



THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

***H2020 Robotics projects &  
FP7 EuRoc / ECHORD++***

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**European Commission**

# Objectives and content of the session

- Official presentation the new H2020 Robotics projects
- Each project:
  - unique contribution + expected impact.
- FP7 Echord++ and EuRoC:
  - activities and services they offer

# Agenda

- Introduction and portfolio overview
- First H2020 Robotics Projects: Contribution to the SRA and Expected Impact

"My project will make a change!"

Pitch from **17** Projects in **3** slides, **4** minutes

- Ambition**: Step Change in robotics technology and ability?
- How**: what is our approach?
- Impact** on the Application Domain

## ➔ SUMMARIES OF H2020 ROBOTICS PROJECTS:

[http://ec.europa.eu/information\\_society/newsroom/cf/dae/document.cfm?action=display&doc\\_id=8396](http://ec.europa.eu/information_society/newsroom/cf/dae/document.cfm?action=display&doc_id=8396)

- **Echord++**: How can you all benefit from it?"
- **EuRoC**: Contribution to the SRA: current state of the technology and future requirements!"

ERF – European Robotics Forum – 12 MARCH 2015 – H2020 projects & EuRoC & ECHORD++

# Market Domains

**CIVIL**

(B2G = business to government)

**COMMERCIAL**

(B2B = business to business)

**MANUFACTURING**

**AGRICULTURE**

**HEALTHCARE**

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# CIVIL

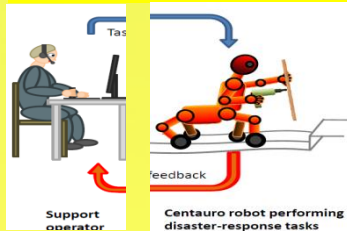


**AEROWORKS**  
aerial collaborative robots  
Infrastructure inspection & maintenance

**Centauro:**  
Urban  
search and Rescue



**Smokebot**  
support to  
fire brigades  
and Search  
and Rescue



**RoMaNS:** Nuclear handling  
waste material

# COMMERCIAL



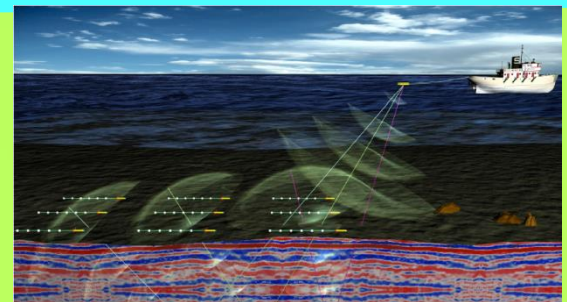
**AEROARMS:**  
Oil/gas industry



**FLOBOT:** Professional Floor Washing



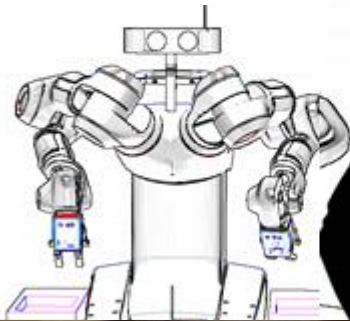
**SoMa:** On-  
Line Store:  
Packing of  
Fruits and  
Vegetables



**WiMUST:** Marine Geosciences –  
distributed sensors

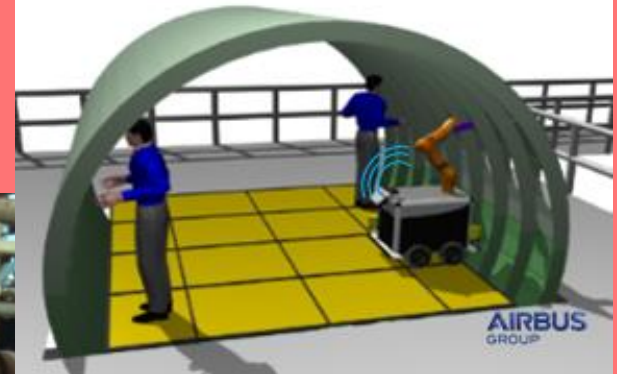
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SARAFUN: robot for small parts assembly



