



#InvestEUresearch



Horizon 2020 Work Programme for Research & Innovation 2018-2020

Opportunities for participation for
international partners in Horizon
2020: **Societal Challenges &**
Industrial Leadership

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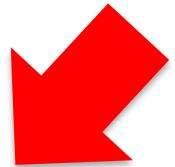
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Research and
Innovation



Contenidos

1. Brief overview of Horizon 2020
2. The European Research Council
3. Future Emerging Technologies (FET)
4. Marie Skłodowska-Curie (MSCA)
5. Research Infrastructures (RI)



6. Industrial Leadership

7. Societal Challenges

8. Spreading Excellence and Widening Participation

9. Science with and for Society



Habíamos visto...



Proyectos colaborativos...

Excellent Science

- European Research Council
 - Frontier research by the best individual teams
- Future and Emerging Technologies
 - Collaborative research to open new fields of innovation
- Marie Skłodowska Curie actions
 - Opportunities for training and career development
- Research infrastructures (including e-infrastructure)
 - Ensuring access to world-class facilities

Industrial Technologies

- Leadership in enabling and industrial technologies
 - ICT, nanotechnologies, materials, biotechnology, manufacturing, space

Societal Challenges

- Health, demographic change and wellbeing
- Food security, sustainable agriculture, marine and maritime research & the bio-economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Secure societies



- Anticipación**
- Estrategia** a corto-medio-largo plazo
- Networking** con partners europeos/internacionales

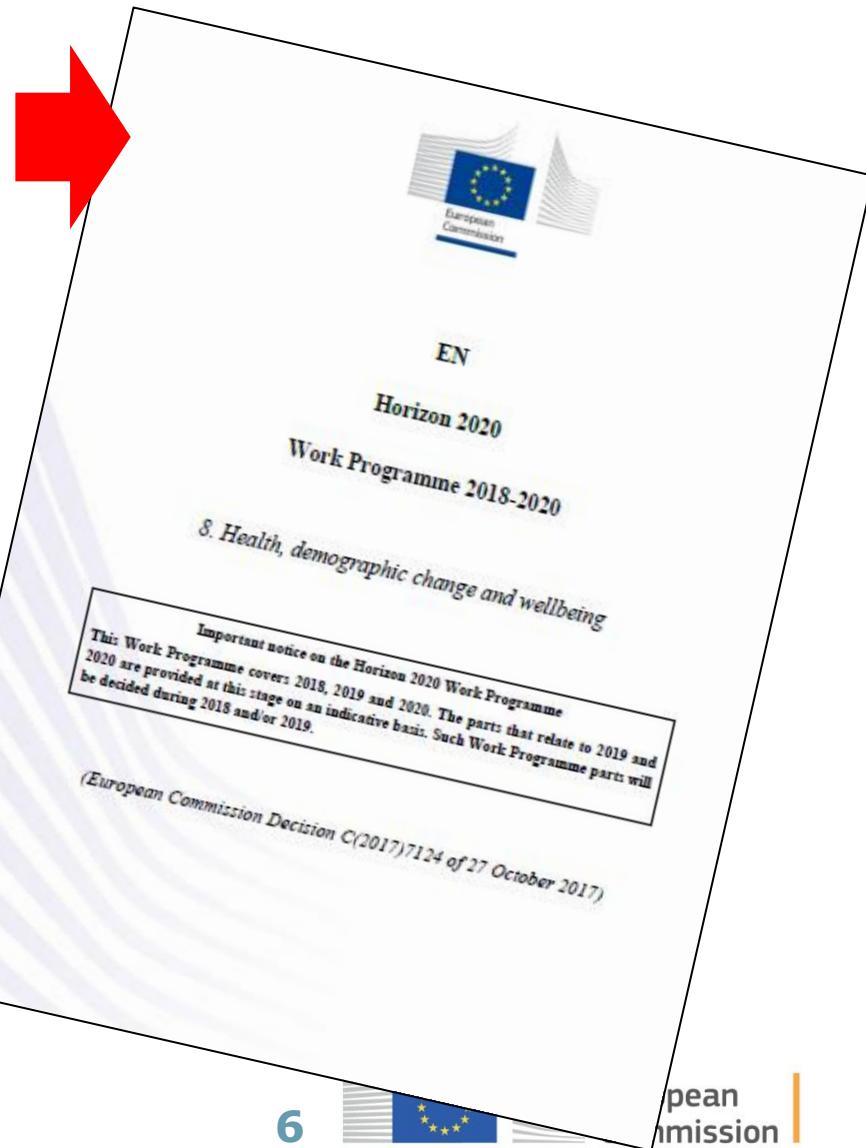


Apoyo a diferentes niveles:

- Nacional** → Red de Puntos Nacionales de Contacto (NCPs), delegación de UE en Perú,...
- En Europa** → Organizaciones Europeas (EC, Agencias,...); Plataformas Tecnológicas EU & Asociaciones sectoriales; Asociaciones regionales (ERRIN, EURADA, Nereus...); Redes de Agencias Nacionales (IGLO); Asociaciones de RTOs (LERU, EARTO, ...);...

□ Convocatorias competitivas a través de los **programas de trabajo (Work-Programmes)**.

□ **Grandes Iniciativas-estrategias** (no necesariamente a través de los programas de trabajo), como por ejemplo, los **Partenariados Público-Privados (PPPs)**.



¿Cómo se ejecuta H2020 – Retos Sociales & Tecnologías Industriales?

MG-3-6-2020: Towards sustainable urban air mobility

Specific Challenge: ~~Urban air mobility (UAM) is a field of disruptive innovation, not only for aviation but also for mobility systems and urban planning at large. At urban / suburban and peri-urban / inter-urban level, point-to-point air connection can help overcome the lack or congestion of surface transport, lighten and complement logistic chains whilst saving time and recurrent infrastructure costs.~~ [...]

Scope: ~~Proposals should address novel concepts, technologies and solutions beyond the state-of-the-art. [...] Particular emphasis should be addressed to potentially early urban air mobility services (e.g. for air medical emergencies, for safety & security services, for logistics, etc).~~

International cooperation is encouraged in cases of mutual benefit, such as sharing of practices with early adopters of urban air mobility in non-European megacities (e.g. Singapore, Dubai, Sao Paulo, Mexico DF, etc.) The Commission considers that proposals requesting a contribution from the EU between EUR 4 and 8 million would allow this specific challenge to be addressed appropriately.

Impact:

- Contribute to smarter and more sustainable cities and air transport. [...]

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

Los TOPICS...

- ✓ Cuál es el **problema**
- ✓ **Qué** debe desarrollar nuestro proyecto.
- ✓ Cual debe ser el **resultado** después del final del proyecto.
- ✓ Tipo de **financiación** y de proyecto



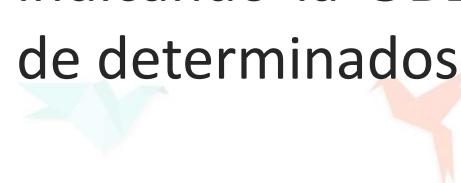
European
Commission

¿Cómo identificar temas para la Cooperación Internacional?

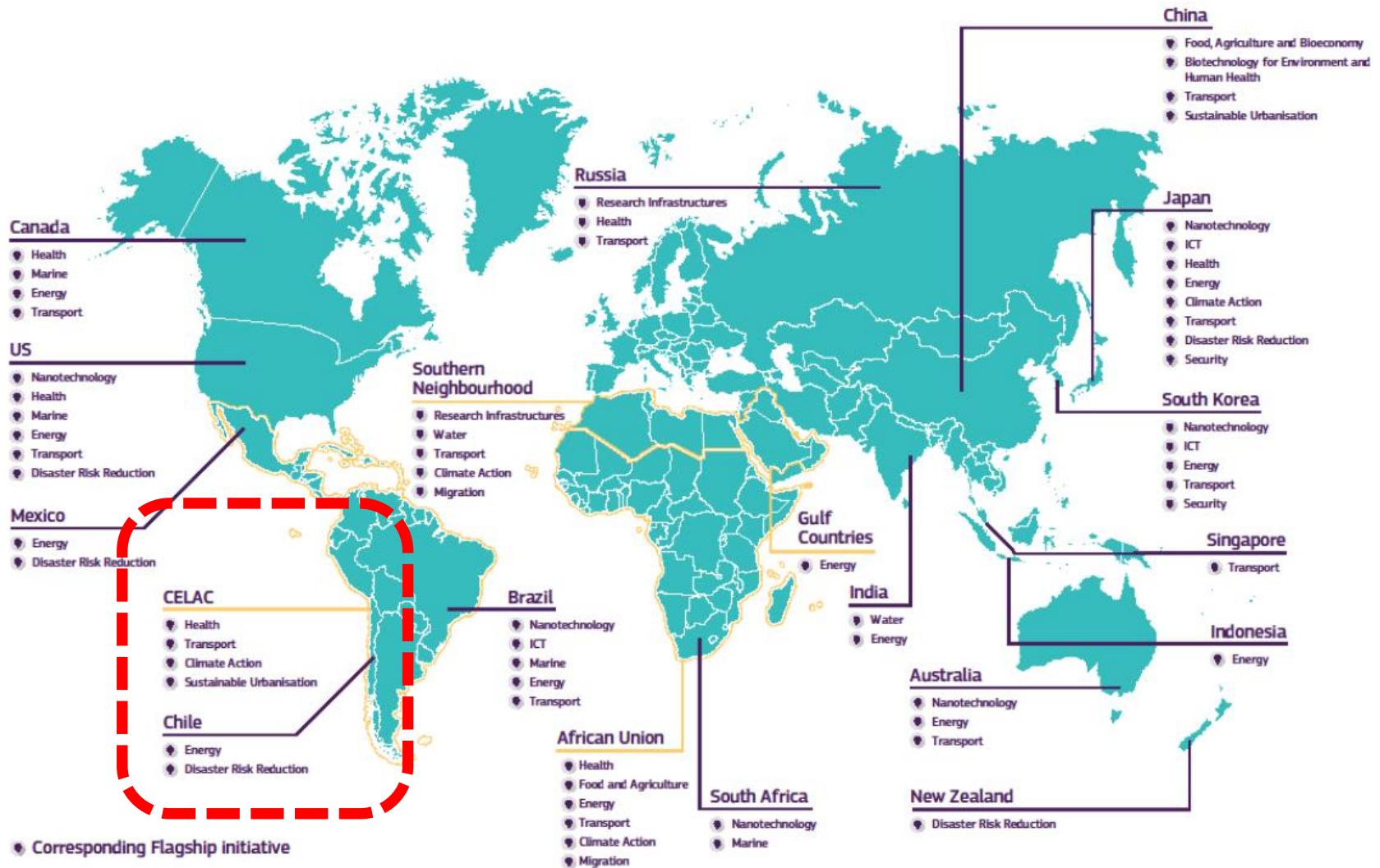
- En general → Cooperación Internacional es una **prioridad transversal** y se incluye en casi todas las partes de Horizon-2020.

- En particular, cuando:
 - ✓ O bien, el topic “**alienta la cooperación internacional**” indicando (o no) países o zonas geográficas concretas. → **OPCIONAL pero bien valorado en la evaluación!**

 - ✓ O bien, cuando el topic es resultado de la “**Joint Call**” indicando la **OBLIGATORIEDAD** de un número de partners de determinados países o zonas geográficas.



En Horizon-2020 se definieron unas „Flagships“ para cooperación internacional en materias específicas...



Quién puede participar en proyectos colaborativos de Horizon-2020?

Horizon 2020 – Open to the world!

Applicants from non-EU countries are almost **always free to take part** in Horizon 2020 programmes — even if the call for proposals or topic text do not state this explicitly.

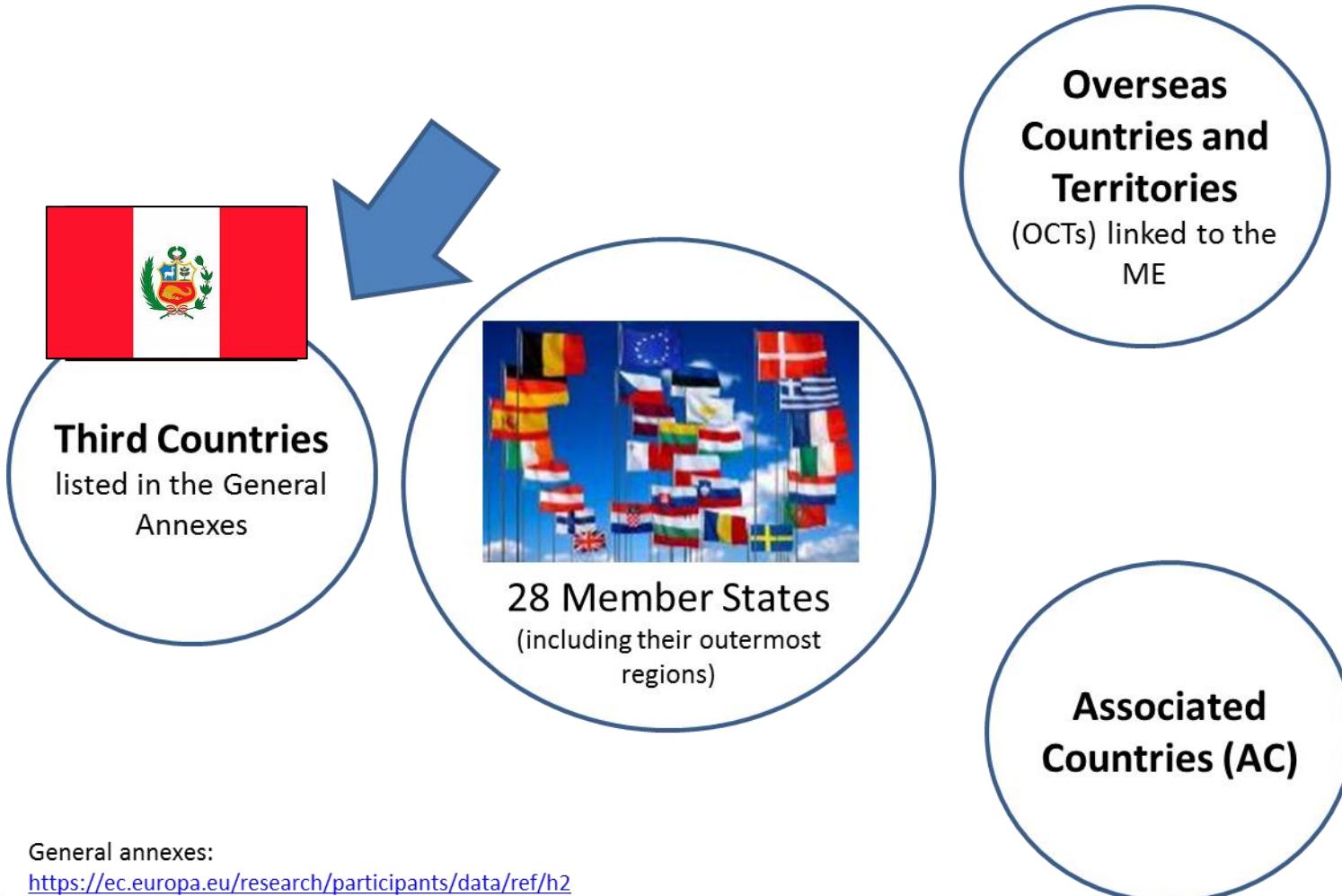
They are **not always automatically entitled to funding**.

All applications must meet the **minimum conditions** in the H2020 Rules for Participation Regulation No 1290/2013¹.

http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/3cpart/h2020-hi-3cpart_en.pdf



Quién puede participar en **proyectos colaborativos** de Horizon-2020?



General annexes:

https://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-ga_en.pdf

List of associated countries:

http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/3cpart/h2020-hi-list-ac_en.pdf

Tipologías de proyectos...



Proyectos colaborativos...

✓ **Research and Innovation Action (RIA)**

✓ **Innovation Action (IA)**

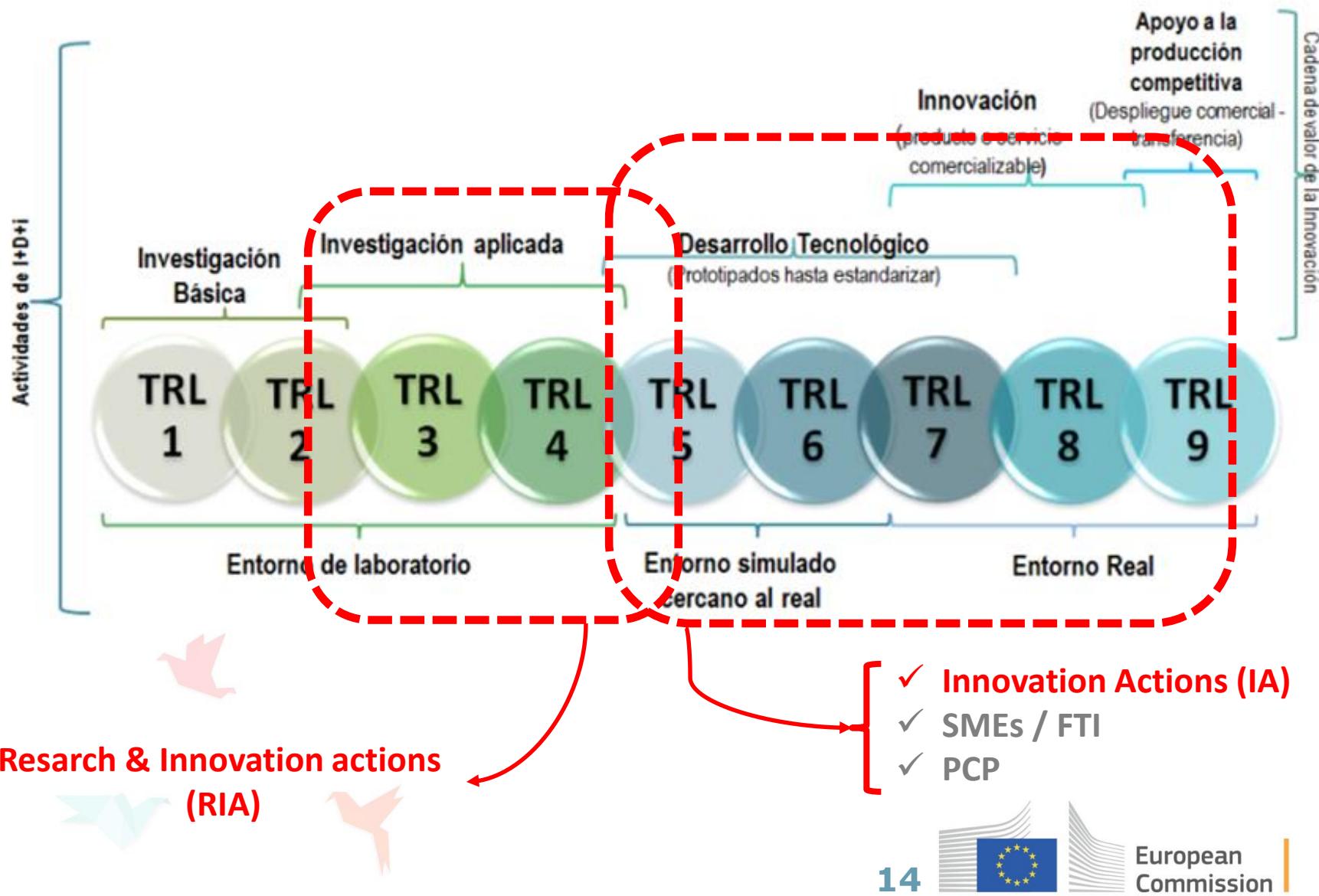
✓ **Coordination and Support Action (CSA)**

✓ **SME Instrument**

✓ **Pre-Commercial Procurement Cofund (PCP)**

✓ **Fast Track to Innovation Pilot**

Tipos de instrumentos de financiación en H2020...



