW
Gorka Vélez	VICOM
Nicola di Pietro, Davide Montagno Bozzone	HPE
Nikolaos Petropouleas, Apostolis Salkintzis	LNVO
Harilaos Koumaras, Dimitris Ouzounidis	NCSR
Fofy Setaki, Elina Theodoropoulou	COSM
Anam Tahir, Amr Rizk	UDE (LUH)
Ioannis Neokosmidis, Theodoros Rokkas	INC
Edoardo Benetto, Daniele Brevi	LINKS
Gatti Fabrizio, Chiocchetti Ezio	TIM
Marco Bazzani	TEO
Giulia Terracciano	COTO
Joelle Ensminger	ISFM

Paul Schackmann	TNO
Geerd Kakes	KPN
Alexandru Forrai	SISW
Gergely Kovacs, Andras Varadi	CMS
Maria Trigka, Christos Verikoukis	ISI
Apostolos Siokis	IQU
Gorka Velez	VICOM
George Christou, Euripides Sakellariou	ERT
Zouzias Dimitris	eBOS
Ioannis Neokosmidis	INC

Quality control

	Name	Organisation	Date
Peer review	Anargyros Roumeliotis	ICCS	20/06/25
Peer review	Gorka Velez Fabrizio	VICOM	20/06/25

Version History

Version	Date	Author	Summary of changes
0.1	28/02/25	Zouzias Dimitris	ToC Finalised
0.2	30/04/25	Zouzias Dimitris	Consolidation of contributions
0.3	08/05/25	Anargyros Roumeliotis, Gorka Velez Fabrizio	First Round of Reviews
0.4	20/05/25	Zouzias Dimitris	Consolidated version with reviewers' comments and suggested changes
0.5	20/06/25	Anargyros Roumeliotis, Gorka Velez Fabrizio, Konstantinos Katsaros	Second Round of Reviews
0.6	03/07/25	Zouzias Dimitris	Final revisions based on reviewers' comments and last input

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Project executive summary

ENVELOPE aims to advance and open 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 a tighter integration of the network and the service information domains by

- exposing network capabilities to verticals,
- providing vertical information to the network; and
- enabling verticals to dynamically request and modify key network aspects,

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

ENVELOPE will build APIs that act as an intermediate abstraction layer that translates the complicated 5G System (5GS) interfaces and services into easy to consume services accessible by the vertical domain. The project will deliver an experimentation framework that will facilitate vertical services in accessing a series of innovations developed in the project, namely: edge computing with service continuity support (federation/migration), zero-touch management, multi-connectivity, dynamic slicing and predictive Quality of Service (QoS).

ENVELOPE will deliver 3 large scale Beyond 5G (B5G) trial sites in Italy, Netherlands and Greece supporting novel vertical services, with advanced exposure capabilities and new functionalities tailored to the services' needs. Although focused on the Connected and Automation Mobility (CAM) vertical, the developments resulting from the Use Cases (UC) will be reusable by any vertical. The ENVELOPE architecture will serve as an envelope that can cover, accommodate, and support any type of vertical services. The applicability of ENVELOPE will be demonstrated and validated via the project CAM UCs and via several 3rd parties that will have the opportunity to conduct funded research and test their innovative solutions over ENVELOPE.

Social Media link:



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For further information please visit www.envelope-project.eu

Deliverable executive summary

Effective Exploitation and Intellectual Property Rights (IPR) management is essential for ensuring the successful commercialisation and deployment of all ENVELOPE outcomes. As such, the ENVELOPE consortium places strong emphasis on managing innovation and IPR within the project framework to facilitate the seamless exploitation and long-term sustainability of its results post-completion.

This report presents the interim version of the ENVELOPE IPR Management Plan already stated as part of the Project's Grand Agreement. It clarifies key concepts related to IP protection and management and outlines the core methodology to be applied throughout the project lifecycle. Compared to the initial version, this updated edition provides more detailed insights into the project's Background (BG) and Foreground (FG) Intellectual Property (IP) and identifies Exploitable Results along with preliminary exploitation approaches and partner-specific pathways, utilising the ENVELOPE IPR matrix.

This document acts as the main framework toward the final version of the strategy, scheduled for release in M36. Specifically, it includes:

- A comprehensive overview of the ENVELOPE innovation and IPR management approach to be implemented during the project.
- An updated ENVELOPE IPR Matrix aimed at:
 - Supporting ongoing updates of BG and FG IP assets.
 - Identifying and updating current and emerging Exploitable Results.
 - Providing an initial view of the exploitation strategies, types, and pathways envisioned by each partner.
 - Assessing the post-project value and exploitation potential of scientific publications and project deliverables by each partner.
 - Facilitating the early detection and resolution of potential conflicts among consortium members.
- A prioritisation of results to highlight those with the highest potential for impact and exploitation in line with the project's objectives.
- An identification of key external stakeholder groups and the anticipated benefits they may derive from prioritised ENVELOPE results.

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