



eu ROBOTICS



SPARC

The Partnership for
Robotics in Europe

Robotics needs AI, AI needs robotics





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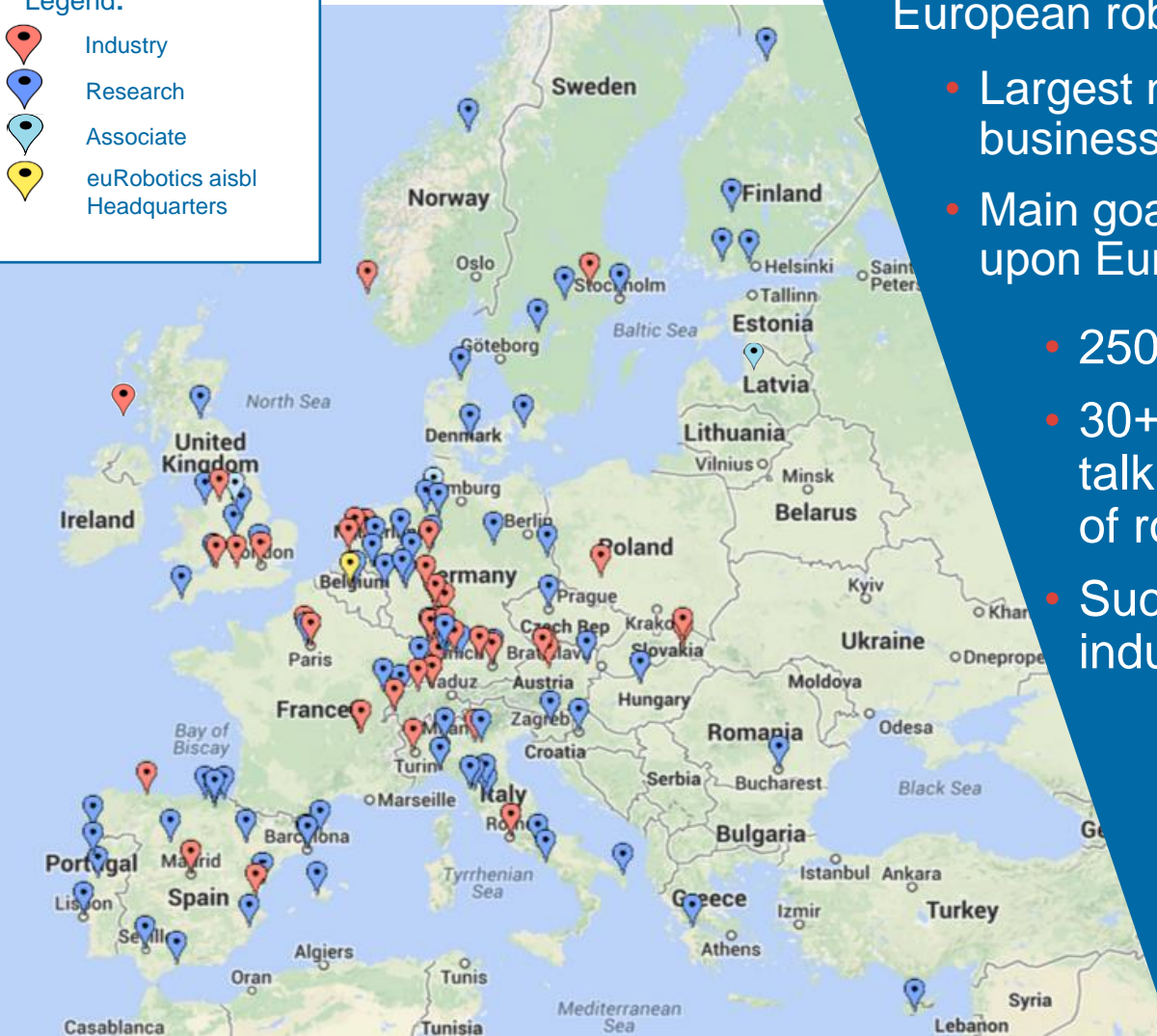
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– the private side of SPARC

> 250 Member Organisations

Legend:

-  Industry
-  Research
-  Associate
-  euRobotics aisbl Headquarters



- non-profit organisation for all stakeholders in European robotics, founded in 2012
- Largest network of roboticists and business in Europe
- Main goal is to leverage network to build upon Europe's leadership in robotics
- 250+ members and growing
- 30+ Topic Groups: “grass roots” talking shops covering wide range of robotics-related issues
- Successful collaboration between industrial and academic players



