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# Robotics in Europe: Where do we need to go?

27 January 2021

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# Looking forward: Robotics in the next decade

Robotics can contribute to Europe's challenges:

- Healthy living
- Growing the economy
- Achieving the green and digital revolution





AEROARMS project

## Assisting humans and not replacing jobs: The best of both worlds



Sweeper project



© UVD robots

- Agri-food: Product quality, food safety
- Healthcare: telemedicine, surgery, logistics, ...
- Safety: avoid risky, dirty and physically challenging tasks, inspection and maintenance, nuclear, ...

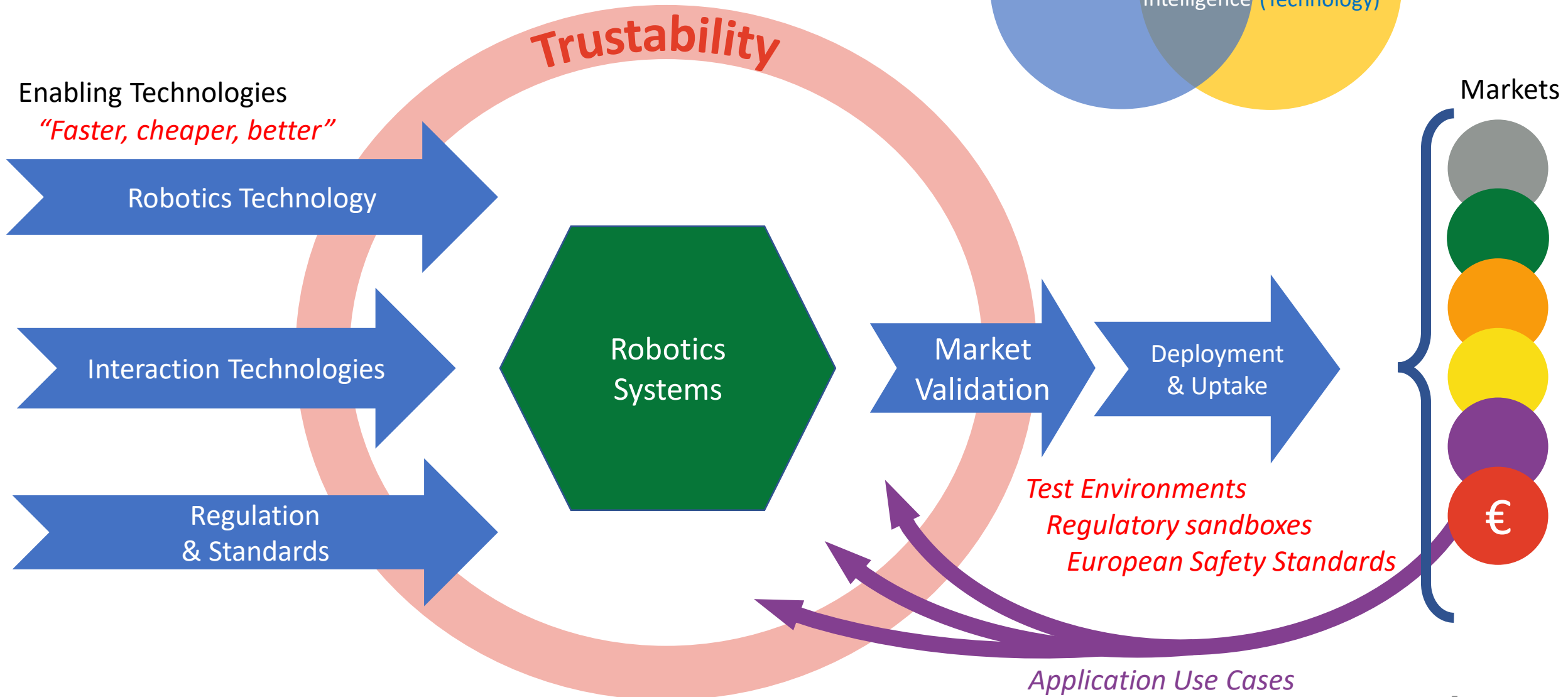


## Bringing robots to the market

### Challenges:

- Driving robotics uptake in verticals: Connecting technology to applications
- Improving awareness of where robots add value
- Demonstrating robotics at scale: showing return on investment

# Building Trustable Robots





## It's not only Software ...

### *Moravec's paradox*

AI can play e.g. Go on world class level, but robots still cannot play with bricks like a 3-year old