- ❑ **Objetivo:** Desarrollar nuevos conocimientos o bien explorar la viabilidad de una nueva tecnología, servicio o solución.

Puede incluir investigación fundamental y aplicada, Desarrollo tecnológico e integración, testeo y validación de un prototipo a pequeña escala en laboratorio o entorno simulado.

- ❑ **Financiación:** Hasta el **100%** de los costes elegibles.

- ❑ **Criterios de eligibilidad:** Mínimo **3 entidades legales independientes** con sede en 3 Estados Miembros diferentes o Estados Asociados. → **El partner peruano no cuenta como los 3 mínimos...**



Applied Research

❑ **Objetivo:** Diseño de nuevos productos, procesos y/o mejora de servicios.

Puede incluir prototipage, testeo, demostraciones, pilotos, validación y replicación a gran escala cerca de mercado.

❑ **Financiación:** Hasta el **70%** de costs elegibles para entidades con ánimo de lucro (empresas) y hasta el **100%** para entidades sin ánimo de lucro (universidades, centros de investigación, asociaciones, ...).

❑ **Criterios de eligibilidad:**

Mínimo **3 entidades legales**

independientes con sede en 3 Estados

Miembros diferentes o Estados Asociados.

→ **El partner peruano no cuenta como uno de los 3 mínimos...**



Coordination and Support Action (CSA)

❑ **Consiste en:** Medidas de acompañamiento como normalización, diseminación / divulgación y comunicación, networkig, servicios de apoyo, diálogos sobre políticas, ejercicios y estudios de training e intercambio de buenas prácticas, actividades complementarias como planificación estratégica, coordinación de redes, ...

❑ **Financiación:** Hasta el **100%** de los costs elegibles.

❑ **Criterios de eligibilidad:** Mínimo **1 entidad legal** con sede un Estado Miembro o Asociado.

**El partner peruano no cuenta
como el uno mínimo...**



Industrial Leadership



Liderazgo en Tecnologías Industriales / Leadership in enabling & industrial technologies (LEIT)



Este pilar consta principalmente de las **Key Enabling Technologies** (KETs O Tecnologías facilitadoras), las **TICs** y **Espacio** son las áreas de competencias industriales clave para la competitividad de Europa a nivel global.

- **KETs** cubren las áreas de Nanotecnologías, Materiales avanzados, Fabricación y Procesos Industriales Avanzados y Biotecnología.
- **Las TICs** comprenden 6 áreas principales → Nuevas generaciones de componentes y sistemas, Computación Avanzada, Future Internet, Contenidos en la red, tecnologías y gestión de la información, Robótica, Micro- y nano-electrónica, Fotónica.
- El objetivo de la **investigación en Espacio** es estar preparados para el incremento del uso de las informaciones y tecnologías espaciales.



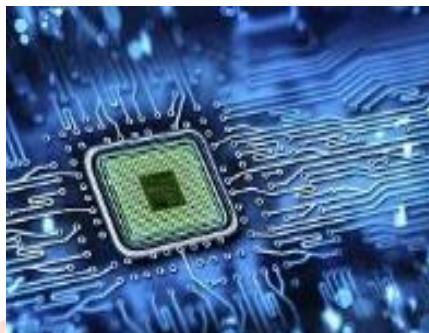
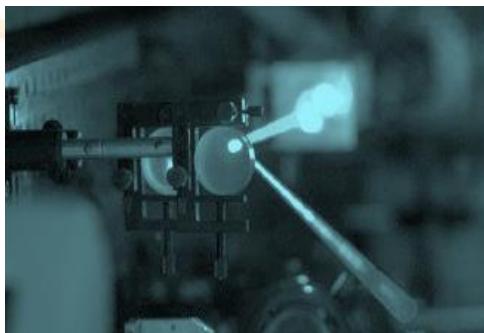
A destacar como aspectos relevantes de este pilar:

- El objetivo es **fortalecer la Investigación e Innovation Industrial** para mejorar las capacidades industriales europeas y las perspectivas de negocios (destacando el papel de la **PYMES**).
- Algunas de las temáticas se desarrollan a través de las iniciativas industriales paralelas a H2020 como son los Partenariados Público-Privados (Public-private partnerships, PPPs).
- Algunas de las tecnologías son multidisciplinares y multisector (**cross-cutting**).
- Se pretende mejorar las capacidades en las TICs.
- Las herramientas y tecnologías que se desarollen aquí estarán al servicio de los Retos Sociales.
 - Hay una serie de **aspectos transversales** como la cooperación internacional y las responsabilidad en investigación e innovación (RRI, responsible research and innovation) que aparecen en algunas líneas de financiación de esta parte del programa.

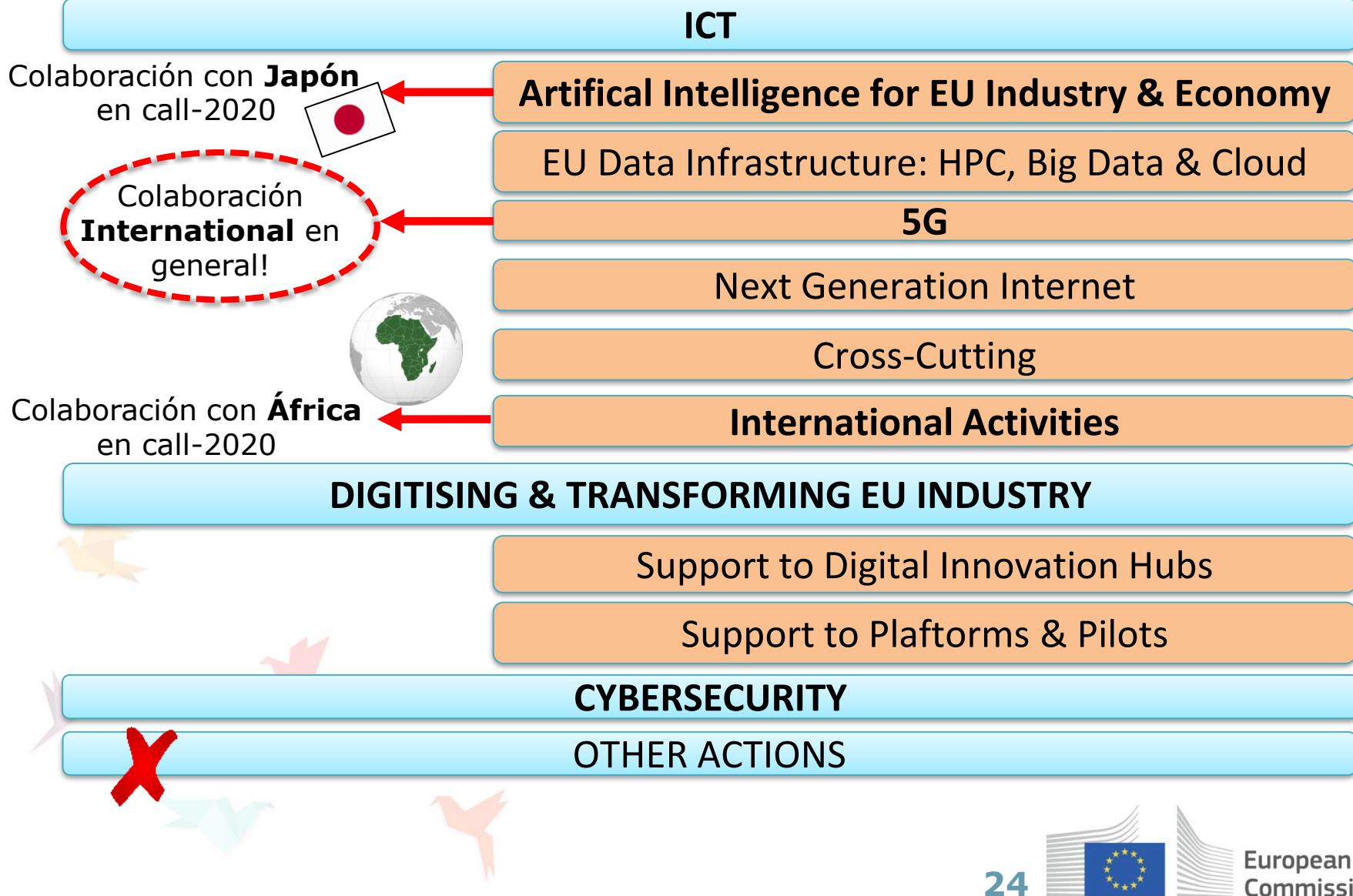


TICs

- Ingeniería de **componentes y sistemas empotrados** avanzados e inteligentes.
- Tecnologías y sistemas avanzados de **computación**.
- **Internet del Futuro**: infraestructuras, tecnologías y servicios.
- Tecnologías de **contenidos digitales** y gestión de la información.
- Interfaces avanzados y **robótica**.
- * **Micro- y nano-electrónica y fotónica**.



Estructura LEIT-ICT 2020



ICT-XX-2020: 5G PPP – Smart Connectivity beyond 5G

ICT-YY-2020: 5G PPP – 5G innovations for verticals with third party services

ICT-TT-2020: 5G PPP – 5G core technologies innovation

ICT-ZZ-2020: 5G PPP – 5G for Connected and Automated Mobility (CAM)

The projects under this are expected to leverage
international cooperation towards industrial consensus on
5G key aspects such as interoperability, architecture,
standards, spectrum, and deployment...

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Oportunidades en topics call-2020

ICT XX-2020: 5G PPP – Smart Connectivity beyond 5G

RIAs of 5-12 M€ (total 55M€) for **Smart connectivity platform solutions** where processes and applications are dynamically supported depending on the information flows and application requirements. Should allow the easy interaction between humans digital systems based on new terminal types embedded in the daily environment, e.g. in cars, doors, mirrors, appliances, and new interfaces recognising gestures, facial expressions, sound and haptics.



Oportunidades en topics call-2020

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ICT-YY-2020: 5G PPP – 5G innovations for verticals with third party services

IAs of 4-6M€ EC req. for developing experimentation facilities able to provide enhanced experimentation infrastructures on top of which third party experimenters e.g. SMEs or any service provider and target vertical users will have the opportunity to test their applications in an integrated, open, cooperative and fully featured network platform running across multiple domains where needed, and tailored to specific vertical use case.
→ **Health, energy, industry 4.0 & smart Factories, automated mobility,..**

ATENCIÓN:

- ✓ Resultados exitosos deben servir para creación de nuevas SMEs (Start-ups)
- ✓ 50% del presupuesto debe ir a SMEs.



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ICT-TT-2020: 5G PPP – 5G core technologies innovation

- ✓ **IAs of 4-6 M€ (Total 48M€)** further development of 5G technological blocks hardware-based (array antenna, array processors, millimetre wave devices and subsystems, baseband processor platforms, low-cost access points,...) for new generation of 5G terminals, i.e., for **future Connected and Automated Mobility**, in order to provide opportunities for innovative high-tech SMEs access to new markets through pilot validation of promising solutions. → **ATTENTION: Strong participation of SMEs required!!!**
- ✓ **1 CSA of 1M€** for a **report/analysis/study** to:
 - define the expected core hardware components of future connectivity systems where Europe should seize opportunities and strengthen its capabilities;
 - define the required R&I and investment requirements related to the identified domains;
 - define of related industry roadmap in partnership among relevant EU actors, both from industry and academia;

This action should result in a EU roadmap for hardware enabling technologies supporting EU strategic autonomy objectives for connectivity platforms.

Oportunidades en topics call-2020

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ICT-22-2020: 5G PPP – 5G for Connected and Automated Mobility (CAM)

IAs of 8-12 M€ EC req. (Total of 30M€) for demonstration of “5G corridors”. → Linked to the CEF-ICT and CEF-Transport!!!!

https://5g-ppp.eu/wp-content/uploads/2018/11/5GInfraPPP_TrialsWG_Roadmap_Version4.0.pdf



EU Corridors

- Metz-Meuse-Luxembourg
- Rotterdam-Antwerpen-Eindhoven (NL-BE-NL).
- Porto-Vigo and Evora-Merida (PT-ES). (highlighted)
- Tromso-Kolari - E8 "Aurora Borealis": (NO-FI)
- Helsinki-Turku-Stockholm-Gothenburg-Oslo-Copenhagen Nordic Way2 (FI-SE-NO-DK).
- Munich-Bologna - Brenner Corridor (DE-AT-IT).
- Thessaloniki-Sofia-Belgrade (EL-BG-RS)
- Tallinn-Riga-Kaunas - Via Baltica (E67)-Lithuanian/Polish border (EE-LV-LT).
- Kaunas-Warsaw - Via Baltica (LT-PL).

España y Portugal crearán un corredor Vigo-Oporto para vehículos sin conductor

Ambos gobiernos eligen dos tramos para probar tecnologías innovadoras

Redacción | 23.04.2018 | 01:59

Authorities españolas y portuguesas han acordado crear dos corredores entre ambos países para probar en ellos vehículos sin conductor, una colaboración con la que ambos gobiernos pretenden "transformar la Península Ibérica en una de las áreas más innovadoras" para este negocio.

Así lo aseguraba en su edición de ayer el diario Luso Público, que también explicaba que ambos corredores funcionarán entre Vigo y Oporto, con una distancia de 154 kilómetros, y entre Évora y Mérida -163 kilómetros-, aunque aún todavía no se tienen fechas precisas de cuándo comenzarán a estar operativos.

Figure 5: EU 5G Test Corridors

Fechas & presupuestos indicativos LEIT-ICT 2020

		Topic	Open	Close	Budget in M€
	5G	ICT-XX-2020: 5G PPP – Smart Connectivity beyond 5G (Formerly part 2 of 5G Long Term Evolution)	19 Nov 2019	21 Apr 2020	55
		ICT-YY-2020: 5G PPP – 5G innovations for verticals with third party services	19 Nov 2019	21 Apr 2020	49
		ICT-TT-2020: 5G PPP – 5G core technologies innovation	09 Jul 2019	14 Jan 2020	49
		ICT-ZZ-2020: 5G PPP – 5G for Connected and Automated Mobility (CAM)	09 Jul 2019	12 Nov 2019	30



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Eventos relevantes...



<https://ec.europa.eu/digital-single-market/en/news/digital-excellence-forum-ict-proposers-day-2019>

Fabricación, Materiales Avanzados, Nanotecnologías y Biotecnologías, NMBP

Contenidos LEIT-NMBP 2020

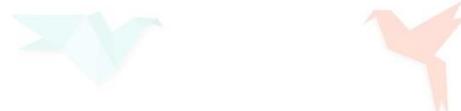
Advanced Materials / Materiales Avanzados

- Tecnologías de materiales facilitadoras transversales
- Desarrollo y transformación de materiales
- Gestión de componentes de materiales
- Materiales para una industria sostenible
- Materiales para las industrias creativas
- Metrología, caracterización, normalización y control de calidad
- Optimización del uso de materiales



Advanced Manufacture / Fabricación Avanzada

- Tecnologías para las fábricas del futuro
- Tecnologías que permitan edificios energéticamente eficientes
- Tecnologías sostenibles y de baja emisión de carbono en las industrias de transformación de gran consumo energético
- Nuevos modelos de negocio sostenibles



Nanotechnologies / Nanotecnologías

- Desarrollo de la próxima generación de **nanomateriales, nanodispositivos y nanosistemas**
- Garantía de la seguridad en el desarrollo y aplicación de las nanotecnologías
- Desarrollo de la **dimensión social** de la nanotecnología
- Síntesis y fabricación eficientes de nanomateriales, componentes y sistemas
- Desarrollo de técnicas, métodos de medición y equipos que potencien la capacidad



Bio-technologies / Biotecnologías

- 1.- **Biotecnologías de vanguardia:** Biología Sintética, Bioinformática, Biología de Sistemas, Bio-nanotecnología, Bioelectrónica; Nuevas aplicaciones.
- 2.- **Biotecnología industrial:** Productos y procesos alternativos a los existentes. Sectores: químico, sanitario, minero, energético, pasta y papel, textil, almidón, elaboración de alimentos. Biotec. Medioambiente.
- 3.- **Tecnologías para plataformas innovadoras:** herramientas genómicas, metagenómicas, proteómicas y moleculares; Explotación de la biodiversidad marina y terrestre; desarrollo de soluciones en materia de salud (dispositivos de diagnóstico, biológicos y biomédicos).



