

OPORTUNIDADES EN EL PILAR-2 DE H2020, LIDERAZGO INDUSTRIAL

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NMBP EN HORIZONTE 2020, LIDERAZGO INDUSTRIAL

Dónde está NMBP en H2020...



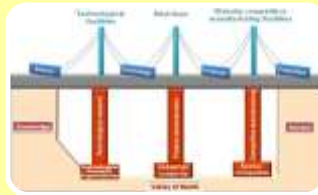
Excellent Science

European Research Council (ERC)

Future and Emerging Technologies (FET)

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

European research infrastructures



Industrial Leadership

ICT

Nanotechnology

Biotechnology

Advanced Materials

Advanced Manufacturing & Processing

Space

Access to Risk Finance

Innovation in SMEs



Societal Challenges

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

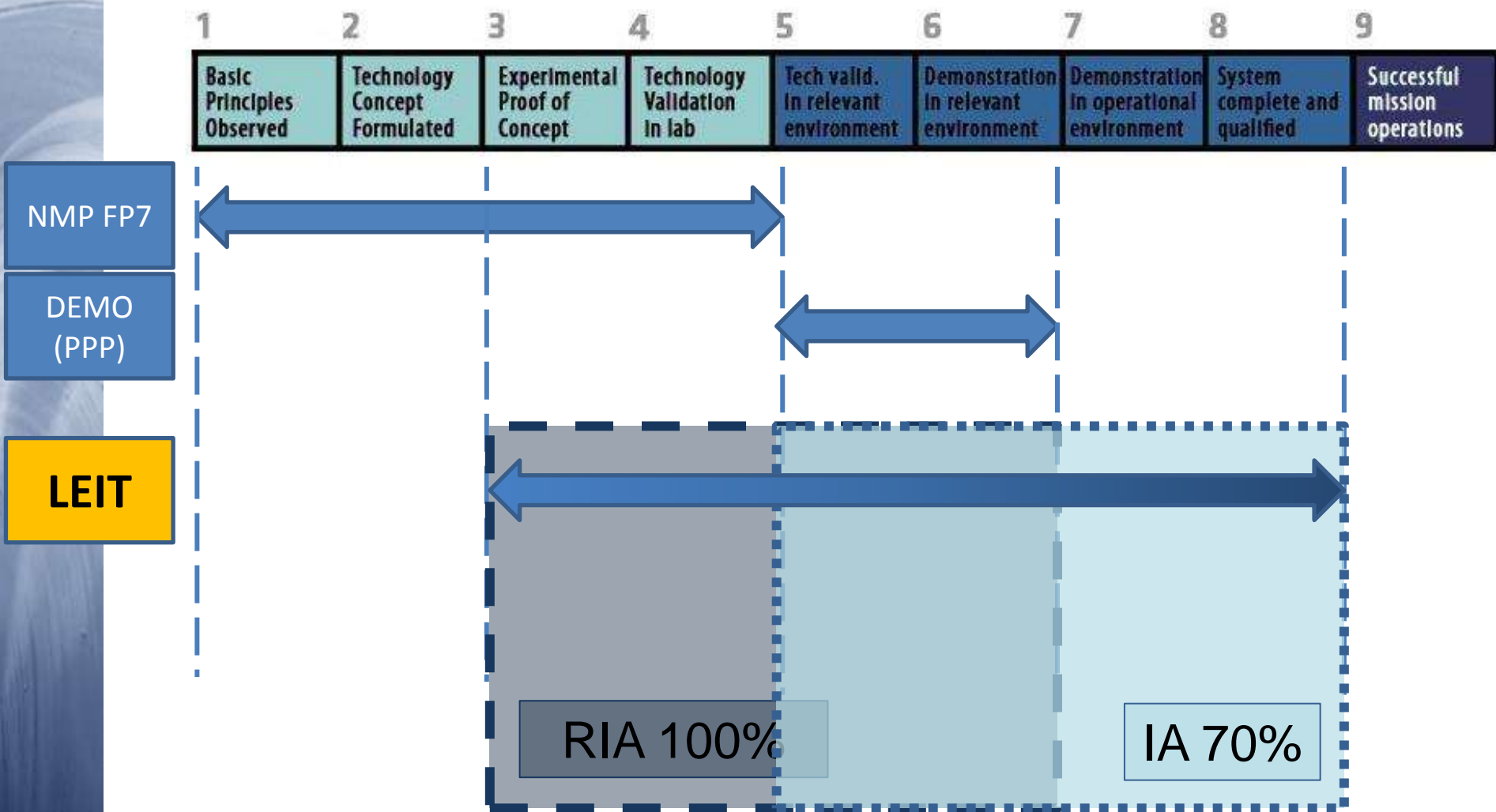
LEIT

Dónde está NMBP en el WP 2016-2017...

-  02. FET 2016-2017
-  03. MSCA 2016-2017
-  04. Infrastructures 2016-2017
-  05. LEIT Introduction 2016-2017
-  05i. LEIT-ICT 2016-2017
-  05ii. LEIT-NMBP 2016-2017
-  05iii. LEIT-Space 2016-2017
-  08. SC1-Health 2016-2017
-  09. SC2-Food 2016-2017
-  10. SC3-Energy 2016-2017
-  11. SC4-Transport 2016-2017
-  12. SC5-Climate Action 2016-2017
-  13. SC6-Inclusive Societies 2016-2017
-  14. SC7-Secure Societies 2016-2017
-  16. SWAFS 2016-2017
-  17. Cross-Cutting Activities 2016-2017

<https://ec.europa.eu/programmes/horizon2020/en/draft-work-programmes-2016-17>

NMBP corresponde a TRL medios-altos en H2020...



Objetivo

ENFOQUE EN TECNOLOGÍAS
MADURAS
No Investigación sin
aplicación Industrial
¡LLEGADA A MERCADO!

Superar el Valle de la Muerte

- **Topics más amplios.**
Más centrados en objetivos

- **Liderados por la industria.**

Comprometidos con la industrialización

- **Aplicación/Validación Industrial**

- Producción, Plantas piloto, Seguridad, Salud, Energía...

- **Más enfoque a la Innovación**

- Oportunidades de Negocio
 - Planes de Negocio
 - Planes de Explotación
 - Requerimientos/Validación usuarios
 - Estandarización

- **Relación con otras partes de H2020**

Convocatorias NMBP

**Energy-efficient
Buildings**

1F

**NM for high added value
products and process
