AMAZING-6G Introduction

WINGS

SNS Call 3 projects introduction webinar

17-Feb-2025

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AMAZING-6G: At a glance

Project Details	
Call	HORIZON-JU-SNS-2024
Topic	HORIZON-JU-SNS-2024-STREAM-D-01-01
Project start date	01/01/2025
Duration	36 months
GA No	101192035
Total budget	EUR 14.2 mn (funded by EC: EUR 12.1 mn)
Coordination	WINGS (Andreas Georgakopoulos, Panagiotis Demestichas)
Technical Management	VTT (Haesik Kim)

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About AMAZING-6G

AMAZING-6G evaluates and validates the sustainability and performance of B5G/6G technologies in diverse ecosystems (including both “sustainable 6G” and “6G for sustainability”) via the design, execution and assessment of large-scale trials in the vertical domains of Health, Public Safety, Energy, Transport (including Rail).

Objective 1: Identification and trials of novel B5G/6G use cases, architecture and enablers for environmental, societal and economic sustainability

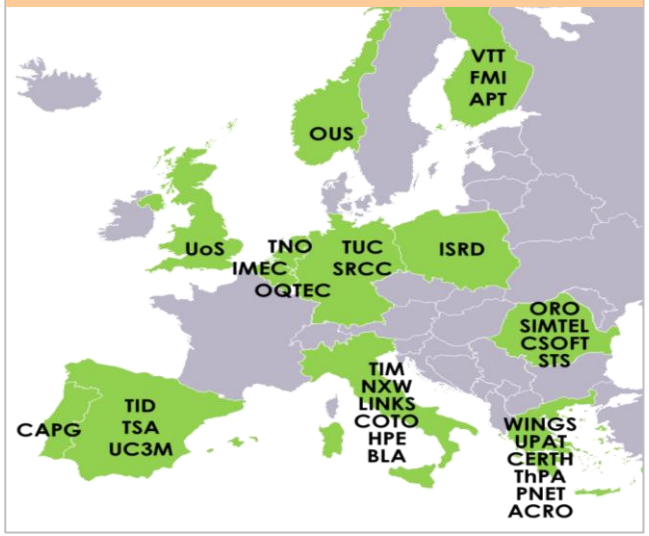
Objective 2: Enhancement of infrastructure to support B5G/6G applications

Objective 3: Introduction of technologies towards key societal benefits including sustainability and trustworthiness in different verticals

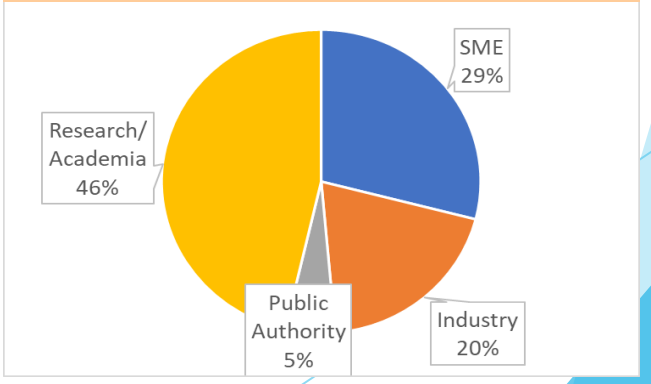
Objective 4: Deployment of large scale B5G infrastructure for trials and pilots with verticals

Objective 5: Contribution to business models, standards and SNS programmatic actions related to sustainability, in connection to 6G-IA and SNS Working Groups.