Estructura LEIT-NMBP 2020



Colaboración
USA call-2020

Foundations for Tomorrow's Industry

Open Innovation Test Beds

Materials characterisation & Computational modelling

Governance, Science-Based Assessment & Regulatory aspects

Industry Commons

Transforming the EU Industry

Factories of the Future

Colaboración **China**
call-2020



Biotechnology

Medical Technology Innovation

Industrial Sustainability

Sustainable Process Industry – SPIRE PPP

Catalysing the Circular Economy

Clean Energy Through Innovative Materials



Cultural Heritage

Colaboración **Eastern Countries, Ukraine, Georgia, Armenia, Belarus, Azerbaijan.**

Colaboración **Neighbouring Countries, Iran, Iraq**

Colaboración con países de la
Mission Innovation in Energy
pero **NO** en call-2020

Actores relevantes...

The screenshot shows the homepage of the Energy Efficient Buildings website. At the top, there is a navigation bar with links for Home, About Us, Membership, Projects, News & Events, Resources, and ECTP website. There are also buttons for JOIN ECTP and MEMBERS AREA, and a search bar. The main content area features a large image of modern buildings at night. On the left, a box highlights the 'Energy Efficient Buildings' committee, which is driving the creation of a knowledge-based building industry. On the right, a map titled 'MAP OF ECTP MEMBERS' shows member locations across Europe. A red arrow points from the 'Energy Efficient Buildings' box to the map.

ENERGY EFFICIENT BUILDINGS
AN ECTP COMMITTEE FOR INNOVATIVE BUILT ENVIRONMENT

JOIN ECTP MEMBERS AREA

search SEARCH

Home About Us Membership Projects News & Events Resources ECTP website

Energy Efficient Buildings

Driving the creation of a knowledge-based building industry which turns energy efficiency into sustainable business, within the PPP-EeB under H2020.

[Read more](#)

COMMITTEES

ACTIVE AGEING & DESIGN
AN ECTP COMMITTEE

ENERGY EFFICIENT BUILDINGS
AN ECTP COMMITTEE

HERITAGE & REGENERATION
AN ECTP COMMITTEE

MAP OF ECTP MEMBERS

Map showing ECTP members across Europe. Member counts are indicated by numbers in circles on the map. Red markers indicate Industry Members, blue markers indicate Research Organisations, green markers indicate SMEs, and grey markers indicate Other Organisations.

Datos de mapas ©2019 Google, INEGI, ORION-ME Términos de uso

Industry Members Research Organisations SMEs Other Organisations

Eventos relevantes...

The screenshot shows the EU Sustainable Energy Week website. At the top left is the logo 'SUSTAINABLE ENERGY WEEK' with three overlapping colored shapes (green, yellow, blue). Below it is the text 'An initiative of the European Commission'. The top navigation bar includes links for 'About', 'FAQ', 'Contact', 'LOGIN FOR USERS', and categories like 'CONFERENCE', 'NETWORKING', 'AWARDS', 'ENERGY DAYS', 'PARTNERS', 'RESOURCES', and 'NEWS'. A large red dashed circle highlights the event details: '17-21 JUNE 2019' and 'EU SUSTAINABLE ENERGY WEEK SHAPING EUROPE'S ENERGY FUTURE'. Below this is a section titled 'STRATEGIES FOR ENERGY EFFICIENT BUILDINGS TODAY AND IN 2050'. To the right, a red curved arrow points down to an 'i' icon inside a circle, which is labeled 'ADDITIONAL INFORMATION'. This section lists speakers and partners, including the International Passive House Association, Belfast Metropolitan College, Institute for Research in Environment, Civil engineering and Energy, IECE, North Macedonia; ENEA; Center for Energy Efficiency EnEffect; European Heating Industry. The bottom right corner features a small house icon.

SUSTAINABLE ENERGY WEEK
An initiative of the European Commission

CONFERENCE NETWORKING AWARDS ENERGY DAYS PARTNERS RESOURCES NEWS

17-21 JUNE 2019
EU SUSTAINABLE ENERGY WEEK
SHAPING EUROPE'S ENERGY FUTURE

STRATEGIES FOR ENERGY EFFICIENT BUILDINGS TODAY AND IN 2050

Highly energy efficient buildings, with a heating/cooling demand of just 15 kWh/(m²yr) for new builds or 25 kWh/(m²yr) for retrofits, are already possible now. This has been shown time and time again by the tens of thousands of Passive House buildings worldwide, covering the spectrum of climates, architectural styles and building types (residential, commercial, municipal and special-use buildings such as swimming pools). With the support of industry and current technological improvements integrating BIM into project planning as a sustainable energy supportive technology for reducing carbon footprint and increase of energy performance, the buildings of today will go from strength to strength to meet EU 2050 goals. In this session we will discuss what we can do now, including the best practices and lessons learned when planning and constructing highly energy efficient buildings. This will be followed by a discussion of what still needs to be done and developed to meet 2050 targets, including ways in which industry must develop and the role of BIM in energy improvement management, with a particular focus on policy recommendations for further support for local actions and engagement.

ADDITIONAL INFORMATION

- Thursday 20 June 09.00 - 10.30
- Brussels, Belgium
- Résidence Palace, Polak
- Conference, Buildings

• International Passive House Association; Belfast Metropolitan College; Institute for Research in Environment, Civil engineering and Energy, IECE, North Macedonia; ENEA; Center for Energy Efficiency EnEffect; European Heating Industry

Espacio

- Mejorar la **competitividad, no-dependencia e innovación**

proyectos de demostración en órbita, tecnologías espaciales críticas para la no dependencia, innovación entre sector espacial y no espacial (paneles solares, baterías, operación remota de robots, reciclado, etc)



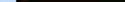
- Avanzar en las **tecnologías espaciales**

lanzadores “verdes”, propulsión, robótica, sensores, nueva generación de tecnologías para Galileo, etc



- Aumentar la **explotación de los datos espaciales**

procesamiento, calibración, validación y estandarización de datos de las misiones



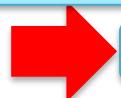
- Participación en **grandes proyectos espaciales globales**

experimentos a bordo de la Estación Espacial Internacional, tecnología de cohetes, proteger la Tierra y sistemas espaciales frente al clima, basura espacial, asteroides, etc



Estructura LEIT-SPACE 2020

Call - SPACE



Earth Observation

Artificial Intelligence and Space

Space business, entrepreneurship, outreach & education



Space technologies, science & exploration

Secure & safe space environment

Call - EGNSS market uptake 2019-2020



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Oportunidades en topics call-2020

LC-SPACE-19-EO-2020: Copernicus evolution: new concept for an innovative and holistic solution for Sentinels calibration & validation

CSA of 3M€ for defining an innovative and holistic strategy for the cal/val activities for and across all existing and planned Sentinels in an operational perspective to better access to the necessary infrastructure for Fiducial Reference Measurements.

The activities should foresee and establish the linkage between EU and non-EU aspects of the networks needs and **identifying the necessary non-EU partnerships to prioritise.**

ATTENTION: Involvement of post-graduate scientists, engineers and researchers and promotion of gender balance is encouraged, for example through professional work experience or through fellowships/scholarships as applicable.



**Opening: 01-Nov-2019 →
Deadline: 05-Mar-2020**

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Oportunidades en topics call-2020

SPACE-30-SCI-2020: Scientific data exploitation

RIAs of 1-2 M€ (total 9M€) for small research projects exploiting of all acquired and available data provided by space missions in their operative, post-operative or data exploitation phase.

ATENCIÓN:

- ✓ Data from ESA Space Science Archives and **combination and correlation of this data with international scientific mission data**, as well as with **relevant data produced by ground-based infrastructures all over the world**.
- ✓ Involvement of **post-graduate scientists, engineers and researchers** and the promotion of gender balance is encouraged.
- ✓ As a result, a higher number of **scientific publications** based on Europe's space data, [...]. Proposals are also expected to **add value to existing activities on European and international levels, and to enhance and broaden research partnerships.**

Opening: 01-Nov-2019

Deadline: 05-Mar-2020



Eventos relevantes...

Horizon 2020 International Space Information Day

Beginning

12-06-2019 09:00

End

17:00

Location: hotel "Best Western Vilnius" (Glass Hall), Konstitucijos av. 14, LT-09308 Vilnius, Lithuania



09:30	Registration and welcome coffee
10:00	Welcome
10:15	Presentation of the Horizon 2020 Space call 2020 Mats Ljungqvist, European Commission & N.N. GSA [tbc]
11:15	Presentation of the IOD/IOV opportunities arising from Horizon 2020 Space Mats Ljungqvist, European Commission
11:30	Pitch session – short presentations of project ideas and partner profiles
12:30	Lunch break
13:30	Hints and tips on proposal writing Marco Curavic, Research Executive Agency & N.N. GSA [tbc]
14:30	Successful Lithuanian and Baltic projects
15:15	Hints and tips from evaluators
16:00	Coffee break
16:15	Bilateral meetings with speakers
17:15	End of the day

<http://mita.lrv.lt/en/events/horizon-2020-international-space-information-day>

7. Societal Challenges



Societal Challenges

1. **Health**, demographic change and wellbeing
2. **Food** security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy
3. Secure, clean and efficient **energy**
4. Smart, green and integrated **transport**
5. **Climate** action, environment, resource efficiency and raw materials
6. Europe in a changing world: Inclusive, innovative and reflective **societies**
7. **Secure societies** – Protecting freedom and security of Europe and its citizens



Top down approach
Topics prescriptivos

Salud

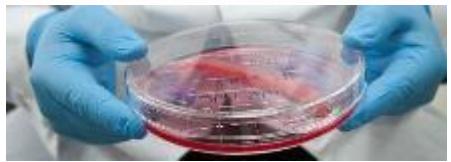
Societal Challenge 1 : Health, demographic change and wellbeing

Presupuesto: 7.472 M€

Principales objetivos:

- Mejora del conocimiento de las causas y mecanismos relacionados con enfermedades y con la salud
- Mejora del seguimiento y monitorización de la salud, así como de prevención, detección, tratamiento y gestión de enfermedades
- Apoyo a que las personas mayores se mantengan activas y saludables
- Testeo y demostración de nuevos modelos y herramientas en los Sistemas de salud y cuidados a enfermos

Contenidos SC-1 Salud 2020



Comprender los factores determinantes de la salud, mejorar la promoción de la salud y la prevención de las enfermedades.

Desarrollo de programas de detección eficaces y mejora de la evaluación de la propensión a las enfermedades.

Mejora de la vigilancia y la preparación.

Comprensión de la enfermedad.

Desarrollo de mejores vacunas preventivas.

Mejora de los diagnósticos

Uso de la medicina *in silico* para mejorar la predicción y la gestión de enfermedades.

Tratamiento de las enfermedades

Transferencia de conocimientos a la práctica clínica y acciones de innovación modulables (escalables).

Mejor uso de los datos sanitarios.

Mejora de herramientas y métodos científicos al servicio de la formulación de políticas y las necesidades normativas.

Envejecimiento activo, vida autónoma y asistida.

Capacitación de personas para autogestión de su salud.

Promoción de la asistencia integrada.

Optimización de la eficiencia y la eficacia de los sistemas de asistencia sanitaria y reducción de las desigualdades a través de la toma de decisiones basada en los datos y la divulgación de las mejores prácticas, y de tecnologías y planteamientos innovadores.

Estructura Salud 2020



Better Health & Care, economic growth & sustainable health systems

Colaboración con **Africa**
en call-2020

Personalised medicine

SC1-HCO-01-2018-2019-2020: Actions in support of the International Consortium for Personalised Medicine

SC1-HCO-17-2020: Coordinating and supporting research on the human microbiome in Europe and beyond

Innovative health care & care Industry

Colaboración
International en
general!

Infectious diseases & improving global health

SC1-BHC-17-2020: Global Alliance for Chronic Diseases (GACD) - Prevention and/or early diagnosis of cancer

Innovative health & care systems – Integration of care

Decoding the role of environment for health & well being

Digital transformation in Health and Care

Colaboración con **Japón ó**
con Canadá en call-2020

SC1-DTH-04-2020: International cooperation in smart living environments for ageing people

Trusted digital solutions and **Cybersecurity** in Health & Care



SC1-HCO-17-2020: Coordinating and supporting research on the human microbiome in Europe and beyond

1 CSA of 1.5-2 M€ setting up collaborations and agreements across various research and innovation programmes on the human microbiome, in Europe and worldwide, dealing with sample collection, processing, standardisation and healthy states references at different sites of the human body, including also interaction with omics, impact of drugs, nutritional and environmental aspects. The action should **support the agreement of concrete references of healthy human metagenomes across various different populations.**

Opening: 04-Jul-2019

Deadlines:

1st-stage 24-Sep-2019

2nd-stage 07-Apr-2020



- ✓ **Partners de USA →** Any legal entity established in USA is eligible to receive EC funding.
- ✓ **Evaluation in 2-Stage Procedure →** Para pasar a la 2a fase, la propuesta debe tener 4 “Excellence”; 4 “Impact” and 3 “Implementation”, y nota total MAYOR de 12.

DRAFT

Oportunidades en topics call-2020

SC1-BHC-17-2020: Global Alliance for Chronic Diseases (GACD) - Prevention and/or **early diagnosis of cancer**

RIAs of 1-3M€ (total 22 M€) on implementation research for the prevention and/or early diagnosis of cancer on in LMIC (Low & Middle-Income Countries) and/or in vulnerable populations in HIC (High Income Countries). [...]

For screening interventions, the pathway to referral for positive cases should be included.

Include a strategy to test the proposed model of intervention and to address the socioeconomic and contextual factors of relevance to the targeted region and community.

Opening: 04-Jul-2019

Deadlines:

1st-stage 24-Sep-2019

2nd-stage 07-Apr-2020



- ✓ **Partners de USA** → Any legal entity established in USA is eligible to receive EC funding.
- ✓ **Evaluation in 2-Stage Procedure** → Para pasar a la 2a fase, la propuesta debe tener 4 “Excellence”; 4 “Impact” and 3 “Implementation”, y nota total MAYOR de 12.

2019 GACD Annual Scientific Meeting



Welcome to the 2019 GACD Annual Scientific Meeting (ASM) information page. Information about the meeting will be provided here. This year's meeting will be held in Bangkok, Thailand and will be hosted by the Health Services Research Institute. The ASM will run from 11-15 November and will include the Implementation Science Workshop on the first 2 days of the week.

Eventos relevantes...

Save the date! Open Info Day, Horizon 2020 - 'Health, demographic change and wellbeing'

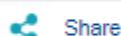
Brussels (Charlemagne building), Belgium

Save the date! Open Info Day, Horizon 2020 - 'Health, demographic change and wellbeing'

3 July 2019, Brussels (Charlemagne building), Belgium

 Add to your e-Calendar

[Go to the main events calendar to see all forthcoming events](#)



Share



With the principle of 'better health for all' at its core, Horizon 2020's Societal Challenge 1 (Health, demographic change and wellbeing) focuses on:

- personalised health and care
- infectious diseases and improving global health
- innovative and sustainable health systems
- decoding the role of the environment (including climate change) for health and well-being
- digital transformation
- cybersecurity in health and care

Horizon 2020 Societal Challenge 1 work programme for 2020 (2020 Health calls) will call for proposals with an overall budget of about €650 million. Funding opportunities at the Open Info Day on 3 July.

[Registration is now open!](#)

The link for the webstreaming will be available on 2 July.

<https://ec.europa.eu/research/index.cfm?pg=events&eventcode=177C4CC2-00D8-384B-9033FB7A262D7EF5>

 [New Events](#) - most events appear first in also a feed for [past events](#)

There are lots more events in the [molecular life sciences](#) [EMBO calendar](#)

[Suggest an event](#)

If you would like an event

<https://healthbe2019.b2match.io/>

4 July 2019
Brussels, Belgium

Horizon 2020 Health Partnering Day 2019



[Home](#) [How it works?](#) [Timetable](#) [Flash presentations](#) [Venue](#) [Contact](#)

Get involved in the next H2020 Health proposals!

The launch of the 2020 call is planned for June 2019; this will be the last call of Horizon 2020 before the new Framework Programme starts in 2021.

The European action Health NCP Net 2.0, in partnership with *Enterprise Europe Network*, are organizing the next Horizon 2020 Partnering Day on the 2020 Health call for proposals.

This international partnering event will help you to build your consortium for the upcoming 2020 calls of the 2018-2020 Health work programme, which will be open until April 2020.

Don't miss this opportunity!

This event will target a wide spectrum of companies, universities and researchers from Europe and beyond interested in sharing new project ideas.