industries**

2F

**KET for societal
challenges**

2F

Health,
Energy...

Biotechnology

2F

**Support Actions:
Modelling + Risk**

2F

Governance in NMBP

1F

CSA

Anexo 17 - CCA

**Industry 2020 in the
Circular Economy**

**PILOT - NM for industrial
value chains**

2F

Factories of the Future

1F

**Sustainable Process
Industry**

1F

Factories of the Future (FoF)

KETs to support EU manufacturing across a broad range of sectors. Greener, more customised and higher quality products through a demand-driven industry with less waste and a better use of resources.

Sustainable Process Industry (SPIRE)

Rejuvenation of the European industrial processes: more efficient use of resources and energy, high-tech and eco-efficient production facilities and materials, and minimising and re-using waste.

Energy-efficient Buildings (EeB)

High-tech building to turn the need for energy efficiency into an opportunity for sustainable business.

NM for high added value products and process industries

Enabling **integration** of materials, process industries, business models and links to PPPs in delivering innovative products **to markets** and customers.

KET for societal challenges

Health, Energy, Eco-Innovation, Transport...

Support Actions: Modelling + Risk

Modelling, characterisation, metrology and standardization activities. Risk Assessment of KETs

PILOT - NM for industrial value chains

Addressing the key European nano-enabled industrial value chains through integration of KETs for **using nanomaterials in production**

Cutting-edge biotechnologies as future innovation drivers

Assuring competitiveness of the EU Industry in the short and medium term: Synthetic Biology & Bioinformatics

Biotechnology-based industrial processes driving competitiveness and sustainability

Solving bottlenecks in BIOTEC processes: Enzymatic, Downstream... Chemical Industry and Chemistry-using sectors

Innovative and competitive platform technologies

Enabling biotechnology applications across economic sectors: genomics, meta-genomics...

