Expected outcomes

- → **Ensure the European leadership position** in the field of enabling technologies
- → **Increase the engagement and collaboration** between academic and industrial actors through the FORGING Forum
- → **Accelerate the adoption of emerging enabling technologies** from early stages (TRL3+)

DID YOU KNOW?

TRL, which stands for Technology Readiness Level, is a scale that assesses the level of maturity of a technology

FORGING

START DATE:
1st October 2022

DURATION:
36 months

BUDGET:
2 494 092.50 €

The Consortium includes **6 European Partners**

INL — INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY

G.A.C. GROUP — Innovation & Performance for Impact

STAM — MASTERING EXCELLENCE

i2cat

APRE — Agenzia per la Promozione della Ricerca Europea

VTT

Project coordinator :
International Iberian Nanotechnology Laboratory (INL), Portugal

🌐 https://forging-hub.eu

✉ info@forging-hub.eu

in LinkedIn

Aim

Develop new technological visions and pathways, placing the human being, society, and environment at the centre, in line with the industry 5.0 framework.

FORGING

FORUM FOR EMERGING ENABLING TECHNOLOGIES

in Support of the Digital and Green Transitions through Value Sensitive Innovations

About FORGING

Technologies are increasingly present and transforming different sectors of activity and everyday life. They offer various business opportunities and have the potential to improve peoples' lives and well-being, fostering innovation and progress.

At the same time, the application of emerging technologies has impacts at societal and environmental levels that need to be addressed and better understood.

FORGING aims at providing a pioneer methodology to assist the development of emerging enabling technologies for industry 5.0 and accelerate their uptake by industry and society. By exploring technologies that are **human-centered, respect planet boundaries, and maximise the benefits for society** as a whole, the project will help advance the green and digital transition.

DID YOU KNOW?

Emerging enabling technologies are defined as novel and promising technologies that bring benefits for society and the environment.

Objectives

→ To set up a collaborative multi-sectoral and multidisciplinary Forum of experts

→ To identify value sensitive technologies from early stages

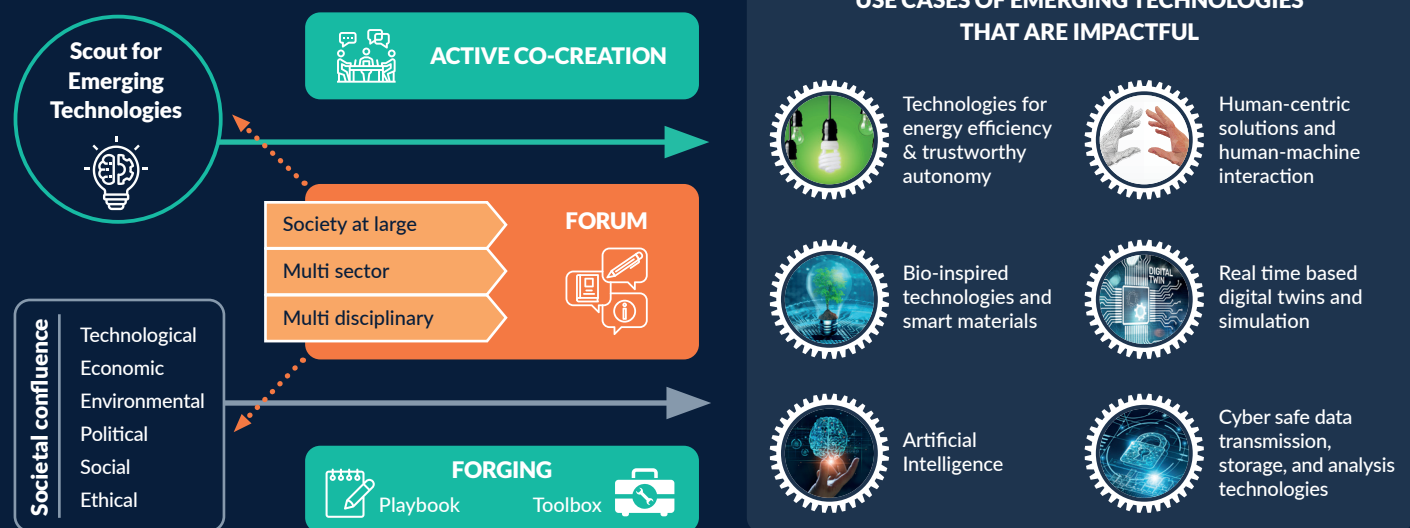→ To accelerate the uptake of emerging technologies by industry and society

DID YOU KNOW?

Value sensitive design is an approach that takes into account the human value when designing technologies

Overall approach

FORGING will organise co-creation workshops in order to engage with experts, who have a better understanding and knowledge of the emerging technologies' potential. These workshops explore the societal impact and the implications of those novel technologies.

To support this, the project builds on **6 technology frameworks** that will be tackled in co-creation activities involving experts from the FORGING Forum:

Scout for Emerging Technologies

ACTIVE CO-CREATION

Society at large
Multi sector
Multi disciplinary

FORUM

Societal confluence
Technological
Economic
Environmental
Political
Social
Ethical

FORGING
Playbook   Toolbox

USE CASES OF EMERGING TECHNOLOGIES THAT ARE IMPACTFUL

Technologies for energy efficiency & trustworthy autonomy

Human-centric solutions and human-machine interaction

Bio-inspired technologies and smart materials

Real time based digital twins and simulation

Artificial Intelligence

Cyber safe data transmission, storage, and analysis technologies

VALUE SENSITIVE INNOVATION JOURNEY

A Forum to expand the community

To better understand all these processes, FORGING will develop and build a Forum, a European expert community.

The Forum brings together a community of actors spanning different disciplines and sectors of society - technology, social sciences, industry and academia.

Multi-stakeholder exchanges feed the debate around the future of emerging technologies, their impact in society and the environment, hence redesigning the Innovation journey.

Want to get involved? Join our Forum !

Scan the QR Code below