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**FACULTY OF MARITIME STUDIES**

**PROJECT ACRONYM AND TITLE:** BIO-INTEL-MOB (INTEGRATING SUSTAINABLE MOBILITY AND LOGISTICS WITH CITIZEN-CENTRIC INTELLIGENT SOLUTIONS FOR SAFE, SMART, GREEN, RESILIENT, AND INCLUSIVE CITIES)

**FUNDING PROGRAMME:** HORIZON-MISS-2024-CIT-01-04 Integrated peri-urban areas in the transition towards climate neutrality

**PERSON RESPONSIBLE:** Prof. Edvard Tijan, PhD

#### FINANCIAL DATA

Overall budget	Overall funding assigned to PFRI
9.491.796,20 €	337.500,00 €

**TOTAL GRANT AMOUNT:** 8.965.812,50 €

#### SUMMARY

BIO-INTEL-MOB is an EU-funded project that aims to transform peri-urban mobility into a climate-neutral, data-driven, and citizen-centric system. The project integrates advanced solutions such as a Mobility Data Space, AI analytics, Peri-Urban Mobility Hubs (PUMHs), Green-Safe Routing Applications (GSRA), Digital Twins, a circular economy model with bio-packaging, and an intelligent governance framework including a citizen engagement app, a knowledge hub, and policy alignment tools.

The project is designed to develop predictive models and optimize traffic, reduce emissions, and improve mobility flows using IoT sensors, satellite imagery, smart cameras, and self-reporting data.

PUMHs, combined with the GSRA, aim to enhance public transport and shared mobility, with real-time adaptive routing for vulnerable road users and optimized multimodal transfers. In the logistics sector, bio Packaging and Logistics Unit (bioPLU) and green-safe corridors will introduce solar-powered micro-logistics hubs and cargo-bike integration, reducing waste and emissions. The Smart Circular Governance (SCGo) framework will support participatory planning through VR/AR interfaces, dynamic citizen feedback, and tools for alignment with EU directives. A Knowledge Hub will provide resources for local adaptation, replicable models, and open-access modules to support cities, authorities, and planners.

BIO-INTEL-MOB addresses key mobility and governance challenges in urban and peri-urban areas by overcoming data fragmentation, improving multimodal efficiency,



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enabling green-safe mobility, and strengthening citizen-centric decision-making. Through four main pilots (in Rome, Cascais, Riga and Vilnius) and satellite sites (in Meslungen, Ciampino, Urla and Rhodes), the project deploys scalable, climate-neutral solutions built on AI, data integration, circular logistics and participatory governance.

The six strategic objectives of the project are:

- 1) Optimise multimodal mobility through integrated data ecosystems (MultiSmartData)
- 2) Achieve climate-neutral, safe, and inclusive mobility through GSRA and PUMHs (SafeCitiMob)
- 3) Develop sustainable and efficient logistics through circular economy models (EcoLogis & FlexiMob)
- 4) Enable adaptive, digital, and participatory governance for next-generation cities
- 5) Deliver comprehensive impact assessment for sustainable, inclusive, and scalable solutions
- 6) Provide policy guidelines and EU-aligned frameworks for replicability

Start date	End date
01.01.2026.	30.06.2029.

## PARTNERSHIP

No.	Partner organization	Country	Role
1.	UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA	Italy	Coordinator
2.	ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	Greece	Partner
3.	VRIJE UNIVERSITEIT BRUSSEL	Belgium	Partner
4.	AKCIJU SABIEDRIBA TRANSPORTA UN SAKARU INSTITUTS	Latvia	Partner
5.	University of Rijeka, Faculty of Maritime Studies	Croatia	Partner
6.	CENTRUM DOPRAVNIHO VYZKUMU v.v.i.	Czech Republic	Partner
7.	UNIVERSITAET KASSEL	Germany	Partner
8.	B. BRAUN MELSUNGEN AKTIENGESELLSCHAFT	Germany	Partner
9.	LAZIALE DISTRIBUZIONE SOCIETA PER AZIONI	Italy	Partner
10.	LABORATORIO NACIONAL DE ENGENHARIA CIVIL	Portugal	Partner
11.	UNIVERSITEIT TWENTE	Nederlands	Partner
12.	POLIS	Belgium	Partner



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13.	European Conference of Transport Research Institutes	Belgium	Partner
14.	MYKOLO ROMERIO UNIVERSITETAS	Litva	Partner
15.	ISTITUTO SUPERIORE DI FORMAZIONE E RICERCA PER I TRASPORTI ED IN BREVE ISFORT SPA	Italy	Partner
16.	ILP CONSULTING SRL	Italy	Partner
17.	ROMA CAPITALE	Italy	Partner
18.	ROMA SERVIZI PER LA MOBILITA SRL	Italy	Partner
19.	REGIONAL MANAGEMENT NORDHESSEN GMBH	Germany	Partner
20.	STADT MELSUNGEN	Germany	Partner
21.	MUNICIPIO DE CASCAIS	Portugal	Partner
22.	RIGAS PLANOSANAS REGIONS	Latvia	Partner
23.	Vilniaus rajono savivaldybes administracija	Litva	Partner
24.	COMUNE DI CIAMPINO	Italy	Partner
25.	DIMOS RODOU	Greece	Partner
26.	NATIONAL TRANSPORT UNIVERSITY	Ukraine	Partner
27.	EGE UNIVERSITY	Turkey	Partner
28.	Urla Belediyesi	Turkey	Partner

**WEBSITE:** <https://bio-intel-mob.eu/>



**Funded by  
the European Union**

**ADDITIONAL INFO:**

PFRI project team members:

- Prof. Edvard Tijan, PhD
- Assoc. Prof. Dražen Žgaljić, PhD
- Assoc. Prof. Srđan Žuškin, PhD
- Assoc. Prof. Saša Aksentijević, PhD
- Assistant Prof. Mladen Jardas, PhD
- Borana Vlastelić, MSc