



# PROGRAMA DE TRABAJO NMBP 2018-2020

## CONVOCATORIAS 2018

SANTIAGO DE COMPOSTELA, 24 OCTUBRE 2017



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División Programas la UE, CDTI

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# PROGRAMA DE TRABAJO NMBP 2018-2020

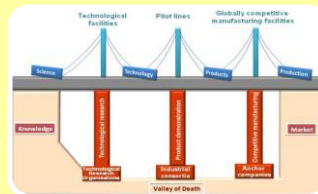
## CONVOCATORIAS 2018

SANTIAGO DE COMPOSTELA, 24 OCTUBRE 2017

- Horizonte 2020.
- Contexto político 2018-2020
- Novedades en el Plan de trabajo 2018-2020.
  - Open Innovation Test Beds
- Convocatorias 2018 y 2019
- Recomendaciones para presentar una propuesta.
- Apoyo de CDTI y otras informaciones prácticas.

# ¿Qué es Horizonte 2020?

## Programa Marco de Investigación e Innovación (2014-2020)



### Excellent Science

### Industrial Leadership

### Societal Challenges

European Research Council (ERC)

Future and Emerging Technologies (FET)

Marie Skłodowska-Curie actions on skills, training and career development

European research infrastructures

ICT

Nanotechnology

Biotechnology

Advanced Materials

Advanced Manufacturing & Processing

Space

Access to Risk Finance

Innovation in SMEs

LEIT

Health, demographic change and wellbeing

Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy;

Secure, clean and efficient energy;

Smart, green and integrated transport;

Climate action, environment, resource efficiency and raw materials

Europe in a changing world-Inclusive, innovative and reflexive societies

Secure Societies: Protecting freedom and security of Europe and its citizens



# Instruments

**IA: Innovation Activities**

70%

**RIA: R&I Activities**

100%

**CSA**

**Coordination & Support Actions**

100%

## Simplified funding rates:

- Up to 100 % of the eligible costs; but up to 70% (\*) in IA if profit-seeking organisations
- Single indirect cost model: 25% flat rate for all

# NMBP Evaluation

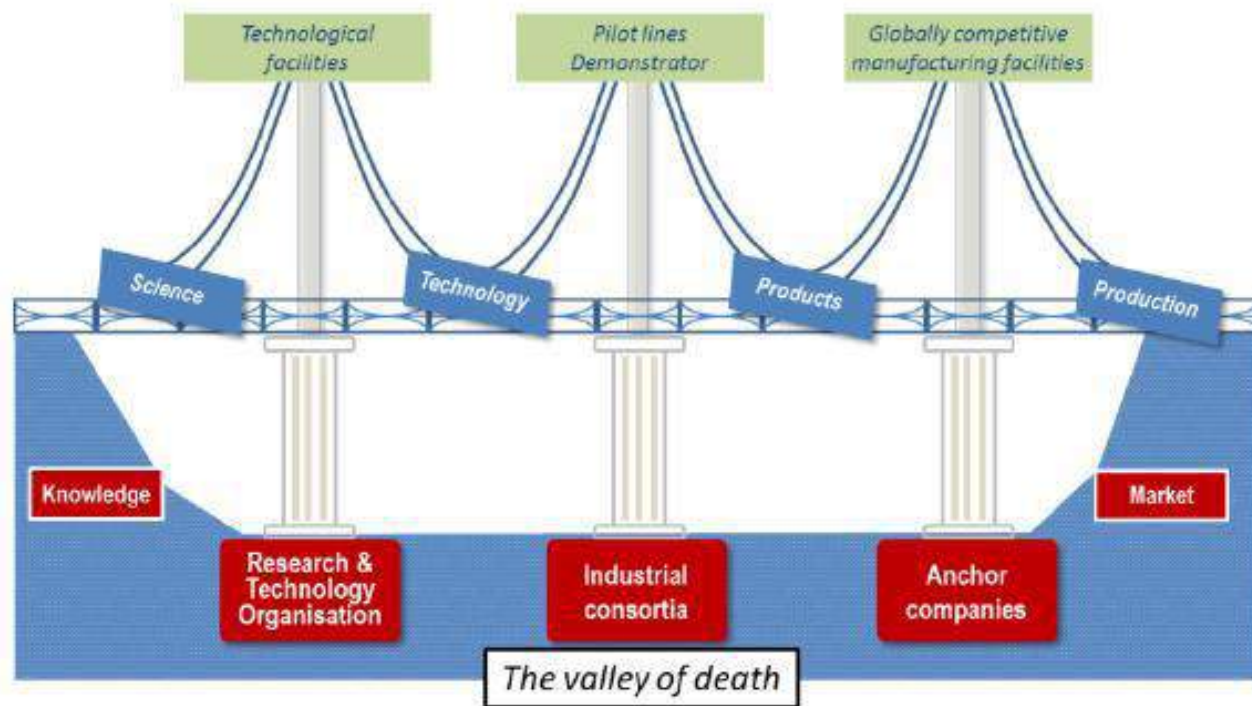
Ph1

Excellence	(4/5)
Impact	(4/5)
<b>TOTAL</b>	<b>(8/10)</b>

Ph2  
/  
One  
stage

Excellence	(4/5)
Impact	(4/5)
Quality and efficiency of the implementation	(3/5)
<b>TOTAL *</b>	<b>(12/15)</b>

# Horizon 2020: Crossing the valley of death



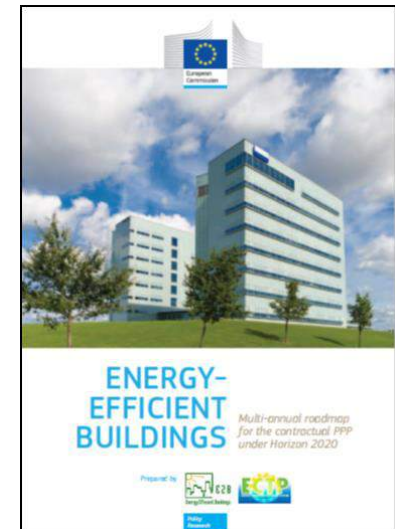
1	2	3	4	5	6	7	8	9
Basic Principles Observed	Technology Concept Formulated	Experimental Proof of Concept	Technology Validation In lab	Tech valid. In relevant environment	Demonstration In relevant environment	Demonstration In operational environment	System complete and qualified	Successful mission operations

← NMBP →



# Contractual Public-Private Partnerships (cPPPs)

- Concrete technological and sector related objectives – commitment from industry.
- **Industry** plays **leading role** in defining research priorities
- Using fully open H2020 calls
- **Factories of the Future (FoF)**
- **Energy-efficient Buildings (EeB)**



