

# GUÍA RÁPIDA DE CONVOCATORIAS

## - PROGRAMA DE TRABAJO 2016-2017-



# HORIZON 2020

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**Horizonte 2020 (H2020)** é o **Programa Marco de Investigación e Innovación da Unión Europea para o período 2014-2020**. Conta cun orzamento total de 77.028 M€ para financiar iniciativas e proxectos de investigación, desenvolvemento tecnolóxico e innovación de claro valor engadido europeo.

O programa nace para apoiar a implementación da Estratexia “Europa 2020” e a iniciativa emblemática “Unión pola innovación”, contribuindo directamente a abordar os principais retos da sociedade, a crear e manter o liderazgo industrial en Europa, así como reforzar a excelencia da base científica, esencial para a sustentabilidade, prosperidade e benestar de Europa a longo prazo.

O Programa céntrase en tres Pilares:



- **Ciencia Excelente**, para reforzar a excelencia científica da unión a nivel mundial, principalmente mediante iniciativas de temática aberta e en xeral, en proxectos individuais.



- **Liderazgo industrial**, para acelerar o desenvolvemento das tecnoloxías, principalmente: Tecnoloxías da Información e Comunicación (TIC), nanotecnoloxía, materiais avanzados, biotecnoloxía, fabricación e transformación avanzadas e tecnoloxía espacial; para axudar ás PEME innovadoras europeas a converterse en empresas líderes no mundo e para facilitar a financiación de risco en actividades de investigación e innovación na súa chegada ao mercado.



- **Retos sociais**, para aportar unha resposta directa ás prioridades políticas e os retos identificados na estratexia Europa 2020, tales como a seguridade, a enerxía, o transporte, o cambio climático e o uso eficaz dos recursos, a saúde e o envellecemento, os métodos de produción respetuosos do medio ambiente e a xestión do territorio.

E se completa con:

- As accións do **Centro Común de investigación (JRC)**
- As accións do **Instituto Europeo de Innovación e Tecnoloxía (EIT)**
- Accións **transversais**



<b>HORIZONTE 2020</b>		<b>79.402</b>
<b>I. Prioridad «Ciencia excelente»</b>		<b>24.441</b>
1. El Consejo Europeo de Investigación (CEI)		13.095
2. Las Tecnologías Futuras y Emergentes (FET)		2.696
3. Las acciones Marie Curie		6.162
4. Las infraestructuras de investigación		2.488
<b>II. Prioridad «Liderazgo industrial»</b>		<b>17.016</b>
1. Liderazgo en tecnologías industriales y de capacitación:		13.557
1.1 Tecnologías de la información y la comunicación (TIC)		
1.2 Nanotecnologías, 1.3 Materiales avanzados y 1.5 Fabricación y transformación avanzadas		
1.4 Biotecnología		
1.6 Espacio		1.536
2. Acceso a la financiación de riesgo		2.842
3. Innovación en las PYME		616
<b>III. Prioridad «Retos sociales»</b>		<b>29.679</b>
1. Salud, cambio demográfico y bienestar		7.472
2. Seguridad alimentaria, agricultura sostenible, investigación marina y marítima y bioeconomía		3.851
3. Energía segura, limpia y eficiente		5.931
4. Transporte inteligente, ecológico e integrado		6.339
5. Acción por el clima, eficiencia de los recursos y materias primas		3.081
6. Sociedades inclusivas		1.309
7. Sociedades seguras		1.695
Ciencia por y con la sociedad		462
Ampliando la participación		816
Instituto Europeo de Innovación y Tecnología (EIT)		2.711
Acciones directas no nucleares del Centro Común de Investigación (JRC)		1.903
EURATOM (2014-2018)		2.374

\*Fonte: H2020 CDTi e documentos internos OIT.



O segundo **Programa de Trabajo Horizonte 2020 comprende os anos 2016-2017**, e utiliza como criterio para seleccionar as prioridades : maximizar o valor engadido da UE, anticipar as tendencias chave en investigación e innovación nas áreas de maior potencial, prover un forte potencial de impacto e mellorar o nivel industrial e a participación das PEME.

Así, o programa de traballo do H2020 para 2016-2017 consta de **20 partes** (incluíndo os Anexos Xerais e Diseminación, Explotación e Evaluación), nas que, segundo os pilares e as temáticas, descríbense os obxectivos xerais, as respectivas convocatorias, e os tópicos dentro de cada unha de elas. Cada tópico describe o reto específico, o alcance das actividades e o impacto esperado.

Para simplificar o traballo dos investigadores, **nesta guía rápida inclúense todas as convocatorias e tópicos vixentes publicados no Programa de Trabajo 2016-2017**, cós seus respectivos enlaces ó Portal do Participante da UE e os prazos de presentación de solicitudes. Non se inclúen as ERA-NET e JTI xa que seguen publicacións e estruturas diferentes.

## 2A. Convocatorias 2016

- Prioridad I. CIENCIA EXCELENTE .....	4
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## 2B. Convocatorias 2017

- Prioridad I. CIENCIA EXCELENTE .....	18
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## PRIORIDADE I: CIENCIA EXCELENTE

O obxectivo das accións contempladas neste pilar é reforzar e ampliar a excelencia da base científica da unión, así como consolidar o Espacio Europeo de Investigación para facer que o sistema de investigación e innovación da Unión resulte máis competitivo a escala mundial.

O pilar Ciencia Excelente consta de catro áreas u obxectivos específicos:

- I1. O Consello Europeo de Investigación** (European Research Council - ERC)
- I2. As Tecnoloxías Futuras e Emerxentes** (Future and Emerging Technologies -FET)
- I3. As accións Marie Skłodowska-Curie**
- I4. As Infraestructuras de investigación**

**I1. European Research Council (ERC):** Apoio ás persoas con talento e creativas así como aos seus equipos para levar a cabo investigación punteira de alta calidade.

EUROPEAN RESEARCH COUNCIL (ERC)	
GRANTS	PRAZO
- ERC Advanced Grant (ERC-2016-AdG)	01/09/2016
- Proof of Concept Grant (ERC-2016-PoC)	26/05/16 and 04/10/2016



**PRIORIDADE I: CIENCIA EXCELENTE**

**12. Tecnoloxías Futuras e Emerxentes (FET):** Financiamento para unha investigación colaborativa que abra novos e prometedores campos de investigación e innovación (tecnoloxías radicalmente novas).

<b>FUTURE AND EMERGING TECHNOLOGIES (FET)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Call - FET-Open – Novel ideas for radically new technologies</b>	
<b>FETOPEN-04-2016-2017:</b> FET Innovation Launchpad	<b>29/09/2016</b>
<b>Call - FET Proactive – High Performance Computing</b>	
<b>FETHPC-01-2016:</b> Co-design of HPC systems and applications	<b>27/09/2016</b>
<b>FETHPC-02-2017:</b> Transition to Exascale Computing	<b>26/09/2016</b>
<b>FETHPC-03-2017:</b> Exascale HPC ecosystem development	<b>26/09/2016</b>



**PRIORIDADE I: CIENCIA EXCELENTE**

**13. Accións Marie Curie:** Garantir o desenvolvemento óptimo e o uso dinámico do capital intelectual de Europa, co fin de xerar novas capacidades e innovación.

MARIE CURIE	
TOPICS	PRAZO
<b>Marie Skłodowska-Curie Individual Fellowships</b>	
<b>MSCA-IF-2016 (MSCA-IF-EF-CAR)</b>	<b>14/09/2016</b>
<b>MSCA-IF-2016 (MSCA-IF-EF-RI)</b>	<b>14/09/2016</b>
<b>MSCA-IF-2016 (MSCA-IF-EF-ST)</b>	<b>14/09/2016</b>
<b>MSCA-IF-2016 (MSCA-IF-EF-SE)</b>	<b>14/09/2016</b>
<b>MSCA-IF-2016 (MSCA-IF-GF)</b>	<b>14/09/2016</b>

**14. Infraestruturas de Investigación:** Dotar a Europa de infraestruturas de investigación de categoría mundial, accesibles a todos os investigadores de Europa e de fóra.

