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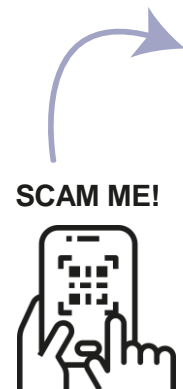
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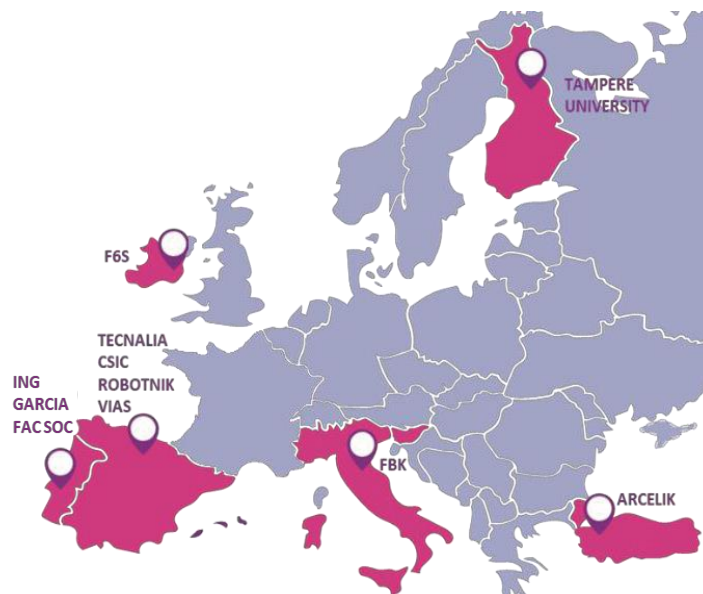
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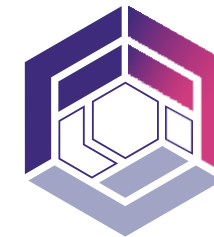
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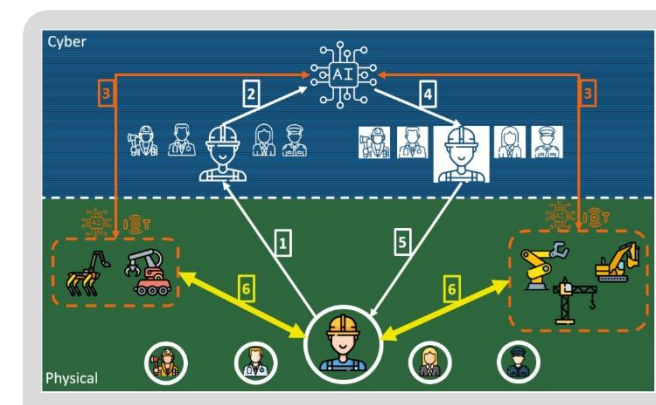


This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement № 101135707.



FORTIS

**Multi-Modal and Multi-Aspect
Holistic Human-Robot Interaction**

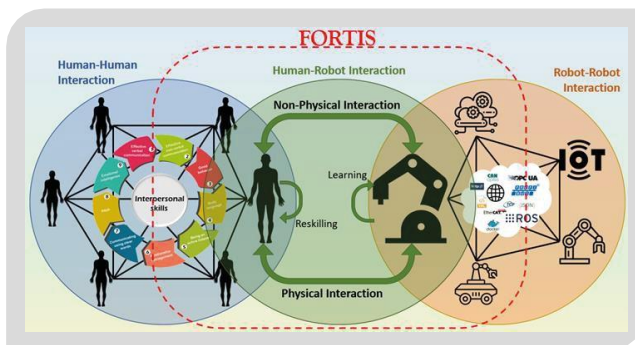


*Fuente: <https://fortis-project.eu>

Concept

What is FORTIS?

- Creation of a comprehensive interaction between humans and robots, encompassing both physical and non-physical communication.
- Studying how humans interact with each other. In Psychology, interpersonal skills or social intelligence refers to the ability to interact with others effectively and appropriately.
- Enabling continuous reskilling for humans and readaptation for robots for seamless interaction and communication between humans and robots may occur through **different modes**. To achieve complete human-robot interaction at all levels, the robot must understand the human's needs and communicate effectively using **different aspects**.



Objectives

FORTIS aims to provide a solution for enabling robots to interact with humans in a human-like way for long periods.

Therefore, the main objectives are:

- Develop, integrate, and provide a humancentric solution for modelling and analyzing humans.
- Develop and provide a flexible and agile multirobotic-centric solution interacting with humans.
- Integrate and provide the FORTIS solution where a safe and trustworthy Human-Robot interaction is guaranteed and provides optimized operations for both humans and robots.
- Demonstrate the solution for industrial pilots in construction, infrastructure services and manufacturing.



Pilot 1: Construction sector



Pilot 3: Manufacturing



Pilot 2: Infrastructure services

Open Calls



The FORTIS project is set to launch two rounds of Open calls, with a total budget of around 5 million euros.

- The project invites SMEs and startups, including robotic developers, technology providers, and robotic end-users, among others, to propose new solutions for HRI (human-robot interaction) that incorporate multi-modality in terms of human-robot communication, as well as multi-aspect in terms of human-robot non-physical interaction.

1st round: The first Open Call is scheduled to **launch in 2025**, with a total budget of 2 million euros.

2nd round: The second Open Call, with a total budget of 3 million euros, will be **launched in 2027**.

The winners of each open call receive continuous technical support throughout the corresponding subproject.



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