



EuRoC

Bruno Siciliano

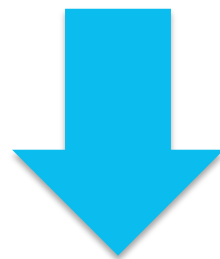
CREATE/UNINA



Workshop on
“Shared resources, benchmarking and performance evaluation”
Wednesday 12 March 2014 • 14:00–15:30

The Motivation

The European manufacturing industry needs competitive solutions to keep global leadership in products and services



EuRoC project

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

The Consortium

KUKA

**ASCENDING
TECHNOLOGIES**



Fraunhofer
IPA

LAAS-CNRS



INNOCENTIVE®

ETH Zürich

ALSTOM
Inspection Robotics



The Objectives

1. Successfully run the three challenges

- Involving whole manufacturing supply chains within **production**, **logistics** and **servicing** while favouring technology transfer from academia to industry

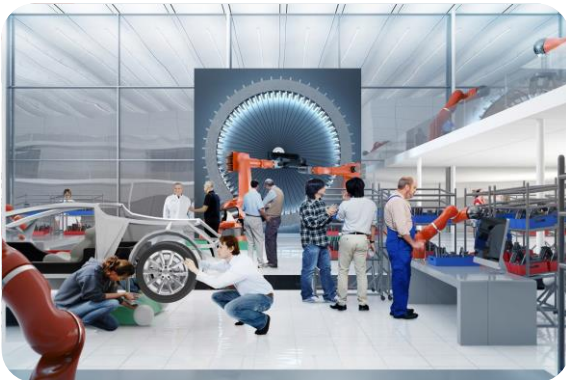
2. Empower robotics platforms and benchmark infrastructures

- Sharing existing resources available at three top European platforms

3. Ensure sustainability and adaptability to end users

- Developing experiments in labs under realistic conditions and taking them down to the real field

- **Three industry-relevant Challenges**
 - Open call framework
 - Three stages of increasing complexity (incl. application experiments)
 - Financial support
 - **Benchmarking and performance evaluation on shared resources**



**Reconfigurable Interactive
Manufacturing Cell**

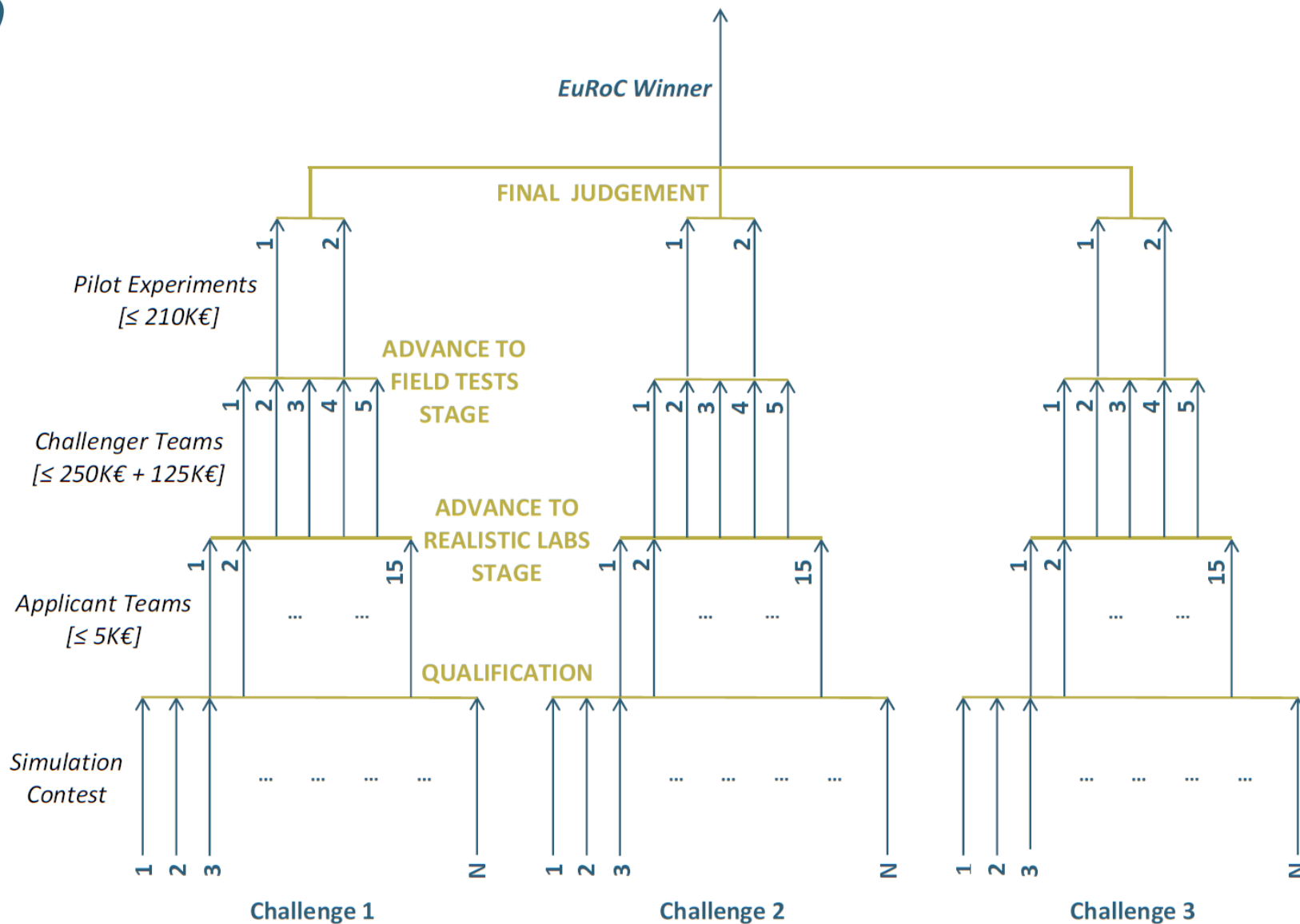


**Shop Floor Logistics
and Manipulation**



**Plant Inspection
and Servicing**

The Challenge Chart



The Project Lures

- 1. Cumulative sum of € 7 M grant money available to the Challengers**
 - 30 Teams will receive up to € 5 K each in the first stage
 - 9 Teams will receive up to € 375 K each in the two stages
 - 6 Teams will receive up to € 585 K each in the three stages
- 2. Added value of the challenge experiments**
 - Benchmark new algorithms on three first-class European hosting platforms
 - End users, technology developers and system integrators on board from start
 - Open access to platforms
 - Full support from local hosts and end users
 - Test algorithms at end-user site in the final stage
 - Financial support available to cover personnel and travel/lodge costs
- 3. Formation of Challenger teams**
 - Gain business experience
 - Great networking opportunities

Call for Challengers

- Publication: 1 April 2014
- Deadline: 30 June 2014

Call for End Users

- Publication: 1 April 2014
- Deadline: 15 November 2014

To Know More

- 3rd Workshop on “Robot Competitions, Challenges and Benchmarking — Exploring the Synergies”

Thursday 13 March, 8:30–10:30

- Workshop on “Additional Funding Opportunities”

Thursday 13 March, 12:00–12:30

- Project Coordinator

Prof. Bruno Siciliano

Tel: +39 368605665

E-Mail: siciliano@unina.it

European Robotics Challenges