Criterios de Evaluación

FASE 1

Excellence	(4/5)
Impact	(4/5)
TOTAL	(8/10)

FASE 2

Excellence	(4/5)
Impact	(4/5)
Implementation	(3/5)
TOTAL*	(12/15)

*** Peso nota Impacto x1.5!!!**

Horizon 2020: NMBP Calls in 2017

Deadlines:

FoF, EeB, SPIRE calls: **19/01/2017** (single stage)

ICT/NMBP for Health: **19/01/2017** (single stage)

NMBP call - CSAs: **19/01/2017** (single stage)

Pilots, NMBP call - others: **27/10/2016** (1st stage) / **04/05/2017** (2nd stage)

Biotechnology call: **27/10/2016** (1st stage) / **04/05/2017** (2nd stage)

SME Instrument: Open call with 4 cut-off for Phase 1 and 4 cut-off for Phase 2

This presentation is based on the WP
Always check legal documents

Research and
Innovation

Requisitos Especiales

Cooperación Internacional

Available local support for H2020 participants from non-EU countries (Brazil, Canada, China, India, Japan, Mexico, Russia, Republic of Korea, South Africa, USA (http://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/international-cooperation_en.htm#countries))

Sinergias con otros fondos

Synergies with other EU, national or regional programmes are encouraged: Some topics are particularly suitable for additional funding (e.g. to explore paths to commercial exploitation or to deploy H2020-funded technologies)

- Explorar vías de explotación comercial
- Desarrollar las tecnologías financiadas en H2020

Plan de Negocio

The integration of business development, time to market, and market understanding, together with the understanding and exploitation of customized and personalized products and services in the business-to-business context is necessary to meet innovation needs in the range TRL 5-7.

7. Business cases and exploitation strategies for industrialisation

The business case should demonstrate the expected impact of the proposal in terms of enhanced market opportunities and manufacturing capacities for European enterprises, and thus growth and jobs in Europe, in the short to medium term. It should describe the **targeted market, in terms of targeted sectors; estimated size in Europe and globally; user and customer needs;** and demonstrate that the solutions will **match the market and user needs in a cost-effective manner;** and describe the **expected market position and competitive advantage.**

Personas de contacto NMBP

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JTI BIOBASED INDUSTRIES – BBI, LIDERAZGO INDUSTRIAL

BBI's overall objectives

Developing sustainable and competitive bio-based industries in Europe, based on advanced biorefineries that source their biomass sustainably by:

- **Demonstrating new technologies** to fill the gap in value chains;
- **Developing business models** integrating all economic actors along the value chain
- **Set-up flagship biorefinery plants** deploying business models & technologies to keep investment in EU

Bio-based industries value chains in 3 segments

BBi value chains represent 3.2 million jobs and € 600bn turnover but are **extremely fragmented** between **actors** and across **geographical boundaries**

- Industrial side-streams
- Municipal waste
- Waste water
- Algae
- Wood side-streams from forestry
- Ligno-cellulosic & fiber crop
- Agriculture crops



- Biofuel
- Bioplastics
- Biopolymers
- Chemical building blocks
- Biosolvent
- Surfactants
- Biolubricants
- Coatings
- Textiles
- Pharmaceuticals
- Food & feed ingredients

Mission and implementation

- Mission: to implement a research and innovation programme: annually publication of the work plan and launch of a call for proposals
- Industry driven programme:
 - BIC developed the Strategic Innovation and Research Agenda (SIRA) → guiding document for BBI Annual Work Plans (AWP)
 - BIC drafts BBI JU AWP & Call for Proposals
→ together with BIC members
→ in consultations with Commission,
- Horizon 2020 rules for participation
 - Openness: call are open
 - Transparency: rules clear and know in advance
 - Excellence: quality of proposals

■ **77 FULL MEMBERS**

- 43 Large industries
- 20 SMEs
- 14 Clusters

BIC is a non-profit organisation created to represent the industry group that supports the BBI Initiative.