# MANUFACTURING

COMMANOID: HRI – aircraft manufacturing



secondHands: maintenance of production machinery



ROBDREAM: autonomous and assistive tasks in manufacturing.  
Machine tending and assembly tasks

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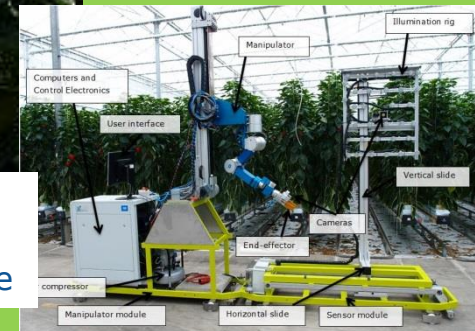
# AGRICULTURE



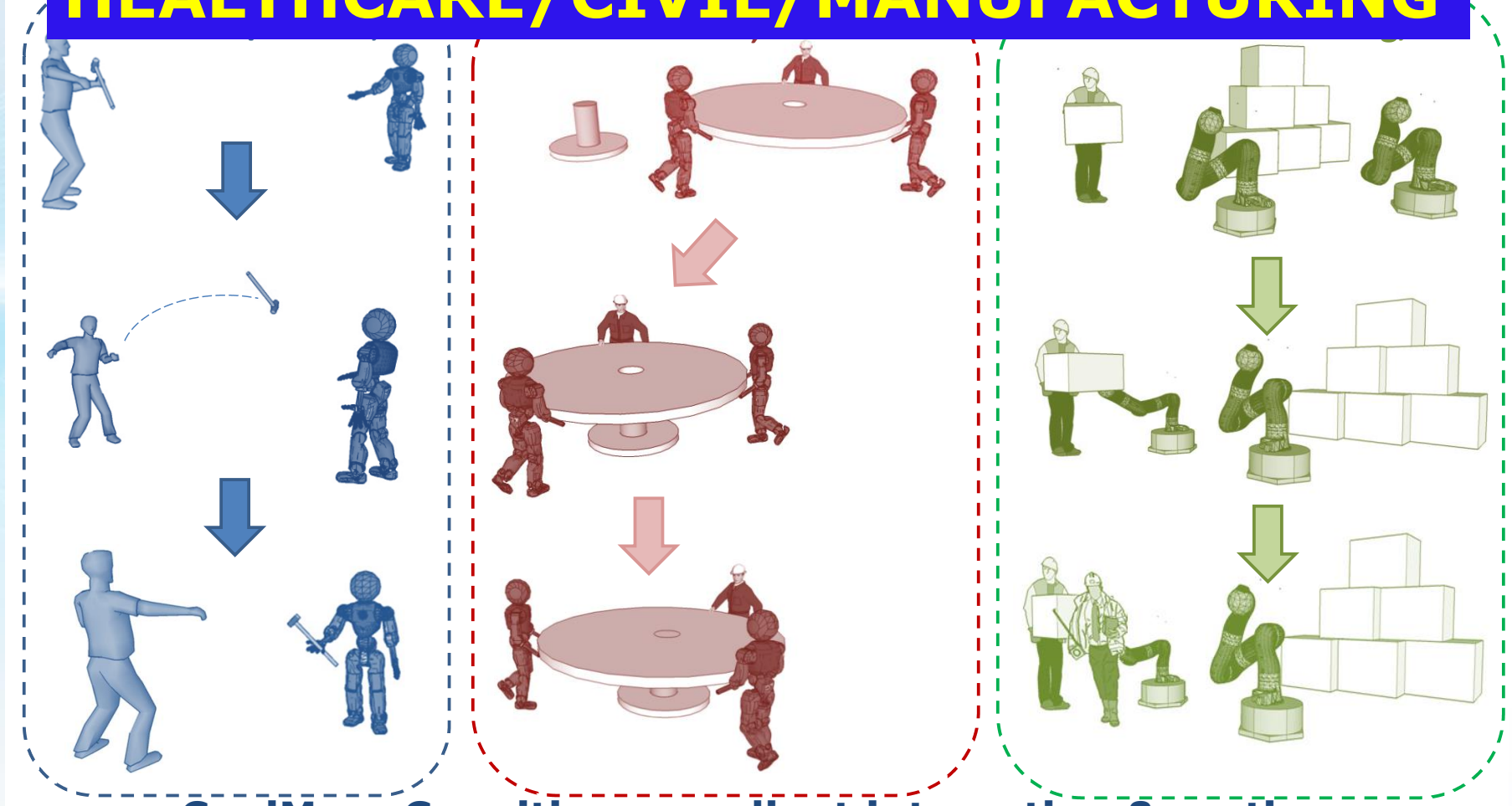
Flourish:  
aerial data collection and  
automated ground intervention  
for precision farming