[Register now](#)
Open until 31 May 2019

LOCATION
Crowne Plaza Brussels - Le Palace

ORGANISED BY



**Seguridad Alimentaria,
Agricultura y silvicultura,
investigación marina y
bioeconomía**

Societal Challenge 2 : Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy

Presupuesto: 3.851 M€

Principales objetivos:

- El crecimiento poblacional require un cambio en el planteamiento de la producción, consumo, almacenamiento, procesado y reciclado de residuos
- Respuestas a la contaminación mediambiental
- La agricultura, silvicultura y sectores industriales de alimentación y los productos bio-tecnológicos juegan un rol importante en el desarrollo rural y la gestión del patrimonio natural

Contenidos SC-2 Food 2020

• Agricultura (ganadería) y silvicultura sostenibles

- Incrementar la eficacia productiva y hacer frente al cambio climático al tiempo que se garantizan la sostenibilidad y la capacidad de recuperación
- Proporcionar servicios ecosistémicos y bienes públicos
- Más poder para las zonas rurales, apoyo a las políticas e innovación rural

• Sector agroalimentario competitivo y sostenible para una dieta sana y segura

- Decisiones informadas por parte del consumidor
- Alimentos y dietas saludables y seguros para todos (Nutrición y seguridad alimentaria)
- Un sector agroalimentario sostenible y competitivo (Procesado en industrias)

• Desbloquear el potencial de los recursos acuáticos vivos (Pesca y Acuicultura)

- Desarrollar un sector pesquero sostenible y respetuoso con el medio ambiente
- Impulsar la innovación marina por medio de la biotecnología

• Bioindustrias sostenibles y competitivas

- Promover la bioeconomía y las bioindustrias
- Desarrollar biorrefinerías integradas
- Apoyar el desarrollo de un mercado para los bioproductos y bioprocessos



Estructura Food 2020

Sustainable Food Security

From functional ecosystems to healthy food

Environment and climate-smart food production and consumption

Building capacities

Targeted international cooperation 

Blue Growth

Rural Renaissance

From farm to society: understanding dynamics and modernising policies

Organising sustainable food and non-food value chains under changing conditions

Taking advantage of the digital revolution

Boosting innovation and enhancing the human and social capital in rural areas

Food & Natural Resources



Colaboración **China & Africa** call-2020



Atlántico & EU Seas en call-2020



SFS-21-2020: Emerging challenges for soil management

RIAs of 7M€ (total 14 M€) for:

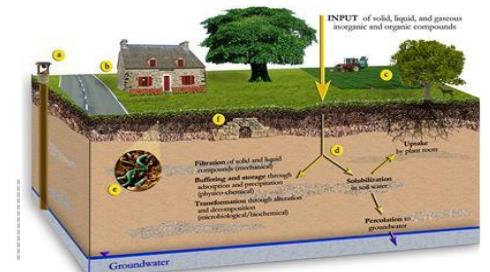
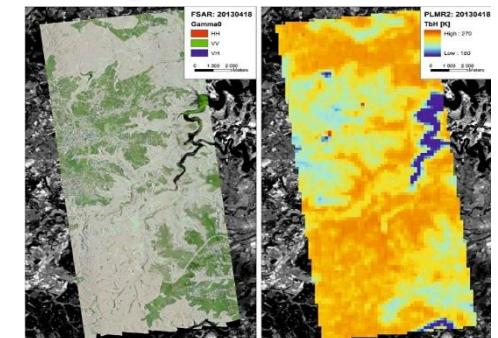
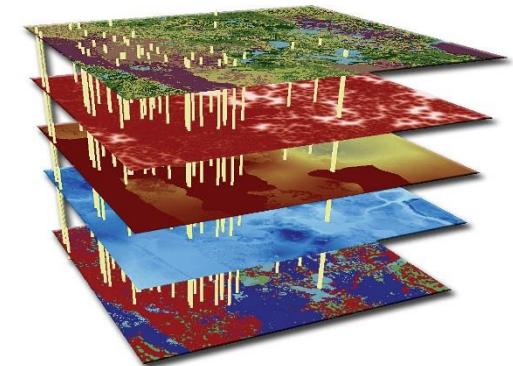
a.- Or well, A. [2020]: **Emerging challenges for soil management: Soil biodiversity assessment (RIA)**
→ Development of soil biodiversity analysis, including relevant microbes and invertebrates for soil-mediated ecosystem service. Built upon the [Global Soil Biodiversity Initiative](#). **International cooperation is encouraged.**

b.- Or well, B. [2020]: **Emerging challenges for soil management: use of plastic in agriculture (RIA)** → Development of analysis of the use of plastic in agricultural production and its impact on soil. The proposals should focus on the micro-plastic after harvest and its fate in the environment.

In both cases, proposals should fall under the concept of the “**multi-actor approach**”.

Opening: 15-Oct-2019

Deadlines: 1st-stage 22-Jan-2020 & 2nd-stage 08-Sep-2020



Oportunidades en topics call-2020

What is “multi-actor approach”?

- A multi-actor project should **sufficient involvement** of various actors, and in particular **end-users (farmers/farmers' groups, forest-related groups, fishers/fisher's groups, advisors, businesses, etc)**, all along the project (planning, experiments, implementation, dissemination, demonstration phase...).
- End-users and practitioners are not only study-object, but the project should use their entrepreneurial skills for developing solutions and creating "co-ownership" of results, as well as for the acceptance and dissemination of new ideas. → **Co-creation process!**

A multi-actor project proposal shall demonstrate:

- ✓ target the needs/problems and opportunities of end-users of project results;
- ✓ consortium and the description of the project concept reflects an balanced choice of key actors → Implementation of the project results;
- ✓ includes existing (sometimes tacit) knowledge into scientific work but also is multidisciplinar.
- ✓ added value: complement existing research and best practices;
- ✓ how the project results in practical knowledge, understandable and accessible dissemination to end-users;
- ✓ EU-wide communication and connection with initiatives such as the European Innovation Partnership (EIP) on Agricultural Productivity and Sustainability”.



DRAFT

Oportunidades en topics call-2020

LC-RUR-11-2019-2020: Sustainable wood value chains
→ [2020] Resilient forest systems (RIA)

RIA of 10M€ (total 10 M€) for developing and testing new technologies/solutions for enhancing the **adaptation of forest ecosystems** (both primary and secondary) and **forest production systems** to the growing societal demands for forest products (i.e. wood and non-wood) and ecosystem services, considering trade-offs, climate change and vulnerability to natural disturbances (e.g. storms, droughts, pathogens, wild fires). **Restoration of degraded ecosystems** should be addressed.

Topic suitable for INCO countries (i.e., PERÚ), but not only, and SMEs participation.



Opening: 15-Oct-2019

Deadlines: 1st-stage 22-Jan-2020 & 2nd-stage 08-Sep-2020

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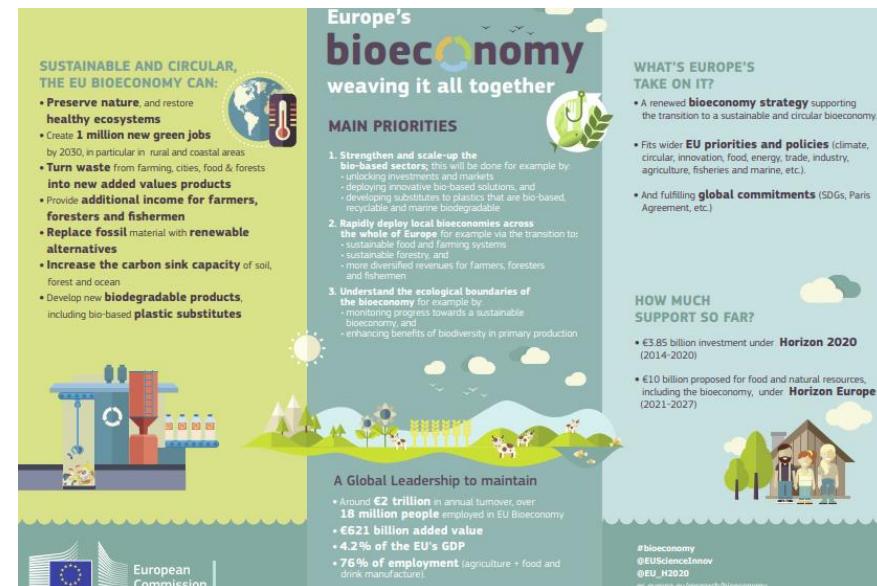
Oportunidades en topics call-2020

FNR-18-2020: Sustainability of bio-based products:
International governance aspects and market update

CSA of 1.5M€ for bringing together global sustainability experts in bio-based innovation (focus on bio-based products) to strengthen the common understanding of sustainability goals and green innovation, and to provide reliable and easy-to-use data for policymakers, consumers and end-users. Cooperation with key **European and non-European bioeconomy leaders and international organisations, and the bio-based industry is strongly encouraged.**

Opening: 15-Oct-2019
Deadline: 22-Jan-2020

ATTENTION, Topic RUR-21-2020 “Agricultural markets and international trade in the context of sustainability objectives”; is a **RIA of 4M€** for analysing and further develop robust methods and related indicators to assess the impacts (positive and negative) of agricultural international trade on the environment and society. → **BUT more focus on Africa!!!**



Oportunidades en topics call-2020

Renewed Bioeconomy Strategy, Oct-2018

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

A sustainable Bioeconomy for Europe:
Strengthening the connection between economy, society and the environment

{SWD(2018) 431 final}

Sustainable & Circular: Bioeconomy the European way

The bioeconomy covers all sectors and systems that rely on biological resources (animals, plants, micro-organisms and derived biomass, including organic waste), their functions and principles. It includes and interlinks: land and marine ecosystems and the services they provide; all primary production sectors that use and produce biological resources (agriculture, forestry, fisheries and aquaculture); and all economic and industrial sectors that use biological resources and processes to produce food, feed, bio-based products, energy and services.¹ To be successful, the European bioeconomy must be based on sustainable development principles, respect the environment, support European industries, take into account the needs of rural areas and protect biodiversity.

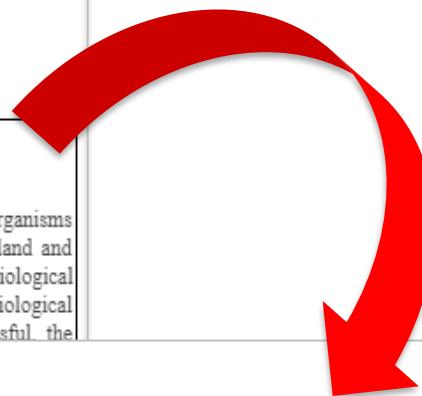
International Bioeconomy Forum

Canada co-chairs the International Bioeconomy Forum (IBF) with the European Commission. The IBF provides a flexible multilateral mechanism where global research and innovation partners can discuss, coordinate and act on common challenges in the bioeconomy. The bioeconomy is the production of renewable biological resources and the conversion of these resources and waste streams into value-added products, such as food, feed, bio-based products and bioenergy.

Working Group Meetings

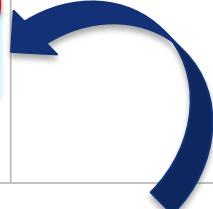
Canada, represented by Agriculture and Agri-Food Canada and Natural Resources Canada, hosted the working group meetings of the IBF in Ottawa from November 27-30, 2018. The program would not have been possible without the integral support of Global Affairs Canada, the Canadian Food Inspection Agency and the National Research Council of Canada.

144 representatives from countries and organizations



IICA es socio
observador
en el IBF

The Second IBF Plenary Meeting is scheduled for May 27-28, 2019 in Vancouver, British Columbia, Canada. Registration opens in April 2019



Instituto Interamericano de Cooperación
para la Agricultura
*La agricultura, prioridad para el desarrollo
sostenible de las Américas*



FOOD 2030 - Drivers



Research breakthroughs → ICT, Food systems science & transdisciplinarity



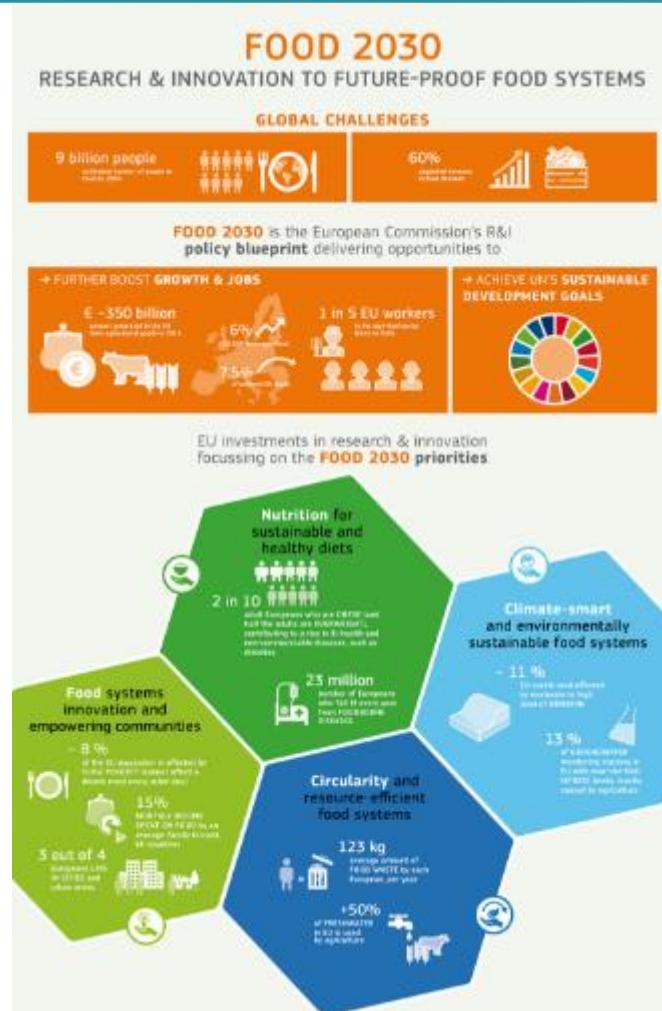
Innovation and Investment → Regional, Private sector collaboration, open innovation



Open Science-> Open access and data sharing; engagement, education & skills



International collaboration → Partnering with Member States, International Bio-economy Forum (IBF).



<http://ec.europa.eu/research/bioeconomy/index.cfm?pg=policy&lib=food2030>

Eventos relevantes...

Horizon 2020 Info Day on Societal Challenge 2 calls for proposals of 2020

Venue:

Brussels, Charlemagne building, Rue de la Loi 170, 1040, Bruxelles

Thursday, 4 July, 2019

Come and learn about the Societal Challenge 2 calls for 2020 and get some practical information on how to successfully apply to the open calls for proposals.

This event is organised together with the brokerage event organised on 3 July 2019 by the BIOHORIZON project. More information and registration are available [here](#).

This information day is an opportunity for attendees to get some insight into the Societal Challenge 2 calls for proposals of Horizon 2020, for the Work Programme of 2020, covering Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy.

This Info Day targets potential applicants of the calls for proposals published in the Societal Challenge 2 Work Programme for 2018- 2020.

Registration for the event is free of charge and compulsory. However, applications will be accepted on a first-come-first-served basis. Registration deadline: 9 June 2019. Travel and subsistence costs should be covered by the participants.

All sessions will be webstreamed and recorded, and presentations will be available online after the event.

The links to the webstreaming will be live on 4 July 2019 from 9:30 onwards.

Related Documents:

[Draft_agenda_Info_Day_2019_web.pdf](#)

See also: Research Executive Agency

Contact: Conference organisation team

<https://ec.europa.eu/programmes/horizon2020/en/news/horizon-2020-info-day-societal-challenge-2-calls-proposals-2020>

Energía

Societal Challenge 3 : Secure, clean and efficient energy

Presupuesto: 5.931 M€

Principales objetivos:

- La energía como el motor de la economía moderna. Por otra parte, se conscientes que el mantenimiento de nuestra calidad de vida supone un gran consumo energético.
- Pese a ser una de las mayores economías mundiales, Europa tiene una dependencia energética del resto del mundo.
- Europa se ha propuesta objetivos ambiciosos en términos energéticos y climáticos.

Contenidos SC-3 Energy 2020

- Reducir el consumo de energía y la huella de carbono mediante un uso inteligente y sostenible

- Lanzar al mercado general tecnologías y servicios que hagan posible un uso eficiente e inteligente de la energía
- Aprovechar el potencial de sistemas de calefacción y refrigeración eficaces y renovables
- Fomentar las ciudades y comunidades inteligentes en Europa

- Suministro de electricidad a bajo coste y de baja emisión de carbono

- El pleno desarrollo del potencial de la energía eólica
- El desarrollo de sistemas de energía solar eficientes, fiables y competitivos
- El desarrollo de tecnologías para la captura, transporte y almacenamiento de CO2 que sean seguras y no presenten riesgos para el medio ambiente
- El desarrollo de la energía geotérmica, hidrológica, marina y otras formas de energía renovable

- Combustibles alternativos y fuentes de energía móviles

- Lograr que la bioenergía sea competitiva y sostenible
- Reducir el plazo de comercialización de las tecnologías basadas en hidrógeno y pilas de combustible
- Nuevos combustibles alternativos

- Una red eléctrica europea única e inteligente

- Nuevos conocimientos y tecnologías

- Solidez en la toma de decisiones y compromiso público

- Absorción por el mercado de la innovación energética, capacitación de mercados y consumidores



Estructura Energy 2020

Building a Low-Carbon, Climate Resilient Future: Secure, Clean & Efficient Energy

ENERGY EFFICIENCY

GLOBAL LEADERSHIP IN RENEWABLES

SMART & CLEAN ENERGY FOR CONSUMERS

SMART CITIZEN-CENTRED ENERGY SYSTEM

SMART CITIES AND COMMUNITIES

ENABLING NEAR-ZERO CO₂ EMISSION FROM FOSIL FUEL POWER PLANTS AND CARBON INTENSIVE INDUSTRIES

JOINT ACTIONS AMONG COUNTRIES

CROSS-CUTTING ISSUES

Transforming the energy sector through digitisation

Other Actions

Colaboración con África en call-2020

Colaboración con USA, China, Middle East Countries, Japan, Canada, **Mission Innovation Countries & otros** en call-2020

Colaboración con **India** en call-2020

Colaboración con **China** en call-2020

Colaboración **África** call-2020



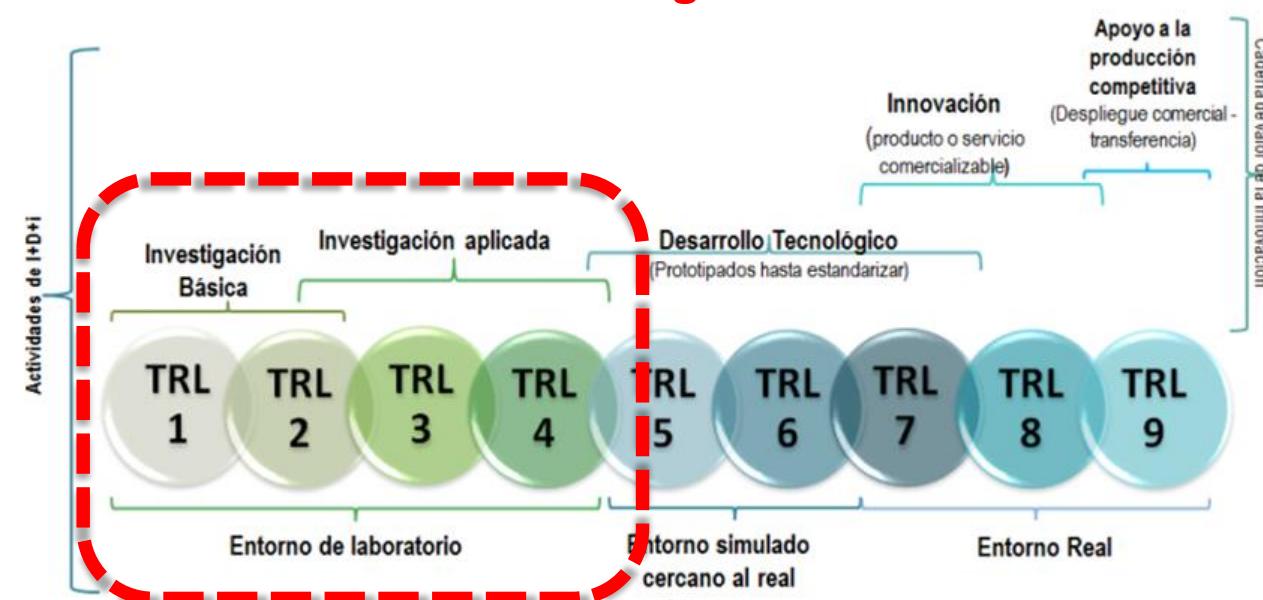
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Oportunidades en topics call-2020

LC-SC3-RES-1-2019-2020: Developing the next generation of renewable energy technologies

RIA of 2-4 M€ (total 45 M€) for developing innovative renewable energy technologies **upto the level TRL 3-4.**

Due to the pre-competitive nature of the research activities of this type, particular emphasis is put on **including international cooperation opportunities** whenever relevant to the proposal and the domain, **in particular in the context of the Mission Innovation Challenges.**



Opening: 02-Dic-2019
Deadline: 21-Apr-2020

DRAFT

Oportunidades en topics call-2020

LC-SC3-RES-37-2020: Combined clean biofuel production and phytoremediation solutions from contaminated lands worldwide

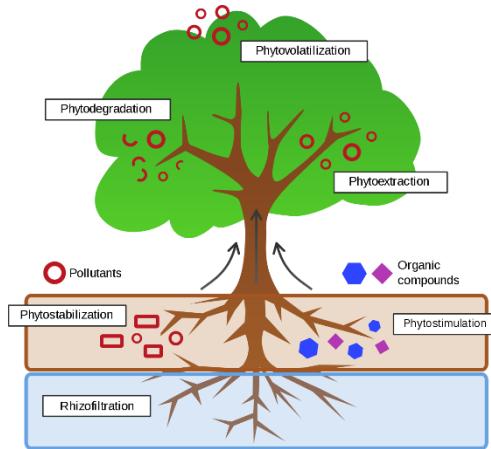
RIA of 2-4 M€ (total 6 M€) for developing innovative technologies from TRL 3-4 to TRL 4-5 that would allow to bridge the gap between phytoremediation strategies and clean liquid biofuel production.

