



SMART 
advanced manufacturing program

Javier Eguren
International Cooperation in Research and Innovation
Prague
December 7, 2017

EUREKA 
innovation across borders

Eureka Clusters

EUREKA Clusters are industry-driven, long term strategic initiatives to catalyze the generation of R&D projects bringing innovation to the market.



Industry-led initiatives

- Managed by participating industry.
- Autonomy:
 - Mission and Vision
 - Calls
 - Evaluation
- STRATEGIC nature.
- In coordination with national financing agencies.



Large number of participants

- Large projects with sub-projects.
- Main players of the sector.
- Extensive participation of SMEs (30–50%).
- Large companies as driving forces.



Promoting competitiveness

- With close to market projects
- Covering the entire value chain



Public - Private Partnership

Legal Entity to enter into the PPP

Technical evaluation in the actual cluster

Financing in each country (decentralised)

Why a EUREKA Program on Advanced Manufacturing

In the coming 10 years Industries will change their manufacturing processes more than in the last 100 years.

SOCIO-ECONOMIC IMPACTS¹:

- 21% contribution to EU`s GDP
 - More than 1.760 billion € of value added in EU
- 20% of employment
 - More than 30 million persons employed in EU.
 - Each job in industry is linked to two more in related services
- 230.000 enterprises, mostly SMEs
 - Which represent 10% of all non financial business enterprises in EU
- 75% of total EU`s exports
 - With a surplus of 400 billion € in 2013.
- 80% of EU`s innovations

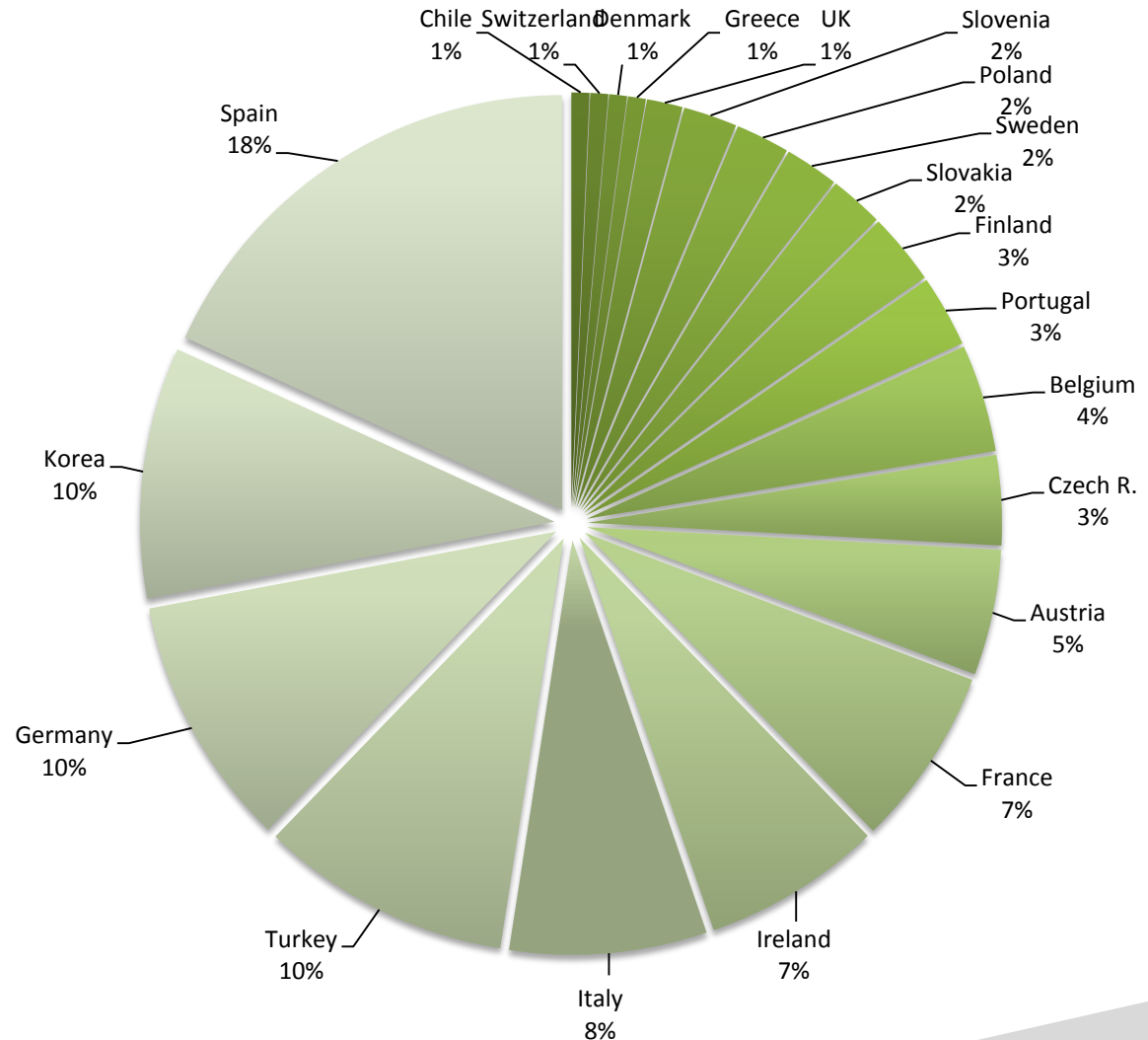
Industrial Challenges in Advanced Manufacturing












- “Zero Defects” manufacturing processes
- Flexibility, adaptability, process scalability
- Weight reduction in transport: light materials and advanced processes
- Energy efficiency, waste reduction and sustainability
- Cost reduction, advanced automation
- Improve man-machine collaboration, ergonomic and safety
- Value chain integration
- Time to market reduction for new products
- Others..