EUROPEAN RESEARCH INFRASTRUCTURES	
TOPICS	PRAZO
<b>Call - Development and long-term sustainability of new pan-European research infrastructures</b>	
<b>INFRADEV-02-2016:</b> Preparatory Phase and support to early phase of ESFRI projects	<b>22/06/2016</b>
<b>INFRADEV-04-2016:</b> European Open Science Cloud for Research	<b>22/06/2016</b>



**PRIORIDADE I: CIENCIA EXCELENTE**

EUROPEAN RESEARCH INFRASTRUCTURES	
TOPICS	PRAZO
Call - E-Infrastructures	
<b>EINFRA-21-2017 (PPI):</b> Platform-driven e-infrastructure innovation	<b>22/06/2016</b>
<b>EINFRA-22-2016:</b> User-driven e-infrastructure innovation	<b>22/06/2016</b>





## PRIORIDADE II: LIDERAZGO INDUSTRIAL

Ten por obxecto acelerar o desenvolvemento das tecnoloxías e innovacións que sirvan de base ás empresas do futuro e axudar ás PEME innovadoras europeas a converterse en empresas líderes no mundo. Neste piar atópase o obxectivo "**Liderazgo en tecnoloxías facilitadoras e industriais**", que consta das seguintes liñas temáticas:

**II1. Tecnoloxías da Información e a Comunicación:** esta temática plantexa liñas de actividade que abordan unha nova xeración de compoñentes e sistemas, sistemas empotrados e integración de sistemas intelixentes, sistemas e tecnoloxías de computación avanzada, infraestruturas, tecnoloxías e servizos para a internet do futuro, tecnoloxías para a xestión de contidos dixitais e creatividade, interfaces avanzadas e robots, microelectrónica, nanoelectrónica e fotónica.

INFORMATION and COMMUNICATION TECHNOLOGIES (ITC)	
TOPICS	PRAZO
<b>A new generation of components and systems</b>	
<b>ICT-04-2017:</b> Smart Anything Everywhere Initiative	<b>08/11/2016</b>
<b>Future internet</b>	
<b>ICT-07-2017:</b> 5G PPP Research and Validation of critical technologies and systems	<b>08/11/2016</b>
<b>ICT-08-2017:</b> 5G PPP Convergent Technologies	<b>08/11/2016</b>
<b>ICT-09-2017:</b> Networking research beyond 5G	<b>08/11/2016</b>
<b>Content</b>	
<b>ICT-19-2017:</b> Media and content convergence	<b>08/11/2016</b>



**PRIORIDADE II: LIDERAZGO INDUSTRIAL**

**II2. NMBP, nanotecnoloxía, materiais avanzados, biotecnoloxía, fabricación e transformación avanzadas:** desenvolvemento da próxima xeración de nanomateriais, nanodispositivos e nanosistemas, tecnoloxías de materiais transversais e de capacitación, biotecnoloxía como impulsora da innovación, procesos industriais biotecnolóxicos competitivos e sostibles, novas plataformas innovadoras, tecnoloxías para as fábricas do futuro, baixa emisión de carbono.

NANOTECHNOLOGIES, ADVANCED MATERIALS, BIOTECHNOLOGY AND PRODUCTION (NMBP)	
TOPICS	PRAZO
<b>Advanced Materials and nanotechnologies for High Added value Products and Process Industries</b>	
<b>NMBP-04-2017:</b> Architected /Advanced material concepts for intelligent bulk material structures	<b>27/10/2016(1st stage)</b>
<b>NMBP-05-2017:</b> Advanced materials and innovative design for improved functionality and aesthetics in high added value consumer goods	<b>27/10/2016(1st stage)</b>
<b>NMBP-06-2017:</b> Improved material durability in buildings and infrastructures, including offshore	<b>27/10/2016(1st stage)</b>
<b>NMBP-07-2017:</b> Systems of materials characterisation for model, product and process optimisation	<b>27/10/2016(1st stage)</b>



**PRIORIDADE II: LIDERAZGO INDUSTRIAL**

NANOTECHNOLOGIES, ADVANCED MATERIALS, BIOTECHNOLOGY AND PRODUCTION (NMBP)	
TOPICS	PRAZO
<b>Advanced Materials and nanotechnologies for Healthcare</b>	
<p><b>NMBP-12-2017:</b> Development of a reliable methodology for better risk management of engineered biomaterials in Advanced Therapy Medicinal Products and/or Medical Devices</p>	<p><b>27/10/2016(1st stage)</b></p>
<p><b>NMBP-14-2017:</b> Regulatory Science Framework for assessment of risk benefit ratio of Nanomedicines and Biomaterials</p>	<p><b>27/10/2016(1st stage)</b></p>
<p><b>NMBP-15-2017:</b> Nanotechnologies for imaging cellular transplants and regenerative processes in vivo</p>	<p><b>27/10/2016(1st stage)</b></p>
<b>Advanced Materials and nanotechnologies for Energy Application</b>	
<p><b>NMBP-19-2017:</b> Cost-effective materials for “power-to-chemical” technologies</p>	<p><b>27/10/2016(1st stage)</b></p>
<p><b>NMBP-20-2017:</b> High-performance materials for optimizing carbon dioxide capture</p>	<p><b>27/10/2016(1st stage)</b></p>



**PRIORIDADE II: LIDERAZGO INDUSTRIAL**

<b>NANOTECHNOLOGIES, ADVANCED MATERIALS, BIOTECHNOLOGY AND PRODUCTION (NMBP)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Eco-Design and New Sustainable Bussiness Models</b>	
<b>NMBP-22-2017:</b> Business models and industrial strategies supporting novel supply chains for innovative product-services	<b>27/10/2016(1st stage)</b>
<b>Modelling for the Development of Nanotechnologies and Advanced Materials</b>	
<b>NMBP-25-2017:</b> Next generation system integrating tangible and intangible materials model components to support innovation in industry	<b>27/10/2016(1st stage)</b>
<b>Science-Based Risk Assessment and Management of Nanotechnologies, Advanced Materials and Biotechnologies</b>	
<b>NMBP-28-2017:</b> Framework and strategies for nanomaterial characterisation, classification, grouping and read-across for risk analysis	<b>27/10/2016(1st stage)</b>
<b>NMBP-29-2017:</b> Advanced and realistic models and assays for nanomaterial hazard assessment	<b>27/10/2016(1st stage)</b>



**PRIORIDADE II: LIDERAZGO INDUSTRIAL**

<b>NANOTECHNOLOGIES, ADVANCED MATERIALS, BIOTECHNOLOGY AND PRODUCTION (NMBP)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Innovative and Responsible Governance of new and converging enabling Technologies</b>	
<b>NMBP-35-2017:</b> Innovative solutions for the conservation of 20th century cultural heritage	<b>27/10/2016(1st stage)</b>
<b>Biotechnology</b>	
<b>BIOTEC-05-2017:</b> Microbial platforms for CO2-reuse processes in the low-carbon economy	<b>27/10/2016(1st stage)</b>
<b>BIOTEC-06-2017:</b> Optimisation of biocatalysis and downstream processing for the sustainable production of high value-added platform chemicals	<b>27/10/2016(1st stage)</b>
<b>BIOTEC-07-2017:</b> New Plant Breeding Techniques (NPBT) in molecular farming: Multipurpose crops for industrial bioproducts	<b>27/10/2016(1st stage)</b>



## PRIORIDADE III: RETOS SOCIAIS

Este pilar de H2020 responde directamente ás prioridades políticas e retos sociais expostos na estratexia Europa 2020 e propón estimular a masa crítica de esforzos de investigación e innovación necesaria para alcanzar os obxectivos políticos da Unión Europea.

**RETO 1: Saúde, cambio demográfico e benestar.** Este reto ten como obxectivo principal a saúde ao longo da vida e o benestar de todos, uns sistemas sanitarios e asistenciais de alta calidade e economicamente sostibles e oportunidades para xerar novos postos de traballo e crecemento.

1. HEALTH, DEMOGRAPHIC CHANGE AND WELL-BEING	
TOPICS	PRAZO
<b>1.1 Understanding health, well-being and disease</b>	
<b>SC1-PM-02-2017:</b> New concepts in patient stratification	<b>04/10/2016 (1st Stage)</b>
<b>1.2. Preventing disease</b>	
<b>SC1-PM-07-2017:</b> Promoting mental health and well-being in the young	<b>04/10/2016 (1st Stage)</b>
<b>1.3 Treating and managing diseases</b>	
<b>SC1-PM-08-2017:</b> New therapies for rare diseases	<b>04/10/2016 (1st Stage)</b>
<b>SC1-PM-10-2017:</b> Comparing the effectiveness of existing healthcare interventions in the adult population	<b>04/10/2016 (1st Stage)</b>



**PRIORIDADE III: RETOS SOCIAIS**

**RETO 3: Enerxía segura, limpa e eficiente.** Ten como obxectivo a transición hacia un sistema enerxético fiable, sostible e competitivo, nun contexto de crecente escasez de recursos, aumento das necesidades de enerxía e cambio climático.