They will optimise energy crops for phytoremediation by targeting different classes of known **soil pollutants** and integrate in the conversion process to biofuels a strategy to extract these pollutants in concentrated form.

This clean biofuel production should be done in a sustainable and optimum manner to overcome the indirect land use change (iLUC) issue for biofuels and **restore lands for agricultural uses**.

International cooperation is encouraged.

The proposed solution will contribute towards the Mission Innovation Challenge - IC4 on Sustainable Biofuels.



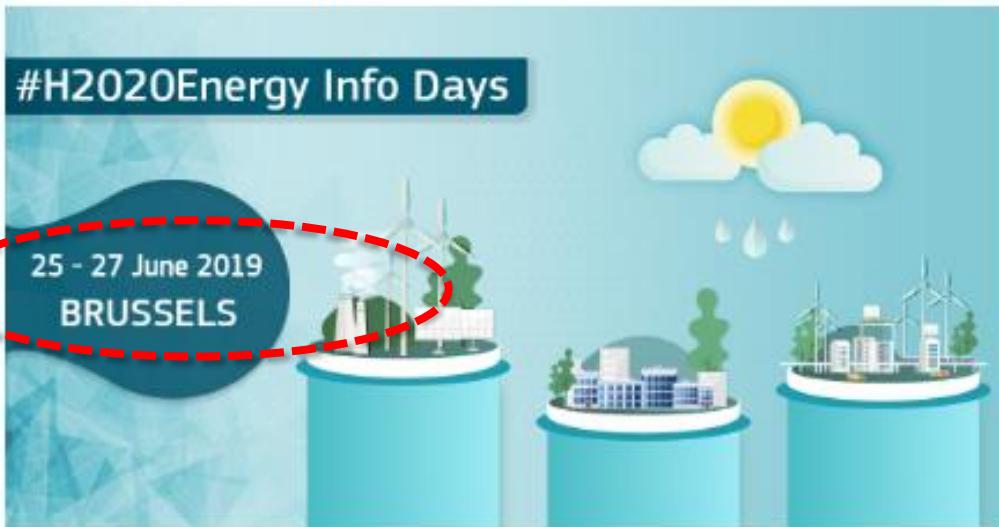
Opening: 02-Dic-2019

Deadline: 21-Apr-2020

Eventos relevantes...

Horizon 2020 Energy Info Days

Tuesday, June 25, 2019 - 09:30



The Horizon 2020 Energy info days will take place on 25-26-27 June in Brussels. They will present the funding opportunities for research, innovation and market uptake projects on clean energy.

The event will help potential applicants in preparing successful proposals for Horizon 2020 calls for the year 2020.

Registrations

[Registrations are open.](#)

Please click here to register.

Brokerage event

A brokerage event, organised by the Horizon 2020 Energy National Contact Point, will complement the Info Days and give you the opportunity to network and look for partners to further develop your project.

#H2020Energy Info Days
Brokerage Event
25 - 27 June 2019
BRUSSELS

25 Jun 2019 - 27 Jun 2019
Brussels, Belgium
Energy Call 2020 Brokerage Event

Webstreaming

All sessions will be webstreamed and recordings will be made available after the event.

Transporte

Societal Challenge 4 : Smart, green and integrated transport

Presupuesto: 6.339 M€

Principales objetivos:

- Transporte que sirva para promocionar el empleo, el desarrollo económico, el bienestar y el comercio mundial
- Aumento de las comunicaciones entre personas y comunidades
- Reducción de la dependencia de combustibles fósiles
- Reducción de las congestions de tráfico y de la polución del aire, seguridad en carretera, así como la influencia en la salud y la calidad de vida
- Creación de Sistemas de transporte sostenible y adaptado a una Europa moderna y competitiva

Contenidos SC-4 Transport 2020

- **Un transporte eficiente en el uso de los recursos y que respeta el medio ambiente**

- Lograr que aviones, vehículos y barcos sean más limpios y silenciosos mejorará el impacto ambiental y reducirá la vibración y el ruido percibidos
- Desarrollar equipamientos, infraestructuras y servicios inteligentes
- Mejora del transporte y la movilidad en las zonas urbanas

- **Mejor movilidad, menor congestión, mayor seguridad**

- Una disminución sustancial de la congestión del tráfico
- Mejoras sustanciales de la movilidad de personas y mercancías
- Desarrollo y aplicación de nuevos conceptos de transporte de mercancías y logística
- Reducción de las tasas de accidentes y el número de víctimas mortales y mejora de la seguridad

- **Liderazgo mundial para la industria europea del transporte**

- Desarrollo de la próxima generación de medios de transporte para garantizar la cuota de mercado en el futuro
- Sistemas inteligentes de control a bordo
- Procesos de producción avanzados
- Exploración de conceptos de transporte completamente nuevos

- **Investigación socioeconómica y actividades de prospectiva para la formulación de políticas**



European
Commission

Estructura Transport 2020

Mobility for Growth

Low Carbon Sustainable Transport

Safe, Intergrated & Resilient Transport Systems

Global Lidership & Competitiveness

Accounting for people

Blue Growth

Digitalizing & Transforming EU Industry & Services:
Automated Road Transport

Building a Low Carbon Resilient Future: Green Vehicle

Colaboración con partners
de Asia, Latinoamérica &
Africa en call-2020.

Colaboración con Rusia,
USA, Japón, Canadá,
Brasil, Australia & South
Africa en call-2020

Colaboración con
Neighbouring countries
of the EU, Canada, Japan
& USA en call-2020

Colaboración Non-EU
megacities en call-2020 → Lima



Colaboración con US,
Japan, South Korea,
Singapore y/o Australia
en call-2020. También
twinning con Japón.

DRAFT

Oportunidades en topics call-2020

MG-3-6-2020: Towards sustainable urban air mobility (UAM)

Opening: 03-Dic-2019

Deadline: 21-Apr-2020

RIAs of 4-6 M€ (total 15 M€) for developing upto TRL 6 novel concepts, technologies and solutions beyond the state-of-the-art in all these 3 areas related to UAM:

- A. Safety and security: particularly when operating over populated areas [...]
- B. Sustainability with regard to the overall environmental footprint (e.g. energy demand; local emissions and global greenhouse gas emissions); as well noise and visual pollution [...].
- C. Public acceptance, socio-economic modelling and relevant regulatory and organisational aspects of urban air mobility systems [...]

Boeing tests NeXt flying car prototype to advance urban air mobility

Chief Assignment Editor · January 23, 2019 22:30



Ad closed by Google

[Stop seeing this ad](#)

Boeing yesterday successfully completed the first test flight of its autonomous passenger air vehicle (PAV) prototype in Manassas, Virginia. Boeing NeXt, which leads the

DRAFT

Oportunidades en topics call-2020

MG-3-6-2020: Towards sustainable urban air mobility (UAM)

Opening: 03-Dic-2019

Deadline: 21-Apr-2020

And to address one or more of the following research areas:

- D.** Services: new door-to-door or emergency services concepts [...]
- E.** Operations: new concepts of operations allowing UAM traffic to link with the multi-modal urban transport or emergency systems (i.e., ambulances),...
- F.** Power-plant/propulsion system development for safe, economic and environmentally friendly UAM.
- G.** Infrastructure adaptation, evolution and integration into transport, energy, ICT networks...

Applications → Air medical emergencies, for safety & security services, for logistics...

Skyports and Volocopter join forces on Urban Air Mobility infrastructure

First Air Taxi Volo-Port to be Built by End of 2019

By Urban Transport News - 23/05/2019

165

Me gusta 3

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International cooperation is encouraged in cases of mutual benefit, such as sharing of practices with early adopters of urban air mobility in non-European megacities. → Lima es una de las 47 megaciudades No-EU.



DRAFT

Oportunidades en topics call-2020

LC-GV-09-2020: Setting up a common European research and innovation strategy for the future of road transport

Opening: 03-Dic-2019
Deadline: 21-Apr-2020

CSA of 0,8-1 M€ (total 1 M€) for building up a comprehensive approach ranging from components up to system integration, and include enabling technologies where relevant. The strategy should include passenger mobility and freight transport, urban mobility as well as inter-urban and long-distance transport. It should:

- ✓ Updating of research agendas and roadmaps developed by the European Technology Platform ERTRAC (European Road Transport Research Advisory Council)...
- ✓ Facilitating cooperation between cities in Europe, Asia, Latin America and Africa.
- ✓ Liaise with international financing institutions to foster the take-up and implementation of the concepts developed (EC, UN, ...).

International cooperation in research and innovation, international cooperation is encouraged with key emerging countries, in particular with Asia, Latin America and Africa.

Actores relevantes...

Welcome

What is ERTRAC?

Documents/
Publications

National Technology
Platforms

Working Groups

Support Actions

European Research
Funding

You are here: Welcome

Welcome to ERTRAC!

ERTRAC is the European Road Transport Research Advisory Council. It is the European technology platform which brings together road transport stakeholders to develop a common vision for road transport research in Europe.



Presentaciones disponibles!

https://www.ertrac.org/index.php?mact=CGCalendar,cntnt01,default,0&cntnt01event_id=87&cntnt01display=event&cntnt01returnid=91



Events

ERTRAC Annual Conference 2019

4 April 2019 to 2019

ERTRAC Annual Conference 2019
Road Transport Research towards
"Horizon Europe"

#ERTRAC2019

When: 4 April 2019

Where: L'Arsenal, 950 Chaussée de Wavre, 1040 Brussels

The conference will be dedicated to the preparation of the 9th Research Framework Programme "Horizon Europe": which place for Road Transport Research and which key research challenges?

Three new Roadmaps will be presented and distributed: on "Connected Automated Driving", on "Road Safety", and on "Long Distance Freight Transport". The event will include an exhibition showcasing some examples of innovation in the automotive and mobility sector.

PROGRAMME

09:15-10:00 Welcome coffee and visit of exhibition

10:00 Introductory Session: which place for Road Transport Research in Horizon Europe?

- Stephan Neugebauer, ERTRAC Chairman, BMW Group, Director Global Research Cooperation
- Markus Ferber, Member of the European Parliament
- Clara de la Torre, European Commission, DG Research and Innovation, Director Transport Research

Eventos relevantes...



The network of the Horizon 2020 National Contact Points for 'Smart, Green and Integrated Transport'

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training](#)

[Toolbox](#)

[Funding Map
Database](#)

[NCP
Twinning](#)

[FP Analysis
Tool](#)

SAVE THE DATE: Infoday call-2020 del SC-4 el 07-Oct-2019 en Bruselas
Organizadores: EC y la red de NCPs de transporte ETNA

<https://www.transport-ncps.net/>

Eventos relevantes...

[Venue Information](#)[Call for Demonstrations](#)[Call for Submissions](#)[Become a Partner](#)[Call for Invited Sessions](#)[OVERVIEW](#)[NEWS](#)[CONTACTS](#)A promotional banner for the TRA 2020 HELSINKI conference. The background is a blurred image of colorful lights and bokeh. On the left, there's a large red swoosh shape. In the center, a white circle contains text about the call for submissions deadline being extended. The text is as follows:

Rethinking transport
27–30 April 2020

Call for Submissions
deadline extended!

Submit your paper by 31.5.2019!
[More information](#)

Medioambiente

Societal Challenge 5 : Climate action, environment resource efficiency and raw materials

Presupuesto: 3.081 M€

Principales objetivos:

- Asegurar el acceso a materias primas y agua limpia
- Protección de la biodiversidad y los ecosistemas
- Investigar soluciones innovadoras en apoyo a la "green economy" acorde con el medio ambiente
- Tratar el cambio climático como una prioridad multidisciplinar (35% del presupuesto del programa)
- Gestión del agua y los residuos

Contenidos SC- 5 Environment 2020

• Lucha contra el cambio climático y adaptación al mismo

- Mejorar la comprensión del cambio climático y la elaboración de proyecciones climáticas fiables.
- Evaluar los impactos y puntos vulnerables y elaborar medidas de adaptación y prevención de riesgos innovadoras y rentables
- Apoyar las políticas de atenuación

• Gestión sostenible de los recursos naturales y los ecosistemas

- Profundizar en nuestra comprensión del funcionamiento de los ecosistemas, de cómo interactúan con los sistemas sociales y el papel que desempeñan en el sostenimiento de la economía y el bienestar humano
- Proporcionar conocimientos y herramientas que propicien una toma de decisiones eficaz y un compromiso público

• Garantía de un abastecimiento sostenible de materias primas no agrícolas y no energéticas

- Mejorar la base de conocimiento sobre la disponibilidad de materias primas
- Promover el suministro y uso sostenibles de las materias primas que abarque la exploración, la extracción, la transformación, el reciclaje y la recuperación
- Buscar alternativas a las materias primas esenciales
- Mejorar la concienciación social y las competencias en relación con las materias primas

• Transición hacia una economía «verde» a través de la ecoinnovación

- Reforzar las tecnologías, los procesos, los servicios y los productos ecoinnovadores y potenciar su absorción por el mercado
- Apoyar las políticas innovadoras y los cambios sociales
- Medir y evaluar el progreso hacia una economía verde
- Fomentar la eficiencia en el uso de los recursos por medio de sistemas digitales

• Desarrollo de sistemas completos y duraderos de observación e información sobre el medio ambiente mundial



Building a low carbon, climate resilient future: Climate Action in Support to Paris Agreement

Greening the economy in line with the Sustainable Development Goals

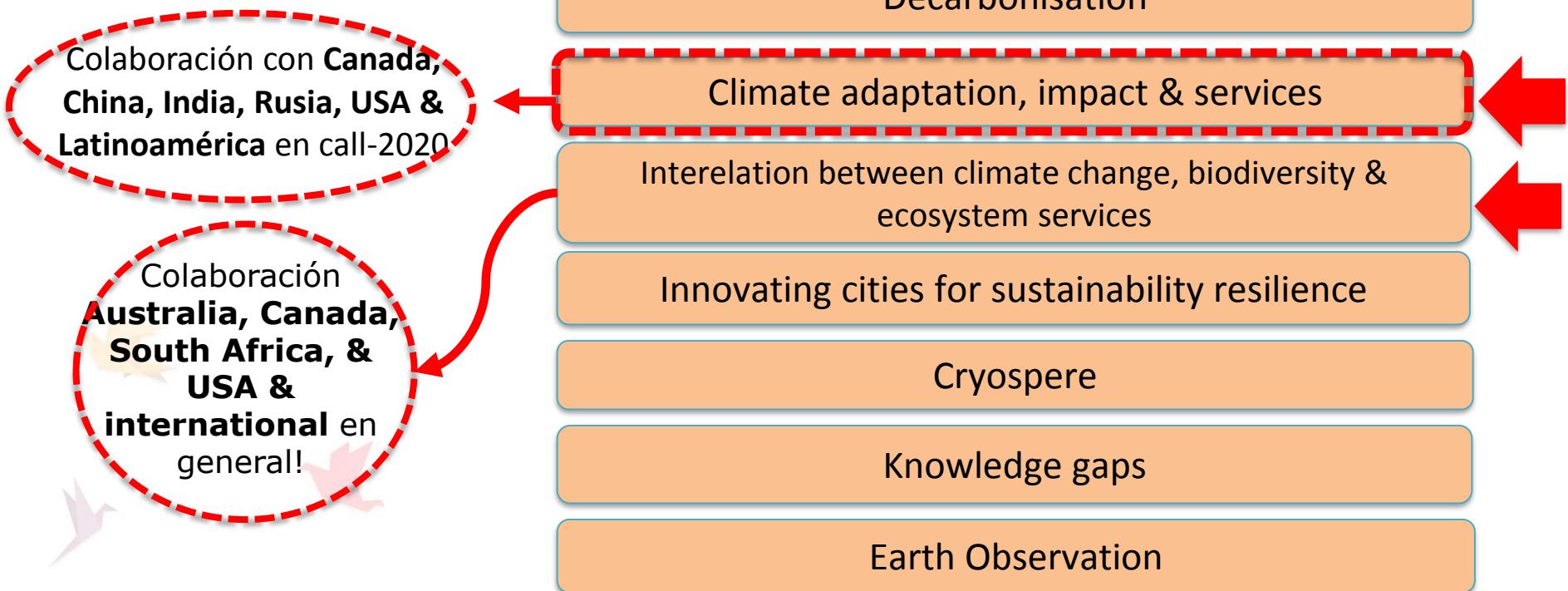
Other Actions



Estructura Environment 2020



Building a low carbon, climate resilient future: Climate Action in Support to Paris Agreement



Estructura Environment 2020



Greening the economy in line with the Sustainable Development Goals

Connecting economic & environmental gains – Circular Economy

Raw Materials

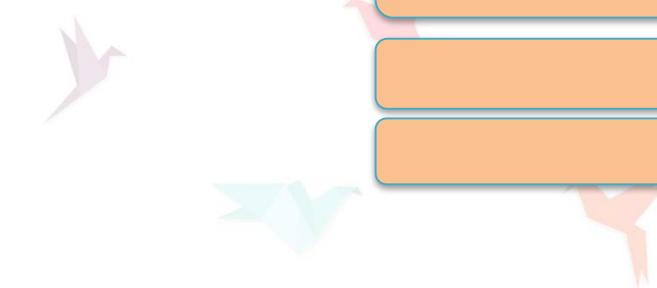
Water for our environment

Innovating cities for sustainability resilience

Protecting & leveraging the value of our natural & cultural assets
– Earth Observation

Nature Based Solutions

Heritage alive



Colaboración
international en
general!



