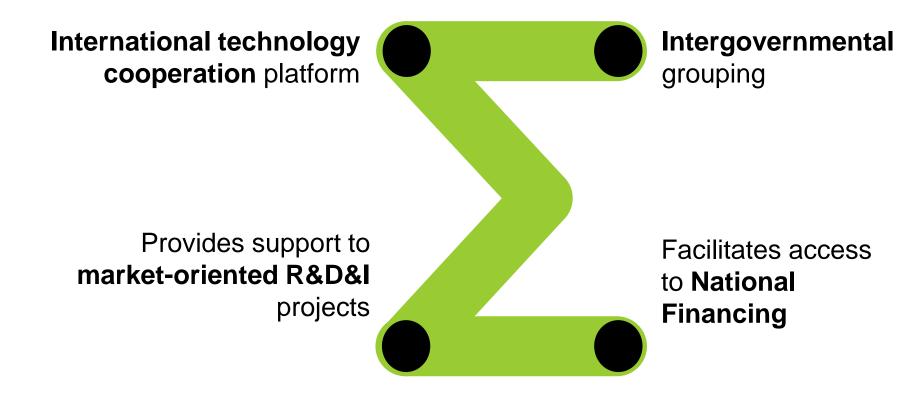




SMARTE! advanced manufacturing program

- What are Eureka Clusters
- Why a new Program on Advanced Manufacturing
- SMART Program
- Benefits of participating in the Program
- SMART Development Process, Status and Next steps



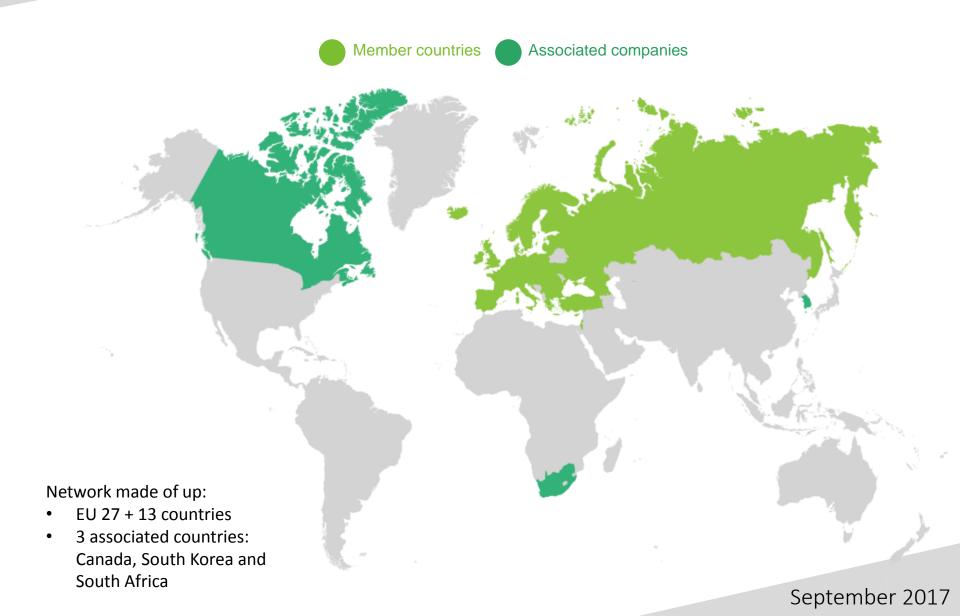


EUREKA (1985): promote competitiveness of the European industry

Financing: National public funds + private contribution

Market-oriented: result is a marketable service, process or product







Eureka Clusters: STRATEGIC programs



Industry-led initiatives

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



- Large projects with subprojects.
- Main players of the sector.
- Extensive participation of SMEs (30–50%).
- Large companies as driving forces.
- They form a legal entity.



