



European **SMEs** Robotics Applications' Project

ESMERA Introductory Presentation

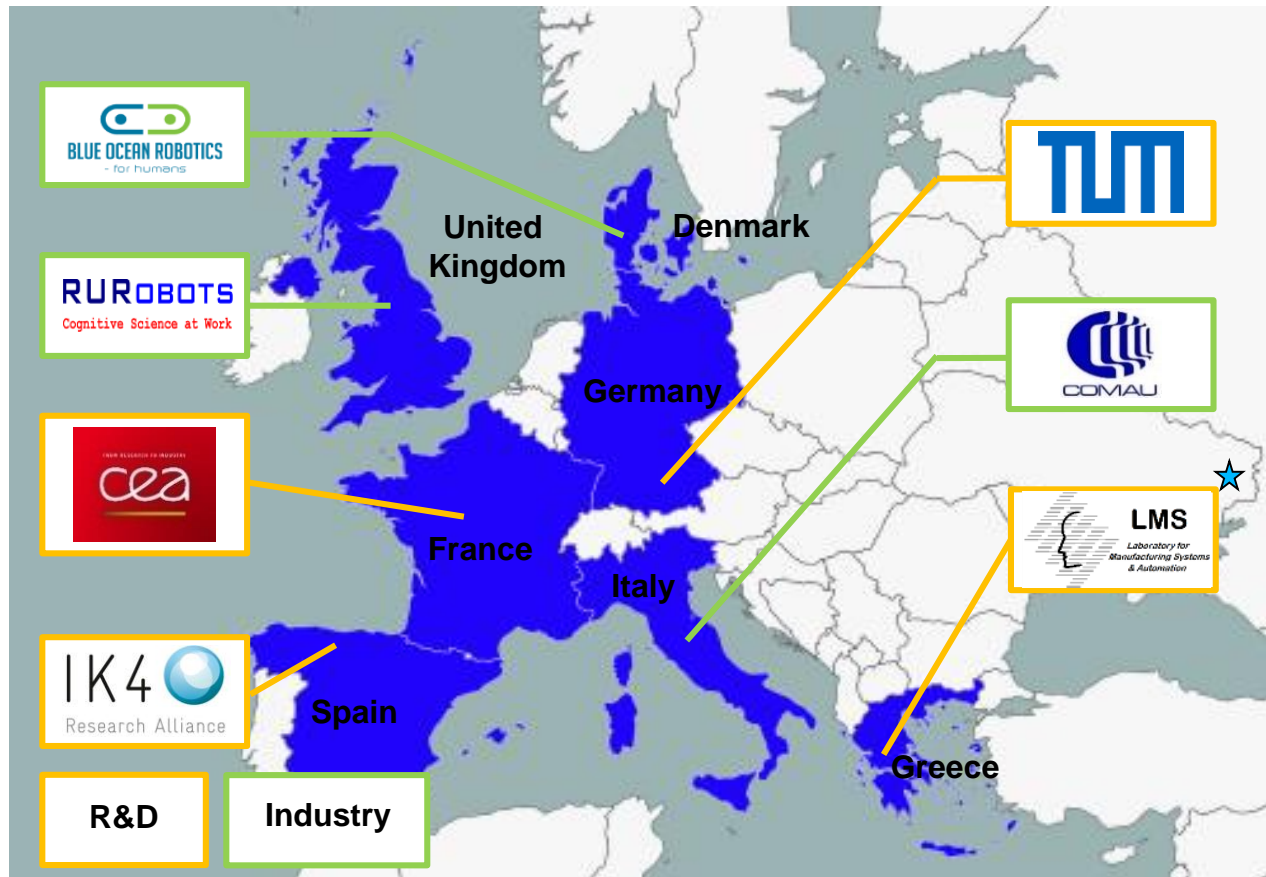
About the ESMERA Project

- **ESMERA**: European SMEs Robotics Applications
- In response to H2020 Project - ICT-27-2017
 - **TOPIC**: System abilities, SME & benchmarking actions, safety certification
 - **ACTION**: Research and Innovation Action
- **Start Date**: 01.01.2018
- **End Date**: 28.02.2022
- Budget 8M of which 4.4M for experiments
- Web Site <http://www.esmera-project.eu/>