- **Sustainable Process Industry (SPIRE)**

# **Análisis RESULTADOS NMBP 2014-2017**

**2.578 propuestas, 1.646 con presencia ES  
(64%)**

**485 coordinadas ES (19%)**

**417 proyectos, 285 con presencia ES (68%)  
86 coordinados ES (20%)**

**Tasa de éxito ES: razonable, algo más alta  
que la media (17% vs. 16%)**

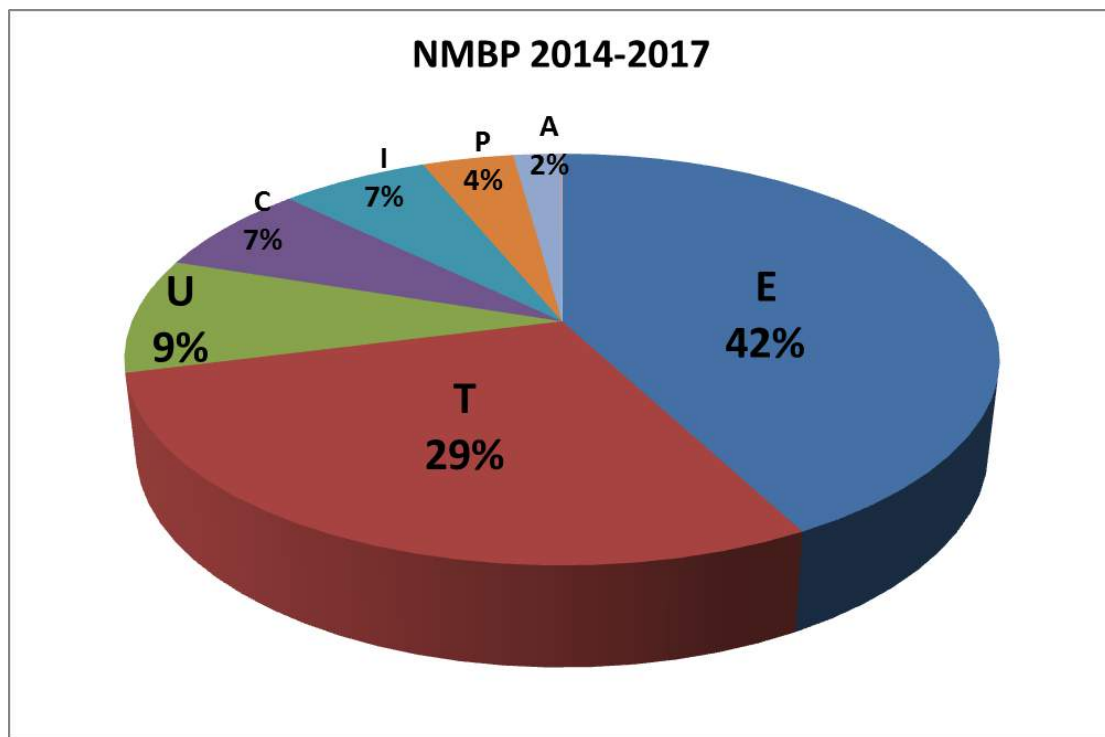
**294 M€ para entidades ES  
2º puesto detrás de DE**



# H2020– NMBP - Resultados 2014-2017

## 294 M€ → 14,4% UE-28

👁️ Cierta aumento de participación industrial, aunque **la coordinación se reparte**



Participación en proyectos por tipo de entidad:

**E** – Empresa  
**T** – Centro Tecnológico  
**U** – Universidad  
**C** – Centro Público de Investigación  
**I** – Asociación de Investigación



**DRAFT WP 2018-20 published!:**

[https://ec.europa.eu/programmes/horizon2020/sites/horizon2020/files/h2020-leit-nmbp-2018-2020\\_pre-publ.pdf](https://ec.europa.eu/programmes/horizon2020/sites/horizon2020/files/h2020-leit-nmbp-2018-2020_pre-publ.pdf)

**Horizon 2020**

**Work Programme 2018-2020**

*5.ii. Nanotechnologies, Advanced Materials, Biotechnology and Advanced Manufacturing and Processing*

**IMPORTANT NOTICE:**

*This draft has not been adopted or endorsed by the European Commission. Any views*

# EU Policy Context

**R&I in the context of European policy priorities (Political Guidelines for the Juncker Commission, July 2014)**

- To boost jobs, growth and investment
- To realise a connected digital single market
- To implement a resilient Energy Union with a forward looking climate change policy
- To make Europe a stronger global actor

## **Commissioner Moedas' priorities**

- Open innovation, Open science, Open to the world

# Work Programme 2018-2020

- Policy Context
- Technology Roadmaps
- Interim Evaluation H2020 (2014-2016)



- Fewer topics, more funding per topic
- Non prescriptive topics
- Extension of concept of pilot lines:  
Open Innovation Test Beds



# Open to the world



- **EU-China Flagship** initiative on Biotechnology for environment and Human Health

- New biotechnologies for environmental remediation *CE-BIOTEC-04-2018*
- Microorganism communities for plastics biodegradation *CE-BIOTEC-05-2019*
- Custom-made biological scaffolds for specific tissue regeneration and repair *NMBP-21-2020*



- Chinese universities and research centers
- 1 phase evaluation
- **Deadline: 25/04/2018**
- Check Participant Portal:

<https://ec.europa.eu/research/participants/docs/euro-sci-fund-eu/docs/eu-participant-portal>

- **EU-USA Flagship** on Nanosafety (NNI program: Communities of Research <https://us-eu.org/>) (Topics NMBP-13 a NMBP-17)



Collaboration in nanosafety is also encouraged with South Korea, Brazil, Canada, Australia, China, Japan and South Africa.

# Open to the world



Other topics where international cooperation is particularly encouraged:

- Catalytic transformation of hydrocarbons, (*European Neighbourhood Policy countries, Iran e Iraq*) **CE-NMBP-24-2018**
- Standardisation in Synthetic Biology **BIOTEC-01-2018**
- Conservation of cultural heritage (*in particular with relevant international organisations*) **NMBP-33-2018**
- Photocatalytic synthesis CE-NMBP-25-2019
- SPIRE, may be particularly appropriate in some areas of Sustainable Process Industry (*in particular with Eastern Partnership Countries*) **CE-SPIRE-1 a 10**

# Open Innovation



## TEST BEDS.

- Open, transparent access at fair cost
- To any SME in all Europe
- Links to other test-beds, clusters:

## INNOVATION ECOSYSTEM

## GREATER OUTREACH

- Active contribution with ongoing activities, clusters, networks.
- «include actions designed to facilitate cooperation with other projects across Europe» - 25 topics



<https://www.nanosafetycluster.eu/>



[www.emmc.info](http://www.emmc.info)



<http://eppn.eu/>



<http://www.characterisation.eu/>

# Pilot experience: Innovation actions 50%

- For profit-making entities (instead 70% IA)
  - Innovation actions reaching TRL 7
  - High-cost demonstrators integrating different technologies in industrial settings
- DT-FOF-04-2018 Pilot lines for metal Additive Manufacturing
  - DT-FOF-08-2019 Pilot lines for modular factories
  - DT-FOF-20-2020 Pilot lines for large-part high precision manufacturing
- CE-SPIRE-03-2018 Energy end resource flexibility in highly energy intensive industries.
  - CE-SPIRE-05-2019 Adaptation to variable feedstock through retrofiting
- LC-EEB-06-2018-2020 ICT enabled, sustainable and affordable residential building construction, design to end of life.



# Pilot experience: LUMP SUM

- DT-NMBP-20-2018: A digital "plug and produce" online equipment platform for manufacturing.

**Deadline: 08/03/2018**

- **Lump-sum Payments**

- Payment on the basis of deliverables instead of costs.
- Fixed lump-sum defined in work program: 7.5 M€
- Payment when work packages are fully completed; without cost reporting, or financial audits.

- **Cascading Grants**

- To connect small manufacturing business to the platform
- Open call to select third parties for which financial support will be granted (50.000-100.000 €).

# Convocatorias NMBP 2018-20: Focus Areas



- **Digitisation / Transformation of Industry**

- **Circular Economy**



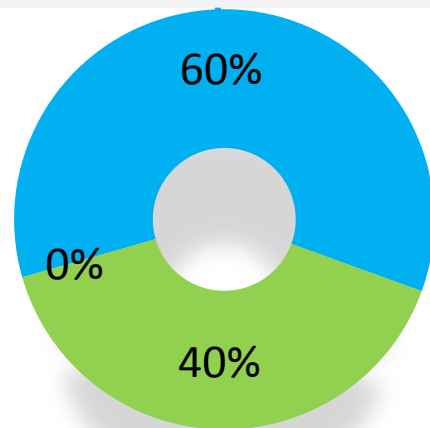
- **De-carbonisation and Energy**

# MNBP main priorities

## Priorities

Bringing the digital to the physical world

Industry 4.0



Circular Economy (20%)

Climate, Energy (20%)

Climate, Energy and the Circular Economy

## Calls

**FOUNDATIONS** for tomorrow's industry (~395M€)

**TRANSFORMING** European industry (~525M€)

**Industrial SUSTAINABILITY** (~665M€)

## Impacts

Eco-system for design/testing/upscaling

Global industrial leadership for re-industrialisation

Less energy input, more energy/ resource efficiency

# Calls NMBP 2018-20

**FOUNDATIONS** for  
tomorrow's industry  
(~395M€)

Open Innovation  
TestBeds

Characterisation &  
Modelling

Governance, risk-  
assessment &  
regulatory

**TRANSFORMING**  
European industry  
(~525M€)

Factories of the  
Future (FoF)

Biotechnology

Medical Technology

Industrial  
**SUSTAINABILITY**  
(~525M€)

Sustainable  
Process Industry  
(SPIRE)

