



# CONVOCATORIA NMBP 2018: NOVEDADES Y RECOMENDACIONES

MADRID, 19 OCTUBRE 2017



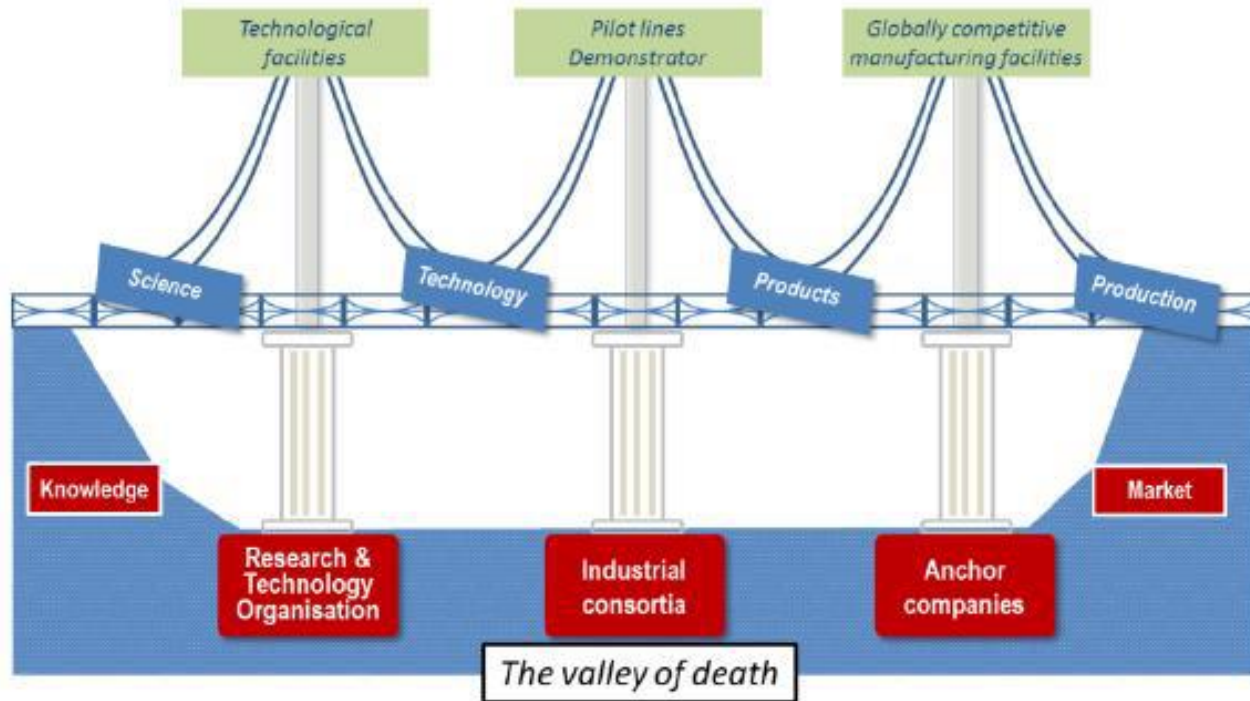
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 **@NievesGonz\_CDTI**

División Programas la UE, CDTI

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# 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**

# 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>



**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

# Policy Context

- ***Juncker's Priorities***
  - Boosting competitiveness, creating jobs and supporting growth
- ***EU Industrial Policy***
  - Stimulating investments in innovation and new technologies
  - SMEs and Entrepreneurship
- ***EU Strategy for Key Enabling Technologies***
  - EU's industrial innovation capacities
  - Exploitation of the EU's potential in competitive markets
- ***Commissioner Moedas's priorities***
  - Open Innovation

# Policy context



PARIS2015  
UN CLIMATE CHANGE CONFERENCE  
COP21·CMP11



SET Plan Conference @SETPlan\_eu · 20 h  
@Moedas: "Energy research will be a priority of President  
@JunckerEU" #setplan15



EUROPEAN INNOVATION PARTNERSHIP ON  
**RAW MATERIALS**



STATE OF THE UNION | 2017

The new **Industrial Policy Strategy** will help our industries stay or become the world leader in innovation, **digitisation** and decarbonisation.