■ **137 ASSOCIATE MEMBERS**

- 45 Universities
- 70 RTOs
- 10 European trade organisations
- 7 Associations
- 3 European Technology Platforms (ETPs)
- 1 Public Institution
- 1 Bank

Sectors covered to date

- Agriculture
- Agro-food
- Forestry/ pulp and paper
- Technology providers
- Chemicals
- Energy

Benefits to join BIC www.biconsortium.eu

1. Defining the BBI annual Work Plan in the framework of SIRA: put forward ideas for projects
2. Early insights/information on which to base proposals meaning advantage in writing successful project proposals
3. Access to European financial instruments: better information about access to EU funding, loans and grants, like the European Investment Bank (EIB).
4. Connecting with potential project partners: platform for members to network with other key players and BIC partnering platform
5. Receiving discounts for major events
6. State updated: newsletter with last developments

Spanish BIC members

Full BIC members



Associated BIC members

RTOs: AICIA, Aimplas, AINIA, AITEX - Textile Research Institute, AITIIP, Aquaculture Technological Center of Andalusia (CT Aqua), ARCMED, Aula Dei, Bioplat, CENER, Cetenma, Ciemat, CIRCE, CNTA, CSIC, CTFC, **FEUGA**, IK4 Alliance, INBIOTEC, INIA, Innovhub SSI, Instituto Valenciano de Investigaciones Agrarias (IVIA), IRTA, ITENE, Leitat, Tecnalia,

Universities: UAB, Universidad de Alicante, Universidad del País Vasco, Universidad Politecnica de Madrid, University of Alcala (UAH), University of Almeria, University of Cadiz (UCA), University of León, University of Lleida, **University of Santiago de Compostela**, University of Valladolid, **University of Vigo**, University of Zaragoza, University Pablo de Olavide (Sevilla), UPVLC - Polytechnic University of Valencia

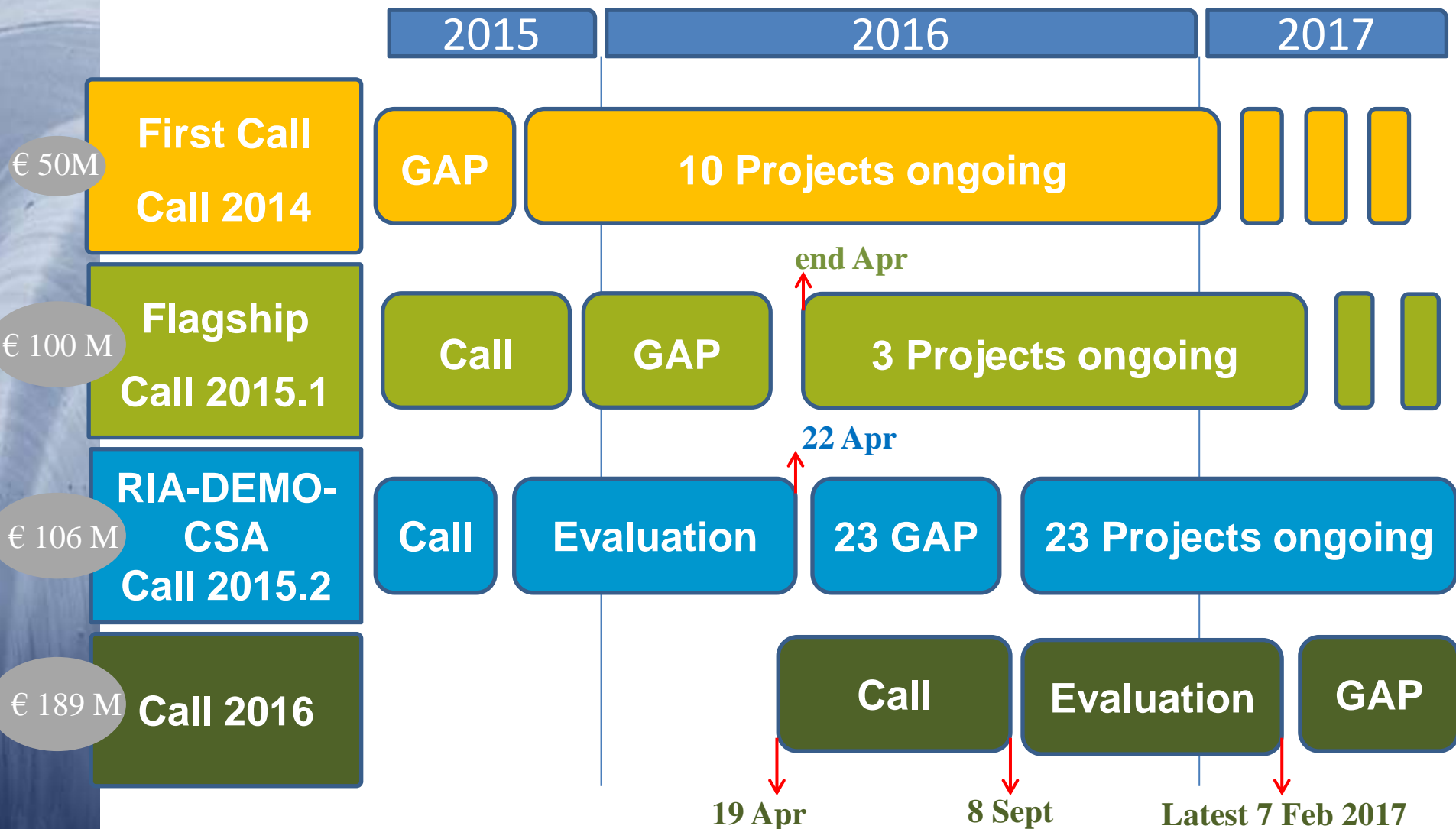
Technological Platforms and EU Associations