About the ESMERA Project

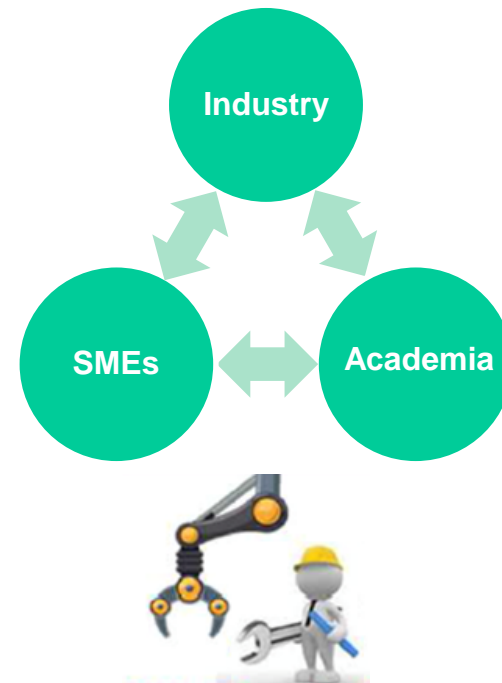
- 4 Research Institutes and 3 Industrial Companies from 7 EU Countries



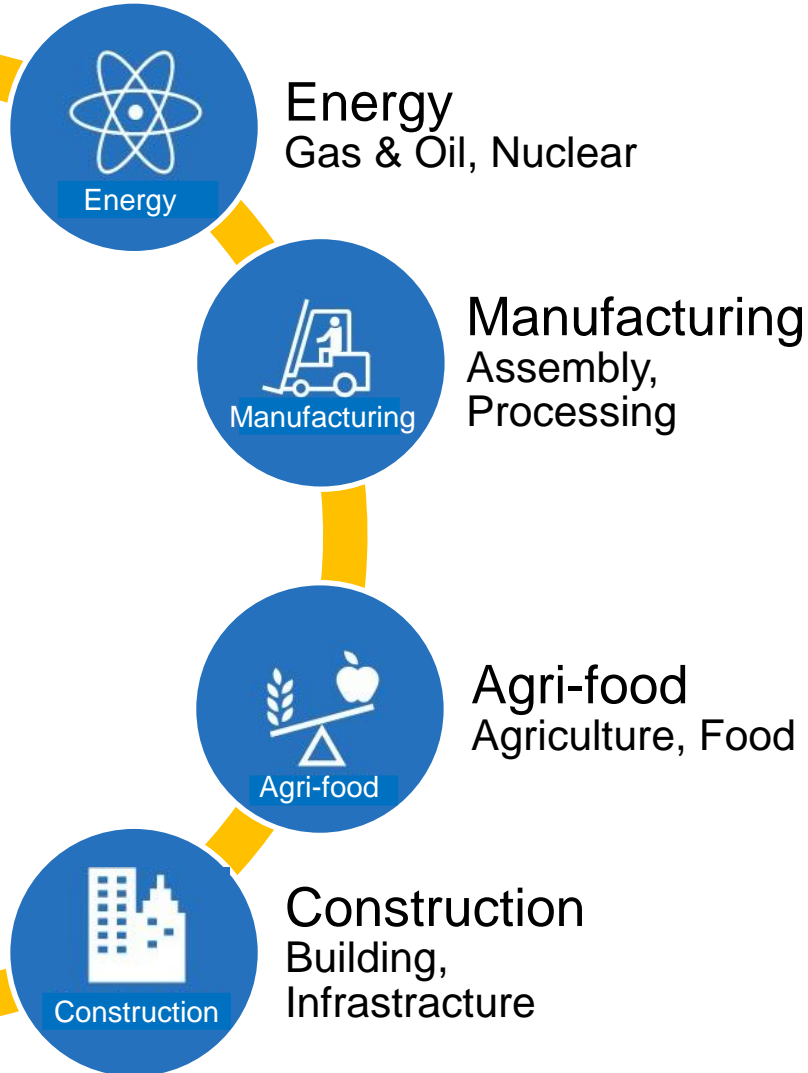
★ Project Coordinator (LMS, University of Patras)