Catalysing Circular  
Economy

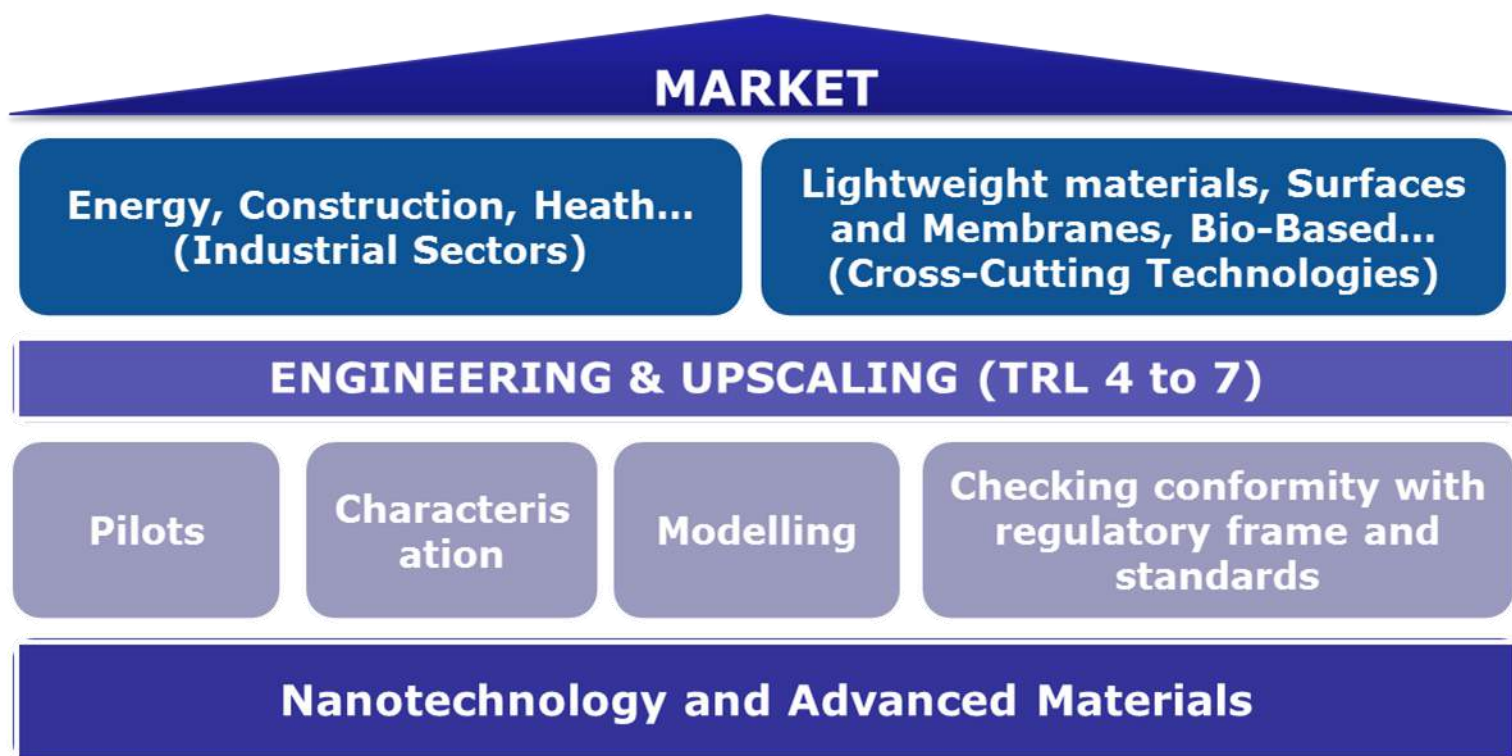
Materials Clean  
Energy

Cultural Heritage

Energy-efficient  
Buildings (EEB)



# Foundations for Tomorrow's Industry

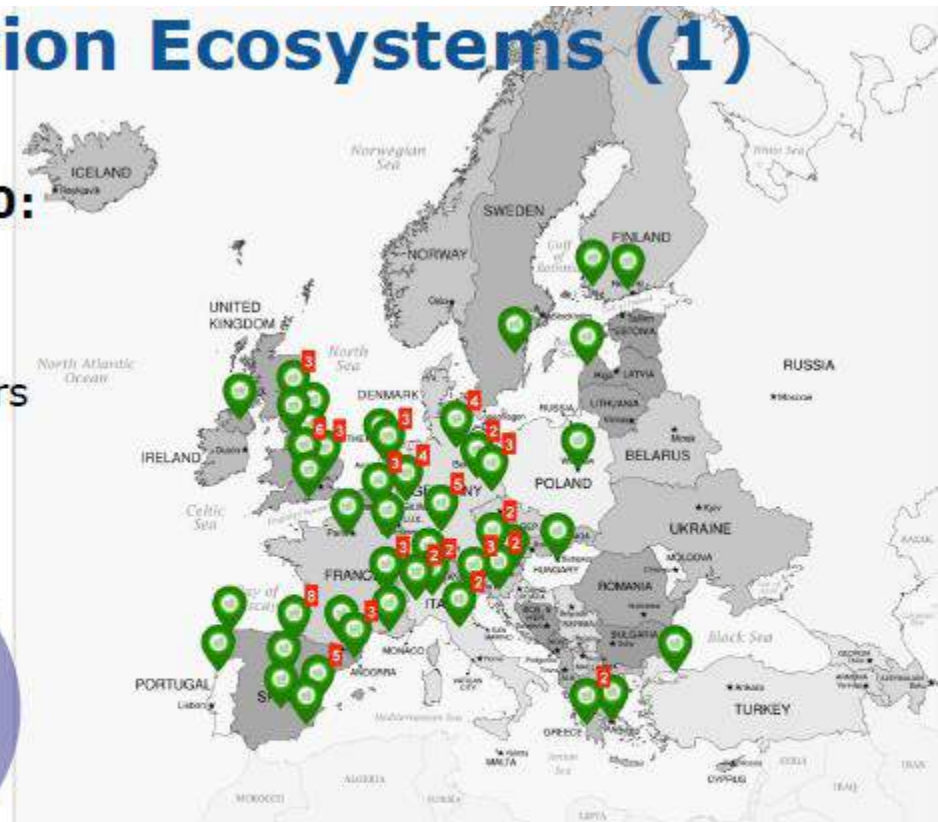
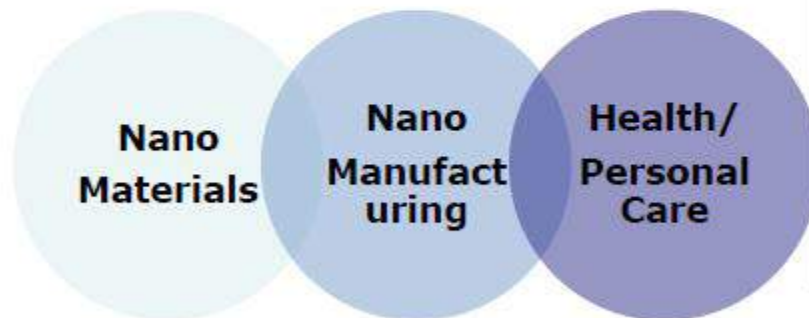


# Pilots (NMBP 2014-2017)

## Enablers for Innovation Ecosystems (1)

### Pilot Line Projects Horizon 2020:

- EU Contribution 150 M€
- 29 Pilot Line Projects
- >80 Pilot Facilities and Demonstrators
- >30 Regions involved



# Open Innovation Test Beds



# Open Innovation Test Beds - Scope

Open access to facilities and services for design, development (prototyping), testing, and upscaling materials and nanotechnologies for new products

Demonstration in the relevant industrial environments

Show-casing technologies with user industry in cross border applications

Facilitate access of European SMEs along product supply chains

Identification and assessment of potential regulatory, economic and technical barriers