3. SECURE, CLEAN AND EFFICIENT ENERGY	
TOPICS	PRAZO
<b>Demonstrating innovative renewable energy technologies</b>	
<b>LCE-09-2016:</b> Increasing the competitiveness of the EU PV manufacturing industry	<b>08/09/2016</b>
<b>LCE-13-2016:</b> Solutions for reduced maintenance, increased reliability and extended life-time of off-shore wind turbines/farms	<b>08/09/2016</b>
<b>LCE-15-2016:</b> Scaling up in the ocean energy sector to arrays	<b>08/09/2016</b>
<b>LCE-19-2016-2017:</b> Demonstration of the most promising advanced biofuel pathways	<b>08/09/2016</b>
<b>LCE-20-2016-2017:</b> Enabling pre-commercial production of advanced aviation biofuel	<b>08/09/2016</b>
<b>Fostering international cooperation in the area of renewable energy</b>	
<b>LCE-22-2016:</b> International Cooperation with Brazil on advanced lignocellulosic biofuels	<b>08/09/2016</b>



## ACTIVIDADES TRANSVERSAIS

**INDUSTRIA 2020 NUNHA ECONOMÍA CIRCULAR:** impulsará o crecemento económico e a renovación das capacidades industriais de Europa nun mundo de recursos finitos. Demostrarase a viabilidade económica e ambiental do enfoque da economía circular, e ao mesmo tempo dar un forte empuxe á reindustrialización da UE.

CALL- INDUSTRY 2020 IN THE CIRCULAR ECONOMY	
TOPICS	PRAZO
<b>Pilots</b>	
<b>PILOTS-03-2017:</b> Pilot Lines for Manufacturing of Nanotextured surfaces with mechanically enhanced properties	<b>27/10/2016 (1st Stage)</b>
<b>PILOTS-04-2017:</b> Pilot Lines for 3D printed and/or injection moulded polymeric or ceramic microfluidic MEMS	<b>27/10/2016 (1st Stage)</b>
<b>PILOTS-05-2017:</b> Paper-based electronics	<b>27/10/2016 (1st Stage)</b>





## EUROATOM

O Programa de Investigación e Formación de Euratom complementa a Horizonte 2020 no campo da investigación e formación en materia nuclear. O seu obxectivo xeral é o de apoiar a investigación nuclear e actividades de formación con énfasis na mellora continua da protección da seguridade nuclear e a radiación, entre outros, contribuir ao benestar dos cidadáns da UE, ao participar no desenvolvemento dun sistema enerxético seguro e baixas Emisións de carbono a nivel europeo, tanto a curto como a longo prazo, ao tempo que abordará tamén outras aplicacións beneficiosas das radiacións ionizantes nos sectores médico e industrial.

CALL - EURATOM FISSION 2016-2017	
TOPICS	PRAZO
<b>A - Support Safe Operation of Nuclear Systems</b>	
<b>NFRP 1:</b> Continually improving safety and reliability of Generation II and III reactors	<b>05/10/2016</b>
<b>NFRP 2:</b> Research on safety of fast neutron Generation-IV reactors	<b>05/10/2016</b>
<b>NFRP 3:</b> Investigating the safety of closed nuclear fuel cycle options and fuel developments	<b>05/10/2016</b>
<b>NFRP 4:</b> Research on the safety of small modular reactors	<b>05/10/2016</b>
<b>NFRP 5:</b> Materials research for Generation-IV reactors	<b>05/10/2016</b>



**EUROATOM**

<b>CALL - EURATOM FISSION 2016-2017</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>D - Management of research reactor availability in Europe</b>	
<b>NFRP 10:</b> Support for the optimised use of European research reactors	<b>05/10/2016</b>
<b>NFRP 11:</b> Support for the EU security of supply of nuclear fuel for research reactors	<b>05/10/2016</b>
<b>E - Support the development of nuclear competences at EU level</b>	
<b>NFRP 12:</b> Support for careers in the nuclear field	<b>05/10/2016</b>
<b>F - Fission/fusion cross-cutting actions</b>	
<b>NFRP 13:</b> Fission/fusion cross-cutting research in the area of multi-scale materials modelling	<b>05/10/2016</b>
<b>NFRP 14:</b> Cross-cutting support to improved knowledge on tritium management in fission and fusion facilities	<b>05/10/2016</b>



## PRIORIDADE I: CIENCIA EXCELENTE

O obxectivo das accións contempladas neste pilar é reforzar e ampliar a excelencia da base científica da unión, así como a consolidar o Espacio Europeo de Investigación para facer que o sistema de investigación e innovación da Unión resulte mais competitivo a escala mundial.

O pilar Ciencia Excelente consta de catro áreas u obxectivos específicos:

- I1. O Consello Europeo de Investigación** (European Research Council - ERC)
- I2. As Tecnoloxías Futuras e Emerxentes** (Future and Emerging Technologies -FET)
- I3. As accións Marie Skłodowska-Curie**
- I4. As Infraestructuras de investigación**

**I2. Tecnoloxías Futuras e Emerxentes (FET):** Financiamento para unha investigación colaborativa que abra novos e prometedores campos de investigación e innovación (tecnoloxías radicalmente novas).

FUTURE AND EMERGING TECHNOLOGIES (FET)	
TOPICS	PRAZO
<b>Call - FET-Open – Novel ideas for radically new technologies</b>	
<b>FETOPEN-01-2016-2017:</b> FET-Open research and innovation actions	<b>17/01/2017, 27/09/2017</b>
<b>FETOPEN-03-2017:</b> FET-Open Coordination and Support Actions	<b>17/01/2017</b>
<b>FETOPEN-04-2016-2017:</b> FET Innovation Launchpad	<b>27/09/2017</b>
<b>Call - FET Proactive – Boosting emerging technologies</b>	
<b>FETPROACT-02-2017:</b> FET ERANET Cofund	<b>24/01/2017</b>



**PRIORIDADE I: CIENCIA EXCELENTE**

<b>FUTURE AND EMERGING TECHNOLOGIES (FET)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Call - FET Proactive – High Performance Computing</b>	
<b>FETHPC-02-2017:</b> Transition to Exascale Computing	<b>26/09/2017</b>
<b>FETHPC-03-2017:</b> Exascale HPC ecosystem development	<b>26/09/2017</b>

**13. Accións Marie Curie:** Garantir o desenvolvemento óptimo e o uso dinámico do capital intelectual de Europa, co fin de xerar novas capacidades e innovación.

<b>MARIE CURIE</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Marie Skłodowska-Curie Innovative Training Networks</b>	
<b>MSCA-ITN -2017(MSCA-ITN-ETN)</b>	<b>10/01/2017</b>
<b>MSCA-ITN-2017 (MSCA-ITN-EID)</b>	<b>10/01/2017</b>
<b>MSCA-ITN-2017 (MSCA-ITN-EJD)</b>	<b>10/01/2017</b>
<b>Marie Skłodowska-Curie Research and Innovation Staff Exchange</b>	
<b>MSCA-RISE 2017 (MSCA-RISE)</b>	<b>05/04/2017</b>



**PRIORIDADE I: CIENCIA EXCELENTE**

<b>MARIE CURIE</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Marie Skłodowska-Curie Individual Fellowships</b>	
<b>MSCA-IF-2017 (MSCA-IF-EF-CAR)</b>	<b>14/09/2017</b>
<b>MSCA-IF-2017 (MSCA-IF-EF-RI)</b>	<b>14/09/2017</b>
<b>MSCA-IF-2017 (MSCA-IF-EF-ST)</b>	<b>14/09/2017</b>
<b>MSCA-IF-2017 (MSCA-IF-EF-SE)</b>	<b>14/09/2017</b>
<b>MSCA-IF-2017 (MSCA-IF-GF)</b>	<b>14/09/2017</b>

**14. Infraestruturas de Investigación:** Dotar a Europa de infraestructuras de investigación de categoría mundial, accesibles a todos os investigadores de Europa e de fóra.

<b>EUROPEAN RESEARCH INFRASTRUCTURES</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Call - Development and long-term sustainability of new pan-European research infrastructures</b>	
<b>INFRADEV-01-2017:</b> Design Studies	<b>29/03/2017</b>
<b>Call - E-Infrastructures</b>	
<b>EINFRA-12-2017:</b> Data and Distributed Computing e-infrastruct. for Open Science	<b>29/03/2017</b>
<b>EINFRA-21-2017 (RIA):</b> Platform-driven e-infrastructure innovation	<b>29/03/2017</b>



**PRIORIDADE I: CIENCIA EXCELENTE**

<b>EUROPEAN RESEARCH INFRASTRUCTURES</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Call - Fostering the innovation potential of Research Infrastructures</b>	
<b>INFRAINNOV-01-2017:</b> Fostering co-innovation for future detection and imaging technologies	<b>29/03/2017</b>
<b>Call - Support to policy and international cooperation</b>	
<b>INFRASUPP-02-2017:</b> Policy and international cooperation measures for research infrastructures	<b>29/03/2017</b>



## PRIORIDADE II: LIDERAZGO INDUSTRIAL

Ten por obxecto acelerar o desenvolvemento das tecnoloxías e innovacións que sirvan de base ás empresas do futuro e axudar ás PEME innovadoras europeas a converterse en empresas líderes no mundo. Neste piar atópase o obxectivo "**Liderazgo en tecnoloxías facilitadoras e industriais**", que consta das seguintes liñas temáticas:

**I11.Tecnoloxías da Información e a Comunicación:** esta temática plantexa liñas de actividade que abordan unha nova xeración de compoñentes e sistemas, sistemas empotrados e integración de sistemas intelixentes, sistemas e tecnoloxías de computación avanzada, infraestruturas, tecnoloxías e servizos para a internet do futuro, tecnoloxías para a xestión de contidos dixitais e creatividade, interfaces avanzadas e robots, microelectrónica, nanoelectrónica e fotónica.