SWEeper:  
Harvesting robot  
in Greenhouse Horticulture



# HEALTHCARE/CIVIL/MANUFACTURING

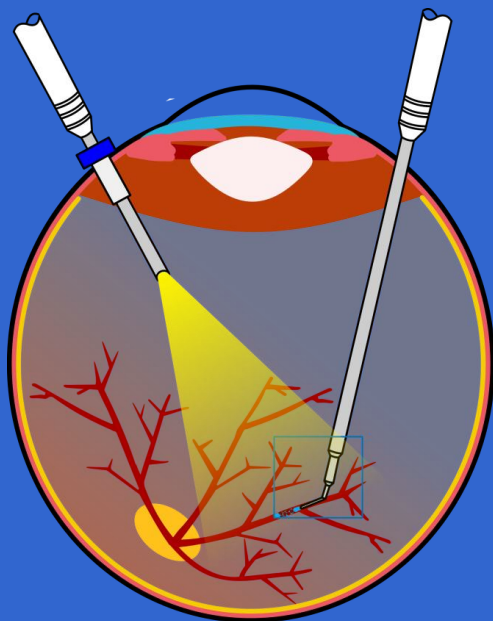


**CogiMon: Cognitive compliant interaction & motion  
Therapeutic & Team Interaction**

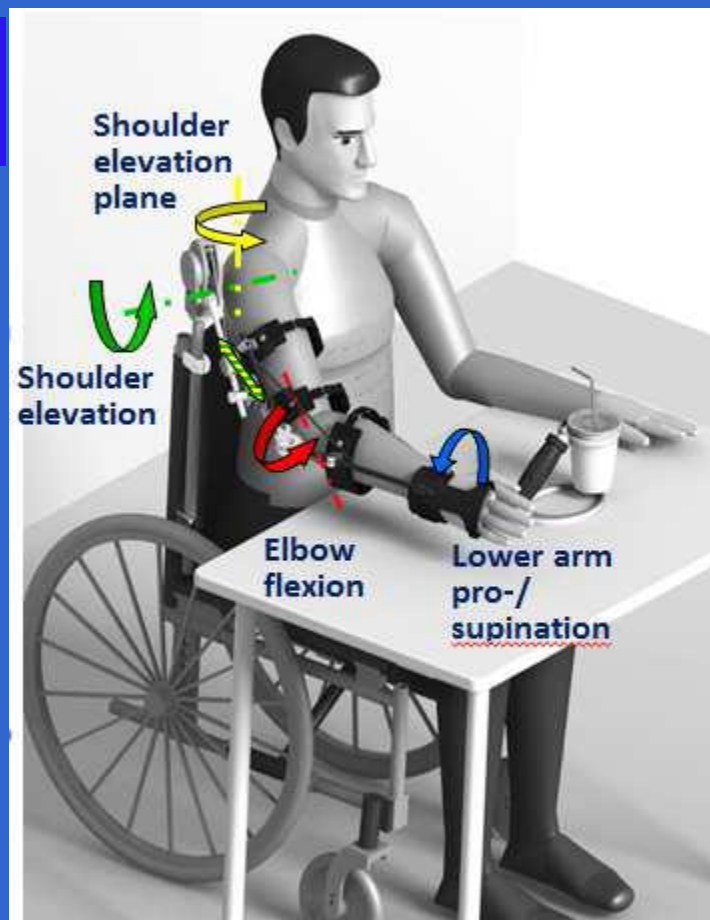
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# HEALTHCARE



EurEyeCase: Eye Surgery



RETRAINER: Rehabilitation

# FP7 "community service" projects



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# THANK YOU

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# HORIZON 2020