Engagement of stakeholders across the EU and the Associated Countries



# Example of Test Bed with own Facilities and Services

## SOLUTION

**Open Innovation Test Bed on  
Lightweight nano-enabled multifunctional composite materials  
and components**

**Physical  
Facilities for  
piloting and  
testing**

**Characterisation**

**Modelling**

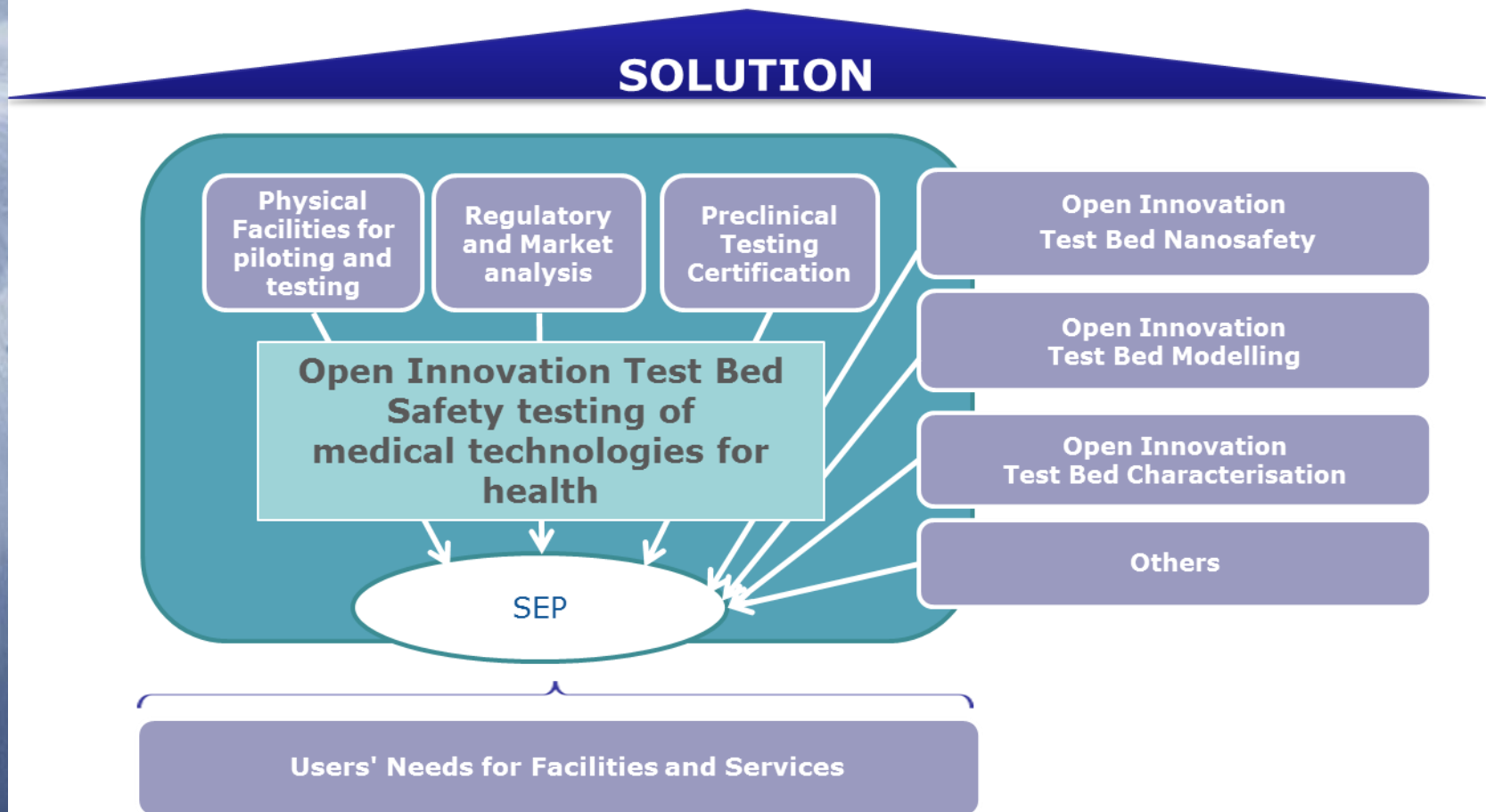
**Nanosafety**

**Regulation &  
Standardisation**

**Business/  
Marketing  
Services**

**Users' Needs for Facilities and Services**

# Example of Test Bed with Facilities & Services in House and Provided by External Entities



# Open Innovation Test Beds:

For upscaling nanotechnology and materials, Open Innovation Test Beds will be funded in 6 technology domains, plus **Characterisation and Modelling**



# Open Innovation Test Beds - Impact



**Open and upgraded facilities at the EU level**

**Reduced services access costs for companies using the TBs**

**Improved industrial productivity**

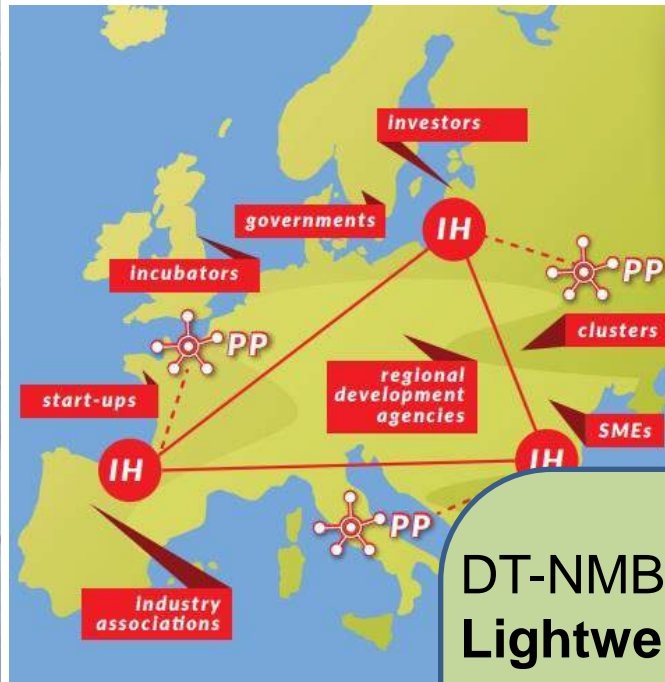
**Accelerated innovation in the specific domain**

**Increased access to finance (for SMEs in particular) for investing in these materials or in applications using them (reducing technological risk)**

**20% increase in SMEs access to TBs' services and increased access to finance for investing in these materials or in applications using them.**



# NMBP 2018-2019: Foundations for Tomorrow's Industry



## OPEN INNOVATION TEST BEDS

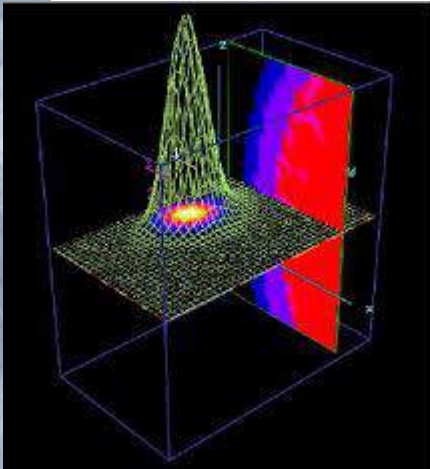
DT-NMBP-01-2018: Open Innovation Test Beds for **Lightweight** nano-enabled multifunctional composite materials and components (IA) **TRL 4-7 7-15M€**

DT-NMBP-02-2018: Open Innovation Test Beds for Safety Testing of **Medical Technologies** for Health (IA) **TRL 4-7 7-15M€**

DT-NMBP-03-2019: Open Innovation Test Beds for nano-enabled **surfaces and membranes**(IA) **TRL 4-7 7-15M€**

# NMBP 2018-2019: Foundations for Tomorrow's Industry

## MATERIALS CHARACTERISATION & COMPUTATIONAL MODELLING



DT-NMBP-07-2018: Open Innovation Test Beds for **Characterisation** (IA) **TRL 4-6 9M€**

DT-NMBP-09-2018: Accelerating the **uptake of materials modelling software** (IA) **TRL 4-7 4M€**

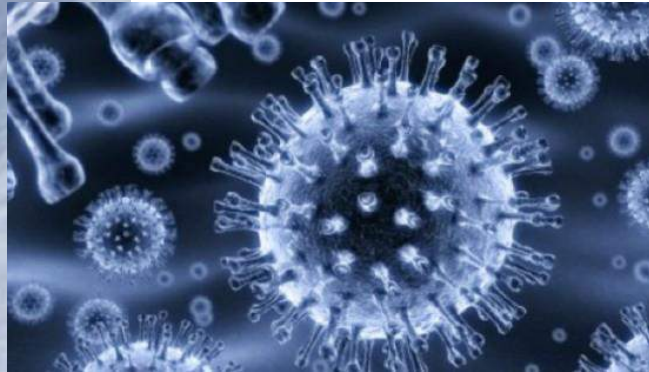
DT-NMBP-08-2019: **Real-time nano-characterisation** technologies (RIA) **TRL 4-6 4-5M€**