INFORMATION and COMMUNICATION TECHNOLOGIES (ITC)	
TOPICS	PRAZO
<b>Advanced Computing and Cloud Computing</b>	
<b>ICT-05-2017:</b> Customised and low energy computing	<b>25/04/2017</b>
<b>Future internet</b>	
<b>ICT-11-2017:</b> Collective Awareness Platforms for Sust. and Social Innovation	<b>25/04/2017</b>
<b>ICT Key Enabling Technologies</b>	
<b>ICT-30-2017:</b> Photonics KET 2017	<b>25/04/2017</b>
<b>ICT-31-2017:</b> Micro- and nanoelectronics technologies	<b>25/04/2017</b>



**PRIORIDADE II: LIDERAZGO INDUSTRIAL**

<b>INFORMATION and COMMUNICATION TECHNOLOGIES (ITC)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Content</b>	
<b>ICT-14-2016-2017:</b> Big Data PPP: cross-sectorial and cross-lingual data integration and experimentation	<b>25/04/2017</b>
<b>ICT-15-2016-2017:</b> Big Data PPP: Large Scale Pilot actions in sectors best benefitting from data-driven innovation	<b>25/04/2017</b>
<b>ICT-16-2017: Big data PPP:</b> research addressing main technology challenges of the data economy	<b>25/04/2017</b>
<b>ICT-17-2016-2017:</b> Big data PPP: Support, industrial skills, benchmarking and evaluation	<b>25/04/2017</b>
<b>ICT-20-2017:</b> Tools for smart digital content in the creative industries	<b>25/04/2017</b>
<b>ICT-23-2017:</b> Interfaces for accessibility	<b>25/04/2017</b>
<b>Call - EU-Brazil Joint Call</b>	
<b>EUB-01-2017:</b> Cloud Computing	<b>14/03/2017</b>
<b>EUB-02-2017:</b> IoT Pilots	<b>14/03/2017</b>





**PRIORIDADE II: LIDERAZGO INDUSTRIAL**

<b>INFORMATION and COMMUNICATION TECHNOLOGIES (ITC)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Robotics and Autonomous Systems</b>	
<b>ICT-25-2016-2017:</b> Advanced robot capabilities research and take-up	<b>25/04/2017</b>
<b>ICT-27-2017:</b> System abilities, SME & benchmarking actions, safety certification	<b>25/04/2017</b>
<b>ICT-28-2017:</b> Robotics Competition, coordination and support	<b>25/04/2017</b>
<b>Innovation and Entrepreneurship support</b>	
<b>ICT-32-2017:</b> Startup Europe for Growth and Innovation Radar	<b>25/04/2017</b>
<b>International Cooperation Activities</b>	
<b>ICT-39-2016-2017:</b> International partnership building in low and middle income countries	<b>25/04/2017</b>



**PRIORIDADE II: LIDERAZGO INDUSTRIAL**

**I2. NMBP, nanotecnoloxía, materiais avanzados, biotecnoloxía, fabricación e transformación avanzadas:** desenvolvemento da próxima xeración de nanomateriais, nanodispositivos e nanosistemas, tecnoloxías de materiais transversais e de capacitación, biotecnoloxía como impulsora da innovación, procesos industriais biotecnolóxicos competitivos e sostibles, novas plataformas innovadoras, tecnoloxías para as fábricas do futuro, baixa emisión de carbono.

NANOTECHNOLOGIES, ADVANCED MATERIALS, BIOTECHNOLOGY AND PRODUCTION (NMBP)	
TOPICS	PRAZO
<b>Call for Energy-Efficient Buildings</b>	
<b>EEB-05-2017:</b> Development of near zero energy building renovation	<b>19/01/2017</b>
<b>EEB-06-2017:</b> Highly efficient hybrid storage solutions for power and heat in residential buildings and district areas, balancing the supply and demand conditions	<b>19/01/2017</b>
<b>EEB-07-2017:</b> Integration of energy harvesting at building and district level	<b>19/01/2017</b>
<b>EEB-08-2017:</b> New business models for energy-efficient buildings through adaptable refurbishment solutions	<b>19/01/2017</b>
<b>Biotechnology</b>	
<b>BIOTEC-08-2017:</b> Support for enhancing and demonstrating the impact of KET Biotechnology projects	<b>19/01/2017</b>



**PRIORIDADE II: LIDERAZGO INDUSTRIAL**

NANOTECHNOLOGIES, ADVANCED MATERIALS, BIOTECHNOLOGY AND PRODUCTION (NMBP)	
TOPICS	PRAZO
<b>Advanced Materials and Nanotechnologies for Healthcare</b>	
<b>NMBP-13-2017:</b> Cross-cutting KETs for diagnostics at the point-of-care	<b>19/01/2017</b>
<b>NMBP-16-2017:</b> Mobilising the European nano-biomedical ecosystem	<b>19/01/2017</b>

**II3. 3. Liña temática Espazo:** O obxectivo é o de fomentar unha industria espacial (incluyendo ás PYMe) e unha comunidade investigadora competitivas e innovadoras para desenvolver e explotar a infraestruturas espacial que permita abordar as políticas da Unión e as necesidades da sociedade.

SPACE	
TOPICS	PRAZO
<b>Call - Earth Observation</b>	
<b>EO-1-2017:</b> Downstream applications	<b>01/03/2017</b>
<b>EO-2-2017:</b> EO Big Data Shift	<b>01/03/2017</b>



**PRIORIDADE II: LIDERAZGO INDUSTRIAL**

SPACE	
TOPICS	PRAZO
<b>Call - Applications in Satellite Navigation – Galileo – 2017</b>	
<b>GALILEO-1-2017:</b> EGNSS Transport applications	<b>01/03/2017</b>
<b>GALILEO-2-2017:</b> EGNSS mass market applications	<b>01/03/2017</b>
<b>GALILEO-3-2017:</b> EGNSS professional applications	<b>01/03/2017</b>
<b>GALILEO-4-2017:</b> EGNSS awareness raising and capacity building	<b>01/03/2017</b>
<b>Call - Competitiveness of the European Space Sector: Technology and Science</b>	
<b>COMPET-1-2017:</b> Technologies for European non-dependence and competitiveness	<b>01/03/2017</b>
<b>COMPET-2-2017:</b> Competitiveness in Earth observation mission technologies	<b>01/03/2017</b>
<b>COMPET-3-2017:</b> High speed data chain	<b>01/03/2017</b>
<b>COMPET-4-2017:</b> Scientific data exploitation	<b>01/03/2017</b>
<b>COMPET-5-2017:</b> Space Weather	<b>01/03/2017</b>
<b>COMPET-6-2017:</b> Space portal	<b>01/03/2017</b>
<b>COMPET-7-2017:</b> Technology transfer and business generators	<b>01/03/2017</b>



## PRIORIDADE III: RETOS SOCIAIS

Este pilar de H2020 responde directamente ás prioridades políticas e retos sociais expostos na estratexia Europa 2020 e propón estimular a masa crítica de esforzos de investigación e innovación necesaria para alcanzar os obxectivos políticos da Unión Europea.

**RETO 1: Saúde, cambio demográfico e benestar.** Este reto ten como obxectivo principal a saúde ao longo da vida e o benestar de todos, uns sistemas sanitarios e asistenciais de alta calidade e economicamente sostibles e oportunidades para xerar novos postos de traballo e crecemento.

1. HEALTH, DEMOGRAPHIC CHANGE AND WELL-BEING	
TOPICS	PRAZO
<b>1.1 Understanding health, well-being and disease</b>	
<b>SC1-PM-03–2017:</b> Diagnostic characterisation of rare diseases	<b>11/04/2017</b>
<b>1.4 Active ageing and self-management of health</b>	
<b>SC1-PM-15-2017:</b> Personalised coaching for well-being and care of people as they age	<b>31/01/2017</b>
<b>1.5 Methods and data</b>	
<b>SC1-PM-16–2017:</b> In-silico trials for developing and assessing biomedical products	<b>14/03/2017</b>
<b>SC1-PM-17–2017:</b> Personalised computer models and in-silico systems for well-being	<b>14/03/2017</b>
<b>SC1-PM-20-2017:</b> Development of new methods and measures for improved economic evaluation and efficiency measures in the health sector	<b>11/04/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

**RETO 2: Seguridade alimentaria, agricultura e silvicultura sostibles, investigación mariña, marítima e de augas interiores e bioeconomía.** O obxectivo é garantir un abastecemento suficiente de alimentos seguros, asudables e de gran calidade e outros bioprodutos, mediante o desenvolvemento de sistemas de produción primaria que sexan produtivos, sostibles e eficientes en recursos, o fomento dos correspondentes servizos ecosistémicos e a recuperación da diversidade biolóxica, xunto a cadeas de suministro, de transformación e comercialización competitivas e de baixa emisión de carbono. Deste modo acelerarase a transición hacia unha bioeconomía europea sostible, estrechando a brecha entre as novas tecnoloxías e a súa implementación.