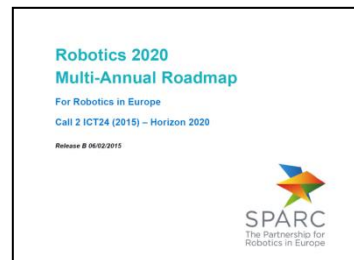
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SPARC – the Public-Private Partnership



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- SPARC: The largest civilian robotics R&D&I program
- €0.7bn funding from the EU 2014–2020
- €2.1bn from the private/industrial side



SRA = Strategic Research Agenda

MAR = Multi-annual roadmap

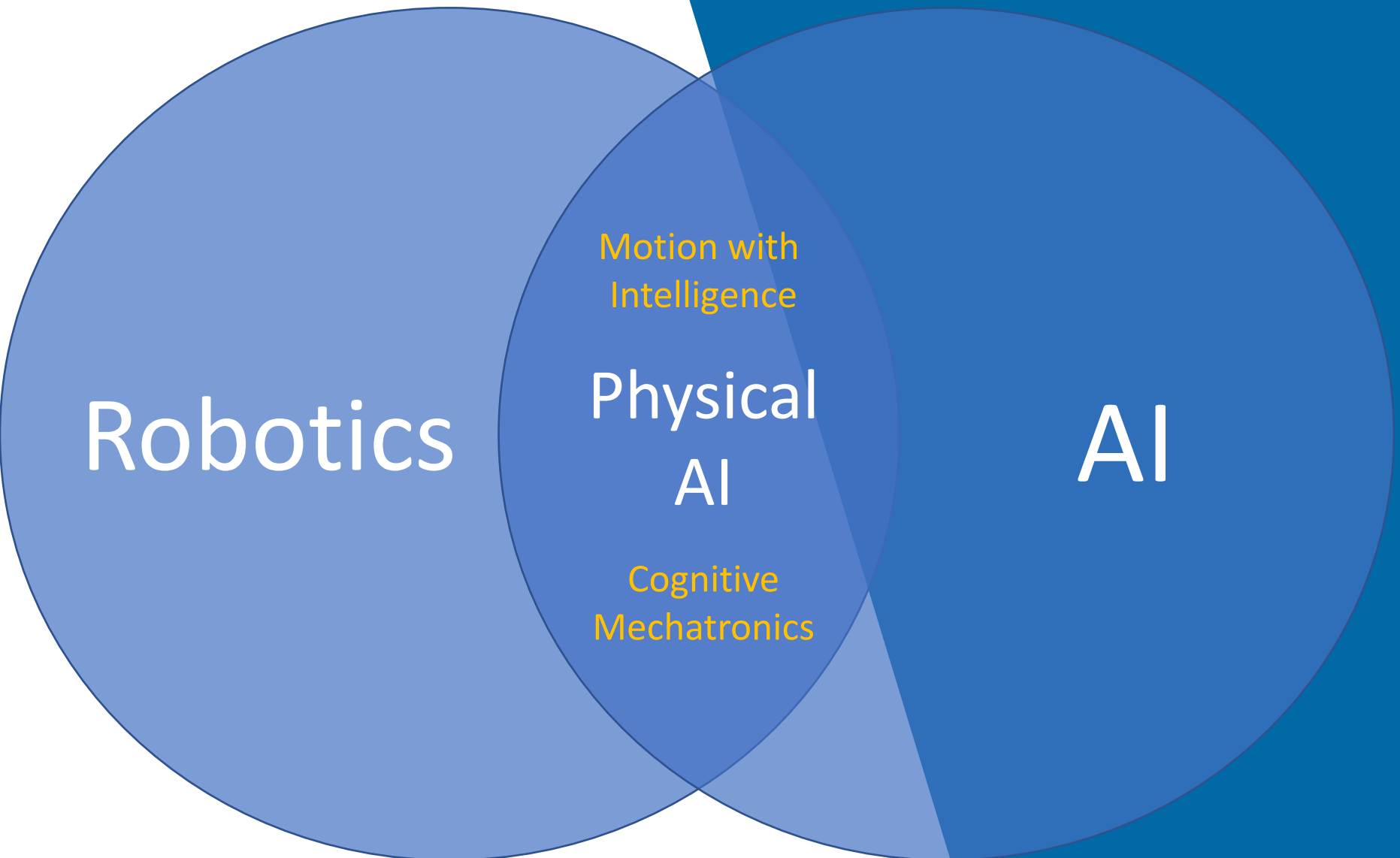
Robot Applications

- Priority Application Areas:
 - Agile Manufacturing
 - Healthcare
 - Agri-Food
 - Maintenance & Inspection

- Complex physical workplaces
 - Precision
 - Dexterity
 - Intelligence
 - Safety
 - Robustness
 - Reliability