DRAFT

Oportunidades en topics call-2020

Topic	Title	Description of collaboration
LC-CLA-23-2020	European mountain regions research policy supporting action	Cooperation is encouraged with partners from third countries , such as Canada, China, India, Russia, United States, and Latin American countries.
LC-CLA-14-2020	Understanding climate-water-energy-food nexus and streamlining water-related policies	In line with the strategy for EU international cooperation in research and innovation (COM(2012)497), international cooperation is encouraged .
LC-CLA-15-2020	Forest Fires risk reduction: towards an integrated fire management approach in the E.U.	Collaboration with leading research institutions with experience in extreme wildfires management such as in Australia, Canada, South Africa, the United States and other non-EU countries is highly encouraged .
CE-SC5-07-2020	Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes	International cooperation is encouraged .
SC5-27-2020	Strengthening international collaboration: Enhanced natural treatment solutions for water security and ecological quality in cities	In line with the strategy for EU international cooperation in research and innovation (COM(2012)497), international cooperation is strongly encouraged .



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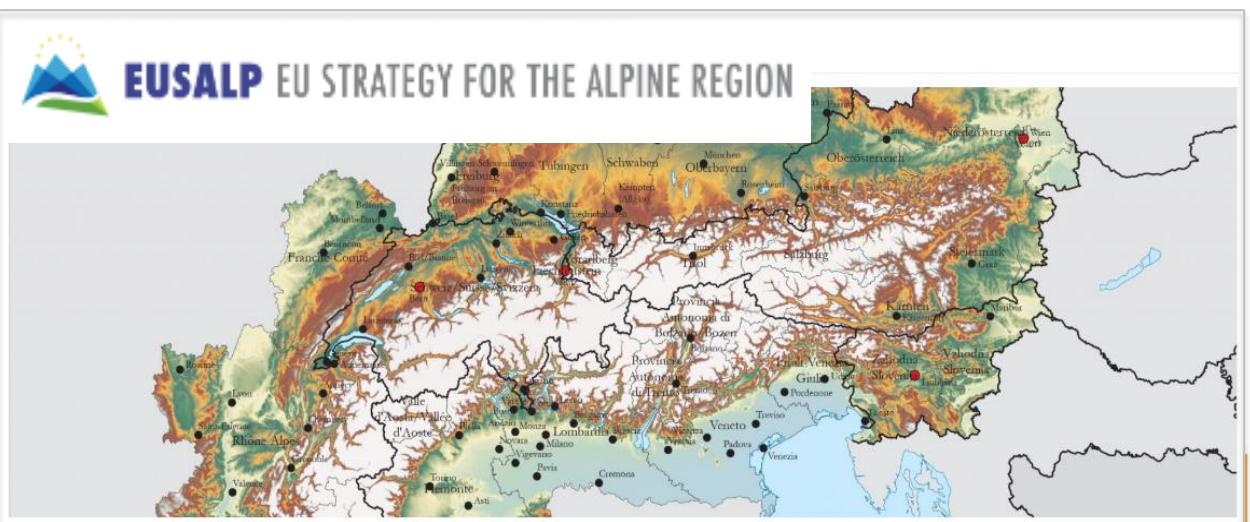
Oportunidades en topics call-2020

LC-CLA-23-2020: Towards a comprehensive European mountain research strategy

CSA of 1,5M€ for coordinating and supporting mountain regions research in Europe and develop a comprehensive European Mountain Research Strategy building on existing European activities. [...] Dialogue with international research organisations and programmes related to mountain regions research (e.g. WMO, ESA, GEO, NEMOR and JPI 'Climate') as well as with relevant operational services including Copernicus is required.

International cooperation is encouraged, in particular with countries such as Canada, China, India, Russia, United States, and Latin American countries.

Opening: 12-Nov-2019
Deadline: 13-Feb-2020



DRAFT

Oportunidades en topics call-2020

LC-CLA-14-2020: Understanding climate-water-energy-food nexus and streamlining water-related policies

RIAs of 4-5 M€ (total 13M€) for developing **until TRL 5** and testing innovative solutions, improved operations and integrated management and planning for achieving water, energy and food security and safety within the planetary boundaries and resolve conflicts between upstream and downstream water users and citizens. [...]

Case studies over different geographical regions and challenges to facilitate tailored analyses and test the developed solutions should be considered.

ATTENTION:

- ✓ Participation of a broad range of different stakeholders around water, energy and food security strategies, including policy makers is essential.
- ✓ **International cooperation in R&I (COM(2012)497 is encouraged.** → Objective of strengthening EU role in international water issues, and become a leading actor on **water diplomacy**.

Opening: 12-Nov-2019

Deadlines: 1st-stage 13-Feb-2020 & 2nd-stage 03-Sep-2020



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Oportunidades en topics call-2020

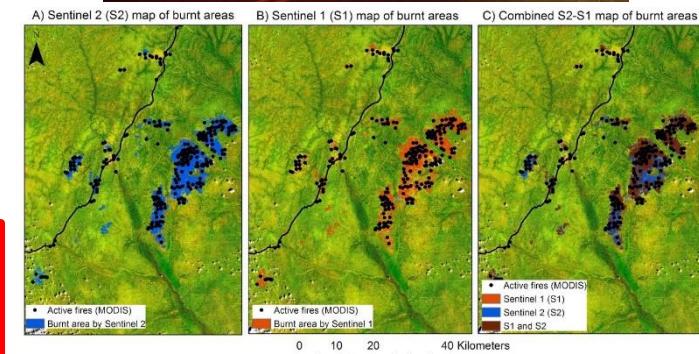
LC-CLA-15-2020: Forest Fires risk reduction: towards an integrated fire management approach in the E.U.

RIA of 10 M€ (total 10M€) for generating the knowledge, tools, capacity and guidance to underpin an Integrated Fire Management strategy that promotes holistic landscape, land use, and forest management and considers the interaction among all phases of the wildfire management process (i.e. fire prevention and preparedness, fire detection and response, post-fire restoration and adaptation). [...]

Assess fire regimes under various climate, vegetation and land use change scenarios, including settlement/housing development/infrastructure and rural-urban interface [...] → Development of land management strategies through involving local communities in the design and planning of innovative fire prevention measures.

ATTENTION:

- ✓ Connexion con el SC-7 Secure Societies – Disaster Mangement & Resilience.
- ✓ **Collaboration with leading research institutions with experience in extreme wildfires management** such as in Australia, Canada, South Africa, the USA and **other non-EU countries** is highly encouraged.



Opening: 12-Nov-2019

Deadlines: 1st-stage 13-Feb-2020 & 2nd-stage 03-Sep-2020

Oportunidades en topics call-2020

CE-SC5-07-2020: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

IAs of 8-13 M€ (total 40M€) for developing and demonstrating innovative pilots for the clean and sustainable production of non-energy, non-agricultural raw materials in the EU from primary and/or secondary sources **finishing at TRL 6-7.**

[...]

All actions should facilitate the market uptake of solutions developed through industrially- and **user-driven multidisciplinary consortia covering the relevant value chain** and should consider standardisation aspects when relevant.

All actions should justify the relevance of selected **pilot demonstrations in different locations within the EU (and also outside if there is a clear added value for the EU economy, industry and society).**

ATTENTION:

- ✓ Coordination with the European Innovation Partnership (EIP) on Raw Materials.
- ✓ Proposal should focus **ONLY** in one of the sub-topics indicated.
- ✓ **EU international cooperation in R&I (COM(2012)497) is encouraged.**

Opening: 27-Jun-2019

Deadlines:

1st-stage 05-Feb-2020

2nd-stage 03-Sep-2020

CE-SC5-07-2020: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

ONLY Sub-topic to apply from:

- a) **Sustainable processing and refining of primary and/or secondary raw materials** → [...] processing and refining technologies for better recovery of minerals and metals and reducing wastes.
- b) **Recycling of raw materials from end-of-life products** → [...] higher recycling and recovery of secondary raw materials from end-of-life products such as waste electrical and electronic equipment (WEEE), batteries, wood-based panels, multi-material paper packaging, end-of-life tyres, etc.
- c) **Recycling of raw materials from buildings and infrastructures** → pre-demolition audit, smart demolition practices, using appropriate technical equipment, and sorting/processing and quality management of waste fractions such as metals, aggregates, concrete, bricks, plasterboard, glass, polymers and plastics and wood.
- d) **Advanced sorting systems for high-performance recycling of complex end-of-life products**
- e) **Sustainable metallurgical processes** → [...] innovative metallurgical systems integrating pyro-, hydro-, bio-, and/or electro-metallurgical and/or electrochemical technologies.

DRAFT

Oportunidades en topics call-2020

SC5-27-2020: Strengthening international collaboration: enhanced natural treatment solutions for water security and ecological quality in cities

RIAs of 5 M€ (total 10M€) for identifying and reviewing examples of innovative natural water treatment systems **in Europe and beyond** to develop understanding of their functioning, the ecological processes involved and their capacity and performance in treating pollution under diverse and uncertain conditions, such as maximum/minimum loads, uncertainties on composition of the pollution entering the system, necessary time for the treatment, capacity to cope with temporal variation in rainfall, etc. → To increase the use of innovative natural water treatment measures as **Nature-based solutions into the overall urban water cycle.**

ATTENTION:

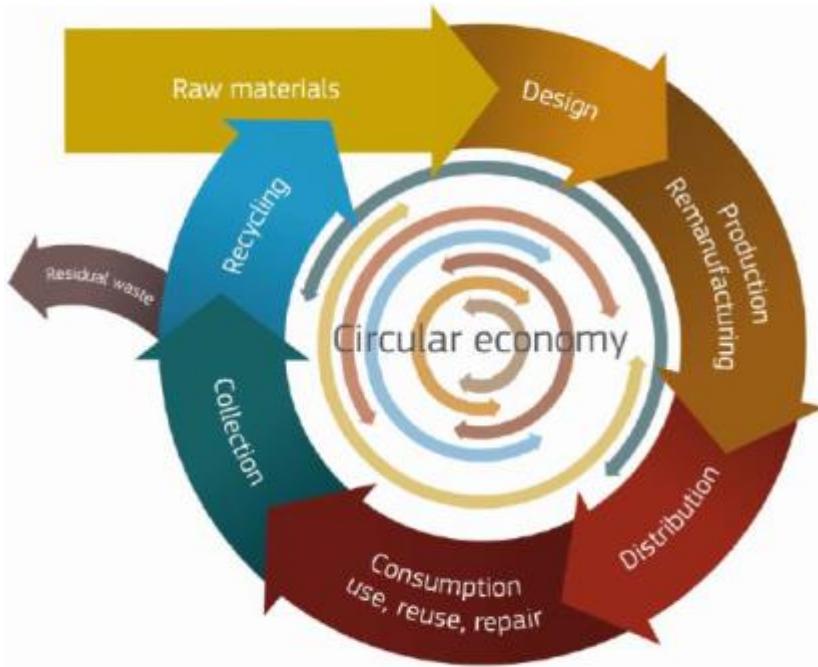
- ✓ Pilot actions/demonstrations must be implemented **in at least 3 cities situated in different Member States or Associated Countries.**
- ✓ **EU international cooperation in R&I (COM(2012)497) is encouraged. International participants should explore the possibility to apply for co-funding under their governments.**

Opening: 12-Nov-2019

Deadlines: 1st-stage 13-Feb-2020 & 2nd-stage 03-Sep-2020



Algunos conceptos...



“Economía Circular”, qué significa...

[Circular Economy....it's the way forward](#)

A Circular Economy that implies a fully systemic change, and innovation not only in technologies, but also in organization, society, finance and policies.

Systemic Eco-Innovation:

- demonstrating the economic and environmental feasibility of the circular economy
- supporting systemic innovation to obtain a systems-wide transformation
- reorganising production & consumption to maintain or enhance the value of products, components, materials and resources throughout the value chain and the life of the products
- decoupling creation of wealth and jobs from resource consumption

Algunos conceptos...

**“Economía Circular”,
qué significa...**

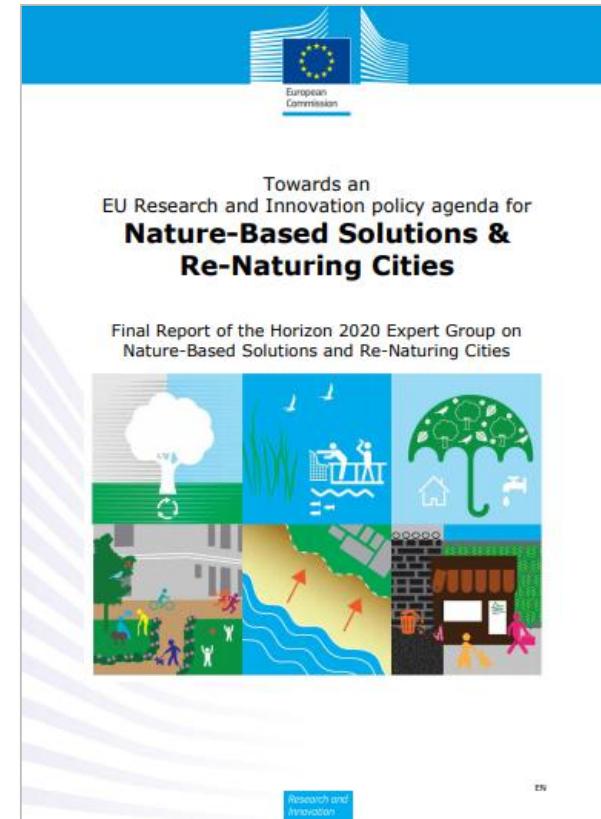
The screenshot shows the European Commission's website for the Internal Market, Industry, Entrepreneurship and SMEs (GROWTH) department. The main navigation bar includes links for Single Market and Standards, Industry (which is highlighted in red), Entrepreneurship and SMEs, Access to finance for SMEs, and Sectors. A sidebar on the left is titled "Circular economy" and contains links for News, Events, Tools and Databases, Contracts and grants, Public consultations, and Publications. The main content area features a heading "Circular economy" and a text block explaining the EU's package to support the transition to a circular economy, emphasizing that waste should be used again before reaching the end of its life.

http://ec.europa.eu/growth/industry/circular-economy/index_en.htm

The screenshot shows the European Commission's Environment website. The main navigation bar includes Home, About us, Policies (with a dropdown menu), Funding (with a dropdown menu), and Legal compliance (with a dropdown menu). A "Highlight" section features a collage of images related to recycling and waste management, with the hashtag #CircularEconomy overlaid. To the right, a news item titled "Circular Economy package adopted" is displayed, stating that the Commission adopted an ambitious new Circular Economy Package to stimulate Europe's transition towards a circular economy, which will boost global competitiveness, foster sustainable growth and generate new jobs. A link to the "Circular Economy website" is provided at the bottom.

Definición de “Nature-based solutions”...

- ✓ **Nature-based solutions** (green and blue infrastructure, green roofs and vertical walls, natural water retention measures, salt marshes and dunes, floodplains, etc.)
- ✓ Multi-purpose, multi-functional and multi-beneficial, **inspired and supported by nature**
- ✓ **Use the properties and functions of ecosystems** to provide ecosystem services (water regulation, flood risk protection, climate change adaptation, etc) → **“living solutions”**
- ✓ Are designed to bring **more nature and natural features and processes into cities, landscapes and seascapes, through systemic interventions**



Algunos conceptos...

Además...

- ✓ Se trata de **evidenciar** los **beneficios** (en todos los ámbitos) y **eficacia** de las NBS.
- ✓ Deben ser **co-diseñadas**, **co-implementadas**, **sistémicas**, basadas en **demostraciones** a gran escala y que puedan **replicarse y escalarse**, ('*living labs*')
- ✓ Objetivo: Crear un **mercado para las NBS** (oferta y demanda, modelos de negocio, inversores)
- ✓ Creación de una plataforma de **todas** las partes interesadas ('*stakeholders*'')
- ✓ Promover la cooperación internacional



Algunos conceptos...