#SOTEU  
ec.europa.eu/soteu



# 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

International cooperation is a cross-cutting priority.



- **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:

[http://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/international-cooperation\\_en.htm](http://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/international-cooperation_en.htm)  
(20/10/2017)

# Open to the World



- **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.

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

## The challenge of scale-up



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

INNOVATION ECOSYSTEM

# Open Innovation

## Greater outreach: clusters and networks

- Active contribution to the on-going relevant European activities, and similar clusters and networks.
- «Include actions designed to facilitate cooperation, across Europe, with other projects» 25 topics in 2018-2019
- Standardisation activities : contribution to CEN/CENELEC



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



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



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



<http://eppn.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.

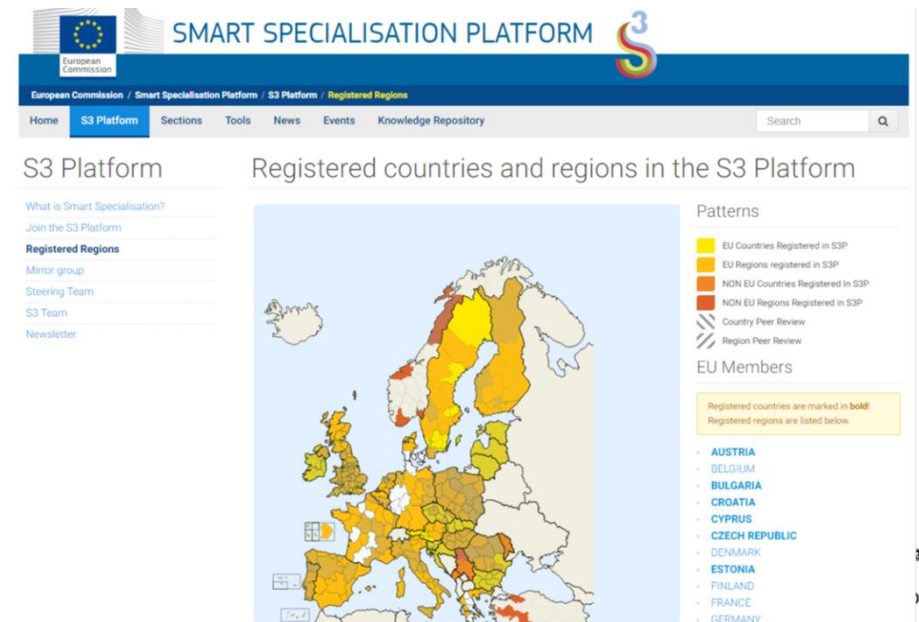
- **Cascading Grants**

- 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 €).

# Synergies of funds

- Synergies and 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>



¿¿Y por dónde empiezo??





# The topic

TITLE

CHALLENGE  
&  
SCOPE

TRL &  
BUDGET

IMPACT

INSTRUMENT

 División  
Programas de la UE

**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

*The conditions related to this topic are provided at the end of this call and in the General Annexes.*