DT-NMBP-10-2019: Adopting materials modelling in manufacturing processes (RIA) **TRL 4-6 5M€**

DT-NMBP-12-2019: **Sustainable Nano-Fabrication** (CSA) **2M€**

# NMBP 2018-2019: Foundations for Tomorrow's Industry

## GOVERNANCE, SCIENCE-BASED RISK ASSESSMENT & REGULATORY ASPECTS



NMBP-13-2018: **Risk Governance** of nanotechnology (RIA)



TRL 4-6 5M€

NMBP-14-2018: Nanoinformatics: from materials **models to predictive toxicology and ecotoxicology** (RIA)



TRL 4-6 6M€

NMBP-15-2019: **Safe by design**, from science to regulation: **metrics and main sectors** (RIA)



TRL 4-6 5-6M€

# Calls NMBP 2018-20

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tomorrow's industry  
(~395M€)

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TestBeds

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Modelling

Governance, risk-  
assessment &  
regulatory

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European industry  
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Factories of the  
Future (FoF)

Biotechnology

Medical Technology

Industrial  
**SUSTAINABILITY**  
(~525M€)

Sustainable  
Process Industry  
(SPIRE)

Catalysing Circular  
Economy

Materials Clean  
Energy

Cultural Heritage

Energy-efficient  
Buildings (EEB)



## FACTORIES OF THE FUTURE (FOF) - 2018



DT-FoF-01-2018: **Skills** needed for new Manufacturing jobs (CSA)

1-2M€

DT-FoF-02-2018: Effective Industrial **Human-Robot Cooperation** (RIA)

TRL 4-6 6-8M€

DT-FoF-03-2018: Innovative manufacturing of **opto-electrical parts** (RIA)

TRL 4-6 6-8M€

DT-FoF-04-2018: Pilot lines for **metal Additive Manufacturing (IA 50%)**

TRL 5-7 12-15M€

DT-NMBP-20-2018: A digital '**plug and produce**' **online equipment platform** for manufacturing (IA)

TRL 5-7 7.5M€

Lump  
Sum +  
Cascade

# NMBP 2018-2019: Transforming European Industry

## FACTORIES OF THE FUTURE (FOF) 2019



DT-FoF-05-2019: Open Innovation for **collaborative production engineering** (IA) **TRL 4-6**

DT-FoF-06-2019: **Refurbishment and re-manufacturing** of large industrial equipment (IA) **TRL 5-7**

DT-FoF-08-2019: Pilot lines for **modular factories** (IA 50%) **TRL 5-7**

DT-FoF-12-2019: **Handling systems for flexible materials** (RIA) **TRL 4-6**

DT-NMBP-18-2019: Materials, manufacturing processes and devices for **organic and large area electronics** (IA) **TRL 3-5**

DT-NMBP-19-2019: Advanced **materials for additive manufacturing** (IA) **TRL 4-6**

# NMBP 2018-2019: Transforming European Industry

## BIOTECHNOLOGY



BIOTEC-01-2018: **Standardisation in Synthetic Biology (CSA)**

2M€

BIOTEC-03-2018: **Synthetic biology** to expand diversity of nature's chemical production(RIA) **TRL3-5 6-8M**

CE-BIOTEC-04-2018: New **biotechnologies for environmental remediation (RIA)**



TRL 3-5 5M€

BIOTEC-02-2019: Boosting the efficiency of **photosynthesis (RIA)**

TRL 3-5 6-8M

CE-BIOTEC-05-2019: Microorganism communities for **plastics bio-degradation (RIA)**



TRL 3-5 5M€



## MEDICAL TECHNOLOGY INNOVATIONS

NMBP-22-2018: **Osteo-articular tissues regeneration (RIA)**

TRL 3-5 4-6M€

# Calls NMBP 2018-20

**FOUNDATIONS** for  
tomorrow's industry  
(~395M€)

Open Innovation  
TestBeds

Characterisation &  
Modelling

Governance, risk-  
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Sustainable  
Process Industry  
(SPIRE)

Catalysing Circular  
Economy

Materials Clean  
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Buildings (EEB)



## SUSTAINABLE PROCESS INDUSTRY (SPIRE)



CE-SPIRE-02-2018: Processing of material feedstock using **non-conventional energy sources** (IA)

TRL 4-6 6-10M€

CE-SPIRE-03-2018: Energy and resource efficiency in **highly energy intensive** industries(**IA 50%**)

TRL 5-7 8-12M€

CE-SPIRE-10-2018: Efficient recycling processes for plastic containing materials (IA)

TRL 5-7 6-8M€

CE-SPIRE-04-2019: Efficient integrated **downstream processes** (IA)

TRL 5-7 10-14 M€

CE-SPIRE-05-2019: Adaptation to **variable feedstock** through retrofitting (**IA 50%**)

TRL 5-7 8-12M€

DT-SPIRE-06-2019: Digital technologies for improved performance in **cognitive production plants**(IA)

TRL 5-7 6-8M€

## CATALYSING THE CIRCULAR ECONOMY



CE-NMBP-24-2018: **Catalytic transformation of hydrocarbons (RIA)** **TRL 3-5 5-7M€**

CE-NMBP-26-2018: Smart plastic materials with **intelligent recycling properties by design (RIA)** **TRL 3-5 4-6M€**

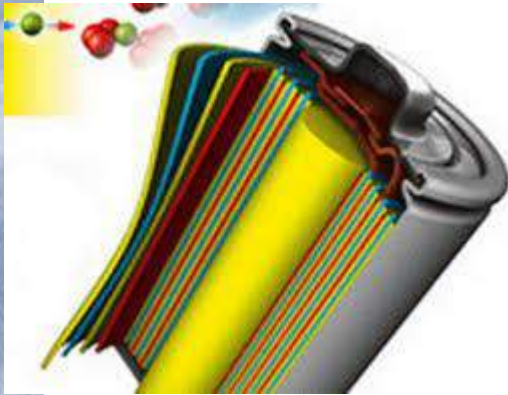
CE-NMBP-25-2019: **Photocatalytic synthesis (RIA)** **TRL 3-5 5-7M€**



## CULTURAL HERITAGE

NMBP-32-2018: Innovative and affordable solutions for the **preventive conservation of cultural heritage (IA)** **TRL 5-7 4-6M€**

## CLEAN ENERGY THROUGH INNOVATIVE MATERIALS



LC-NMBP-30-2018: Materials for future highly performant **electrified vehicle batteries** (RIA)

TRL 3-5 6-8M€

LC-NMBP-27-2019: Strengthening EU materials technologies for **non-automotive battery storage** (RIA)

TRL 4-6 6-8M€

LC-NMBP-29-2019: Materials for **non-battery based energy storage** (RIA)

TRL 3-5 4-6M€

LC-NMBP-32-2019: Smart materials, systems and structures for **energy harvesting**(RIA)

TRL 3-5 5-7M€

# NMBP 2018-2019: Industrial sustainability

## ENERGY-EFFICIENT BUILDINGS (EEB)



LC-EeB-02-2018: Building information modelling adapted to efficient renovation (RIA) **TRL 4-6 5-7M€**

LC-EeB-06-2018/20: **ICT** enabled, sustainable and affordable residential building, **design to end of life (IA 50%)** **TRL 5-7 6-8M€**

LC-EeB-01-2019: Integration of energy smart materials in non-residential buildings (IA) **TRL 5-7 4-6M€**

LC-EeB-03-2019: New developments in **plus energy houses** (IA) **TRL 5-7 6-8M€**

LC-EeB-05-2019/20: Integrated **storage systems for residential** buildings (IA) **TRL 5-7 6-8M€**



# Convocatorias NMBP 2018

- Call- FOUNDATIONS FOR TOMORROW'S INDUSTRY

Open Innovation TestBeds	2 topics	75 M	Stage I: 23/01/18 Stage II: 28 /06/18
Materials Characterization and Computational Modelling	2 topics	44 M	
Governance, science-based risk assessment and regulatory aspects	2 topics	30 M	

