

EuRoC in a Nutshell

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Motivation



- The European manufacturing industry needs competitive solutions to keep global leadership in products and services
- Challenges drive innovation
- Robotics competitions have great potential for fostering R&D and supporting transfer between academia and industry



EuRoC project

- Question the status quo of technology transfer
- Benchmark on existing shared resources
- Showcase potential of robotics challenges

Objectives

1. Successfully run three challenges

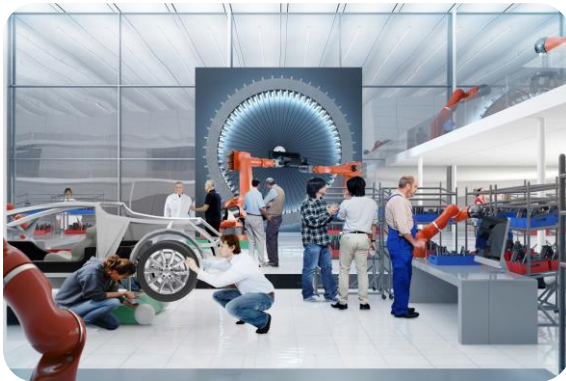
- Involving whole supply chains within **production**, **logistics** and **servicing**
- Open call framework
- Three stages of increasing complexity

2. Empower robotics platforms and benchmark infrastructures

- Sharing existing resources available at three top European platforms

3. Ensure sustainability and adaptability to end users

- Experiments in labs under realistic conditions, then taken down to real field



**Reconfigurable Interactive
Manufacturing Cell (RIMC)**









**Shop Floor Logistics
and Manipulation (SFLM)**



**Plant Servicing
and Inspection (PSI)**

Contribution to SRA

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

Expected Results and Impact

● Project lures

- Whole value chain of end users, technology developers and system integrators on board from start
- Benchmark new algorithms on three shared platforms
- Open access to platforms
- Full support from local hosts and end users
- Test algorithms at end-user site in the final stage

● Future assets

- Strengthen competitiveness of European robotics industry in production, logistics and servicing
- Innovation potential and later market uptake much higher than with from scratch developments (even when based on standard robot equipment)
- Paving the way for introducing new robot solutions in different manufacturing applications