Total 31 partners from 13 countries



Total budget funded: EUR 12.1 mn



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Our 14 use cases

Domain	Use case	Sustainability aspects (i) Environmental, (ii) Societal, (iii) Economic	Related sites
Health	H1 24-7 Heart function – wearable based ultrasound application	(i) reduced travel for patient/doctors; (ii) better patient outcomes and experience; (iii) lower cost of care, shorter hospital stays	• Dutch / Norwegian
Public Safety	P1 Ubiquitous B5G/6G communication and slice deployment across operators for PPDR AR/VR assisted Control Centres P2 Mission critical services interoperability with other systems P3 Emergency private 5G/6G communication on-the-Move P4 Arctic Area Search and Rescue Operation P5 Emergency private 5G/6G communication on-the-move	(i) reduced loss of nature, carbon footprint and energy consumption; (ii) reduced loss of lives and increased safety for victims and rescue workers; (iii) reduced loss of man-made structures; reduced cost of rescue operations	• Greek • Finnish • Finnish • Finnish • Romanian
Energy	E1 Renewable Energy Communities E2 Robotized offshore wind turbine blade inspection and maintenance E3 Solar energy monitoring, control and predictions using B5G/6G communications and edge-cloud	(i) increased production and usage of renewable energy, reduced energy consumption; (ii) increased health, safety, and quality of life; (iii) increased revenue from renewable energy production, reduced energy costs	• Romanian • Dutch • Romanian
Transport	T1 Protection of Vulnerable Road Users T2 Enhancing Urban Safety with AGVMonitoring T3 Wireless signalling on rail tracks T4 Teleoperation as a backup to autonomous driving T5 Port logistics and transport operations optimization and safety	(i) reduced energy consumption and carbon footprint, cleaner urban areas, reduced electronic waste; (ii) reduced accidents, reduced degradation of urban areas, minimal disruption of services (rail, autonomous vehicles) (iii) reduced costs for healthcare, vandalism, theft, and negligence, more effective use of personnel, more revenue from new and more available services (rail, autonomous vehicles, port operations)	• Italian • Italian • German • German • Greek

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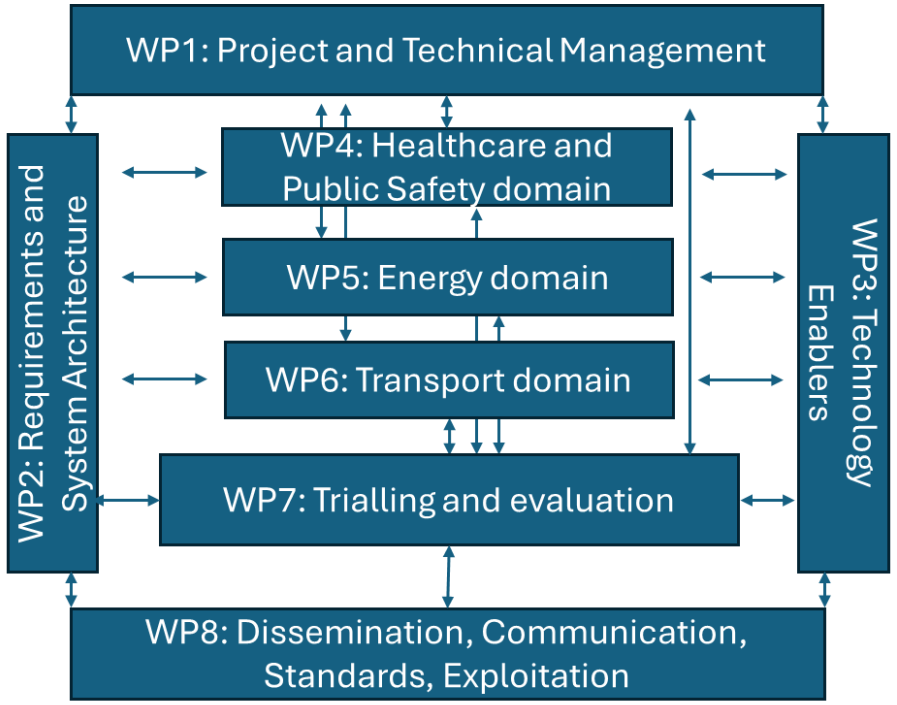
Project structure and partners competence



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Thank you!

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