Not only software, but AI powered smart machines

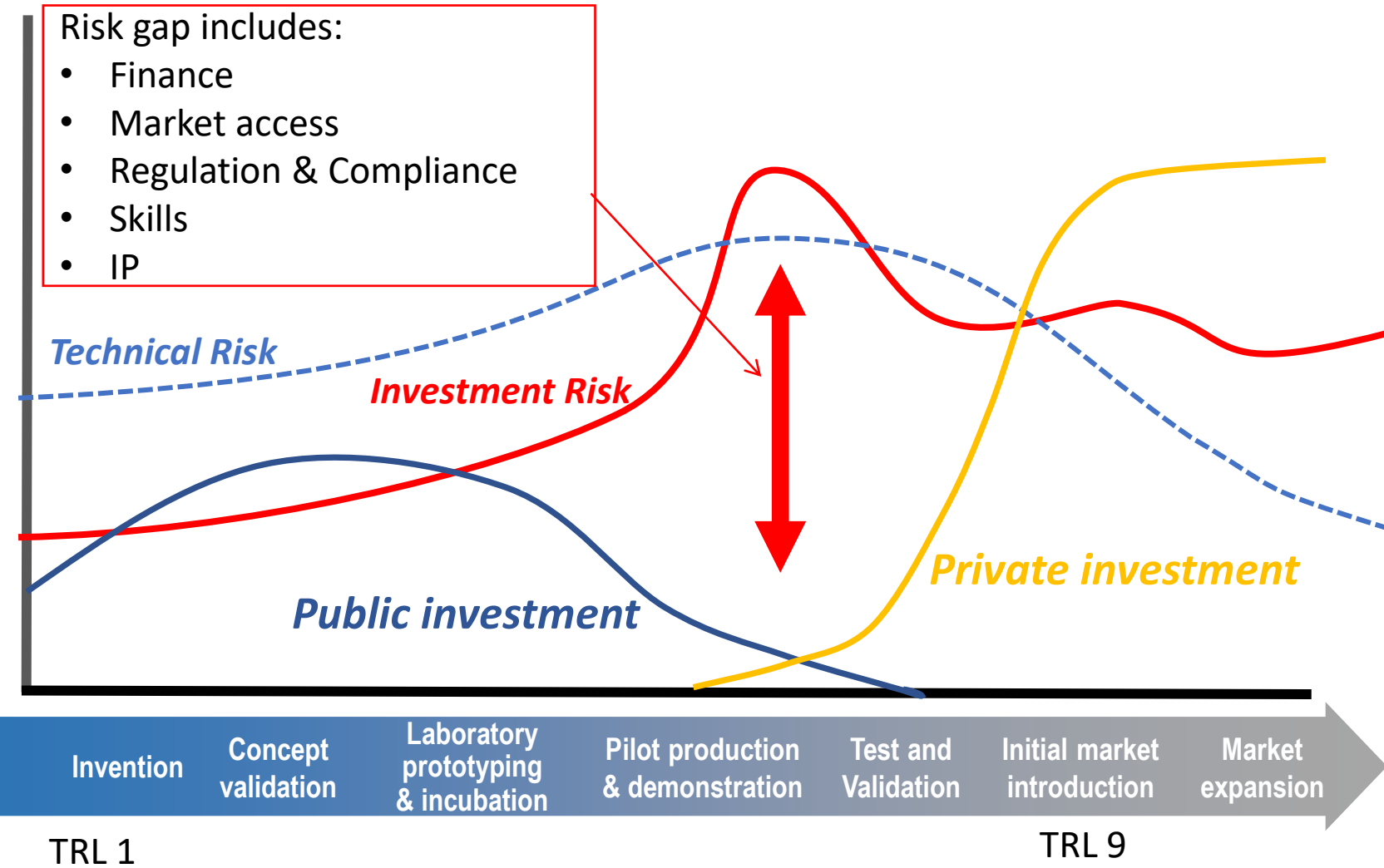
Robots physically “embody” AI

Challenge: robots need to interact naturally



# Robotics development – investment and time

- Risk gap includes:
- Finance
  - Market access
  - Regulation & Compliance
  - Skills
  - IP



