



Robotics in Horizon 2020

Introduction

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Key issues – research challenges

- *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?*



How do we address today's issues







- *A dedicated unit created nine years ago*
- *More than 100 ongoing projects today with over 700 partners*
- *70-80 M€ funding of new projects per year*
- *Usually 1 Call/year with up to 200 proposals*
- *20 new projects launched every year*
- *Not the only robotics activity...*



Impact of the EU effort

- **Largest public funded programme in the world (civil)**
- **Substantial addition to the body of knowledge** (hundreds if not thousands of publications, papers, presentations etc)
- **Catching public imagination** (e.g. London Science Museum, European robotics weeks)
- **Uses can be envisaged in serious areas e.g. search & rescue**
- **Progressing towards socio-economic aspects**

Robotics in FP7

APPLICATION SCENARIOS ▶	✧ ROBOTIC WORKERS	✧ ROBOTIC CO-WORKERS	✧ LOGISTICS ROBOTS	✧ ROBOTS FOR SURVEILLANCE & INTERVENTION	✧ ROBOTS FOR EXPLORATION & INSPECTION	✧ EDUTAINMENT ROBOTS
SECTORS ▼						
✧ INDUSTRIAL						
✧ PROFESSIONAL SERVICE						
✧ DOMESTIC SERVICE						
✧ SECURITY						
✧ SPACE						

**Portfolio of >100 projects,
~500 M€ funding**



Robotics in H2020: PPP

What is a PPP?

"...a government service or private business venture which is funded and operated through a partnership of government and one or more private sector organisations."

PPP stands for **P**ublic-**P**rivate **P**artnership

- Public side = European Commission
- Private side = Companies, universities (which can be public bodies), research organisations, NGOs

Goal: To strengthen the competitive position of Europe in a particular business sector

- Mutual development of research strategy & commitment to invest in a sector
- Not limited to research, also looking at other areas such as regulation, policy, trade, non-technical barriers, etc.

Specific goals of the PPP in Robotics

- *Develop strategic goals of European robotics and foster their implementation*
- *Improve industrial competitiveness of EU through innovative robotic technologies*
- *Position robotics as a key enabler for solving Europe's societal challenges*
- *Strengthen networking activities of the European robotics community*
- *Promote European robotics*
- *Reach out to new users and markets*
- *Contribute to policy development and addressing ethical, legal and societal issues*

Private side of the PPP

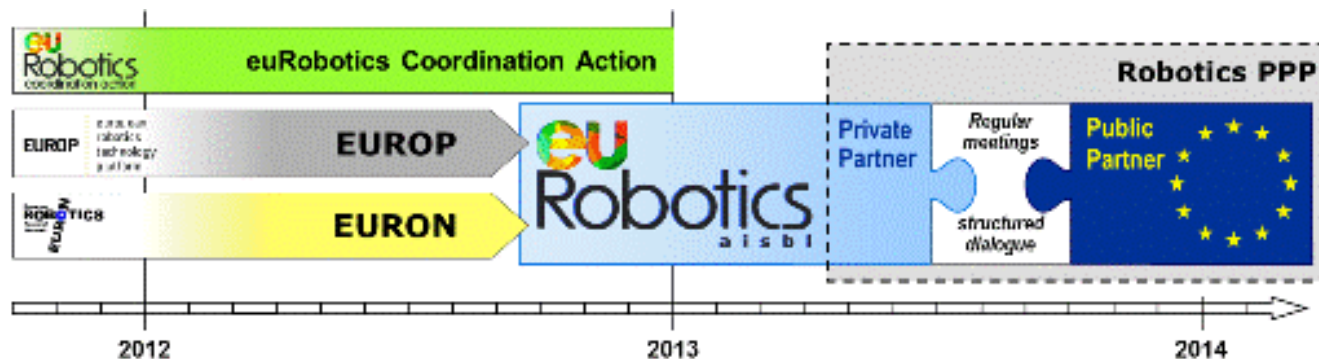
- *Not-for-profit organisation eurobotics aisbl founded under Belgian law in September 2012*
- *President, Vice-Presidents and Board of Directors recently elected*
- *Memorandum of Understanding signed between the EC (VP Neelie Kroes) and eurobotics aisbl on 18 September 2012*
- ***Contractual PPP formally established on 17 December 2013***



PPP Contractual Agreement

The European Commission (=public side) and eurobotics aisbl (=private side) have signed a contractual agreement covering:

- the objectives of the partnership
- the commitments of the partners
- key performance indicators
- outputs to be delivered
- the governance structure
- appropriate actions in case of breach of the agreement

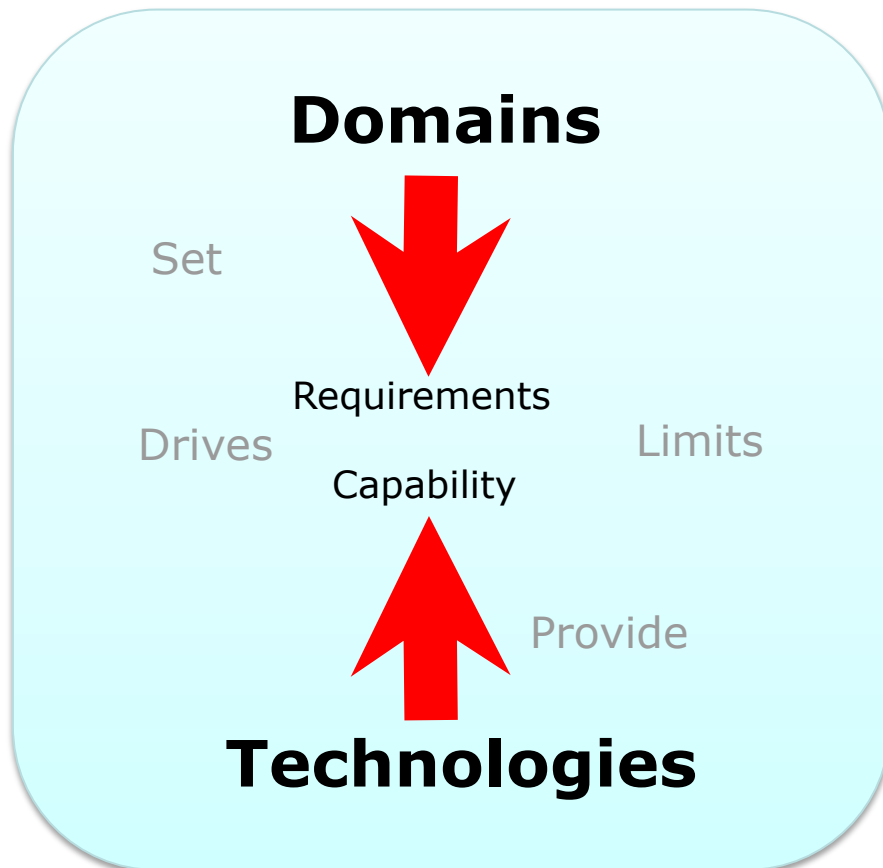


PPP and you

Be part of it & play an active role to:

- Define the **Strategic Research Agenda for Robotics R&I (SRA)**
- Establish the **Multi-Annual Roadmap (MAR)**
-> Priorities in R&D&I Workprogramme

PPP: Strategic Research Agenda





European
Commission

THANK YOU!