



CONFINDUSTRIA UDINE



Centro di Ricerca e di Trasferimento Tecnologico

I bandi di Horizon 2020 per la nanotecnologia e i nuovi materiali

Nanotecnologie per i nuovi materiali

Confindustria Udine, 12 marzo 2015

Agenda

- a) I bandi di Horizon 2020 per la nanotecnologia e i nuovi materiali
 - 1. Nanotechnologies, Advanced Materials and Production
 - 2. SME instrument
 - 3. Fast Track to Innovation

- b) Friuli Innovazione e lo Sportello APRE FVG - Udine

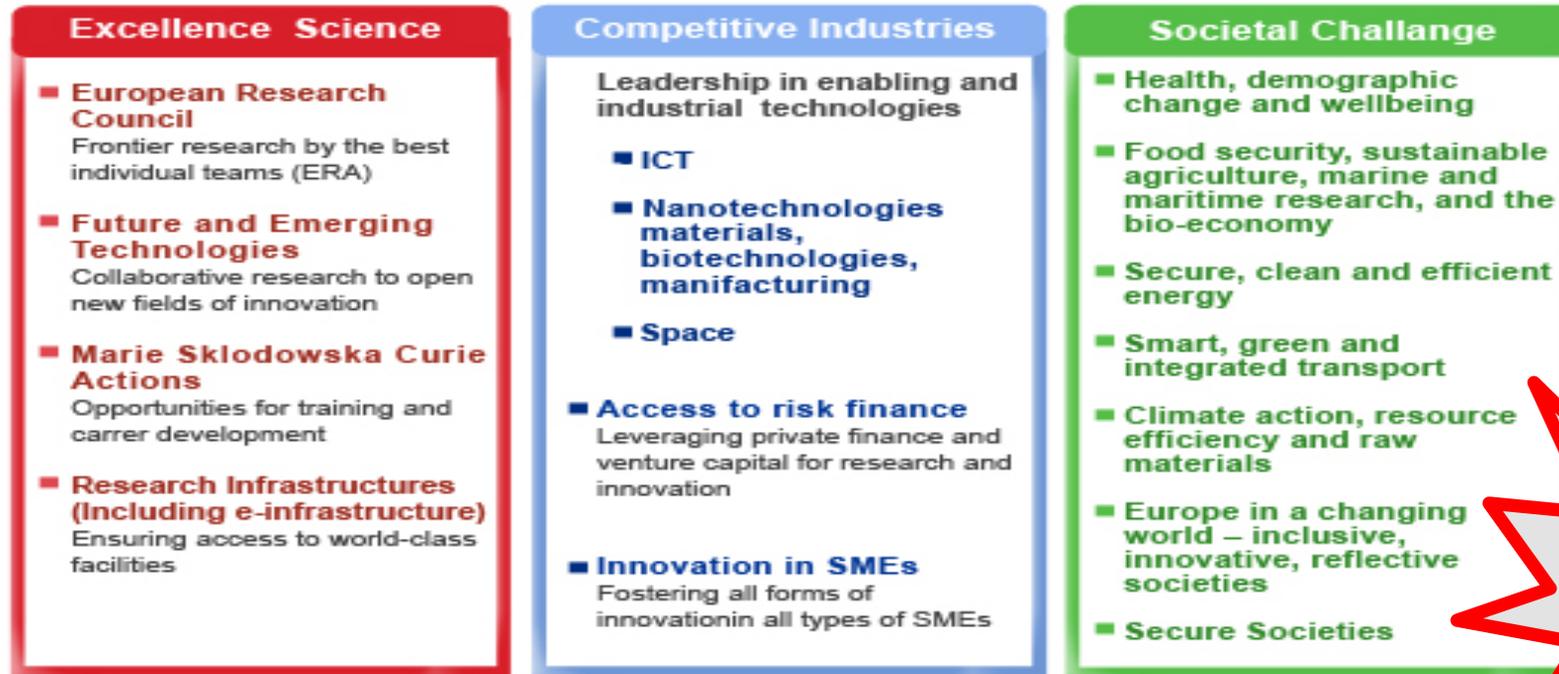


a) I bandi di Horizon 2020 per la nanotecnologia e i nuovi materiali

- 1. Nanotechnologies, Advanced Materials and Production**
- 2. SME instrument**
- 3. Fast Track to Innovation**