Promoting European 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)



The seven EUREKA Clusters



EURIPIDESEuropean Smart Electronic Systems

eurogia²⁰²⁰

Telecommunications

Electronic systems

Low carbon energies





metallurgy europe

Software for systems and services

Micro and nano electronics enabled systems

Materials



Advanced Manufacturing



SMART

Why a New Program on Advanced Manufacturing

SOCIO-ECONOMIC IMPACTS¹:

- 21% contribution to EU's GDP
 - More than 1.760 billion € of value added in EU
- > 14% of employment
 - More than 32 million persons employed in EU.
 - Each job in industry is linked to two more in related services
- ➤ 2,1 million enterprises, mostly SMEs
 - Which represent 9% of all non financial business enterprises in EU
- ➤ 64% of private R&D investiment
- Bigger purchase and user of Key Enabling Technologies

(1) http://ec.europa.eu/research/industrial_technologies/innovation-in-manufacturing_en.html



SMART Why a EUREKA Program on Advanced Manufacturing

Key Enabling Technology (KET) by the EC

What are KETs?

- Six strategic technologies
- Driving competitiveness and growth opportunities
- Contributions to solving societal challenges
- Knowledge- and Capitalintensive
- Cut across many sectors

- Nanotechnologies
- Advanced Materials
- Micro- and nanoelectronics
- Photonics
- Biotechnology
- Advanced Manufacturing

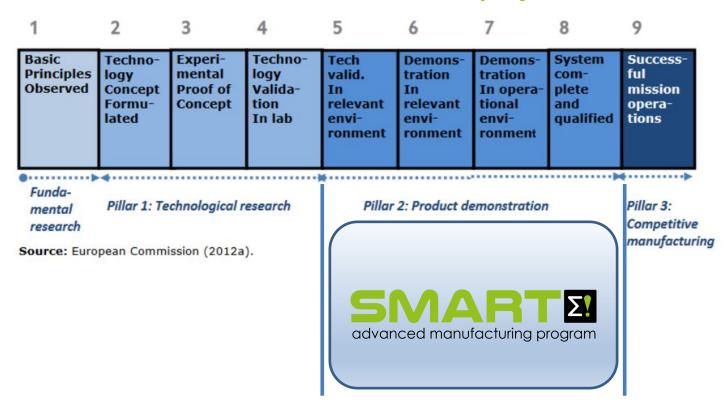
EC Communications (2009)512 & (2012)341

KET High-level Group



SMART Why a EUREKA Program on Advanced Manufacturing

SMART is focussed on close to market projects, within 5 to 8 TRLs





SMART Why a EUREKA Program on Advanced Manufacturing

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

SMART is the new EUREKA Cluster Program, supporting R+D projects:

- In a flexible industry-driven Technology Roadmap
- In international cooperation between large and small companies, RTOs and Academia.
- Facilitating the deployment of existing technologies
- In high Technology Readiness Levels (5-8)
- In rather short time projects: 1-3 years



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Technology Roadmap

Manufacturing sectors

- Aeronautic
- Automotive
- Capital Goods
- Consumer goods
- Railway
- Others

Technologies and trends

- Material processing technologies
- Mechatronics technologies & systems
- Flexible, adaptive & collaborative robotics
- ICT
- Production Technologies

Research and Innovation Domains

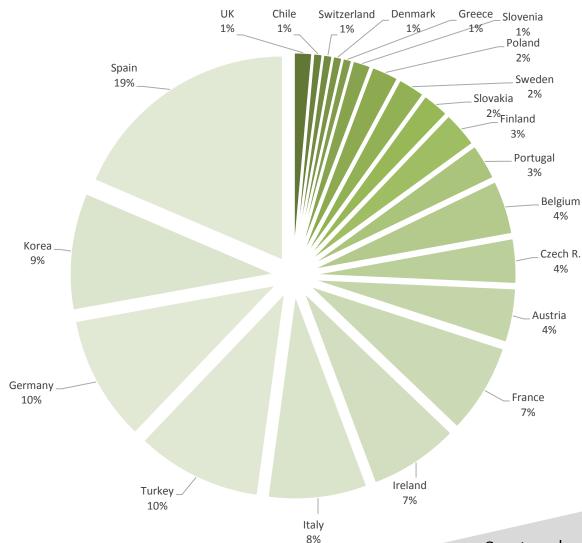
- Advanced Manufacturing Processes
- Intelligent and adaptive manufacturing systems
- Digital, virtual and efficient companies
- Person-Machine collaboration
- Sustainable manufacturing
- Customer based manufacturing