- Call- TRANSFORMING EUROPEAN INDUSTRY

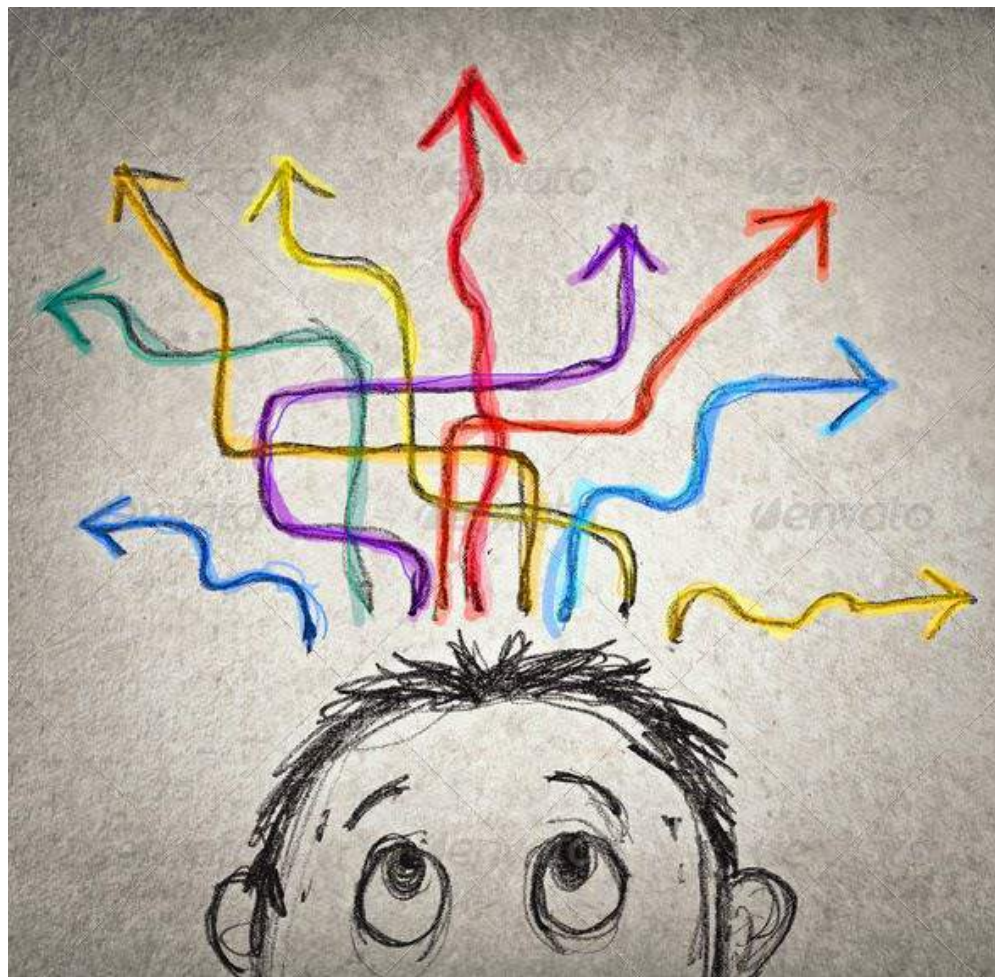
Factories of the future (FoF)	5 topics	81 M	22/02/18
Biotechnology	3 topics: CSA (1)	2 M	22/02/18
	China (4)	10 M	25/04/18
	(3)	30 M	St.I:23/01/18 St.II:28/06/18
Medical Technology Innovations	1 topic	24 M	

# Convocatorias NMBP 2018

- Call- INDUSTRIAL SUSTAINABILITY

Sustainable Process Industry (SPIRE)	3 topics	97 M	22/01/18
Catalysing the circular economy	2 topics	38 M	St.I:23/01/18 St.II:28/06/18
Clean energy through innovative materials	1 topic	25 M	
Cultural Heritage	1 topic	16 M	
Energy-efficient buildings (EEB)	2 topics	35 M	22/01/18

¿¿Y por dónde empiezo??



# The topic

## TITLE

## CHALLENGE & SCOPE

## TRL & BUDGET

## IMPACT

## INSTRUMENT

**CE-NMBP-26-2018: Smart plastic materials with intrinsic recycling properties by design (RIA)**

**Specific Challenge:** Developing of multifunctional materials based products with smart intrinsic recycling and/or sorting abilities that harmonise with circular economy principles will create a real paradigm shift in the market and a clear benefit for society. It will also help industry to better match the EU environmental targets at the same time as improving their competitiveness.

**Scope:** Proposals should cover one or more of the following types of materials design:

- Design of polymer material structures with intrinsic sorting/recycling abilities such as: Composite and reinforced composite materials, multilayers, mix of plastics, sequence controlled polymers, reinforced polymers, but also the design of polymer formulations with smart additives, which allow adequate sorting, separation and recycling;
- Design of smart polymer materials for recycling/re-processing: The development of resins of thermoplastic nature, but also the development of new smart polymers (e.g. sequence controlled polymers, vitrimers, nano-structured block co-polymers, self-sorting polymers, click chemistry based materials) and others;
- Further developments of separation and recycling technologies: New separation technologies like the removal of organics, contaminants, but also further developments or novel chemical recycling and/or controlled bio-degradation technologies, which are today not cost effective enough or still need to be validated.

Proposals should demonstrate the actual circular use of such materials through re-processing of recycled products and the evaluation of properties of such re-processed products in an industrial environment.

Proposals should include the full Life Cycle Assessment (LCA) of the material production and life-cycle.

Activities should start at TRL 3 and achieve TRL 5 at the end of the project.

The Commission considers that proposals requesting a contribution from the EU between EUR 4 and 6 million would allow this specific challenge to be addressed appropriately.

Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

**Expected Impact:** The development of novel plastic materials would aid in:

- Meeting the EU's circular economy and environmental targets while demonstrating a clear benefit, i.e. more efficient or economic than the state of the art in order to enable market uptake in the short to medium term;
- Create new technologies and business opportunities for the recycling industry across Europe, especially in the area of composites and plastics where the challenge is high;
- Demonstrate a potential reduction in landfill waste volume by > 50%;
- Reduction of the carbon footprint of the corresponding products by > 30% (based on a full Life Cycle Assessment).

Relevant indicators and metrics, with baseline values, should be clearly stated in the proposal.

**Type of Action:** Research and Innovation action



# Make an IMPACT!



- Importancia en la evaluación
- Cubrir TODOS los impactos del topic...e identificar otros posibles.
- Cuantificar los impactos de manera justificada.

«Relevant indicators and metrics, with baseline values, should be clearly stated in the proposal.»

- Ser ambiciosos, definir una estrategia y plan de futuro claro.
- Prestar atención al Plan de Comunicación

# Business case & Exploitation strategy

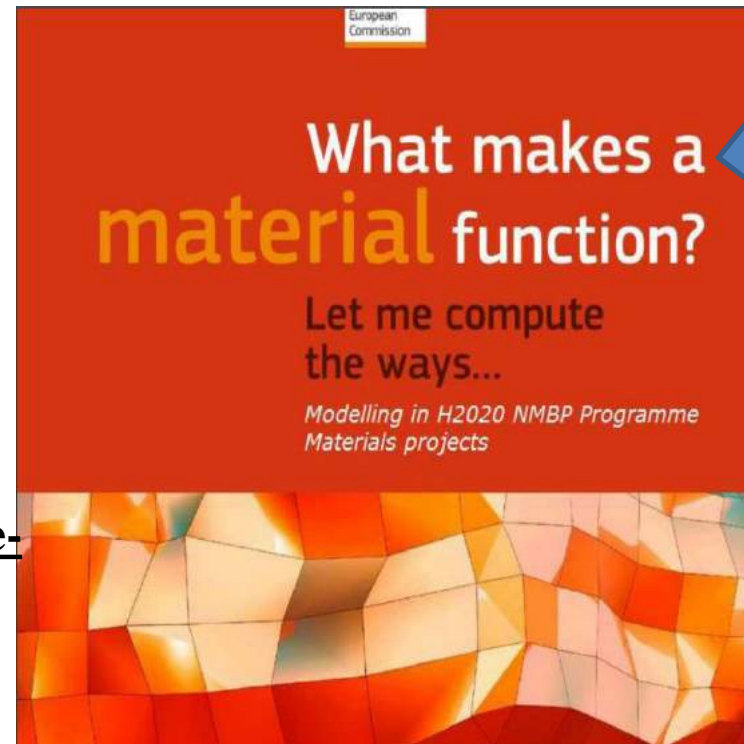
- Market opportunities for European enterprises, innovators.
- Manufacturing capacities : growth and jobs in Europe.
  - **BUSINESS CASE:** Targeted markets; user, consumer needs, competitive advantage, etc.
- Realistic **exploitation strategy**:
  - Identify obstacles & needed actions to reach high TRLs :
    - Industrial integrator, availability of testing facilities, reliability.
    - Matching European value chains.
    - Standardisation, IPR, Regulatory issues.
    - User acceptance; sustainability of financing



# Computational Modelling

- Highlighted in a number of topics .
- Should be described similar to Review of Material Modelling (RoMM)
- Contribution to the European Materials Modelling Council (EMMC)
- Use of existing models from previous project is encouraged.