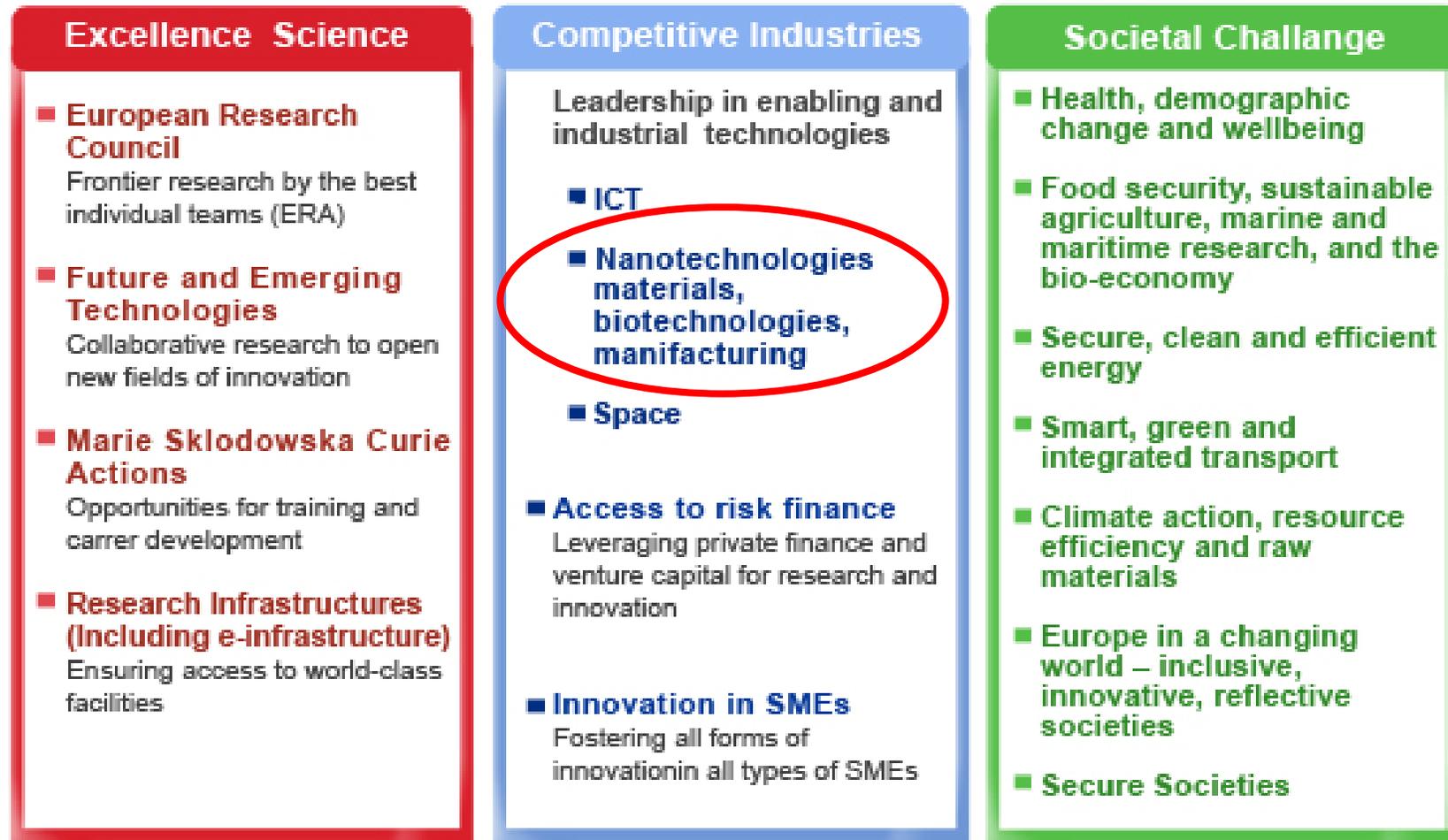
a) I bandi di Horizon 2020 per la nanotecnologia e i nuovi materiali