More than 140 organizations support SMART in 21 Countries

by June 2017





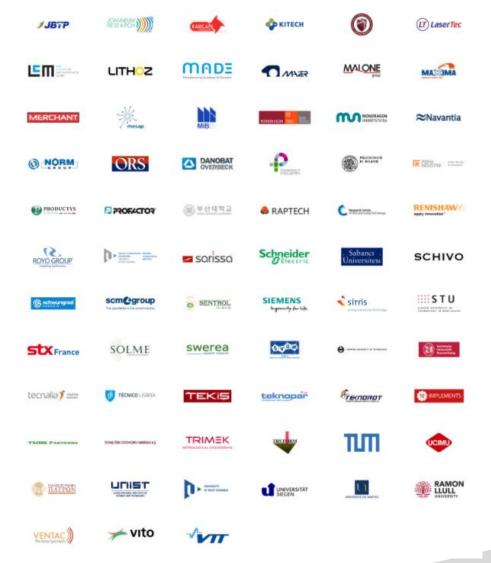


Organizations Supporting SMART





Organizations Supporting SMART





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Benefits for companies

- FAST Return On Investment (ROI): Cluster projects are focused on high TRLs. This allows fast return on investment for the allocated R&D money
- High success rate 65% to 70% on project evaluation
- Agile labeling process: (two steps approach, guidelines and recommendations from technical experts), quick (less than one year to run the full process from first idea to label) and criteria are clear.
- Bottom-up projects: partners define research priorities within a wide framework and not restricted to specific topics
- Establish relationship within an Advanced Manufacturing community, including large leading companies
- R+D collaboration with customers and potential customers



Benefits for companies

- Manageable Consortia: partners from two countries can form the consortium without any limit in terms of number of participants.
- Manageable Technical Risk: in a bottom-up approach: the scope of the R&T project is defined by the Consortium itself, to solve an identified technical entry barrier to market. Projects are close to innovation and business creation.
- Manageable IP: EUREKA allow a limited number of countries and partners. Confidentiality and intellectual property rights are manageable.
- Generate Win/Win situations. Member States may influence the Technology Roadmap and the selection of strategic flagship initiatives.



Typical Cluster Projects:

Yearly expected SMART projects 50 projects	~~
4 – 14 participants	ĵĝĵ
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.



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Development Process: Working agenda

Working Plan for The Definition Phase ?					
Milestone 2	Date ?				
Organisation	October 2017 2				
First MART Call for Projects Submitted to the HLG?	October 2017 2				
Launch to form the state of the	December 2017 2				
Submissionforthes MART of Full ture kallabel of the Second	May220182				
SMART© Full Eureka 11 abel " Submitted 11 to 11 to 12	June 2 20182				
SMART 11 abel 13 Granted 11 to 12 projects 2	July 2 20182				
Execution: First MART Projects tarted 2	November 2018 2				



SMART Program dimension

Participating Countries	Total № Projects 7 years	Average Budget Per project & Country (m€)	Total Program Budget (m€) 7 years	Nº Projects per year	Program budget per year (M€)	%
Spain	60	1,5	90	8,6	12,9	34,7%
Sweden	12	1,5	18	1,7	2,6	6,9%
Czech R.	28	0,8	22,4	4,0	3,2	8,6%
South Korea	15	1	15	2,1	2,1	5,8%
Ireland	14	0,8	11,2	2,0	1,6	4,3%
Portugal	18	0,8	14,4	2,6	2,1	5,5%
Turkey	52	1,5	78	7,4	11,1	30,1%
Norway	7	1	7	1,0	1,0	2,7%
Slovakia	7	0,5	3,5	1,0	0,5	1,3%
TOTAL	85	3,4	260	12	37	100%



Organizations Supporting SMART:

JOIN US

- Being EUREKA Clusters Industrial initiatives, SMART needs Industry to confirm their interest to the National Funding Agencies.
- We Invite you to join SMART initiative sending as your Support Form:

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

More information: info@smartam.eu

www.smarteureka.com