<b>2. FOOD SECURITY, SUSTAINABLE AGRICULTURE AND FORESTRY, MARINE AND MARITIME AND INLAND WATER RESEARCH AND THE BIOECONOMY (Food Security)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>More resilient and resource efficient value chains</b>	
<b>SFS-08-2017:</b> Organic inputs – contentious inputs in organic farming	<b>14/02/2017 (1st stage)</b>
<b>SFS-10-2017:</b> Research and approaches for emerging diseases in plants and terrestrial livestock	<b>14/02/2017 (1st stage)</b>
<b>SFS-13-2017:</b> Validation of diagnostic tools for animal and plant health	<b>14/02/2017</b>
<b>SFS-15-2016-2017:</b> Breeding livestock for resilience and efficiency	<b>14/02/2017 (1st stage)</b>
<b>SFS-16-2017:</b> Bee health and sustainable pollination	<b>14/02/2017 (1st stage)</b>
<b>SFS-17-2017:</b> Innovations in plant protection	<b>14/02/2017 (1st stage)</b>



**PRIORIDADE III: RETOS SOCIAIS**

<b>2. FOOD SECURITY, SUSTAINABLE AGRICULTURE AND FORESTRY, MARINE AND MARITIME AND INLAND WATER RESEARCH AND THE BIOECONOMY (Food Security)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>More resilient and resource efficient value chains</b>	
<b>SFS-20-2017:</b> Towards a science-based regionalisation of the Common Fisheries Policy	<b>14/02/2017 (1st stage)</b>
<b>SFS-21-2016/2017:</b> Advancing basic biological knowledge and improving management tools for commercially important fish and other seafood species	<b>14/02/2017 (1st stage)</b>
<b>SFS-22-2017:</b> Smart fisheries technologies for an efficient, compliant and environmentally friendly fishing sector	<b>14/02/2017</b>
<b>Environment-smart and climate-smart primary production</b>	
<b>SFS-27-2017:</b> Permanent grassland – farming systems and policies	<b>14/02/2017 (1st stage)</b>
<b>SFS-28-2017:</b> Functional biodiversity – productivity gains through functional biodiversity: effective interplay of crop pollinators and pest predators	<b>14/02/2017 (1st stage)</b>
<b>SFS-29-2017:</b> Socio-eco-economics – socio-economics in ecological approaches	<b>14/02/2017 (1st stage)</b>



**PRIORIDADE III: RETOS SOCIAIS**

<b>2. FOOD SECURITY, SUSTAINABLE AGRICULTURE AND FORESTRY, MARINE AND MARITIME AND INLAND WATER RESEARCH AND THE BIOECONOMY (Food Security)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Environment-smart and climate-smart primary production</b>	
<p><b>SFS-30-2017:</b> Closing loops at farm and regional levels to mitigate GHG emissions and environmental contamination - focus on carbon, nitrogen and phosphorus cycling in agro-ecosystems</p>	<b>14/02/2017 (1st stage)</b>
<p><b>SFS-32-2017:</b> Promoting and supporting the eco-intensif. of aquaculture production systems: inland (including fresh water), coastal zone, and offshore</p>	<b>14/02/2017 (1st stage)</b>
<b>Healthy and safe foods and diets for all</b>	
<p><b>SFS-36-2017:</b> Co-fund on "One Health" (zoonoses-emerging threats)</p>	<b>14/02/2017</b>
<p><b>SFS-39-2017:</b> How to tackle the childhood obesity epidemic?</p>	<b>14/02/2017 (1st stage)</b>
<p><b>SFS-40-2017:</b> Sweeteners and sweetness enhancers</p>	<b>14/02/2017 (1st stage)</b>
<b>Support to the Implementation of the EU-Africa Partnership on Food and Nutrition Security and Sustainable Agriculture</b>	
<p><b>SFS-43-2017:</b> Earth observation services for the monitoring of agricultural production in Africa</p>	<b>14/02/2017</b>





**PRIORIDADE III: RETOS SOCIAIS**

<b>2. FOOD SECURITY, SUSTAINABLE AGRICULTURE AND FORESTRY, MARINE AND MARITIME AND INLAND WATER RESEARCH AND THE BIOECONOMY (Food Security, Blue Growth)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Implementation of the EU-China FAB Flagship initiative</b>	
<b>SFS-46-2017:</b> Alternative production system to address anti-microbial drug usage, animal welfare and the impact on health	<b>14/02/2017 (1st stage)</b>
<b>SFS-47-2017:</b> Management of soil water resources in the EU and China and its impact on agro-ecosystem functions	<b>14/02/2017 (1st stage)</b>
<b>SFS-48-2017:</b> Resource-efficient urban agriculture for multiple benefits – contribution to the EU-China Urbanisation Partnership	<b>14/02/2017</b>
<b>A competitive food industry</b>	
<b>SFS-34-2017:</b> Innovative agri-food chains: unlocking the potential for competitiveness and sustainability	<b>14/02/2017 (1st stage)</b>
<b>SFS-35-2017:</b> Innovative solutions for sustainable food packaging	<b>14/02/2017</b>
<b>Boosting Innovation for emerging Blue Growth activities</b>	
<b>BG-02-2016/2017:</b> More efficient servicing of emerging coastal and offshore activities	<b>14/02/2017</b>
<b>BG-04-2017:</b> Multi-use of the oceans marine space, offshore and near-shore: Enabling technologies	<b>14/02/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

<b>2. FOOD SECURITY, SUSTAINABLE AGRICULTURE AND FORESTRY, MARINE AND MARITIME AND INLAND WATER RESEARCH AND THE BIOECONOMY (Blue Growth, Rural Renaissance)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Linking healthy oceans and seas with healthy people</b>	
<b>BG-06-2017:</b> Interaction between people, oceans and seas: approach towards healthcare and well-being	<b>14/02/2017</b>
<b>BG-07-2017:</b> Blue green innovation for clean coasts and seas	<b>14/02/2017</b>
<b>BG-08-2017:</b> Innovative sustainable solutions for improving the safety and dietary properties of seafood	<b>14/02/2017</b>
<b>The Arctic Dimension</b>	
<b>BG-11-2017:</b> The effect of climate change on Arctic permafrost and its socio-economic impact, with a focus on coastal areas	<b>14/02/2017</b>
<b>New approaches towards policies and governance (Rural Renaissance)</b>	
<b>RUR-02-2017:</b> Coastal-rural interactions: synergies between land and sea-based activities	<b>14/02/2017 (1st stage)</b>
<b>RUR-03-2017:</b> Towards 2030-policies for an integrated management of natural resources	<b>14/02/2017 (1st stage)</b>
<b>RUR-05-2017:</b> Novel public policies, business models and mechanisms for the sustainable supply of and payment for forest ecosystem services	<b>14/02/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

<b>2. FOOD SECURITY, SUSTAINABLE AGRICULTURE AND FORESTRY, MARINE AND MARITIME AND INLAND WATER RESEARCH AND THE BIOECONOMY (Rural Renaissance)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Innovation and skill development</b>	
<b>RUR-10-2016-2017:</b> Thematic Networks compiling knowledge ready for practice	<b>14/02/2017</b>
<b>RUR-12-2017:</b> Networking European farms to boost thematic knowledge exchanges and close the innovation gap	<b>14/02/2017</b>
<b>RUR-13-2017:</b> Building a future science and education system fit to deliver to practice	<b>14/02/2017 (1st Stage)</b>
<b>RUR-15-2017:</b> The benefits of working with others - fostering social capital in the farming sector	<b>14/02/2017</b>
<b>RUR-16-2017:</b> Optimising interactive innovation project approaches and the delivery of EU policies to speed up innovation in rural areas	<b>14/02/2017 (1st Stage)</b>
<b>New value chains and business models</b>	
<b>RUR-09-2017:</b> Business models for modern rural economies	<b>14/02/2017 (1st stage)</b>



**PRIORIDADE III: RETOS SOCIAIS**

<b>2. FOOD SECURITY, SUSTAINABLE AGRICULTURE AND FORESTRY, MARINE AND MARITIME AND INLAND WATER RESEARCH AND THE BIOECONOMY (Bio-Based Innovation)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Securing sustainable biomass supply for bio-based goods and services</b>	
<b>BB-02-2017:</b> Towards a method for the collection of statistical data on bio-based industries and bio-based products	<b>14/02/2017 (1st Stage)</b>
<b>BB-03-2017:</b> Adaptive tree breeding strategies and tools for forest production systems resilient to climate change and natural disturbances	<b>14/02/2017 (1st Stage)</b>
<b>Building the "bio-based markets of the future"- mobilising stakeholders engagement</b>	
<b>BB-05-2017:</b> Bio-based products: Mobilisation and mutual learning action plan	<b>14/02/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

**RETO 3: Enerxía segura, limpa e eficiente.** Ten como obxectivo a transición hacia un sistema enerxético fiable, sostible e competitivo, nun contexto de crecente escasez de recursos, aumento das necesidades de enerxía e cambio climático.