<https://emmc.info/version-6-of-the-romm-is-now-available/>



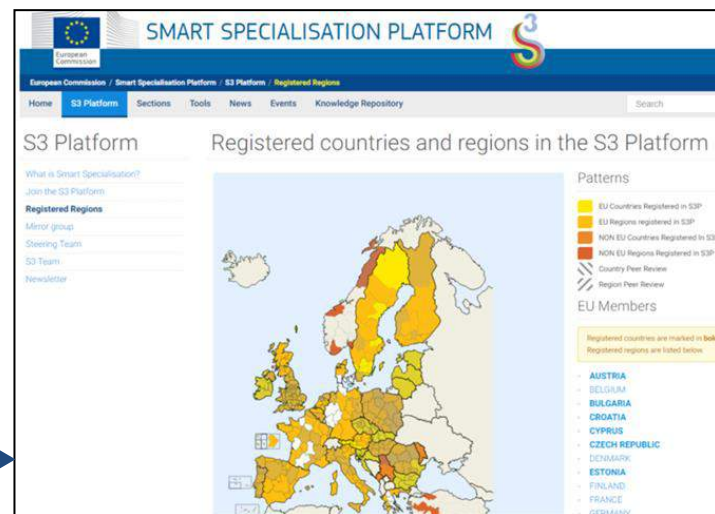
# Other cross-cutting issues

- **Synergies of funds:** possibilities for further funding from other relevant EU, national or regional R&I funds.

Identify the Smart Specialisation fields of your EU Member State or region (RIS3).

**RIS3 Guide & map:**

<http://s3platform.jrc.ec.europa.eu/map>



- **Gender aspects:** explore, analyse and respond to possible sex and gender differences.
- **Open research data:** Engage in research data sharing by default (may opt out)
- Integration of social sciences and humanities (**SSH**).
- Contribution to **Standardization** activities.
- Life cycle Analysis as a tool (SPIRE topics).



# The Work Programme (DRAFT)

- Excellent Science
  - Future and Emerging Technologies, DRAFT work programme published
  - Marie Skłodowska-Curie actions, DRAFT work programme published
  - Research Infrastructures, including e-Infrastructures, DRAFT work programme published
  - Leadership in Enabling and Industrial Technologies, DRAFT Introduction published
  - Nanotechnologies, Advanced Materials, Biotechnology, and Advanced Manufacturing and Processing (NMBP), DRAFT work programme published
  - Information and Communication Technologies, DRAFT work programme published
  - Space, DRAFT work programme published
- Innovation in SMEs, DRAFT work programme published
- Access to Risk Finance, DRAFT work programme published
- Societal Challenges
  - Societal Challenge 1, DRAFT work programme published (Health, demographic change and wellbeing)
  - Societal Challenge 2, DRAFT work programme published (Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy)
  - Secure, Clean and Efficient Energy , DRAFT work programme published
  - Societal Challenge 4, DRAFT work programme published (Smart, Green and Integrated Transport)
  - Societal Challenge 5, DRAFT work programme published (Climate Action, Environment, Resource Efficiency and Raw Materials)
  - Societal Challenge 6, DRAFT work programme published (Europe in a changing world – Inclusive, innovative and reflective societies)
- Spreading Excellence and Widening Participation
- Science with and for Society, DRAFT work programme published
- European Innovation Council (EIC) pilot, DRAFT work programme published
- Euratom, DRAFT work programme published

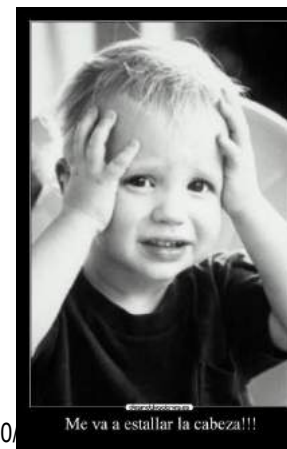
- Fast Track to Innovation  
- SME Instrument  
- Prizes



# Algunas recomendaciones finales:



- No olvidar contexto político, directivas y roadmaps
- Leer muy bien el topic y las introducciones.
- Cumplir los TRLs de inicio y fin del proyecto y justificarlos.
- Cumplir TODOS los impactos; cuantificar de forma razonada.
- Pensar en el evaluador

