

Boosting Wider Adoption of Robotics in Europe



Robotics4EU is a project funded under the European Union's Horizon 2020 research and innovation programme, which aims to ensure a more widespread adoption of (AI-based) robots in 4 application areas:

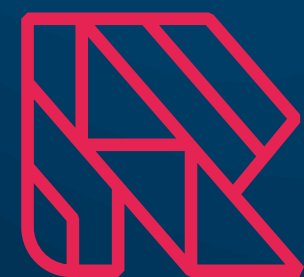


Considering the growth in population and growing needs for food, the global food system cannot be taken for granted. The agri-food sector needs to drive productivity, contribute to tackling climate change, address migration, urbanisation and population aging.



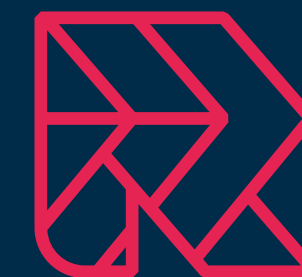
Research and innovation in the area of healthcare robotics has seen a significant growth in recent years. Due to demographic changes in many countries healthcare systems will come under increasing pressure as they deliver healthcare to an aging population.

Robotics4EU is a project funded under the European Union's Horizon 2020 research and innovation programme, which aims to ensure a more widespread adoption of (AI-based) robots in 4 application areas:



Robotics4EU
inspection and maintenance
of infrastructure

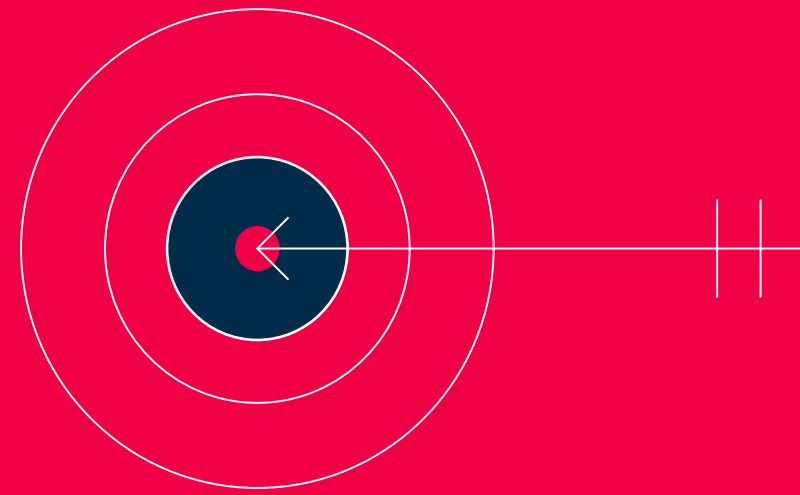
Over the next decade, intelligent robotic technologies will have a significant impact on transforming smart infrastructure, inspection and maintenance. Currently EU is a global leader in this rapidly growing field with more than half of all manufacturers of I&M robots based in Europe. There is massive potential for robotic applications, to increase productivity and improve safety.



Robotics4EU
agile production

Agile manufacturing is the processes, tools, and training needed to react swiftly to customer needs and changes in the market while still being able to control cost and quality. Traditional manufacturing was never agile. These days, manufacturing businesses need to react much quicker to changes in the market than they have ever done before and the only way to achieve this is by being agile.

Main objectives of the project



HOW CAN WE ensure a more widespread adoption of (AI-based) robots?

Through the implementation of responsible robotics principles among the robotics community that results in societal acceptance of the robotics solutions in each application area.

We will create and empower the EU-wide responsible robotics community representing robotics innovators from companies and academia in the four application areas, as well as citizens/ users and policy / decision makers by:



- raising awareness about non-technological aspects of robotics by organising community building and co-creation events bringing together the robotics community and citizens;



- advocating for the responsible robotics among all stakeholders' groups;



- developing a responsible robotics maturity assessment model and bringing the project results to the standardization bodies.



CORE Challenges of the project

Reducing the barriers that prevent a more widespread adoption of robotics in our 4 application areas

Addressing user needs, safety, ethical, gender, legal, societal and economic aspects, privacy and cybersecurity

The expected activities of Robotics4EU

- 1 . **Assessing** the needs and developing a responsible robotics maturity assessment model **that is a practical tool for the robotics developers and helps them to strategically plan the uptake of the legal, societal and ethical aspects of robotics;**
- 2 . **Empowering the robotics community by organising** capacity building events **in healthcare, agri-food, agile production and infrastructure;**
- 3 . **Assessing** robotics ideas and solutions **provided by the industry with end-users (via online consultation and co-creation workshops);**
- 4 . Reaching out to the policy makers **by compiling a responsible robotics advocacy report and organising a high-level policy debate;**
- 5 . **Integrating AI4EU and Robotics4EU platforms** that enable access to technological and non-technological tools and **ensure high visibility and added value to end-users from robotics community.**