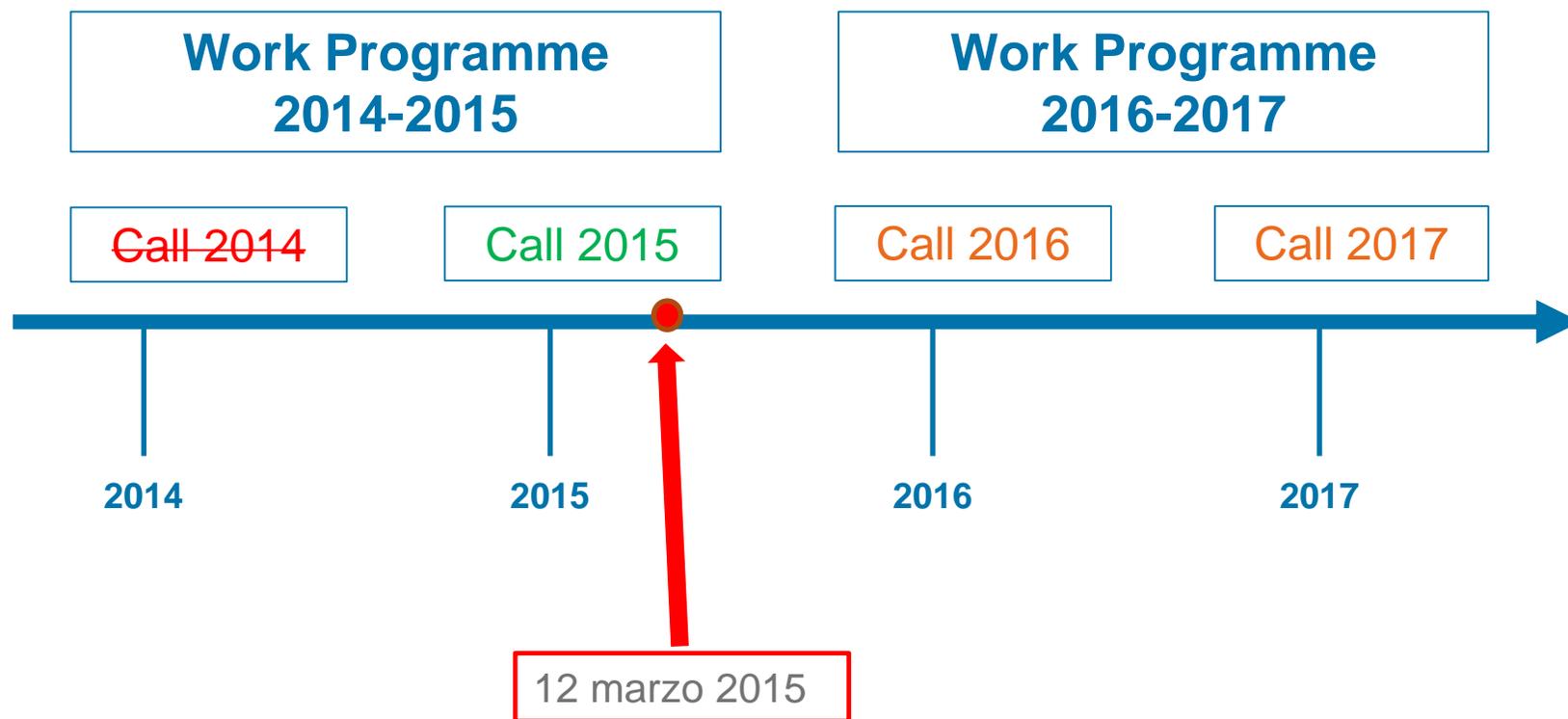
77 miliardi euro



1. Nanotechnologies, Advanced Materials and Production



1. Nanotechnologies, Advanced Materials and Production



1. Nanotechnologies, Advanced Materials and Production

- Work Programme 2014-2015

- iii) **Nanotechnologies, Advanced Materials,**
Biotechnology and Advanced Manufacturing
and Processing

- Call **H2020-NMP-PILOTS-2015**

- Call **H2020-NMP-2015-two-stage**



1. Nanotechnologies, Advanced Materials and Production

➤ Call H2020-NMP-PILOTS-2015

Bridging the gap between nanotechnology research and markets

Three of the key European nano-enabled industrial value chains:

- lightweight multifunctional materials and sustainable composites;
- structured surfaces;
- functional fluids.

The potential of multifunctional nanomaterials and composites has been demonstrated in RTD actions for several application sectors.

However, a number of barriers need to be addressed, in order to leverage large scale market introduction of such innovative, safe and sustainable products.



1. Nanotechnologies, Advanced Materials and Production

➤ Call H2020-NMP-PILOTS-2015

Activities addressing this challenge will therefore **implement the next steps towards the deployment and market introduction** [...],
by scaling up laboratory experience to **industrial scale**
and by **demonstrating the viability** of a variety of manufacturing technologies.