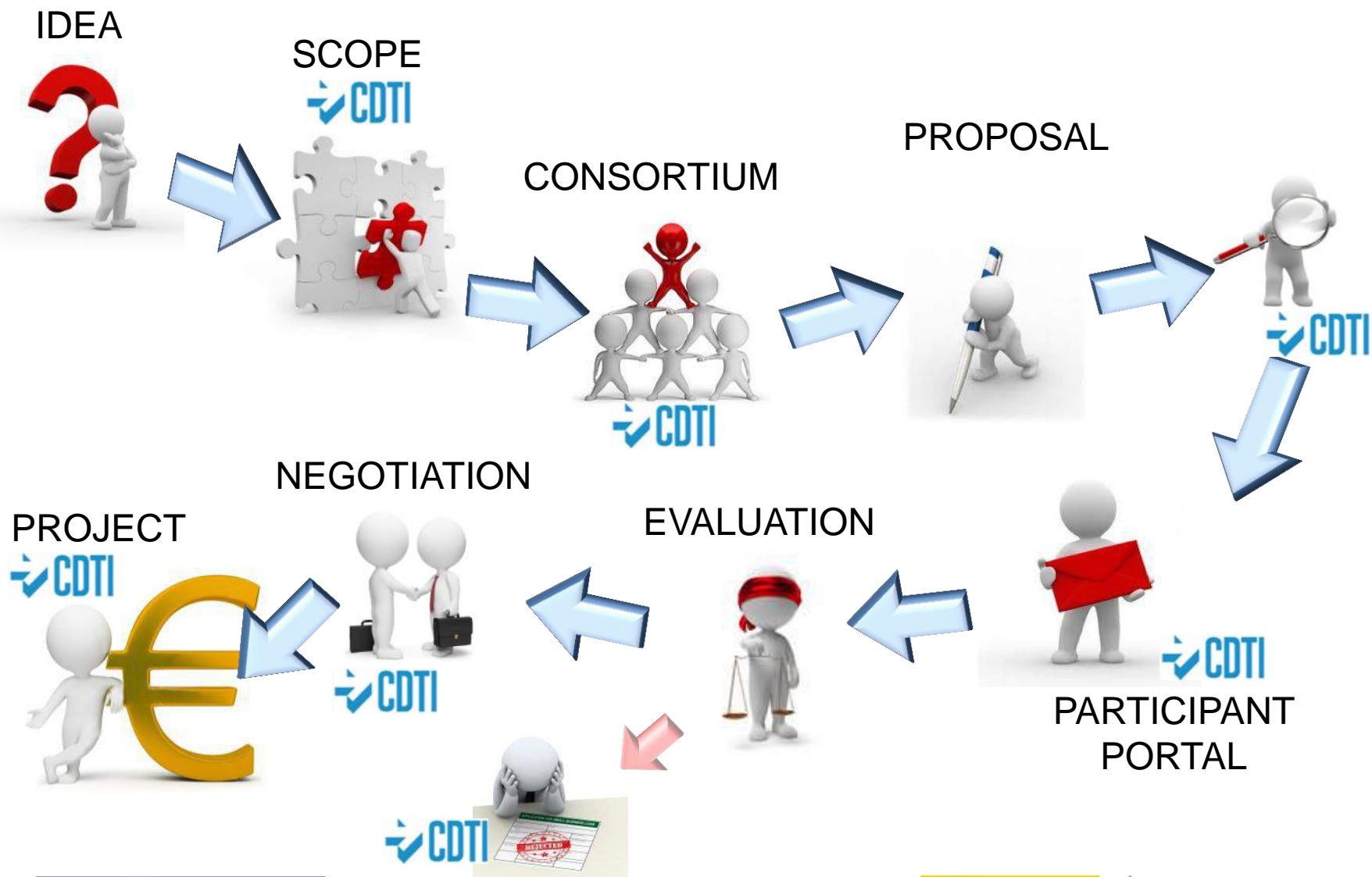


HORIZON 2020



**Preparados para el éxito !!**

# CDTI's support



# CDTI's support

**Red de puntos de información sobre I+D+i (Red PI+D+i)**

**“NINGÚN PROYECTO INNOVADOR SIN AYUDA”**

**150 nodos de información en diferentes niveles**

**Amplia cobertura territorial**

**Medios de acceso al servicio**

**Canal Web:** <http://www.redpidi.es>

**Teléfono:** 902.34.74.34

**Presencial:** Punto pidi más cercano <http://www.redpidi.es>





ESHORIZONTE2020

Portal español del Programa Marco de Investigación e Innovación de la Unión Europea



<http://www.eshorizonte2020.es/>

H2020 Guía rápida:

<http://www.eshorizonte2020.es/como-participar/guia-del-participante>

La generación de nuevo conocimiento, base del crecimiento europeo



**erc**  
European Research Council  
Established by the European Commission



**ACTUALIDAD**  
Publicación de los borradores de programas de trabajo de Horizonte 2020  
La Comisión Europea ya está publicando los borradores finales de los programas de trabajo de Horizonte 2020.



**NOTICIAS**  
Abierta la inscripción en la base de datos de expertos de Horizonte 2020 de la Comisión Europea  
Todos aquellos expertos del mundo académico y empresarial, de diferentes áreas de conocimiento.

**CALENDARIO DE ACTIVIDADES**

Noviembre 2013

L	M	X	J	V	S	D
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

**Qué es HORIZONTE 2020**



**EVENTOS**  
7ª Conferencia del Programa Marco para Investigación e Innovación de la UE en España, Horizonte 2020  
Ya están disponibles la mayoría de las presentaciones de la 7ª Conferencia del Programa

**EVENTOS**  
Infoday ERC: Programa de Trabajo 2014  
El día 11 de diciembre de 2013, tendrá lugar en el Instituto de Salud Carlos III una jornada informativa sobre el Programa de Trabajo 2014 del ERC. La intervención principal



# Listas distribución NMPB – H2020

el Desarrollo Industrial

Orientación - Financiación - Internacionalización

english / euskera / català / galego

Texto a buscar

Está usted en: Servicios / Servicios de Difusión Selectiva (Listas de distribución)

## Servicios de Difusión Selectiva (Listas de distribución)



El CDTI ofrece un servicio de difusión de determinadas informaciones de interés, tanto en lo que se refiere a novedades relativas a sus programas como a actualizaciones de la información disponible. Este servicio se articula a través de una serie de "Listas de distribución" que recogen los datos de las personas interesadas en recibir la información.

A continuación se enumeran las diferentes listas de distribución que figuran a lo largo del portal. Para mantenerse informado de todas las novedades relativas a los temas a que se refieren estas listas, regístrese en aquellas que sean de su interés seleccionando las mismas y pinchando en "inscribirse" al pie de la página.

**Si ya está inscrito a alguna lista** y desea modificar sus datos (cambiar datos personales, inscribirse a más listas o borrar la inscripción a alguna de ellas), por favor, introduzca su dirección de correo electrónico en el cuadro que encontrará a la derecha de la pantalla y pulse "Aceptar". Inmediatamente recibirá un mensaje con un enlace a la página en la que podrá realizar la modificación oportuna.

## Financiación y Cooperación Internacional

### HORIZONTE 2020

#### HORIZONTE 2020

- Horizonte 2020 - Acción por el clima, medio ambiente, eficiencia de los recursos y materias primas
- Horizonte 2020 - Energía Segura, Limpia y Eficiente
- Horizonte 2020 - Espacio
- Horizonte 2020 - Nanotecnologías, Materiales Avanzados y Fabricación y Transformación Avanzadas**
- Horizonte 2020 - PYME y Acceso Financiación de Riesgo
- Horizonte 2020 - Salud, cambio demográfico y bienestar
- Horizonte 2020 - Seguridad alimentaria, agricultura y silvicultura sostenibles.

### Modificación



Si ya es usuario y desea modificar su inscripción a las listas introduzca su dirección de e-mail:

(Dirección de e-mail)

Aceptar

GOBIERNO DE ESPAÑA

MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD

SECRETARÍA DE ESTADO DE INNOVACIÓN TECNOLÓGICA

Texto a buscar

acionalización de la

de distribución



más de 55 millones  
125 proyectos de  
ial

# Búsqueda de socios:

-Portal del Participante :

-Red de NCPs : [www.nmpteam.eu](http://www.nmpteam.eu)

The screenshot shows the 'Partner Search' page on the European Commission's Participant Portal. The page has a blue header with the European Commission logo and the text 'RESEARCH & INNOVATION Participant Portal'. Below the header, there are navigation links: HOME, FUNDING OPPORTUNITIES, HOW TO PARTICIPATE (highlighted with a red circle), EXPERTS, and SUPPORT. A sidebar on the left contains links to Reference Documents, Beneficiary Register, and Partner Search (highlighted with a red circle and an arrow). The main content area displays 'More keywords...' with two donut charts. The first chart shows the distribution of roles: FP7 (717), H2020 (324), COORDINATOR (400), THIRD PARTY (19), and BENEFICIARY (636). The second chart shows the distribution of roles: COORDINATOR (400), THIRD PARTY (19), and BENEFICIARY (636). Below the charts, there is a network diagram titled 'Main collaboration partners' showing connections between various research institutions like CNRS, UOXF, NERC, MPG, CEA, DTU, CNR, INRA, and Fraunhofer. At the bottom, there is a table of projects with columns for ACRONYM, PROGRAM, TITLE, PROJECT ID, and ACTIONS.

The screenshot shows the NMP TeAm website. The header includes the NMP TeAm logo and the text 'WELCOME SERV'. The main content area features a large blue banner with the text 'THE PARTNER SEARCH' and 'partnering offers and searches', with a 'READ MORE' button. Below the banner, there are three sections: HEADLINES, SELECTED PARTNER SEARCH, and SELECTED PARTNER OFFER. The SELECTED PARTNER SEARCH section is highlighted with a red circle and an arrow. It lists two search results: PS-17-FR-1907 (France: LABORATORY OF PHYSICAL-CHEMISTRY CHEMISTRY (LCPM) ...) and PS-17-FR-1901 (France: Genes Ink - PhD Rita FADDOUL). The SELECTED PARTNER OFFER section lists two offers: PO-17-FR-1899 (France: Genes Ink - PhD Rita FADDOUL) and PO-17-IT-1897 (Italy: Mediterranean University of Reggio Calabria Department...).

# Algunas fechas a recordar

- Brokerage Events:
  - Munich, 16 de noviembre
  - Bruselas, 7 de noviembre (EMIRI)
- Información y revisión de ideas de proyecto:

Fecha	Ciudad
24 Octubre	Santiago
30 Octubre	Valencia
6 Noviembre	Barcelona
14 Noviembre	Bilbao
28 Noviembre	Sevilla



# Contact information NMBP:

***Leadership in Enabling and Industrial Technologies  
(LEIT): NMBP***

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**Carlos León:** National Contact Point **NMP** - [carlos.leon@fis.ucm.es](mailto:carlos.leon@fis.ucm.es)

<http://eshorizonte2020.es/>



@eshorizonte2020  
@CDTlOficial



**Consultas generales sobre  
I+D+i y el Programa Marco:**  
<http://www.cdti.es/pidi>

**Tel. 902 34 74 34**



# Muchas Gracias por su atención

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