<b>3. SECURE, CLEAN AND EFFICIENT ENERGY (Energy Efficiency)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>1. Heating and cooling</b>	
<b>EE-01-2017:</b> Waste heat recovery from urban facilities and re-use to increase energy efficiency of district or individual heating and cooling systems	<b>19/01/2017</b>
<b>EE-02-2017:</b> Improving the performance of inefficient district heating networks	<b>07/06/2017</b>
<b>EE-04-2016-2017:</b> New heating and cooling solutions using low grade sources of thermal energy	<b>19/01/2017</b>
<b>2. Engaging consumers towards sustainable energy</b>	
<b>EE-06-2016-2017:</b> Engaging private consumers towards sustainable energy	<b>07/06/2017</b>
<b>EE-07-2016-2017:</b> Behavioural change toward energy efficiency through ICT	<b>19/01/2017</b>
<b>EE-09-2016-2017:</b> Engaging and activating public authorities	<b>07/06/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

<b>3. SECURE, CLEAN AND EFFICIENT ENERGY (Energy Efficiency)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>3. Buildings</b>	
<b>EE-11-2016-2017:</b> Overcoming market barriers and promoting deep renovation of buildings	<b>07/06/2017</b>
<b>EE-12-2017:</b> Integration of Demand Response in Energy Management Systems while ensuring interoperability through Public Private Partnership (EeB PPP)	<b>19/01/2017</b>
<b>EE-14-2016-2017:</b> Construction skills	<b>07/06/2017</b>
<b>4. Industry, services and products</b>	
<b>EE-15-2017:</b> Increasing capacities for actual implementation of energy efficiency measures in industry and services	<b>07/06/2017</b>
<b>EE-16-2016-2017:</b> Effective implementation of EU product efficiency legislation	<b>07/06/2017</b>
<b>EE-17-2016-2017:</b> Valorisation of waste heat in industrial systems (SPIRE PPP)	<b>19/01/2017</b>
<b>EE-18-2017:</b> Energy efficiency of industrial parks through energy cooperation and mutualised energy services	<b>07/06/2017</b>
<b>EE-20-2017:</b> Bringing to market more energy efficient and integrated data centres	<b>19/01/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

**3. SECURE, CLEAN AND EFFICIENT ENERGY (C. Low-Carbon Energy)**

TOPICS	PRAZO
<b>1. Towards an integrated EU energy system</b>	
<p><b>LCE-01-2016-2017:</b> Next generation innovative technologies enabling smart grids, storage and energy system integration with increasing share of renewables: distribution network</p>	<b>14/02/2017</b>
<p><b>LCE-04-2017:</b> Demonstration of smart transmission grid, storage and system integration technologies with increasing share of renewables</p>	<b>14/02/2017</b>
<p><b>LCE-05-2017:</b> Tools and technologies for coordination and integration of the European energy system</p>	<b>14/02/2017</b>
<b>2. Renewable energy technologies</b>	
<p><b>LCE-06-2017:</b> New knowledge and technologies</p>	<b>05/01/2017</b>
<p><b>LCE-07-2016-2017:</b> Developing the next generation technologies of renewable electricity and heating/cooling</p>	<b>05/01/2017</b>
<p><b>LCE-08-2016-2017:</b> Development of next generation biofuel technologies</p>	<b>05/01/2017</b>
<p><b>LCE-10-2017:</b> Reducing the cost of PV electricity</p>	<b>07/09/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

**3. SECURE, CLEAN AND EFFICIENT ENERGY (C. Low-Carbon Energy)**

TOPICS	PRAZO
<b>2. Renewable energy technologies</b>	
<b>LCE-11-2017:</b> Near-to-market solutions for reducing the water consumption of CSP Plants	<b>07/09/2017</b>
<b>LCE-12-2017:</b> Near-to-market solutions for the use of solar heat in industrial processes	<b>07/09/2017</b>
<b>LCE-14-2017:</b> Demonstration of large >10MW wind turbine	<b>07/09/2017</b>
<b>LCE-16-2017:</b> 2nd Generation of design tools for ocean energy devices and arrays development and deployment	<b>07/09/2017</b>
<b>LCE-17-2017:</b> Easier to install and more efficient geothermal systems for retrofitting buildings	<b>07/09/2017</b>
<b>LCE-18-2017:</b> EGS in different geological conditions	<b>07/09/2017</b>
<b>LCE-19-2016-2017:</b> Demonstration of the most promising advanced biofuel pathways	<b>07/09/2017</b>
<b>LCE-20-2016-2017:</b> Enabling pre-commercial production of advanced aviation biofuel	<b>07/09/2017</b>
<b>LCE-21-2017:</b> Market uptake of renewable energy technologies	<b>14/02/2017</b>





**PRIORIDADE III: RETOS SOCIAIS**

**3. SECURE, CLEAN AND EFFICIENT ENERGY (C. Low-Carbon Energy)**

TOPICS	PRAZO
<b>3. Enabling the decarbonisation of the use of fossil fuels during the transition to a low-carbon economy</b>	
<p><b>LCE-27-2017:</b> Measuring, monitoring and controlling the risks of CCS, EGS and unconventional hydrocarbons in the subsurface</p>	<p><b>05/01/2017</b></p>
<p><b>LCE-28-2017:</b> Highly flexible and efficient fossil fuel power plants</p>	<p><b>05/01/2017</b></p>
<p><b>LCE-29-2017:</b> CCS in industry, including Bio-CCS</p>	<p><b>05/01/2017</b></p>
<p><b>LCE-30-2017:</b> Geological storage pilots</p>	<p><b>05/01/2017</b></p>
<p><b>LCE-31-2016-2017:</b> Social Sciences and Humanities Support for the Energy Union</p>	<p><b>05/01/2017</b></p>



**PRIORIDADE III: RETOS SOCIAIS**

**RETO 4: Transporte intelixente, ecolóxico e integrado.** Ten como obxectivo alcanzar un sistema europeo de transporte que sexa eficiente desde o punto de vista dos recursos, respetuoso co clima e o medio ambiente, seguro e sin interrupcións e que contribúa ao beneficio de todos os cidadáns, da economía e da sociedade, mantendo e promovendo á vez a competitividade da industria europea do transporte.

**4. SMART, GREEN AND INTEGRATED TRANSPORT (Mob. for Growth)**

TOPICS	PRAZO
<b>1. Aviation</b>	
<b>MG-1.2-2017:</b> Reducing aviation noise	<b>26/01/2017 (1st stage)</b>
<b>MG-1.3-2017:</b> Maintaining industrial leadership in aeronautics	<b>26/01/2017 (1st stage)</b>
<b>MG-1.4-2016-2017:</b> Breakthrough innovation	<b>26/01/2017 (1st stage)</b>
<b>MG-1.5-2016-2017:</b> Identification of gaps, barriers and needs in the aviation research	<b>01/02/2017</b>
<b>2. Waterborne</b>	
<b>MG-2.1-2017:</b> Innovations for energy efficiency and emission control in waterborne transport	<b>26/01/2017 (1st stage)</b>
<b>MG-2.4-2017:</b> Complex and value-added specialised vessels	<b>26/01/2017 (1st stage)</b>
<b>3. Safety</b>	
<b>MG-3.2-2017:</b> Protection of all road users in crashes	<b>26/01/2017 (1st stage)</b>



**PRIORIDADE III: RETOS SOCIAIS**

**4. SMART, GREEN AND INTEGRATED TRANSPORT (Mob. for Growth)**

TOPICS	PRAZO
<b>4. Urban Mobility</b>	
<b>MG-4.1-2017:</b> Increasing the take up and scale-up of innovative solutions to achieve sustainable mobility in urban areas	<b>26/01/2017 (1st stage)</b>
<b>MG-4.2-2017:</b> Supporting 'smart electric mobility' in cities	<b>26/01/2017 (1st stage)</b>
<b>MG-4.3-2017:</b> Innovative approaches for integrating urban nodes in the TEN-T core network corridors	<b>01/02/2017</b>
<b>5. Logistics</b>	
<b>MG-5.2-2017:</b> Innovative ICT solutions for future logistics operations	<b>26/01/2017 (1st stage)</b>
<b>MG-5.4-2017:</b> Potential of the Physical Internet	<b>26/01/2017 (1st stage)</b>
<b>7. Infraestructure</b>	
<b>MG-7.1-2017:</b> Resilience to extreme (natural and man-made) events	<b>26/01/2017 (1st stage)</b>
<b>MG-7.2-2017:</b> Optimisation of transport infrastructure including terminals	<b>26/01/2017 (1st stage)</b>
<b>MG-7.3-2017:</b> The Port of the future	<b>26/01/2017 (1st stage)</b>