The main challenge is to develop seamless integration of technologies and processing **for using nanomaterials in production**;

use of nanomaterials in industrial processes, including (in-situ) metrology;

increase the level of robustness and repeatability;

to optimise and evaluate the increased performance and functionality of the product and of the production line.

SMEs are particularly affected and are invited to participate



1. Nanotechnologies, Advanced Materials and Production

Opening date: 22 October 2014

Deadline date: 26 March 2015

Budget: 64,43 Milion euro

Topics:

- NMP-02-2015: Integration of novel nano materials into existing production lines
- NMP-03-2015: Manufacturing and control of nanoporous materials
- NMP-06-2015: Novel nanomatrices and nanocapsules
- NMP-07-2015: Additive manufacturing for tabletop nanofactories

Link: <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-nmp-pilots-2015.html#tab1>



1. Nanotechnologies, Advanced Materials and Production

➤ Call H2020-NMP-2015-two-stage

*Nanotechnology and Advanced Materials for
more effective Healthcare*

*Nanotechnology and Advanced Materials for
low-carbon energy technologies and Energy Efficiency*

*Exploiting the **CROSS-sector potential**
of Nanotechnologies and Advanced materials to
drive competitiveness and sustainability*



1. Nanotechnologies, Advanced Materials and Production

Opening date: 22 October 2014

Deadline date: 26 March 2015

Stage 2: 8 September 2015

Budget: 148,37 Million euro

Topics:

- NMP-11-2015: Nanomedicine therapy for cancer
- NMP-12-2015: Biomaterials for treatment and prevention of Alzheimer's disease
- NMP-15-2015: Materials innovations for optimisation of cooling in power plants
- NMP-16-2015: Extended in-service service of advanced functional materials in energy technologies

... >>>



1. Nanotechnologies, Advanced Materials and Production

Topics:

... >>>

- NMP-19-2015: Materials for severe operating conditions, including added-value functionalities
- NMP-22-2015: Fibre-based materials for non-clothing applications
- NMP-23-2015: Novel materials by design for substituting critical materials
- NMP-24-2015: Low-energy solutions for drinking water production
- NMP-29-2015: Increasing the capacity to perform nano-safety assessment
- NMP-30-2015: Next generation tools for risk governance of nanomaterials

Link: <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/calls/h2020-nmp-2015-two-stage.html>