BBI JU – Programme Office

- ☐ Management of the calls (annual work plan)
(call publication, proposals evaluation & selection)
- ☐ Grant Agreement Preparation and Management
(GA signature, monitoring of contractual obligation)
- ☐ Promoting of BBI JU activities (communication and dissemination)

BBI Calls current status





Call 2016

Indicative Timetable

- ❑ **Call launch** → Open for proposals from 19 April 2016
- ❑ Submission of proposals → **Deadline: 8 September 2016**
- ❑ Information on the outcome of the evaluation process
→ Max 5 months after the proposal submission
deadline (By 08-Feb-2017)
- ❑ Signature of grant agreements → Max 8 months after
the proposal submission deadline (By 08-May-2017)



Strategic orientation – Call 2016

Cross-sectorial **integration**
along and across value chains



Sufficient and sustainable biomass **feedstock** supply at affordable price, incorporating the feedstock suppliers as partners in the value chains



Development of biorefinery **technologies and processes** to increase the competitive position of the bio-based industries in Europe



Higher **market demand** and customer awareness through the development of innovative products and applications in partnership with actors in the end consumer markets...

Types of Actions

RIA: Filling specific gaps in the value chain

Outcome: technology validated in **lab / pilot level**, TRL 4 - 5

IA: Covering a whole value chain

Outcome: delivery of a **new product, process or service**

☐ **Demonstration Actions**

Outcome: establishment of a **demo – scale** production facility in Europe (a new installation, modification/use of existing demo facilities), TRL 6-7

☐ **Flagship Actions**

Deployment of a technology, which has been already demonstrated

Outcome: **a first-of-a-kind** application, **large scale** production facility in Europe, TRL 8

Types of Actions

Action	Share of overall budget
RIA	30%
Demo	30%
Flagship	34,75%
CSA	3,25%

Action	TRL	Typical project duration	BBI JU funding %
IA-Flagship	8	4-5y	70%
IA-DEMO	6-7		
RIA	≤5	Up to 4y	100%
CSA	n/a	1-3y	

Rules for participation

= H2020



What is the consortium size?

- **RIA and IA:** at least 3 'legal entities' established in at least 3 different Member States and/or Associated Countries. The entities must be independent from each other
- **CSA:** can be carried by a single 'legal entity'
- Possibility of participants from **international organisations or third countries** (but some of them are not eligible for funding)

Participation & funding rates per action

Participant	RIA	IA	CSA
Large Industries	/	70%	/
SMEs	100%	70%	100%
Non profit, legal entities (Universities, RTOs, NGOs etc.)	100%	100%	100%

Last but not least...

Subscribe to the **BBI JU partnering platform**

<http://www.bbi-europe.eu/participate/bbi-partnering-platform>

Become **evaluator of the BBI calls**

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

Muchas gracias...

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