CORE Principles of the project

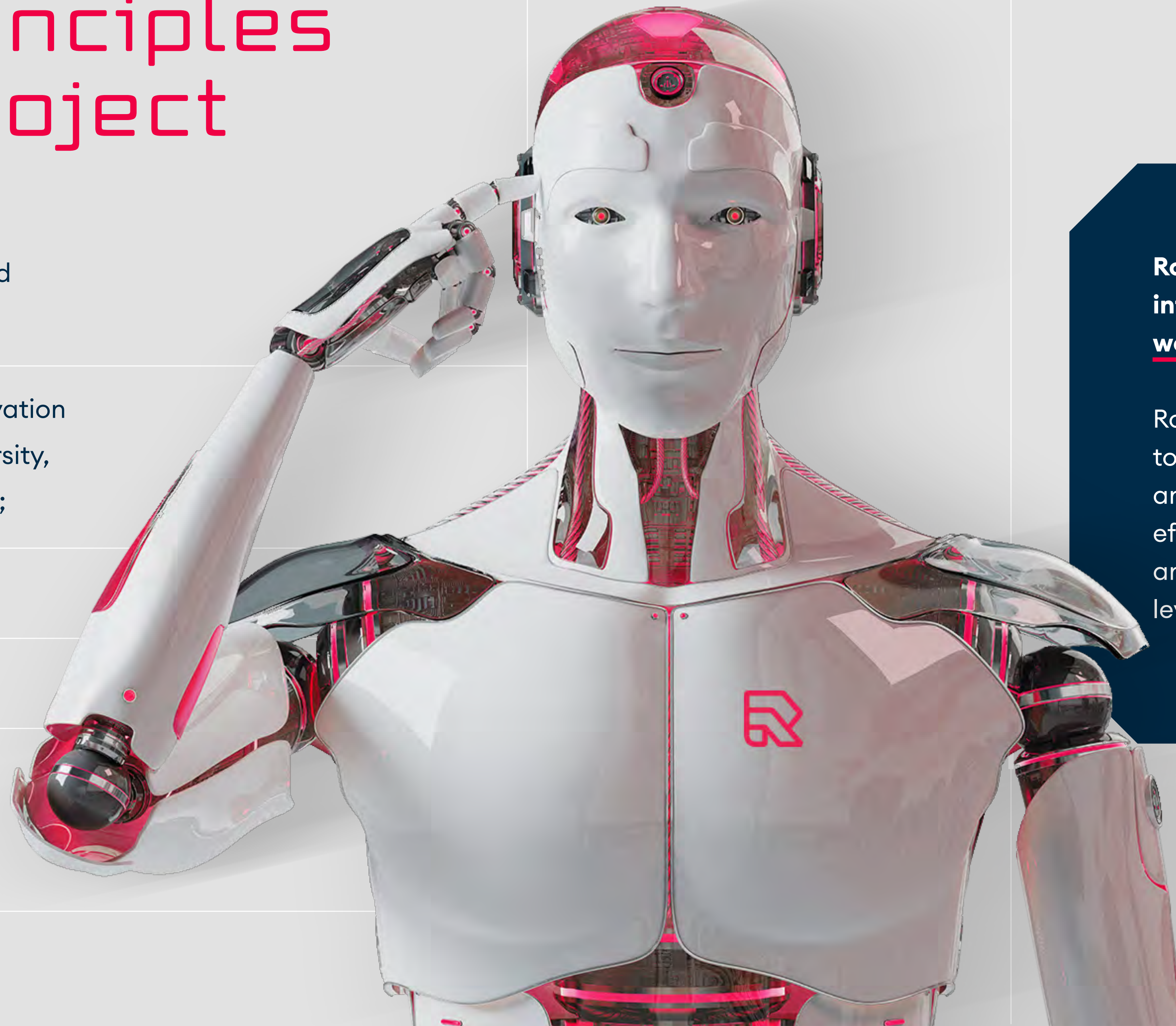
Integration of technological and societal readiness concepts;

Responsible research and innovation (SSH engagement, gender diversity, ethics, end-user's engagement);

Responsible robotics;

AI readiness;

Synergies with other robotics and responsible ICT projects and initiatives.



Robotics technology influences every aspect of work and home.

Robotics has the potential to positively transform lives and work practices, raise efficiency and safety levels and provide enhanced levels of service.

Do you want to know more about Robotics4EU?

Visit our website for more information:

robotics4eu.eu

consortium

CIVITTA

robotex
International

LOBA®

LABORATOIRE
NATIONAL
DE MÉTROLOGIE
ET D'ESSAIS **LNE**



AgriFood **DIH**
Lithuania

 **NTNU**
Norwegian University of
Science and Technology

follow
us on

f t in v
@robotics4eu



This project has received
funding from the European
Union's Horizon 2020 research
and innovation programme
under grant agreement No
101017283