1. Nanotechnologies, Advanced Materials and Production

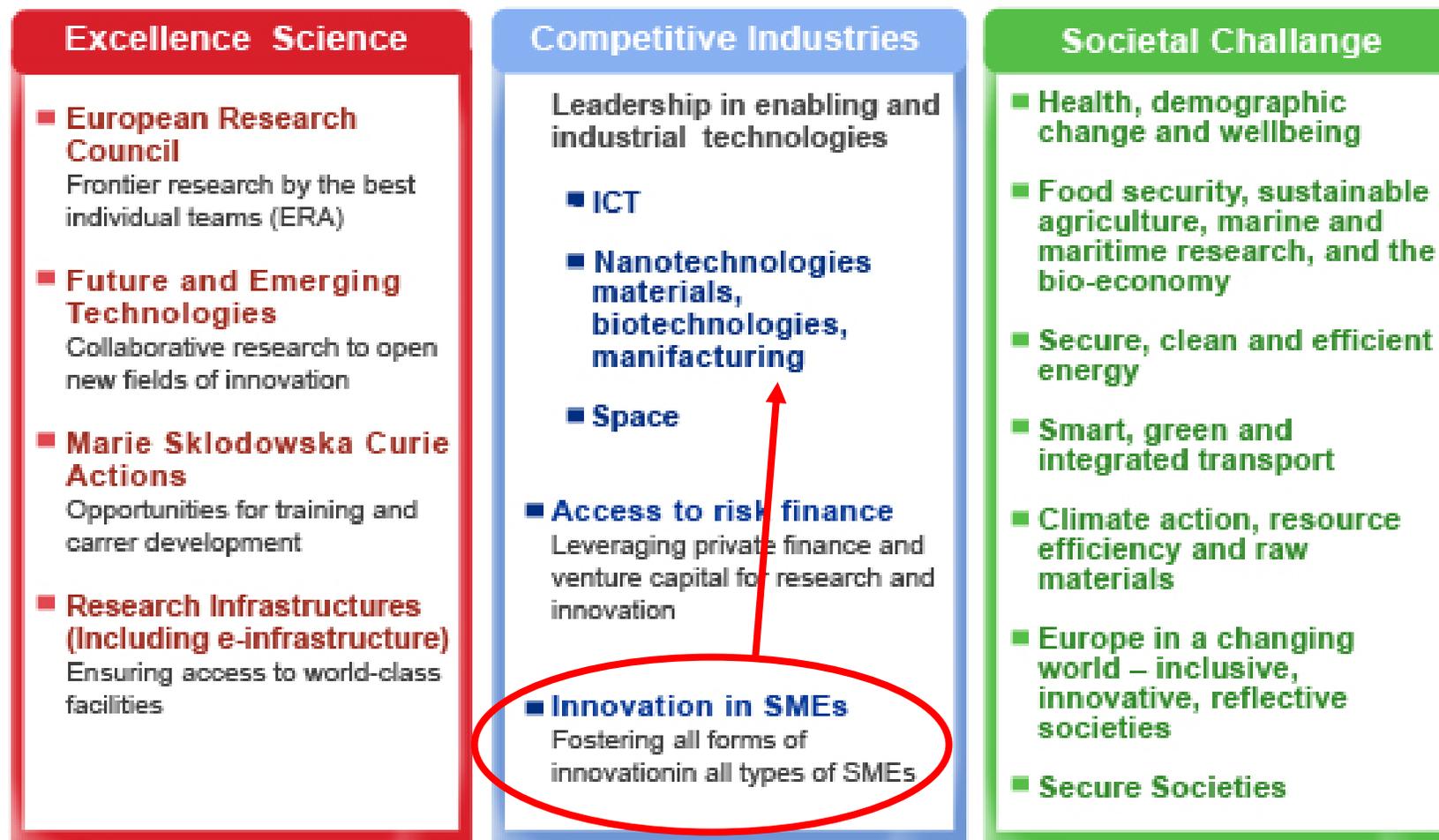
➤ Work Programme **2016-2017**

iii) **Nanotechnologies, Advanced Materials,** Biotechnology and Advanced Manufacturing and Processing

In fase di predisposizione - pubblicazione prevista per estate 2015



2. SME instrument



2. SME instrument

Topic “Accelerating the **uptake of nanotechnologies, advanced materials** or advanced manufacturing and processing technologies by SMEs”

Specific challenge: Research results should be taken up by industry, harvesting the hitherto untapped **potential of nanotechnologies, advanced materials** and advanced manufacturing and processing technologies.

The goal is to create added value by **creatively combining existing research results** with other necessary elements, **to transfer results across sectors** where applicable, to **accelerate innovation** and eventually create profit or other benefits.

The research should **bring the technology and production to industrial readiness and maturity for commercialisation** after the project.



2. SME instrument



...YOUR HIGHWAY TO DELIVER INNOVATION ON THE MARKET!

Apply at any time!

6 months

12-24 months

ACTIVITIES SUPPORTED

PROOF OF CONCEPT

- ✓ Prove Technical and Commercial Viability
- ✓ Explore IP Regime
- ✓ Design Study
- ✓ Develop Pilot Application
- ✓ Risk Assessment

DEMONSTRATION OF COMMERCIAL POTENTIAL via

- ✓ Prototyping
- ✓ Testing
- ✓ Piloting
- ✓ Miniaturization
- ✓ Scaling-up
- ✓ Application Development

GO-TO-MARKET

- ✓ EU Quality Label (Promotion & Networking with Financiers/Clients)
- ✓ Investment Readiness Training
- ✓ SME window in the EU Financial Facilities (debt & equity backed by EIB/EIF)
- ✓ Link to Public Procurement Networks