Objectives

- ESMERA aims to support EU **SMEs** in materializing, testing and promoting robotic technologies through:
 - Providing industrial challenges defined by key EU companies and stimulating SMEs to compete to address real life problems that already have a market.
 - Engaging a number of competence centres (CCs) that can provide an environment for development, evaluation, testing, and demonstration
 - Offering direct financial support through a cascade funding mechanism
 - Offering mentoring and support in developing business cases and managing the complete chain from “idea to market product”
 - Involving industrial associations and networks that can directly promote the developed solutions to their members.

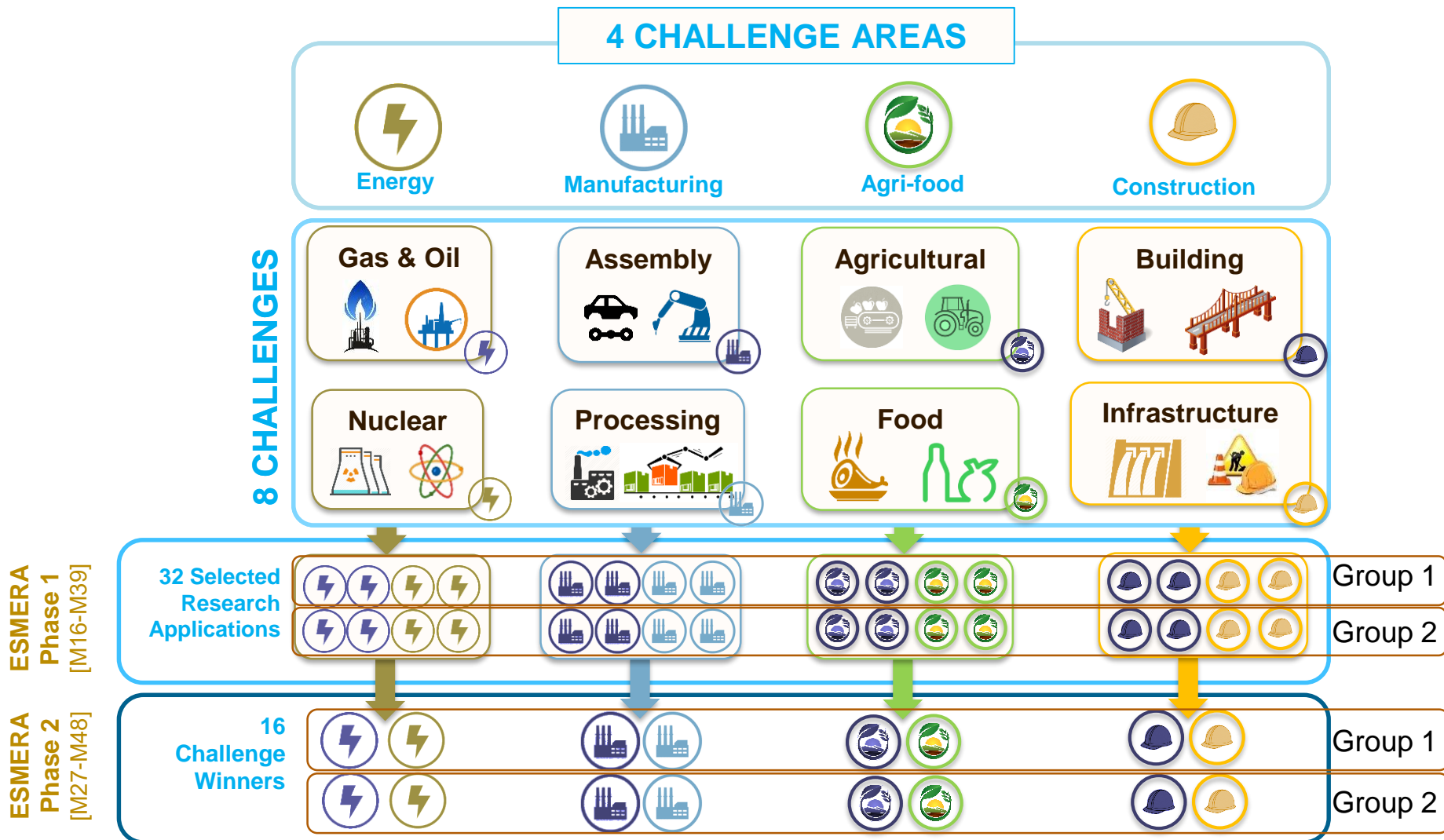


ESMERA Challenges



- 4 areas
 - Energy
 - Manufacturing
 - Agri-food
 - Construction
- 2 challenges each area
- 7-8 competitors each area

ESMERA Challenges



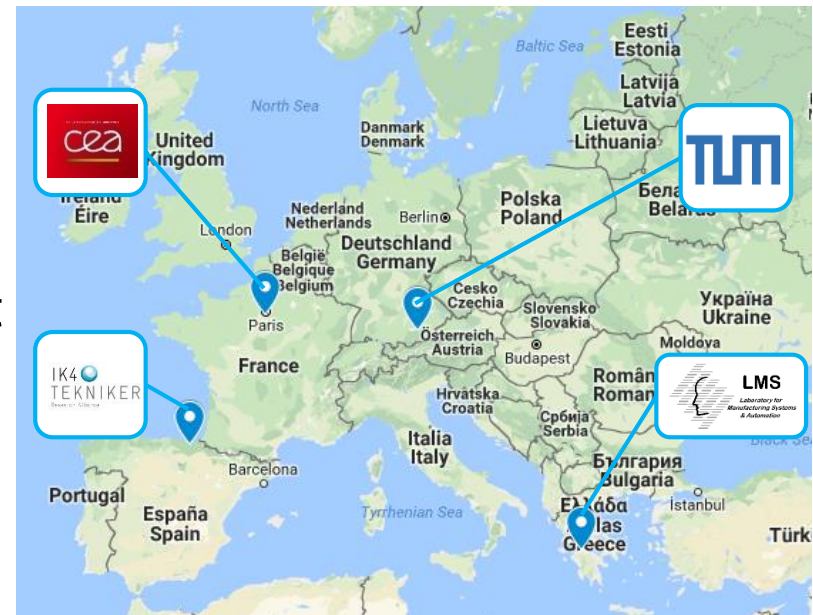
ESMERA Phase 1 [M16-M39]

ESMERA Phase 2 [M27-M48]