Robotics and AI



Robotics

Motion with
Intelligence

Physical
AI

Cognitive
Mechatronics

AI

Robotics in Priority Application Areas

Healthcare
Agri-Food
Agile Manufacturing
Inspection & Maintenance

Data Rich Application Environments



Accessible AI

AI on demand platform

Knowledge

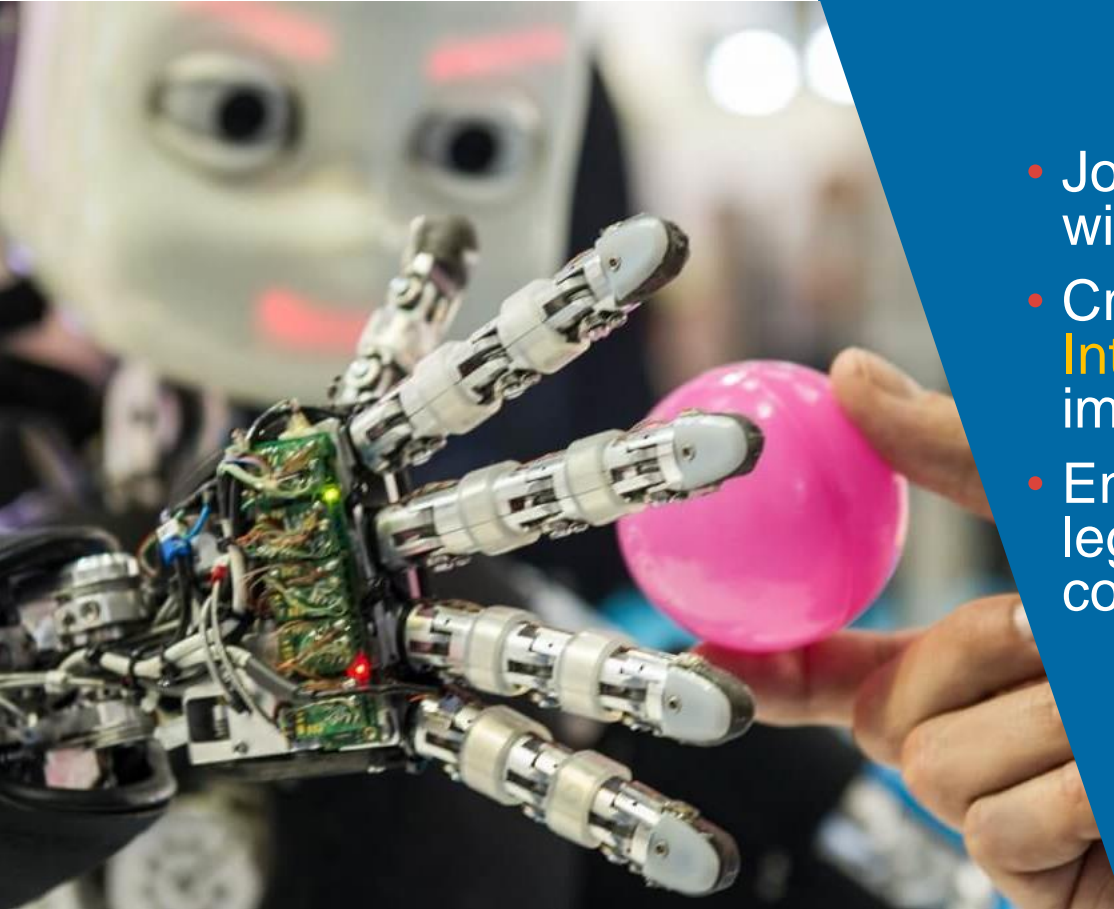
Data

AI technology

Interaction: Robotics and AI

- Robotics needs access to the best AI
- AI could get access to data rich applications
- Platforms can connect the two
- Services can be delivered
- Applications developed jointly

“Robotics needs AI, AI needs Robotics”



- Join European excellence in AI with excellence in Robotics
- Create machines with **Physical Intelligence** that support and improve all aspects of human life
- Ensure that safety, ethical and legal constraints are never compromised.

Partnerships: Next Steps

- Develop an AI partnership
 - Deliver a joint strategic roadmap
 - Engage with the Commission
-
- Joint workshops
 - Develop a common terminology
 - Involve end users to create common challenges
 - Connect with the Digital Innovation Hub networks





Join Us! – Upcoming public events



EUROPEAN ROBOTICS WEEK

Brought to you by SPARC

16-25 Nov 2018
Central event in
Augsburg, Germany



EUROPEAN ROBOTICS FORUM

Brought to you by SPARC

20-22 March 2019,
Bucharest,
Romania





Thank you!

More information on
www.eu-robotics.net