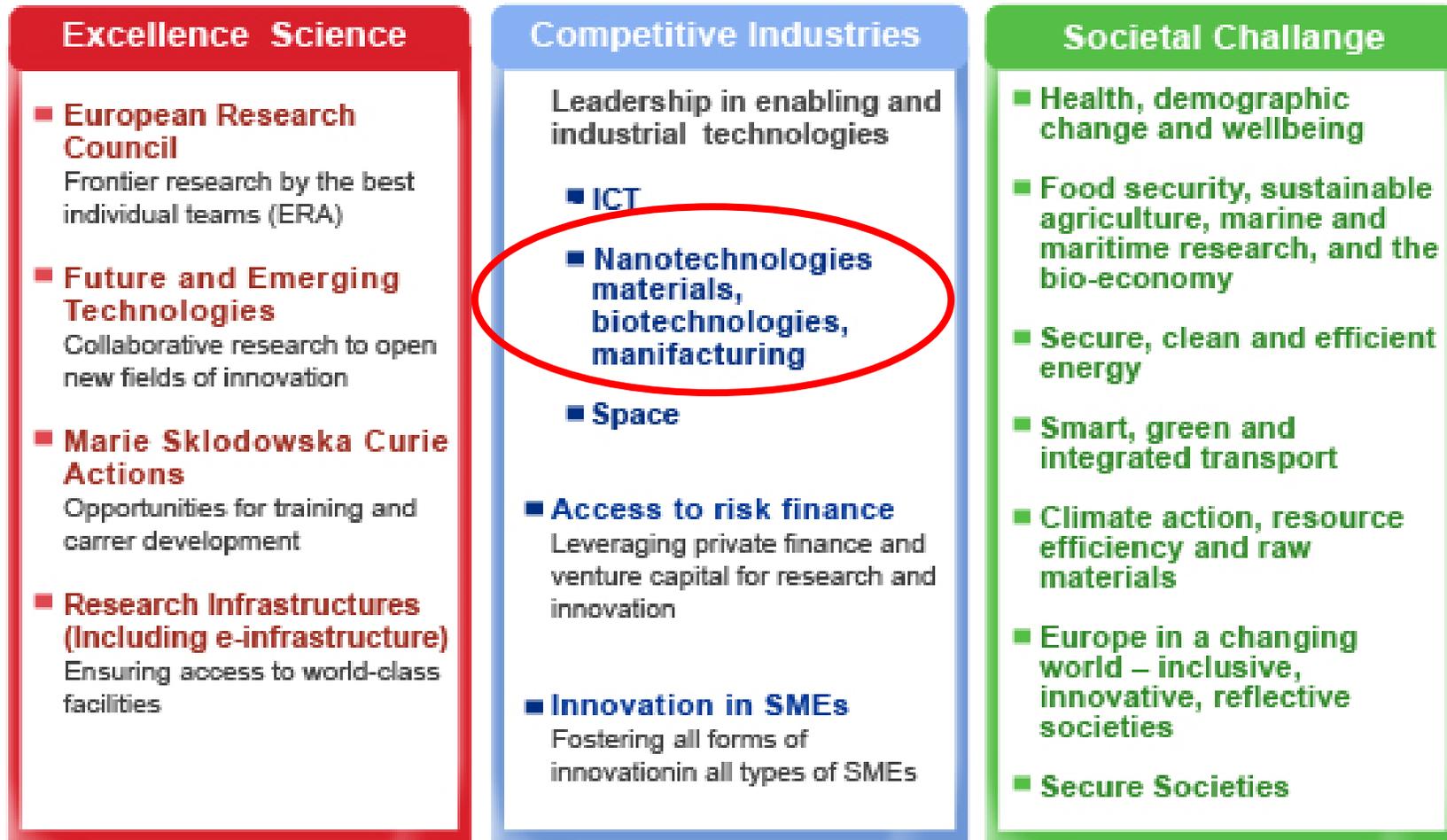
2. SME instrument

Scadenze/Cut off dates:

2014		2015	
<u>Fase 1</u>	<u>Fase 2</u>	<u>Fase 1</u>	<u>Fase 2</u>
18/06/2014	09/10/2014	18/03/2015	18/03/2015
24/09/2014	17/12/2014	17/06/2015	17/06/2015
17/12/2014		17/09/2015	17/09/2015
		16/12/2015	16/12/2015



3. Fast Track to Innovation



Fast Track to Innovation



3. Fast Track to Innovation

- Pilot call 2016-2017

- Provides funding for **close to market**, business driven projects
(e.g. Systems validation in real working conditions, Testing, Piloting, Business model validation, Standard setting, Pre-normative research, EU quality label)
- Open to proposals in **any area** of technology or application
- Trans-disciplinary and cross-sector cooperation
- Consortia comprising **between 3 and 5 legal entities** established in **at least 3 different EU Member States or countries associated**
- **Substantial industry involvement** in FTI actions will be mandatory to ensure quick market take-up > within a **three-year period** after the start of the FTI-action