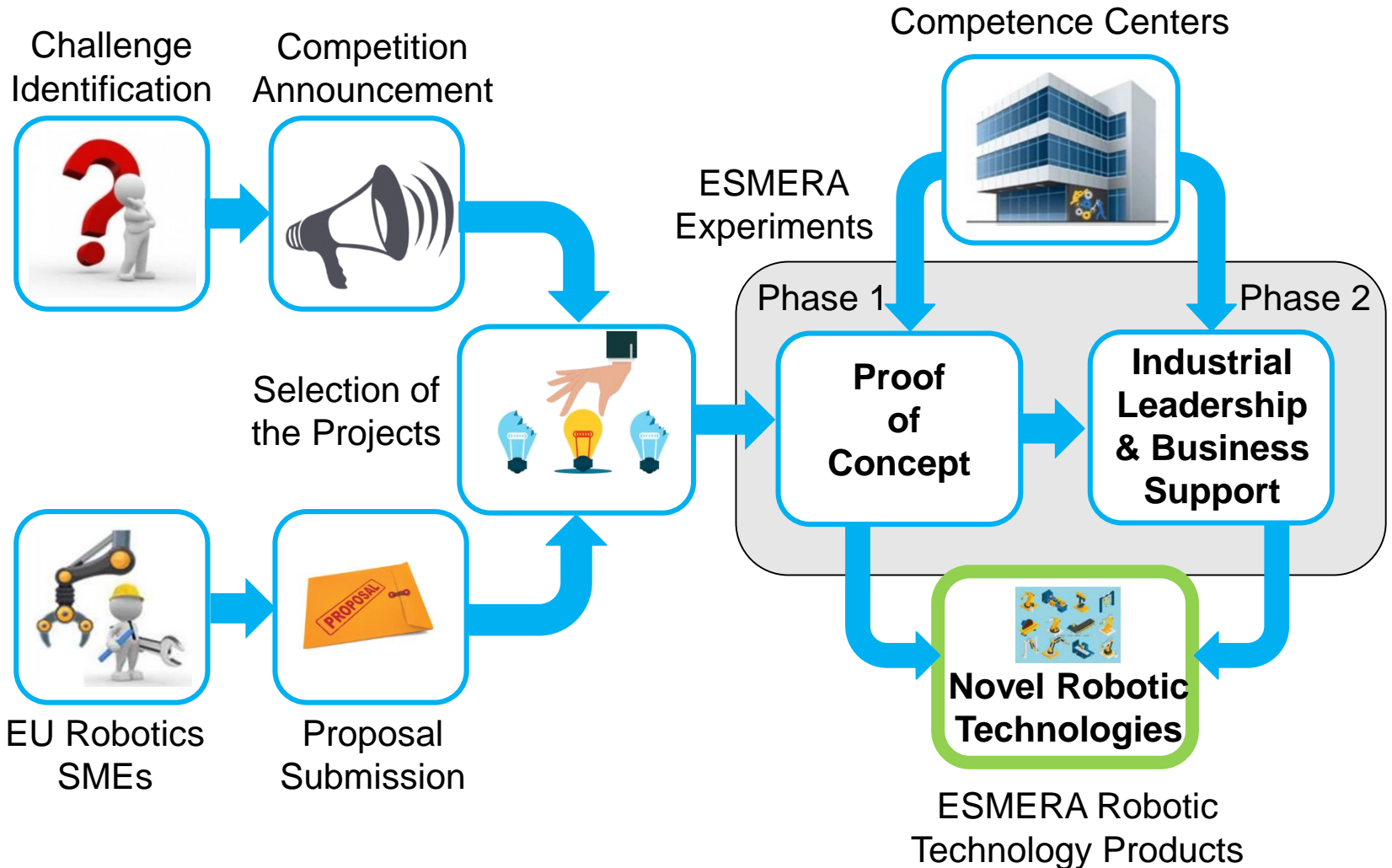
Competence Centers



- Providing test environments for challenges
- Providing equipment to SMEs for their experiments
- Offering expert support for advising on deployment and fast assessment of robotics solutions
- Linking with industrial associations and key robotics market players
- Supporting SMEs in terms of networking



ESMERA Framework



ESMERA Experiments

Proof of Concept

- Duration: 9 months
- 4 challenges areas
- 2 challenges per area
- 2 groups of 16 experiments
- 75k Euro funding per experiment
- Up to TRL 6

Phase 1

Phase 2

Industrial Leadership & Business Support

- Duration: 9 months
- 2 groups of 8 experiments
- 125k Euro funding per experiment
- Up to TRL 8

Challenge Winners

**1st call
deadline extended 9 Nov**

