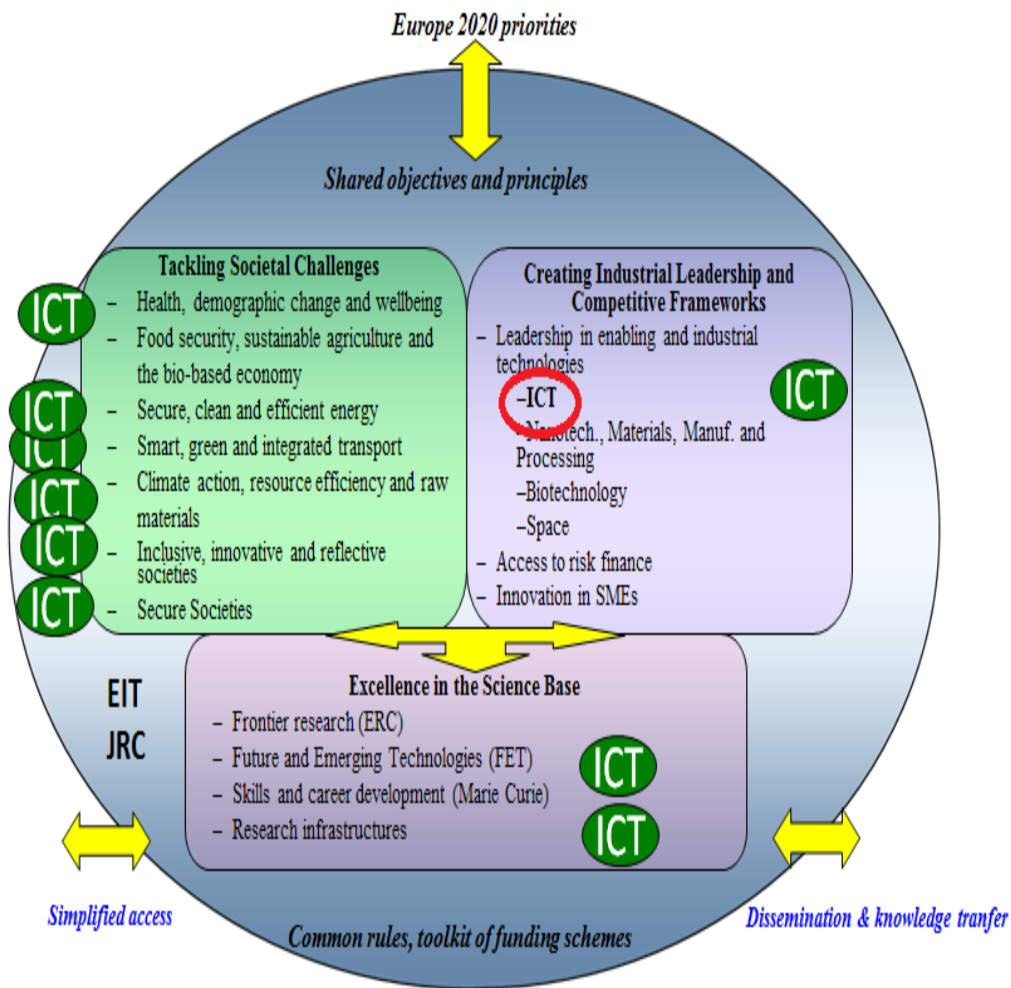


Robotics

SSH and RRI contents

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- Millions of robots in the world today, many more tomorrow
- Not just on the factory floor, but also in services sectors
- Can we afford to have a lot of dumb machines running around?

⇒ EU-funded research programme on robotics

- **Largest public funded programme** in the world (civil)
- **Portfolio of >100 projects, ~500 M€ funding**
- **Research // Technology Transfer // Industry-Academia cross-fertilisation // Socio-economic aspects // Ethical, legal and social aspects**
- **H2020 WP2014-2015: ICT 23 – ICT 24**

b. Innovation Actions: Technology transfer - Industry-academia cross-fertilisation

The aim is to gear up and accelerate cross-fertilisation between academic and industrial robotics research to strengthen synergies between their respective research agendas through joint industrially-relevant scenarios, shared research infrastructures and joint small- to medium-scale experiments with industrial platforms. Proposals are expected to demonstrate technology transfer in professional or service robotics, in application areas such as manufacturing, commercial, civil, agriculture, healthcare, consumer or transport.

Activities are expected to be clustered to facilitate a sectorial structured dialogue and to substantially improve overall impact. The action may involve financial support to third parties in line with the conditions set out in Part K of the General Annexes. In such case, the consortium will define the selection process for additional academic/research organisations, industry or end-users as appropriate to carry out the experiments in order to reach the objectives defined in the proposals.

²⁴ The input comes from the Strategic research agenda of the PPP that is publicly available on the euRobotics AISBL website (<http://www.eu-robotics.net/ppp/downloads/>); its content results from continuous consultation of the whole European robotics community. The prioritisation of the topics follows a formal procedure established by the euRobotics AISBL, whose membership is open to all European stakeholders in Robotics – <http://www.eu-robotics.net/ppp/>.

c. Innovation Actions: Technology transfer - Robotics use cases

Using leading edge science and technology, a targeted effort will aim at introducing, testing and validating promising and innovative robotics solutions in industrial and service sectors. The focus will be on the robust operational deployment of these robotic solutions, based on performance objectives, metrics, and user needs. The strong involvement of all relevant stakeholders in the value chain is essential.

d. Pre-commercial procurement in robotics

Demand-driven innovation actions will be pursued in areas of public interest, including pre-commercial procurement of innovative robotics solutions for the healthcare sector.

e. Coordination Actions: Community building and Robotic competitions

- Supporting the European robotics community with respect to networking, education, outreach, public awareness, technology watch, standardisation, and industry-academia collaboration as well as building links to national programmes and initiatives. Also, ethical, legal, societal and economical aspects of robotics will be addressed to ensure wider take up of the technology by citizens and businesses.
- Support international cooperation, where the impact of the action is demonstrated and matching resources are provided from cooperating parties.
- Coordinating work on the next generation of cognitive systems and robotics to reinforce the links between the different research disciplines ensuring transfer of knowledge and community building.
- Coordination and support actions for organising robotic competitions will be called for to speed up progress towards smarter robots.

ICT 24 - 2015: Robotics (dedicated)

ICT 24. e CSA: community building and robotic competitions (2 CSAs?)

Supporting the Robotics Public-Private Partnership

<http://www.eu-robotics.net/ppp/>

More specifically support for:
Networking, education, public awareness, standardisation, connecting to national programmes, intern. cooperation; **ethical, legal, societal and economic issues**

Also to be covered: Coordinating the cognitive systems community and reinforcing links between robotics and cognitive systems