3. Fast Track to Innovation

- **Budget**: 2015, 100 million euro; 2016, 100 million euro
- One common and continuously **open call**
- Open for applications as of January 6 2015.
- **Three cut-off dates** in 2015: **29 April**, 1 September, 1 December
- **Innovation action** > funding level fixed at **70%** of the eligible costs.
- The indicative **EU contribution** per action is expected to be between **€1 million and €2 million**



a) I bandi di Horizon 2020 per la nanotecnologia e i nuovi materiali

Il Participant Portal

Link: <http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

The screenshot shows the European Commission Research & Innovation Participant Portal. The page features a navigation bar with links for HOME, FUNDING OPPORTUNITIES, HOW TO PARTICIPATE, EXPERTS, and SUPPORT. A search bar is prominently displayed with the keyword 'Creativity' and a search button. Below the search bar, there are 7 results. The results are filtered by status (Open, Closed, Forthcoming) and sorted by Title. A text box provides additional information about Marie Skłodowska-Curie actions (MSCA) and European Research Council (ERC) grants. A quick finder section lists topics linked to H2020 cross-cutting priorities, including Cross-cutting Key-Enabling Technologies (KETs), International cooperation, ERA-NET, and SME Instrument.

(A-Z) Sitemap About this site Contact Legal Notice English

RESEARCH & INNOVATION
Participant Portal

European Commission > Research & Innovation > Participant Portal > Calls

HOME FUNDING OPPORTUNITIES HOW TO PARTICIPATE EXPERTS SUPPORT

LOGIN REGISTER

Horizon 2020

Calls

Search Topics

Call Updates

FP7 & CIP Programmes

Calls

Call Updates

COSME

Other Funding Opportunities

7 Results

Keyword Search: Creativity SEARCH

If you don't find your topic, you can also use the [free text search](#).

Status

Open
 Closed
 Forthcoming

Sort by

Title
 Call Id
 Publication Date
 Deadline Date

In addition, [see all the open calls](#) of Marie Skłodowska-Curie actions (MSCA) and European Research Council (ERC) grants for individual researchers of any nationality and research teams. The MSCA grants include opportunities for companies and SMEs. **The MSCA and ERC grants are not restricted to specific topics.**

Quick finder for topics linked to H2020 cross-cutting priorities:

Cross-cutting Key-Enabling Technologies (KETs) International cooperation
ERA-NET SME Instrument



b) Friuli Innovazione e lo Sportello APRE FVG - Udine



Friuli Innovazione in sintesi

Aree di attività



Settori principali

- Biotecnologie
- **Metallurgia e tecnologia delle superfici e dei materiali avanzati**
- Extended ICT
- Energia e Ambiente
- Legno

Laboratori

- **Laboratorio di Metallurgia e Tecnologia delle Superfici e dei Materiali Avanzati**
- Istituto di Genomica Applicata


Università degli Studi di Udine
 Area Science Park
 Agemont
 ITI A. Malignani Udine
 IRES FVG Udine


CCIAA di Udine
Confindustria Udine
 Unione Industriali di Pordenone


 Consorzio per lo sviluppo industriale del Friuli centrale
 Comune di Udine
 Provincia di Udine
 Comune di Tavagnacco


Fondazione CRUP
Mediocredito FVG

c) Friuli Innovazione e lo Sportello APRE FVG - Udine

Trasferimento
Tecnologico

Approccio
sistemico

Avvio e realizzazione di progetti di TT

in collaborazione con altri attori
dell'innovazione sul territorio

Approccio
customer

Valorizzazione attività di TT specifiche a favore delle imprese



Promozione TT

- eventi su temi di ricerca applicata
- workshop e seminari su tematiche rilevanti per imprese e ricercatori
- attività di match-making



c) Friuli Innovazione e lo Sportello APRE FVG - Udine

Finanziamento
alle Imprese

- **APRE - Agenzia per la Promozione della Ricerca Europea** fornisce, supporto e assistenza per la partecipazione ai programmi europei per ricerca, sviluppo e innovazione.
- Gli **Sportelli APRE** sono punti di accesso alle informazioni e ai servizi diffusi sul territorio nazionale.
- Operano in collaborazione con gli **NCP - National Contact Points** ospitati da APRE Roma



er la nanotecnologia e i nuovi materiali



c) Friuli Innovazione e lo Sportello APRE FVG - Udine

Finanziamento
alle Imprese



Grazie per l'attenzione!

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