# 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.

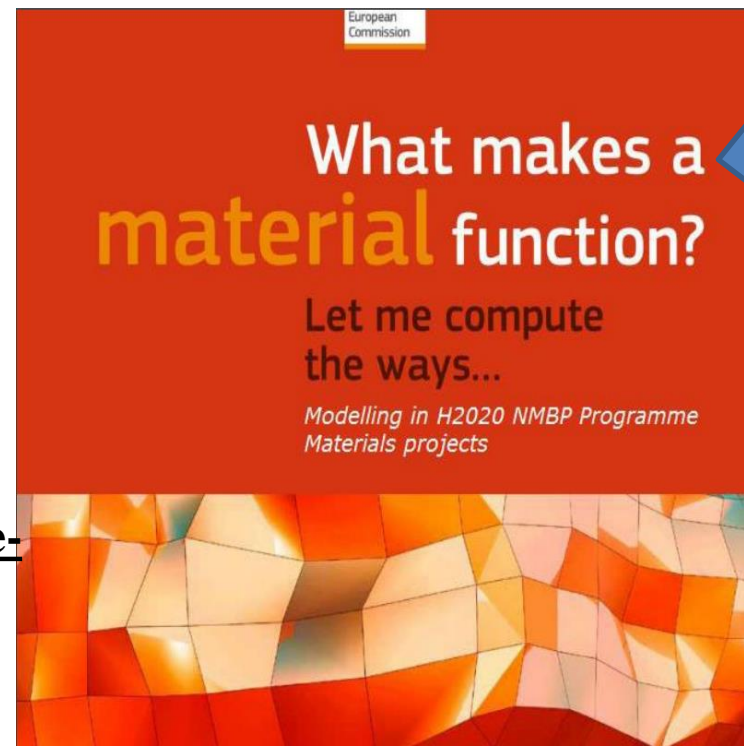
# Business case & Exploitation strategy

- 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

- 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 Standardisation activities.
- Life Cycle Analysis as a tool (SPIRE topics).

# The Work Programme (DRAFT)

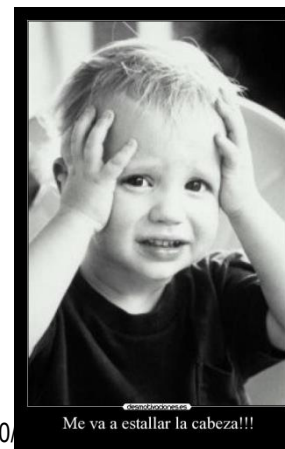
- Excellent Science
  - Future and Emerging Technologies, DRAFT work programme published
  - Marie Skłodowska-Curie actions, DRAFT work programme published
  - Research Infrastructures, including e-Infrastructures, DRAFT work programme published
  - Leadership in Enabling and Industrial Technologies, 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



# 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
Medical Technology Innovations	1 topic	24 M	St.II:28/06/18



# Convocatorias NMBP 2018

- Call- INDUSTRIAL SUSTAINABILITY

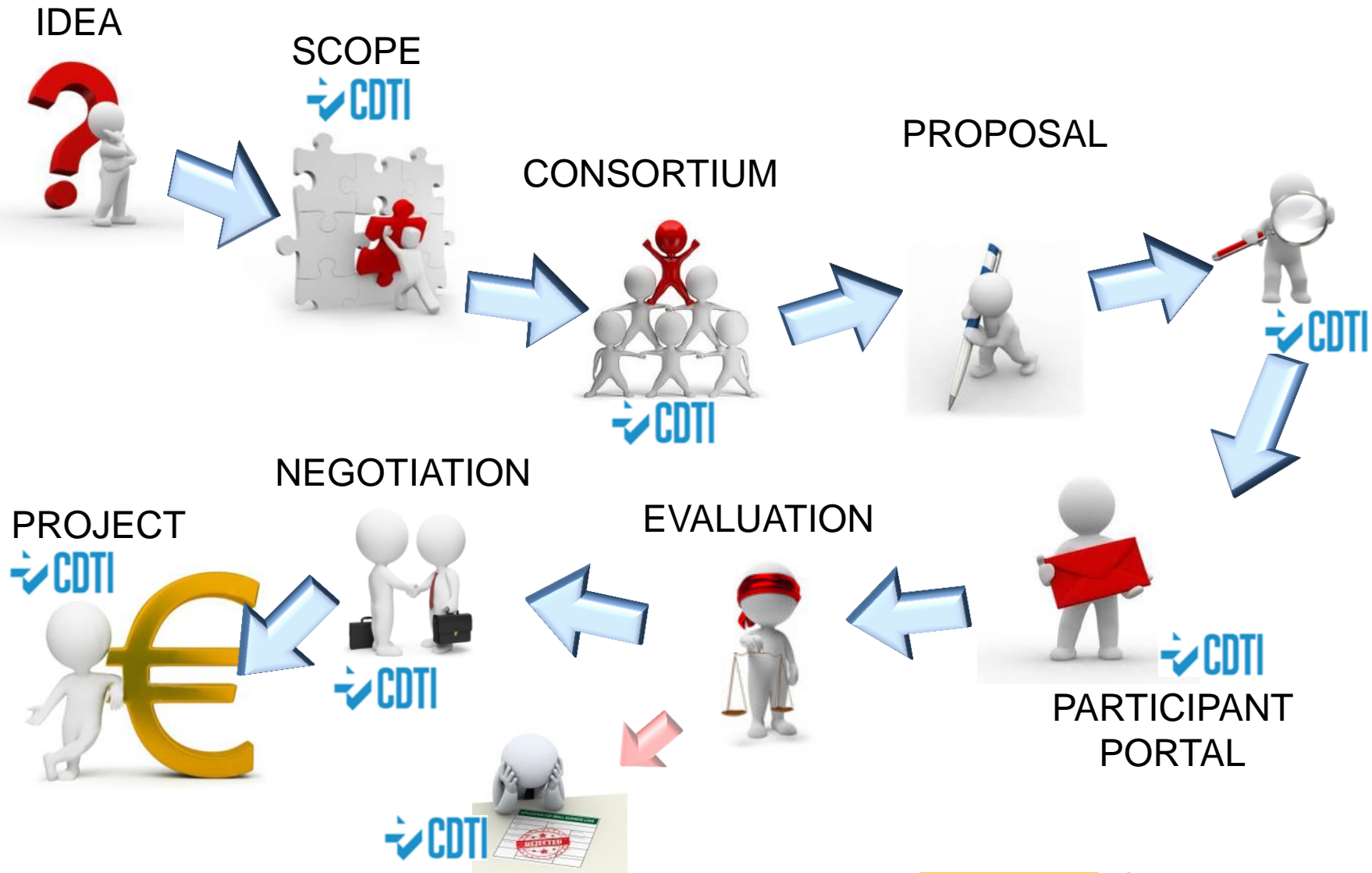
Sustainable Process Industry (SPIRE)	3 topics	97 M	22/01/18
Catalysing the circular economy	2 topics	38 M	St.I:23/01/18 St.II:28/06/18
Clean energy through innovative materials	1 topic	25 M	
Cultural Heritage	1 topic	16 M	
Energy-efficient buildings (EEB)	2 topics	35 M	22/01/18