**PRIORIDADE III: RETOS SOCIAIS**

<b>4. SMART, GREEN AND INTEGRATED TRANSPORT</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>8. Socio-Economic and Behavioural Research and Forward Looking Activities for Policy Making</b>	
<b>MG-8.2-2017:</b> Big data in Transport: Research opportunities, challenges and limitations	<b>01/02/2017</b>
<b>MG-8.4-2017:</b> Improving accessibility, inclusive mobility and equity: new tools and business models for public transport in prioritised areas	<b>01/02/2017</b>
<b>MG-8.5-2017:</b> Shifting paradigms: Exploring the dynamics of individual preferences, behaviours and lifestyles influencing travel and mobility choices	<b>01/02/2017</b>
<b>Call - 2016-2017 Automatic Road Transport</b>	
<b>ART-01-2017:</b> ICT infrastructure to enable the transition towards road transport automation	<b>26/01/2017 (1st stage)</b>
<b>ART-03-2017:</b> Multi-Brand platooning in real traffic conditions	<b>26/01/2017 (1st stage)</b>
<b>ART-07-2017:</b> Full-scale demonstration of urban road transport automation	<b>26/01/2017 (1st stage)</b>
<b>Call - 2016-2017 Green Vehicles</b>	
<b>GV-01-2017:</b> Optimisation of heavy duty vehicles for alternative fuels use	<b>01/02/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

<b>4. SMART, GREEN AND INTEGRATED TRANSPORT</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Call - 2016-2017 Green Vehicles</b>	
<b>GV-04-2017:</b> Next generation electric drivetrains for fully electric vehicles, focusing on high efficiency and low cost	<b>01/02/2017</b>
<b>GV-05-2017:</b> Electric vehicle user-centric design for optimised energy efficiency	<b>01/02/2017</b>
<b>GV-06-2017:</b> Physical integration of hybrid and electric vehicle batteries at pack level aiming at increased energy density and efficiency	<b>01/02/2017</b>
<b>GV-07-2017:</b> Multi-level modelling and testing of electric vehicles and their components	<b>01/02/2017</b>
<b>GV-08-2017:</b> Electrified urban commercial vehicles integration with fast charging infrastructure	<b>01/02/2017</b>
<b>GV-09-2017:</b> Aerodynamic and flexible trucks	<b>01/02/2017</b>
<b>GV-10-2017:</b> Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system	<b>01/02/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

**RETO 5: Acción polo clima, eficiencia dos recursos e materias primas.** O obxectivo é lograr unha economía máis eficaz no uso de recursos e resistente ao cambio climático, así como un abastecemento sostible de materias primas.

<b>5. CLIMATE ACTION, ENVIRONMENT, RESOURCE EFFICIENCY AND RAW MATERIALS (Call - Greening the Economy)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Climate services</b>	
<b>SC5-01-2016-2017:</b> Exploiting the added value of climate services	<b>07/03/2017</b>
<b>SC5-02-2017:</b> Integrated European regional modelling and climate prediction system	<b>07/03/2017</b>
<b>SC5-04-2017:</b> Towards a robust and comprehensive greenhouse gas verification system	<b>07/03/2017</b>
<b>Towards a low-carbon Europe</b>	
<b>SC5-06-2016-2017:</b> Pathways towards the decarbonisation and resilience of the European economy in the timeframe 2030-2050 and beyond	<b>07/03/2017</b>
<b>SC5-07-2017:</b> Coordinating and supporting research and innovation actions on the decarbonisation of the EU economy	<b>07/03/2017</b>
<b>Nature-based solutions for territorial resilience</b>	
<b>SC5-08-2017:</b> Large-scale demonstrators on nature-based solutions for hydro-meteorological risk reduction	<b>07/03/2017 (1st Stage)</b>



**PRIORIDADE III: RETOS SOCIAIS**

<b>5. CLIMATE ACTION, ENVIRONMENT, RESOURCE EFFICIENCY AND RAW MATERIALS (Call - Greening the Economy)</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Raw materials</b>	
<b>SC5-13-2016-2017:</b> New solutions for sustainable production of raw materials	<b>07/03/2017</b>
<b>SC5-14-2016-2017:</b> Raw materials Innovation actions	<b>07/03/2017 (1st Stage)</b>
<b>SC5-15-2016-2017:</b> Raw materials policy support actions	<b>07/03/2017</b>
<b>SC5-16-2016-2017:</b> Raw materials international co-operation	<b>07/03/2017</b>
<b>Earth Observation</b>	
<b>SC5-18-2017:</b> Novel in-situ observation systems	<b>07/03/2017</b>
<b>SC5-19-2017:</b> Coordination of citizens' observatories initiatives	<b>07/03/2017</b>
<b>Cultural heritage for sustainable growth</b>	
<b>SC5-21-2016-2017:</b> Cultural heritage as a driver for sustainable growth	<b>07/03/2017 (1st Stage)</b>
<b>SC5-22-2017:</b> Innovative financing, business and governance models for adaptive re-use of cultural heritage	<b>07/03/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

**RETO 6: Sociedades inclusivas, innovadoras e reflexivas.** O obxectivo é fomentar unha mellor comprensión de Europa, ofrecer solucións e apoiar unhas sociedades inclusivas, innovadoras e reflexivas nun contexto de transformacións sen precedentes e unha crecente independencia mundial.

6. INCLUSIVE SOCIETIES	
TOPICS	PRAZO
<b>Call - Co-Creation for Growth and Inclusion</b>	
<b>CO-CREATION-01-2017:</b> Education and skills: empowering Europe’s young innovators	<b>02/02/2017</b>
<b>CO-CREATION-04-2017:</b> Applied co-creation to deliver public services	<b>02/02/2017</b>
<b>CO-CREATION-06-2017:</b> Policy-development in the age of big data: data-driven policy-making, policy-modelling and policy-implementation	<b>02/02/2017</b>
<b>CO-CREATION-07-2017:</b> Towards a new growth strategy in Europe- Improved economic and social measurement, data and official statistics	<b>02/02/2017</b>
<b>CO-CREATION-08-2016/2017:</b> Better integration of evidence on the impact of research and innovation in policy making	<b>02/02/2017</b>
<b>Call - Reversing Inequalities and Promoting Fairness</b>	
<b>REV-INEQUAL-06-2016:</b> Tackling inequalities at their roots: new policies for fairness in education from early age	<b>02/02/2017</b>





**PRIORIDADE III: RETOS SOCIAIS**

<b>6. INCLUSIVE SOCIETIES</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Call - Engaging Together Globally</b>	
<b>ENG-GLOBALLY-01-2017:</b> Strengthening Europe's position in the global context: science diplomacy and intercultural relations	<b>02/02/2017</b>
<b>ENG-GLOBALLY-02-2017:</b> Shifting global geopolitics and Europe's preparedness for managing risks, mitigation actions and fostering peace	<b>02/02/2017</b>
<b>ENG-GLOBALLY-03-2017:</b> The European Union and the global challenge of migration	<b>02/02/2017</b>
<b>ENG-GLOBALLY-04-2017:</b> Science diplomacy for EU neighbourhood policies	<b>02/02/2017</b>
<b>ENG-GLOBALLY-05-2017:</b> The strategic potential of EU external trade policy	<b>02/02/2017</b>
<b>ENG-GLOBALLY-06-2017:</b> The Asia-Pacific as a strategic region for Europe	<b>02/02/2017</b>
<b>ENG-GLOBALLY-07-2017:</b> The European Union and Central Asia	<b>02/02/2017</b>
<b>ENG-GLOBALLY-08-2016/2017:</b> EU-China cooperation on sustainable urbanisation	<b>02/02/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

<b>6. INCLUSIVE SOCIETIES</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Call - Understanding Europe-Promoting the European Public and Cultural Space</b>	
<b>CULT-COOP-01-2017:</b> Democratic discourses and the rule of law	<b>02/02/2017</b>
<b>CULT-COOP-02-2017:</b> Improving mutual understanding among Europeans by working through troubled pasts	<b>02/02/2017</b>
<b>CULT-COOP-03-2017:</b> Cultural literacy of young generations	<b>02/02/2017</b>
<b>CULT-COOP-04-2017:</b> Contemporary histories of Europe in artistic and creative practices	<b>02/02/2017</b>
<b>CULT-COOP-05-2017:</b> Religious diversity in Europe	<b>02/02/2017</b>
<b>CULT-COOP-06-2017:</b> Participatory approaches and social innovation in culture	<b>02/02/2017</b>
<b>CULT-COOP-07-2017:</b> Cultural heritage of European coastal and maritime regions	<b>02/02/2017</b>
<b>CULT-COOP-09-2017:</b> European cultural heritage, access and analysis for a richer interpretation of the past	<b>02/02/2017</b>
<b>CULT-COOP-10-2017:</b> Culture, integration and Public space	<b>02/02/2017</b>
<b>CULT-COOP-11-2016/2017:</b> Understanding the transformation of European public administrations	<b>02/02/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

**RETO 7: Sociedades seguras-protección da liberdade e a seguridade de Europa e os seus cidadáns.** Ten como obxectivo fomentar as sociedades europeas seguras nun contexto de transformacións sen precedentes e crecente interdependencia e ameazas globais, así como o fortalecemento da cultura europea da liberdade e a xustiza.