Ejemplos...

e.g: *ecosystems restoration*



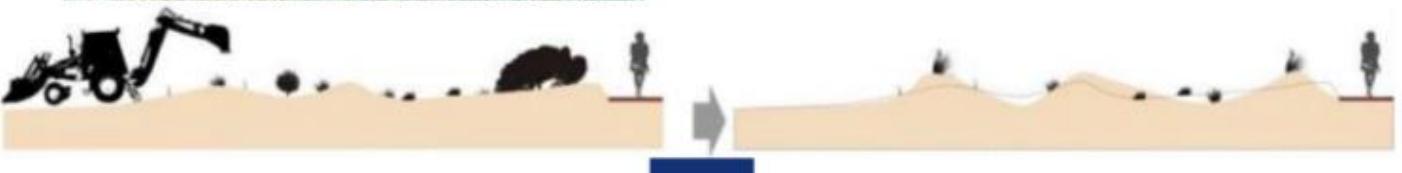
Urban dunes in Barcelona, ES:

challenge: storm protection and urban/peri-urban recreation
solutions: dune restoration



Co-benefits:

- Beach sediment plant mosaics
- Biodiversity
- Coastal protection
- Hydrologic cycle
- Recreation/tourism



Algunos conceptos...

Ejemplos...

e.g. renaturing cities

 European
Commission

City of Vitorio-Gasteiz, ES

challenge: restore degraded areas; sustainable city

solution: concentric circles of green areas; green belt of parks; green buildings; road tunnels



Co-benefits:

- entire population lives within 300m of an open green space
- better air quality
- diminished heat island effect
- increased biodiversity
- educational purpose: the community gardens

Algunos conceptos...

The European Innovation Partnership (EIP) on Raw Materials

The European Innovation Partnership on Raw Materials is a stakeholder platform that brings together representatives from industry, public services, academia and NGOs. Its mission is to provide high-level guidance to the European Commission, Members States and private actors on innovation to the challenges related to raw materials.

The EIP plays a central role in the EU's raw materials policy framework:

- It reinforces the [Raw Materials Initiative](#) by translating the strategic framework into concrete actions and by mobilising the stakeholder community to implement them;
- It has been instrumental in **securing R&I funding**: while Framework Programme 7 (the R&I funding tool for the period 2007-2013) only included approximately €180 million for raw materials R&I, [Horizon 2020](#) (the R&I funding tool for 2014-2020) reserved **€600 million** for research on the challenges related to raw materials.

The [European Innovation Partnerships](#) (EIPs) are a new approach to EU research and innovation. By bringing together actors from the entire research and innovation value chain they aim at streamlining efforts and accelerating market take-up of innovations that address key challenges for Europe.

The EIP on Raw Materials' aim is to help raise industry's contribution to the EU GDP to around 20% by 2020. It will also play an important role in meeting the objectives of the European Commission flagship initiatives '[Innovation Union](#)' and '[Resource Efficient Europe](#)'. It will do this by ensuring the sustainable supply of raw materials to the European economy whilst increasing benefits for society as a whole.



Raw Materials week 2019
18-22 Nov 2019

Eventos relevantes...

Water Innovation Europe 2019, 12-13 of June
– Brussels, Belgium

12 JUNE 2019



Water Innovation Europe Background

With over 200 participants from all around Europe in every edition, WssTP annual conference 'Water Innovation Europe' has grown to become the landmark event of the European water sector every summer. The event brings together all the aspects of the sector: scientists and technology developers, utility representatives, large water users, European and national/ regional policy makers and finance experts. Water Innovation Europe offers an open platform for information gathering and networking among the most influential stakeholders from within and beyond the water sector.

Further information will be published soon on WssTP main website.



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POLICY AND FUNDING

EVENTS

MEDIA

ABOUT US



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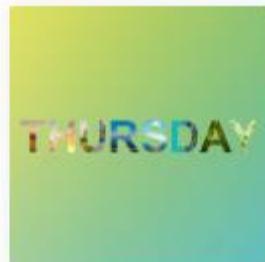
European
Commission

Eventos relevantes...



The image shows the homepage of the EU Green Week website. At the top left is the European Commission logo. To its right, the text "EU GREEN WEEK" is displayed above a navigation bar with links: STAKEHOLDERS, CITIZENS, WEEK'S OVERVIEW, BRUSSELS CONFERENCE, PARTNER EVENTS, and ASSOCIATES. On the far right of the header, the text "BRUSSELS CONFERENCE" is shown above the date "15-17 May 2019". A red dashed circle highlights the date, and a red arrow points from it down to a callout box.

What did we do at EU Green Week?

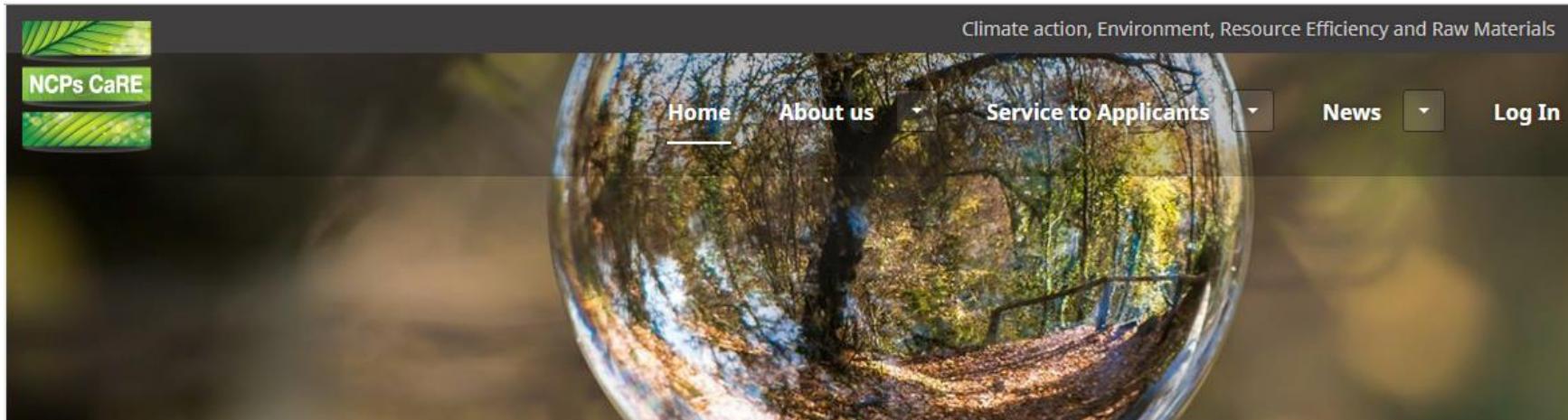


Presentaciones y videos de sesiones disponibles!

<https://www.eugreenweek.eu/en/brussels-conference>

Eventos relevantes...

<http://www.ncps-care.eu>



SAVE THE DATE:
SC-5 Infoday 16-17
Sept-2019
(TBC)

The Finnish Presidency Event: European Days for Sustainable Circular Economy

Posted on 30th September 2019 by Matteo Di Rosa

The aim of the European Days for Sustainable Circular Economy event is to promote a low-carbon, climate resilient circular economy. This flagship event will be held 30 September-1 October in Helsinki in connection with Finland's Presidency of the Council of the European Union. The event will consist of three parallel conferences:

- **CE 2019 Conference** – Sustainable transition to a low-carbon, climate resilient circular economy: creating the knowledge base
- **Manufuture 2019 Conference** – Sustainable and Smart Manufacturing
- **SI 2019 Conference** – Sustainable innovation

Ciencias Sociales y Humanidades

Societal Challenge 6 : Europe in a changing world - Inclusive innovative & reflective societies

Presupuesto: 1.309 M€

Principales objetivos:

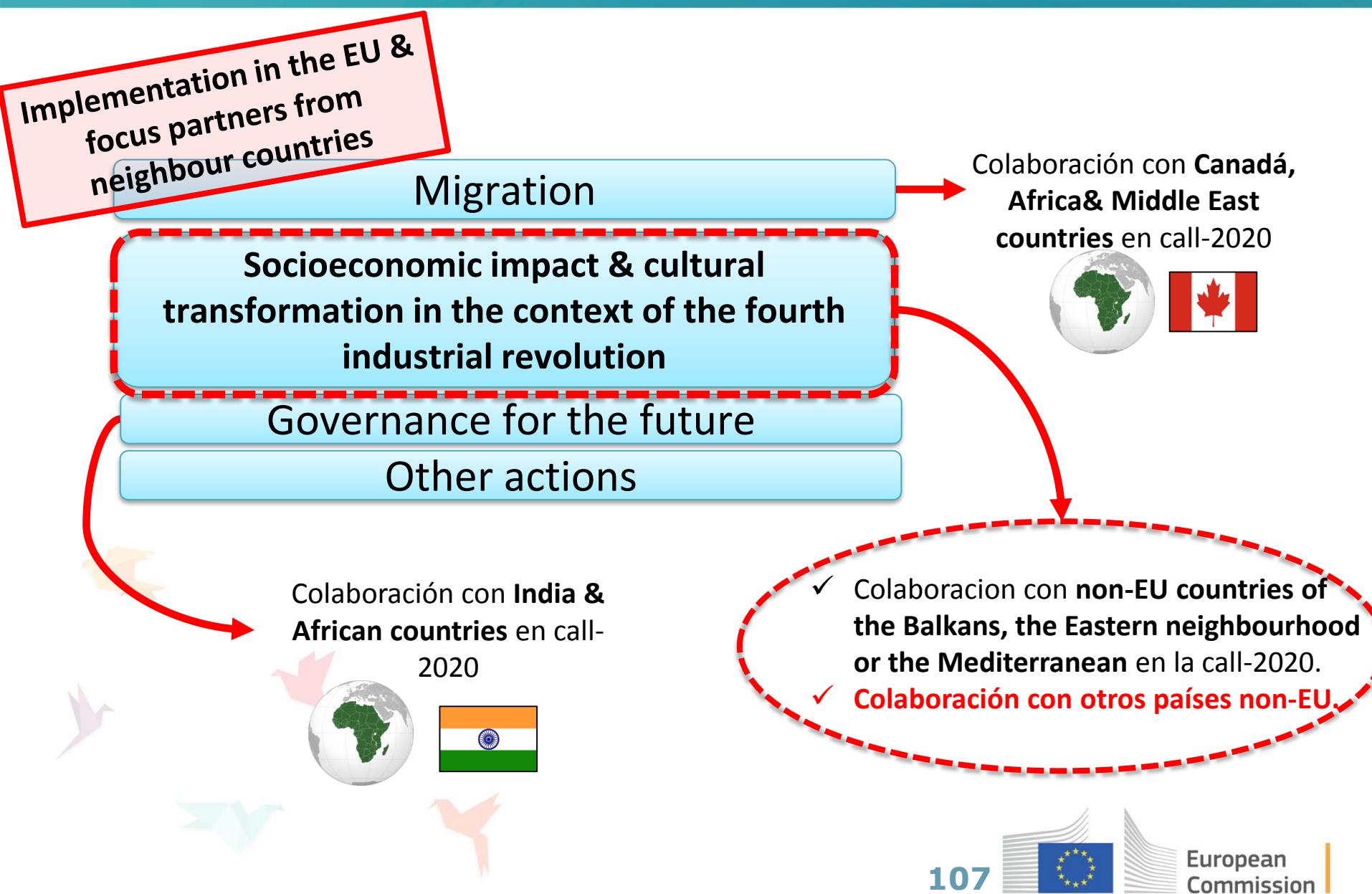
- Reducir las desigualdades, promover la justicia social y proponer soluciones para la adaptación de modelos de gobernanza acordes
- Identificar fuentes de crecimiento y apoyo en nuevas formas de innovación (p.e., open innovation, innovation of business models, public sector innovation, social innovation) que permitan cubrir diferentes necesidades sociales
- Apoyar la investigación e innovación en cuanto a patrimonio, identidad y culturas europeas
- Reforzar las capacidades de Europa para desarrollar y mejorar su acción externa y la cooperación internacional
- Temas relevantes son la migración, las transformaciones en la Industry 4.0 context, modelos de gobernanza futuros....

Contenidos SC-6 Reflective Societies 2020

- Promover un crecimiento inteligente, sostenible e integrador
- Construir una sociedad europea basada en la integración y con capacidad de recuperación
- Reforzar la participación europea en la escena mundial
- Cerrar la brecha de la investigación e innovación en Europa
- Reforzar la base de evidencia y el apoyo a la «Unión por la Innovación» y el Espacio Europeo de Investigación
- Explorar nuevas formas de innovación, incluyendo la innovación social y la creatividad
- Mantener el compromiso social con la investigación y la innovación
- Promover una cooperación coherente y eficaz con terceros países



Estructura Reflective Societies 2020



DRAFT

Oportunidades en topics call-2020

TRANSFORMATIONS-18-2020: Technological transformations, skills and globalization - future challenges for shared prosperity

RIA of 3 M€ (total 9M€) for measuring the impact of technological progress, trade and globalisation on skills, employment, inequalities in income and wages and on labour mobility and migration in the EU. Also, interactions between technological change and globalisation and how it will transform the current EU and international structure of labour markets and trade in commodities and services in existing and emerging sectors and their impact on income distribution and social inequalities.

[...]

Due to the specific challenge of this topic, **participation of relevant partners from third countries**, including developed, emerging and developing countries, **is encouraged**. This participation would enable a balanced discussion on competing points of view that are critical for the impact of the project.

Opening: 03-Nov-2019

Deadlines: 12-Mar-2020



Eventos relevantes...

<http://www.net4society.eu>



SAVE THE DATE:
SC-6 Infoday & brokerage
12-Nov-2019, Bratislava



Save the date: Societal Challenge 6 Brokerage Event 2019

This year's Societal Challenge 6 Brokerage Event & Proposal Check, organized by Net4Society, will take place on 12-13 November 2019 in Bratislava, Slovakia. This

international event will highlight research topics covered within the 2020 calls for proposals in Societal Challenge 6 *Europe in a changing world – inclusive, innovative and reflective Societies of Horizon 2020*. Participants will have the unique opportunity to join pre-arranged meetings with other participants in order to identify possible collaborators and to facilitate the setup of Horizon 2020 project consortia.

Seguridad

Societal Challenge 7 : Secure societies – Protecting freedom and security of Europe & its citizens

Presupuesto: 1.695 M€

Principales objetivos:

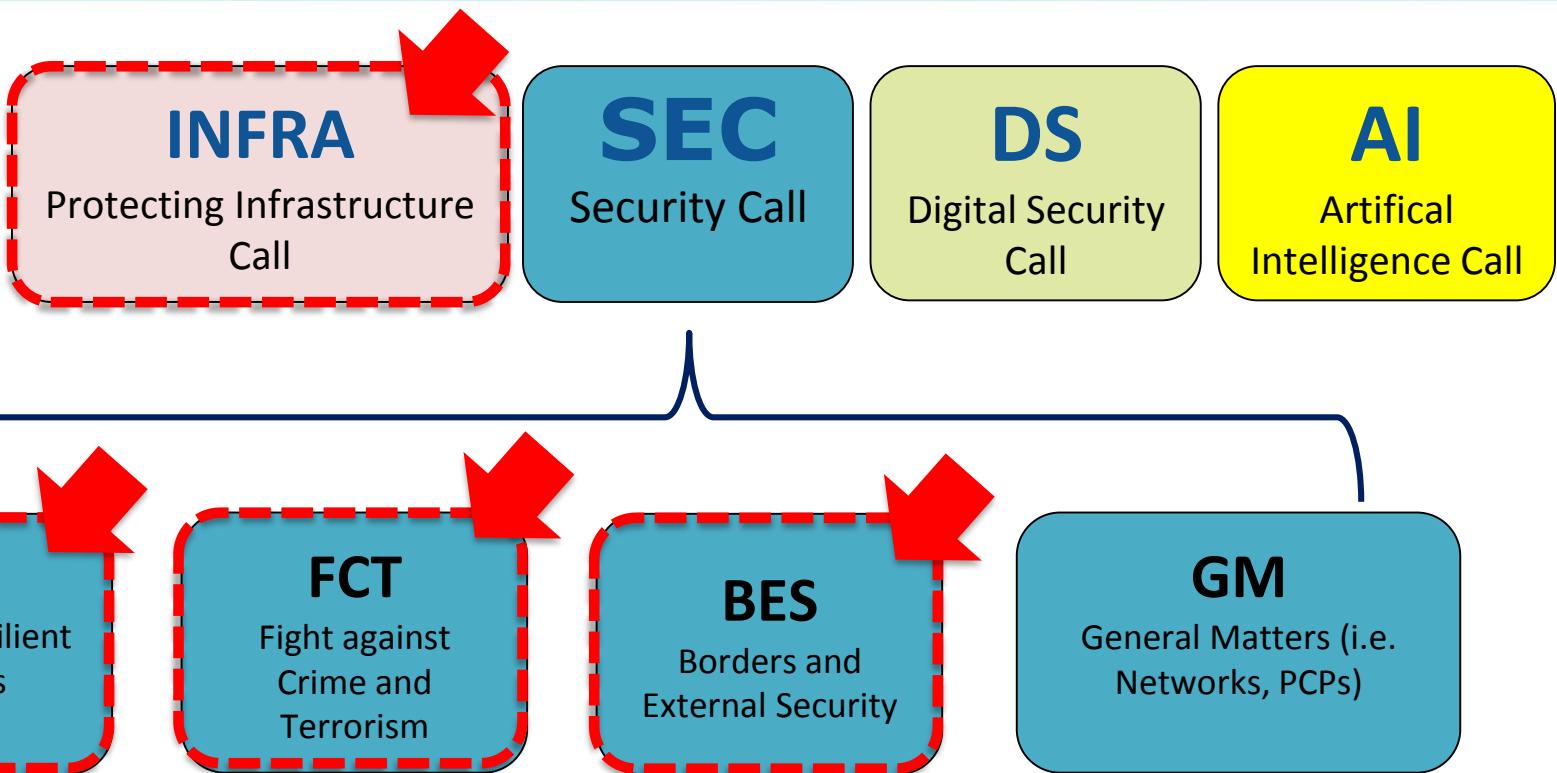
- Mantener la Seguridad Pública a través de:
 - Combatir el crimen y el terrorismo
 - Proteger a la ciudadanía de catástrofes naturales
 - Acometer el tráfico illegal de personas, drogas y bienes
- Desarrollar nuevas tecnologías para la protección de ciudadanos
- Respeto por la privacidad y cumplimiento de los derechos fundamentales

Contenidos SC-7 Secure Societies 2020

- Luchar contra el crimen y el terrorismo, incluyendo la protección de infraestructuras críticas, sistemas y servicios
- Reforzar la seguridad a través del control de fronteras
- Proporcionar ciber-seguridad, de redes, sistemas, software y servicios
- Incrementar la capacidad de recuperación ante crisis y desastres, a nivel Europeo
- Garantizar la privacidad y libertad en Internet, reforzando la dimensión social de la seguridad



Estructura Secure Societies 2020



Oportunidades en topics call-2020

SU-INFRA-01-2018-2019-2020: Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe

IAs of about 8 M€ (total 20 M €) and TRL 7 for deploying solutions that allow forecast, prevention, detection, response, and in case of failure, mitigation of consequences (including novel installation designs) over the life span of the infrastructure and also the neighbouring populations and the environment.