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

**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

**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**

# Listas distribución NMPB – H2020

www.cdti.es

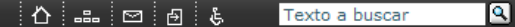


Centro para el Desarrollo Tecnológico Industrial

Orientación - Financiación - Internacionalización



english / euskera / català / galego



Texto a buscar



¿Qué es el CDTI

Financiación

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.

¡síguenos!  
social media

Financiación I+D+i



Internacionalización de la I+D+i

os online



Listas de distribución



#### Modificación



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

(Dirección de e-mail)

Aceptar

CDTI

nadas

oticias

28/02/2014

El CDTI invierte más de 55 millones de euros para 125 proyectos de I+D+i empresarial

# Búsqueda de socios:

- CORDIS
- Portal del Participante :

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

Partner Search - Research P... X +  
https://ec.europa.eu/research/participants/portal/desktop/en/organisations/partner\_search.html

RESEARCH & INNOVATION  
Participant Portal

European Commission > Research & Innovation > Participant Portal > Partner Search

HOME FUNDING OPPORTUNITIES **HOW TO PARTICIPATE** EXPERTS SUPPORT

Reference Documents  
Beneficiary Register  
**Partner Search**  
Financial Viability Self-Check  
SME Participation

Partner Search  
Find partners for your...  
Enter a keyword or a t...  
organisations. Search b...  
For more specialised p...

Involvement of the organisation in EU funded programmes

Keyword(s)  
enter (a) keyword(s)

Topic  
enter a Topic

Call  
enter a Call

NMP TeAm WELCOME SERVICE

THE PARTNER SEARCH  
partnering offers and searches

READ MORE

HEADLINES

SELECTED PARTNER SEARCH

PS-17-FR-1907  
France: LABORATORY OF PHYSICAL-CHEMISTRY CHEMISTRY (LCPM) ...

PS-17-FR-1901  
France: Genes Ink - PhD Rita FADDOUL

SELECTED PARTNER OFFER

PO-17-FR-1899  
France: Genes Ink - PhD Rita FADDOUL

PO-17-IT-1897  
Italy: Mediterranean University of Reggio Calabria- Department...

# Algunas fechas a recordar

- Brokerage Events:
  - Munich, 14 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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<http://eshorizonte2020.es/>



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@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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