7. SECURE SOCIETIES	
TOPICS	PRAZO
<b>Disaster-resilience: safeguarding and securing society</b>	
<b>SEC-05-DRS-2016-2017:</b> Chemical, biological, radiological and nuclear (CBRN) cluster	<b>24/08/2017</b>
<b>Fight against crime and Terrorism</b>	
<b>SEC-07-FCT-2016-2017:</b> Human Factor for the Prevention, Investigation, and Mitigation of criminal and terrorist acts	<b>24/08/2017</b>
<b>SEC-10-FCT-2017:</b> Integration of detection capabilities and data fusion with utility providers' networks	<b>24/08/2017</b>
<b>SEC-12-FCT-2016-2017:</b> Technologies for prevention, investigation, and mitigation in the context of fight against crime and terrorism	<b>24/08/2017</b>
<b>Border Security and External Security</b>	
<b>SEC-15-BES-2017:</b> Risk-based screening at border crossing	<b>24/08/2017</b>
<b>SEC-18-BES-2017:</b> Acceptance "no gate crossing point solutions"	<b>24/08/2017</b>



**PRIORIDADE III: RETOS SOCIAIS**

**RETO 7: Sociedades seguras-protección da liberdade e a seguridade de Europa e os seus cidadáns.** Ten como obxectivo fomentar as sociedades europeas seguras nun contexto de transformacións sen precedentes e crecente interdependencia e ameazas globais, así como o fortalecemento da cultura europea da liberdade e a xustiza.

7. SECURE SOCIETIES	
TOPICS	PRAZO
<b>Border Security and External Security</b>	
<b>SEC-16-BES-2017:</b> Through-foliage detection, including in the outermost regions of the EU	<b>24/08/2017</b>
<b>SEC-17-BES-2017:</b> Architectures and organizations, big data and data analytics for customs risk management of the international goods supply chain trade movements	<b>24/08/2017</b>
<b>Digital Security Focus Area</b>	
<b>DS-06-2017:</b> Cryptography	<b>25/08/2017</b>
<b>DS-07-2017:</b> Addressing Advanced Cyber Security Threats and Threat Actors	<b>24/08/2017</b>
<b>DS-08-2017:</b> Privacy, Data Protection, Digital Identities	<b>24/08/2017</b>



## ACTIVIDADES TRANSVERSAIS

**INDUSTRIA 2020 NUNHA ECONOMÍA CIRCULAR:** impulsará o crecemento económico e a renovación das capacidades industriais de Europa nun mundo de recursos finitos. Demostrarase a viabilidade económica e ambiental do enfoque da economía circular, e ao mesmo tempo dar un forte empuxe á reindustrialización da UE.

**INTERNET DAS COUSAS:** é compatible coa combinación de diferentes tecnoloxías, como internet, os compoñentes, os grandes datos, nube ou informática avanzada e a súa integración nos casos de uso innovadores fronte a grandes retos.

**CIDADES INTELIXENTES E SOSTIBLES:** Reune ás cidades, a industria e os cidadáns para demostrar a viabilidade de desenvolver e replicar solucións exitosas a maior escala para as cidades intelixentes e sostibles en Europa. Céntrase na creación de espazos urbáns que funcionan con enerxía segura, económica e limpa, con electro-movibilidade intelixente.

CALL- INDUSTRY 2020 IN THE CIRCULAR ECONOMY	
TOPICS	PRAZO
<b>Factories of the Future-FOF</b>	
<b>FOF-06-2017:</b> New product functionalities through advanced surface manufacturing processes for mass production	<b>19/01/2017</b>
<b>FOF-07-2017:</b> Integration of unconventional technologies for multi-material processing into manufacturing systems	<b>19/01/2017</b>
<b>FOF-08-2017:</b> In-line measurement and control for micro-/ nano-enabled high-volume manufacturing for enhanced reliability	<b>19/01/2017</b>
<b>FOF-09-2017:</b> Novel design and predictive maintenance technologies for increased operating life of production systems	<b>19/01/2017</b>



**ACTIVIDADES TRANSVERSAIS**

<b>CALL- INDUSTRY 2020 IN THE CIRCULAR ECONOMY</b>	
<b>TOPICS</b>	<b>PRAZO</b>
<b>Factories of the Future-FOF</b>	
<b>FOF-10-2017:</b> New technologies and life cycle management for reconfigurable and reusable customised products	<b>19/01/2017</b>
<b>FOF-12-2017:</b> ICT Innovation for Manufacturing SMEs (I4MS)	<b>19/01/2017</b>
<b>Sustainable Process Industries-Spire</b>	
<b>SPIRE-07-2017:</b> Integrated approach to process optimisation for raw material resources efficiency, excluding recovery technologies of waste streams	<b>19/01/2017</b>
<b>SPIRE-08-2017:</b> Carbon dioxide utilisation to produce added value chemicals	<b>19/01/2017</b>
<b>SPIRE-09-2017:</b> Pilot lines based on more flexible and down-scaled high performance processing	<b>19/01/2017</b>
<b>SPIRE-10-2017:</b> New electrochemical solutions for industrial processing, which contribute to a reduction of carbon dioxide emissions	<b>19/01/2017</b>
<b>SPIRE-12-2017:</b> Assessment of standardisation needs and ways to overcome regulatory bottlenecks in the process industry	<b>19/01/2017</b>



## ACTIVIDADES TRANSVERSAIS

CALL- INDUSTRY 2020 IN THE CIRCULAR ECONOMY	
TOPICS	PRAZO
Circular Economy	
<b>CIRC-01-2016-2017:</b> Systemic, eco-innovative approaches for the circular economy: large-scale demonstration projects	07/03/2017 (1st Stage)
<b>CIRC-02-2016-2017:</b> Water in the context of the circular economy	07/03/2017 (1st Stage)

CALL - INTERNET OF THINGS	
TOPICS	PRAZO
<b>IoT-03-2017:</b> R&I on IoT integration and platforms	25/04/2017

CALL - SMART AND SUSTAINABLE CITIES	
TOPICS	PRAZO
<b>SCC-1-2016-2017:</b> Smart Cities and Communities lighthouse projects	14/02/2017
<b>SCC-02-2016-2017:</b> Demonstrating innovative nature-based solutions in cities	07/03/2017 (1st Stage)



### ENLACES DE INTERESE:

- Portal español de **Horizonte 2020**.
- Listas de distribución temáticas de **H2020**.
- Listado de **Puntos Nacionales de Contacto** (NCP) Españoles.
- Página web oficial de **H2020 de la Comisión Europea**.
- **Portal del participante H2020**.
- **EIT: Instituto Europeo de Innovación y Tecnología**.
- **CORDIS**.
- **Dirección General de Investigación e Innovación** de la CE.
- **IT HELPDESK**: Servicio de asistencia sobre las herramientas del Portal del Participante.
- **CDTI: Centro para el Desarrollo Tecnológico Industrial**.
- **Red PI+D+i**: Red de puntos de información sobre I+D+i.
- **MINECO: Ministerio de Economía y Competitividad**.
- **FECYT Fundación Española para la Ciencia y la Tecnología**.
- **IPRHELPDESK**.
- **Redes europeas para la búsqueda de socios**:
  - \* **IDEALIST**- Tecnologías de la información y la comunicación.
  - \* **NMP**- Team Nanociencias, nanotecnologías, materiales y procesos de producción avanzados.
  - \* **ETNA**- Transporte.
  - \* **SEREN2**- Seguridad.





### ENLACES DE INTERESE:

- \* **ENVNCPTTogether**- Medio ambiente y cambio climático.
- \* **COSMOS**- Espacio.
- \* **NET4SOCIETY**- Sociedades inclusivas, innovadoras y reflexivas y Ciencias Socioeconómicas y Humanidades.
- \* **Fit for Health 2.0**- Salud.

- Enterprise Europe Network.
- Estrategia Europa 2020.
- Unión por la Innovación.
- NETWATCH.
- Smart Specialisation Platform.

*\*Fonte: Webs de interés H2020, CDTI*