More than 140 organizations support SMART in 21 Countries

Tractor Team	
<i>Coordinators</i>	
  	
<i>Companies</i>	
 	
 	
 	
 	



SMART Board

 Cristina García-Aliste <i>Research & Technology Contracts Manager</i> Spain More information	 Javier Laucirica <i>R&D Director</i> Spain More information	 Ole Hoen <i>Research & Technology Director</i> United Kingdom More information	 Javier Villacampa <i>Corporate Innovation Director</i> Spain More information
 Andrew Lynch <i>Chief Innovation & Network Officer</i> Ireland More information	 Eduardo Beltrán de Nanclares <i>Innovation Director</i> Spain More information	 César Taboas <i>R&D Director</i> Spain More information	 Ivo Cerny <i>Project Manager</i> Czech Republic More information
 Elisabeth Sagström <i>Manufacturing Manager</i> Sweden More information			

SMART First Call for Projects

(I) Call rationale

SMART offers the opportunity to submit research project proposals that fit in the domain of **Advanced Manufacturing Technologies**.

For this purpose, a **Call is launched in December 11, 2017** starting with a Proposers' Day event in Brussels on December 12th 2017.

In a **two-stage procedure**, the quality of the project proposal is evaluated and improved, finally leading to a **selection of high quality projects** that receive the **official SMART label**.

SMART First Call for Projects

(II) Research and Innovation Domains



Advanced Manufacturing Processes



Intelligent and Adaptive Manufacturing Systems



Digital, Virtual and Efficient Companies



Person-Machine Collaboration



Sustainable Manufacturing



Customer-based Manufacturing

SMART First Call for Projects

Participating countries

- SMART projects' funding comes from National Authorities in each country.
- SMART Supporting Countries: **Czech Republic, Korea, Norway, Portugal, Slovakia, Spain, Sweden and Turkey**, participate in the call.
- Partners from **Austria, Canada, Germany, Hungary, Ireland, Slovenia and Switzerland** and any other EUREKA countries are invited to contact, on the earliest phase of their project definition, with the officers of their National Funding Agencies to explore potential funding alternatives

SMART First Call for Projects

Two stage call

SMART Call will follow a 2-stages procedure, having each of them the following characteristics:

- 1. Project Outline (PO):** the intention of this short document (approx. 15 pages) is to provide an overview of the project, its main objectives, partnership and impact. Those positively evaluated POs are invited for the second stage. **Deadline 9th March 2018.**
- 2. Full Project Proposal (FPP):** a detailed project implementation plan, the advance beyond the state of the art and the exploitation and financial plan. **Deadline 11th June 2018.**

SMART First Call for Projects

Eligibility criteria

- Do you have a consortium comprised of at least 2 industrial companies from 2 different participating countries? (of which one must be a EUREKA Member Country and another one either a EUREKA Member Country or a EUREKA Associated Country)
- Does your project have a civil purpose?
- Is your project innovative? Does it have a strong market orientation?
- Does every participant contribute with less than 66% of the overall project budget?
- Does every participating country contribute with less than 66% of the overall project budget?

SMART First Call for Projects

Selection criteria

- **Relevance to SMART Program**
- **Quality and efficiency of the implementation – Project planning and consortium quality**
Quality of the consortium, Added value through co-operation, Realistic and clearly defined project management and planning, Reasonable cost structure
- **Impact - Market and Commercialisation**
Market application and impact, Market access and risk, Competitive advantage, Clear and realistic commercialisation plan
- **Excellence - Innovation and R&D**
Degree of innovation, New applied knowledge, Level of Technical challenge, Technical achievability and risk
- **Contact with NFAs (National Funding Authorities)**

Typical Cluster Projects:

Yearly expected SMART projects

15 projects



4 – 14 participants



3 – 4 countries



Average duration

31 months



Annual costs

2 - 15 million Euros



2008-2014: Source EUREKA Secretariat

Initially, a total budget of **Euros 300 millions over 7 years** has been estimated for SMART.

SMART First Call for Projects

Time Schedule	
Call Approved by HLG	19/10/2017
Opening of the Call	11 December 2017
Proposers' Day - Brussels	12 December 2017
Deadline for PO	09 March 2018
Invitations to Present FPP	30 March 2018
Deadline for FPP	11 June 2018
Projects receive SMART label	20 July 2018

Join SMART

Case 1: Your organization belongs to a participating country (Czech R., Ireland, Norway, Portugal, Slovakia, S. Korea, Spain, Sweden, Turkey)
Become member of the SMART Association signing the Declaration of Accession and contributing with an only once membership fee.

Case 2: Your organization does not belong to any of the above countries
Become a Supporting Partner by signing the Support Form

Please send signed and scanned documents to: info@smarteureka.com

<http://www.smarteureka.com/en/join-us/>

More information: info@smarteureka.com
www.smarteureka.com



SMART 
advanced manufacturing program