SMEs are an important driver

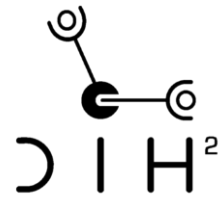
Closing the risk gap is important

Instruments to keep technology in Europe needed



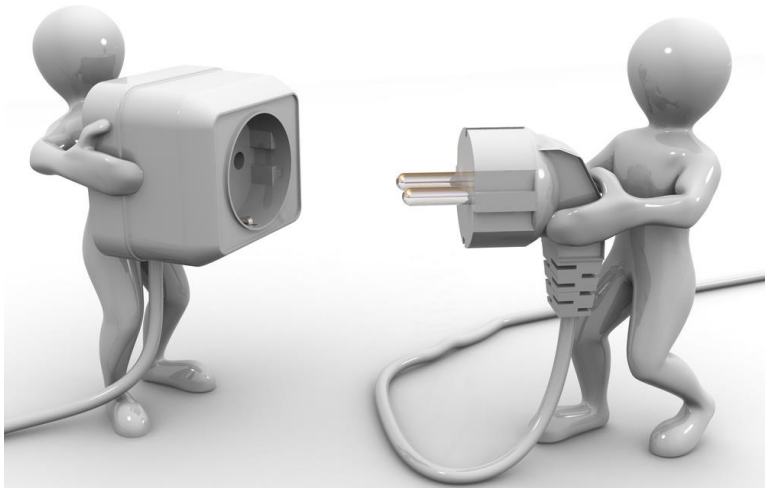
# Addressing SMEs

- Need to drive robotics uptake in manufacturing and service SMEs
- Issues around driving uptake:
  - Lack of understanding of digitisation
  - Lack of access to technology
  - Lack of clarity on return on investment
  - Lack of skills to digitise
- DIH networks support the translation into different application areas: *Healthcare, Agri-food, Maintenance & Inspection, Agile Production*



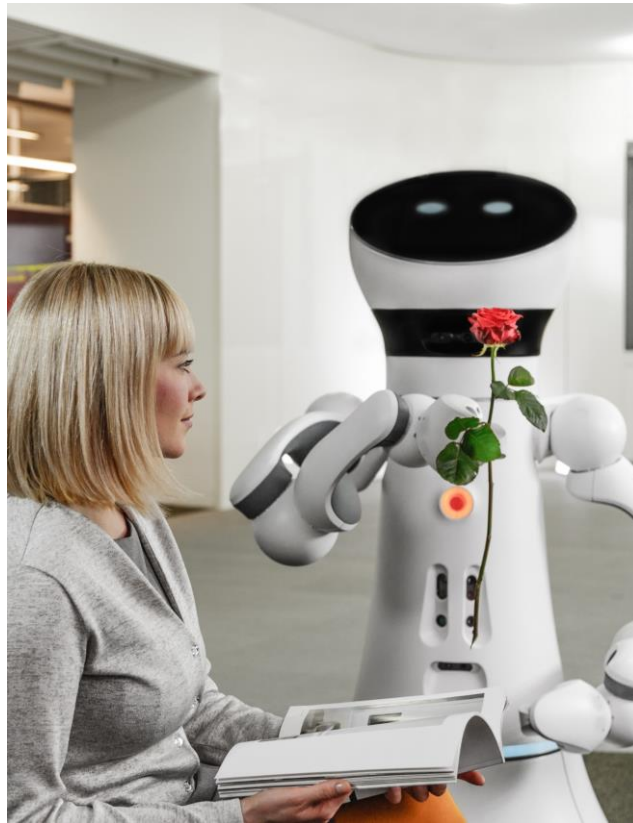
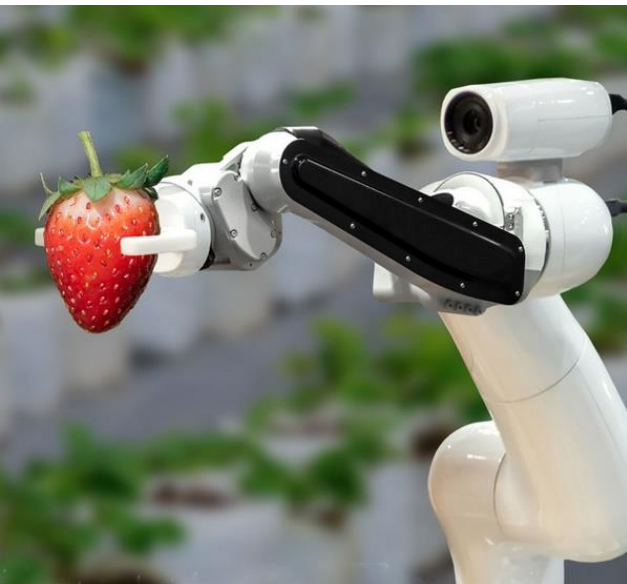
NETWORK OF DIGITAL  
INNOVATION HUBS IN ROBOTICS





## Impact - The big picture

- Robots need to be easily deployed and used: plug and play by end users
- Make business more resilient: agile production and service delivery
- Robots impact green digital: supporting the circular economy, recycling, reducing waste, ...
- Covid showed that transformation can be needed more rapidly than expected



# Where do we want to be in the next decade?

Greater uptake of robotics – not replacing people, but supporting them to work better and more healthily

A growing European Robotics industry and supply chain and ecosystem

Supported by SMEs that have scaled up taking advantage of new markets

Regulation for a new age – with robots as part of our daily lives



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Thank you!