- Interdependent physical (e.g. bombing, plane or drone overflights & crashes, spreading of fires, floods, seismic activity, space radiations, etc.) and cyber threats and incidents (e.g. malfunction of SCADA system, non-authorised access of server) and **consider the cascading risks.**
- Scenarios of real life in real-time and tackling physical and cyber threats.
- **SECTORS: Water systems, communication infrastructures, health services, e-commerce and the postal infrastructure, and financial services.**
- **At least 2 operators** (not necessary to be coordinators) of the chosen type of critical infrastructure operating in 3 Member States or Associated Countries.

Opening: 12-Mar-2020
Deadlines: 27-Ago-2020



Oportunidades en topics call-2020

SU-DRS-01-2018-2019-2020: Human factors, and social, societal, and organisational aspects for disaster-resilient societies

RIAs of about 5 M€ (total 5 M€) and TRL 7 for deploying solutions to manage disasters related either to natural causes (including climate-related hazards) or to terrorist attacks have shown gaps in the level of preparedness of European society for disasters, and therefore highlighted the importance of increasing risk awareness, and hence resilience among people and decision-makers in Europe. There is much that can be learned from **certain countries with a high level of risk of natural disasters** (e.g. Japan with **high-levels of risks of earthquakes, volcanic events, and tsunamis**) and where **risk awareness is high.**

[...]

Civil society organisations, first responders, (national, regional, local, and city) authorities are invited to propose strategies, processes, and methods to enable citizens better to access research results related to disaster resilience, and to prepare the ground for exercises involving citizens.

International cooperation in R&I (COM(2012)497) is encouraged (but not mandatory).

Opening: 12-Mar-2020

Deadlines: 27-Ago-2020



At least 3 first responders' organisations or agencies from at least 3 different EU or Associated Countries.

Oportunidades en topics call-2020

SU-DRS-02-2018-2019-2020: Technologies for first responders

IAs of about 6 M€ (total 21 M€) and TRL 6-7 for proposing novel solutions improving the protection of first responders against multiple and unexpected dangers, or enhancing their capacities by addressing related R&I issues.

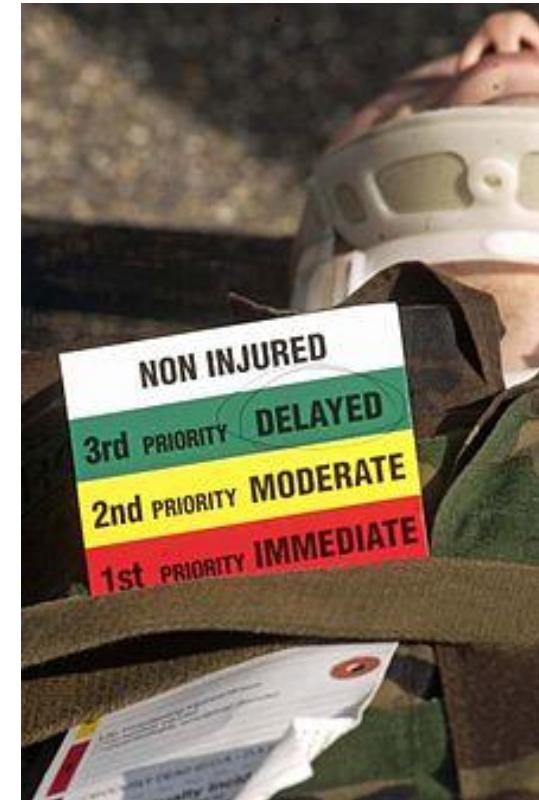
- ✓ **Sub-topic 3: [2020] Methods and guidelines for pre-hospital life support and triage**
- ✓ **Sub-topic: [2018-2019-2020] Open**

Solutions are to be developed in compliance with European societal values, fundamental rights and applicable legislation, including in the area of privacy, personal data protection and free movement of persons.

International cooperation in R&I (COM(2012)497 encouraged (but not mandatory). Japan & Korea appreciated, but not only.

Opening: 12-Mar-2020

Deadlines: 27-Ago-2020



At least 3 first responders' organisations or agencies from at least 3 different EU or Associated Countries, AND At least 5 for OPEN.

Oportunidades en topics call-2020

SU-FCT-01-2018-2019-2020: Human factors, and social, societal, and organisational aspects to solve issues in fighting against crime and terrorism

RIAs of about 5 M€ (total 10 M€) for proposing:

- ✓ **Sub-topic 1: [2020]** New methods to prevent, investigate and mitigate trafficking of human beings and child sexual exploitation – and on the protection of victims
- ✓ **Sub-topic 3:** Developing evidence-based approaches to evaluate and to further develop initiatives to prevent and counter violent radicalisation



International cooperation in R&I (COM(2012)497) is encouraged.

At least 3 LEAs from 3 different EU or Associated Countries



**Opening: 12-Mar-2020
Deadlines: 27-Ago-2020**

Oportunidades en topics call-2020

SU-FCT-04-2020: Chemicals: intelligence, detection, forensics

IAs of about 5 M€ EC Req. (total 10 M€) and TRL 6-7 for developing technologies to counter and respond to incidents with them, improving knowledge on these dangerous chemicals and increasing deterrence messaging whilst also recognising the need to minimise the inconvenience that security measures place on operators and users of public spaces. further develop initiatives to prevent and counter violent radicalization.

Improving the training of law enforcement officers in this field and the **cooperation at local, national and international level.**

Opening: 12-Mar-2020
Deadlines: 27-Ago-2020

At least 3 LEAs from 3 different EU or Associated Countries



Oportunidades en topics call-2020

SU-BES-01-2018-2019-2020: Human factors, and social, societal, and organisational aspects of border and external security

RIAs of about 5 M€ (total 5 M€) and TRL 6-7 for developing:

- ✓ **Sub-topic 3: [2020]** Developing indicators of threats at the EU external borders on the basis of sound risk and vulnerability assessment → Developing methodologies & intelligence to improve the effectiveness of border control, including air, land and maritime borders, by developing dynamic composite indicators of threats, so that various threats occurring simultaneously at the border can be compared and priority for mitigation can be proposed.

**Opening: 12-Mar-2020
Deadlines: 27-Ago-2020**



International cooperation in R&I (COM(2012)497) is encouraged (but not compulsory).

At least 3 LEAs from 3 different EU or Associated Countries

Security Research Event 2019

Date / Time

Date(s) - 06/11/2019 - 07/11/2019

All Day

Place

Helsinki Congress Paasitorni

Categories

- Conference



The European Commission and the Finnish Presidency are pleased to announce the 2019 edition of the Security Research Event (SRE), which will take place at the Helsinki Congress Paasitorni, in Helsinki, Finland, on 6th and 7th November 2019.

Under the theme “Building bridges: reinforcing synergies between security research and other funding instruments”, SRE 2019 will illustrate the strength and inspiring results of security-related research and innovation activities. It will encourage discussion on how a synergic use of different funding instruments can better promote the final market uptake of security research and, consequently, ensure the availability of state of the art knowledge and technologies to security practitioners.

The SRE will consist of two interrelated parts:

- A Conference in which the main challenges related to the theme of the event will be addressed;
- An Exhibition that will concretely support the conference's theme, featuring around 15 projects displaying their potential impact on the daily life of security practitioners.



Eventos relevantes...

<https://www.securityresearch-cou.eu>

The screenshot shows the homepage of the Security Research website. At the top left is the European Commission logo. To its right is the "Security Research" logo with the tagline "Community of Users". A navigation bar above the main content area includes links for "THE CHALLENGE", "NEWS", "POLICY THEMES", "EVENTS", "DOCUMENTS", and a green "SUBSCRIBE" button. The main title "A COMMUNITY OF USERS FOR SECURE, SAFE AND RESILIENT SOCIETIES" is displayed prominently over a background image of a city skyline under a cloudy sky. Below the title is a subtitle: "In a world facing growing risks from man-made and natural disasters, the security of citizens, infrastructure, and assets is a high priority for the European Union." The page features two main sections: "VIDEO" on the left showing a network diagram, and "FEATURED EVENT" on the right detailing the "14th Meeting of the Community of Users on Secure, Safe, Resilient Societies". A red dashed circle highlights the event information.

VIDEO

Community of Users Security Research

FEATURED EVENT

14th Meeting of the Community of Users on Secure, Safe, Resilient Societies

The 14th Meeting of the Community of Users on Secure, Safe, Resilient Societies will take place 16-20 September 2019.
Brussels, BAO Congress Centre (rue Félix Hap 11, 1040 Brussels)
Monday 16th September



Eventos relevantes...

<https://www.internationalresponderforum.org/expanding-innovating-and-developing-technology-first-responders-worldwide>

International Forum to Advance
FIRST RESPONDER INNOVATION

Home Resources Partners Events FAQ Members Contact us in

Expanding, innovating and developing technology for first responders worldwide.

Watch video

Events

Next Events:

November 6 to November 7
Security Research Event 2019

September 16 to September 20
14th Meeting of the Community of Users on Secure, Safe, Resilient Societies

All Events

Giving the World's First Responders a Greater Voice

IFAFRI helps the world's first responders conduct their missions more effectively, safely, and efficiently by providing information that may influence the global market to develop affordable and innovative technology for first responders.

Supporting and Engaging First Responders and Industry

IFAFRI engages with first responders and industry primarily through its Stakeholder Engagement Committee (SEC) and various government and non-government groups.

Expanding Affordable Technology for First Responders

IFAFRI is an organization of international government leaders focused on advancing and expanding the use of affordable, innovative technology for first responders worldwide.

Australia Canada Netherlands New Zealand Singapore Sweden United Kingdom United States Mexico

Canada European Union Finland Germany Israel Japan Mexico

Spain Partners

Organisation: Ministry of the Interior

Website: <http://www.interior.gob.es/en/el-ministerio>

8. Spreading Excellence and Widening Participation



Spreading Excellence and Widening Participation

Presupuesto: 816,5 M€

Principales objetivos:

- Mejorar el crecimiento económico y la competitividad en los llamados “Low Research & Innovation (R&I) Performing Countries”
- Facilitar el acceso a las redes y a las oportunidades de networking
- Proveer asistencia técnica y expertise
- Aumentar la eficiencia de los Sistemas nacionales de investigación en innovación

Algunas acciones

- Teaming, ERA-Chairs, Twinning, **COST** ... entre otras.

Financiación durante 3-7 años

Open Call

5 September 2019

We invite participants to submit proposals for COST Actions, the next collection date will be 5 September 2019, 12:00 noon (CET)

[Read more](#)

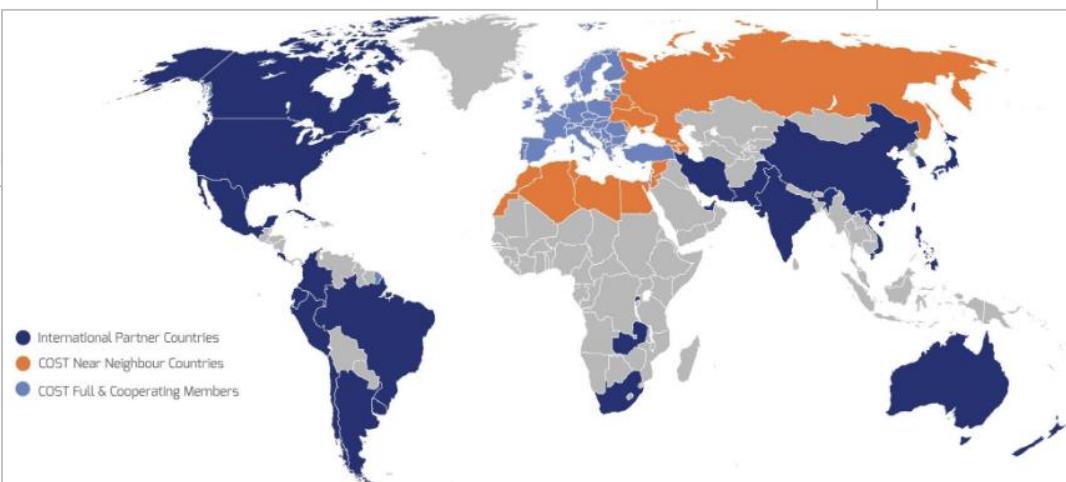
Workshop in Brussels: preparing a successful COST Action proposal

[Home](#) > [Events](#) > Workshop in Brussels: preparing a successful COST Action proposal

 June 6, 2019

 10:00 - 13:30

On 6 June CIS/COST (members: BELSPO, CFWB, FWO, SPW, Innoviris



9. Science with and for Society



Science with and for Society (SwafS)

Presupuesto: 462 M€

- Integra aspectos transversales de Horizon-2020
- Énfasis en Responsible Research and Innovation (RRI), incluyendo aspectos de género, y aumentando la atractividad de la profesión de investigador.

Principales objetivos:

- Asegurar la ciencia responsable y facilitar el desarrollo de políticas relevantes para los ciudadanos
- Mejorar la literatura Científica, y el acceso de los ciudadanos a la ciencia
- Mejora de la participación y centrarse en la ciencia, investigación & innovación.

Strategic orientation 1. Accelerating and catalysing processes of institutional change

Strategic orientation 2. Stepping up support to Gender Equality in Research & Innovation policy

Strategic orientation 3. Building the territorial dimension of SwafS partnerships

Strategic orientation 4. Exploring and supporting citizen science

Strategic orientation 5. Building the knowledge base for SwafS

Other actions

Colaboración
international en
general!

DRAFT

Oportunidades en topics call-2020

SwafS-27-2020: Hands-on citizen science and frugal innovation

RIAs of about 1,8-2,2 M€ (total 8 M€) for:

- ✓ **Citizen science:** This will focus on hands-on citizen science activities. Proposals may focus on one particular area of scientific enquiry or tackle several, though social sciences and humanities and/or transdisciplinary approaches would be particularly welcomed.
- ✓ **Frugal innovation:** This sub-topic will support hands-on activities of minimal cost and complexity, addressed to low-income population groups in any part of the world that are scalable, durable and environmentally sustainable, but often using state-of-the-art technologies and know-how.

International cooperation in research and innovation (COM(2012)497) is encouraged



**Opening: 10-Dec-2019
Deadlines: 15-Apr-2020**



European
Commission

CITIZEN SCIENCE PLATFORM

Participate today!

Welcome to the **Citizen Science** Platform.

Topic in the spotlight

Alien Species are increasing worldwide and are currently present in almost every ecosystem type on earth. They belong to all major taxonomic groups, including viruses, fungi, algae, mosses, ferns, higher plants, invertebrates, fish, amphibians, reptiles, birds and mammals. You may participate by reporting occurrences of alien species near you.

Your chance to gather evidence for **European policy making!**



Why?



What?



How?



Topics

We concentrate our work on selected areas with clear policy relevance. The currently covered topics are listed below and will be gradually updated.

[Tracking Invasive Alien Species in Europe](#)



Helping to find and identify animals and plants that are far from home, and threaten local environments.

[View](#)

[MyNatura2000 – share your nature experience](#)



Providing impressions of natural parks, including pictures of species and landscapes, and indications of potential threats.

[View](#)



DRAFT

Oportunidades en topics call-2020

SwafS-28-2020: The ethics of organoids

CSAs of about 3 M€ (total 3 M€) for exploring the attitudes of the various stakeholders, including the research community, patients, donors and the public (taking into account gender aspects, where relevant), towards this type of research and innovation and its ethical implications. A comparative analysis of the perceived ethical implications with a similar group/family of technologies (for example bioelectronics) should be carried out.

[...]

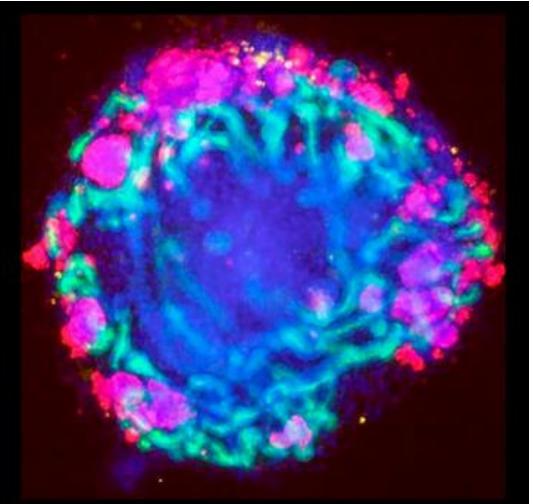
A comparison within the EU and with other regions of the world, on the legal/regulatory and procedural framework (existing or under development) as well as on the level of societal awareness and acceptance, constitutes an important element of the work.

**International cooperation in R&I
(COM(2012)497) is encouraged.**

Opening: 10-Dec-2019

Deadlines: 15-Apr-2020

Mini-riñón de 1 milímitro de diámetro generado a partir de las células madre de un paciente.



DRAFT

Oportunidades en topics call-2020

SwafS-29-2020: The ethics of technologies with high socio-economic impact

CSAs of about 4 M€ (total 4 M€) for continuing similar analysis and refine the model and guidelines produced by the [project SIENNA](#). The action should carry out a thorough scanning of the technology horizon to identify three or four different technologies (or family of technologies) with an equivalent socio-economic impact.

**International cooperation in R&I (COM(2012)497)
is encouraged.**

Opening: 10-Dec-2019
Deadlines: 15-Apr-2020

<http://www.sienna-project.eu>



The screenshot shows the official website for the SIENNA project. At the top left, there is a decorative graphic of four stylized birds (yellow, pink, red, and blue) in flight. The main header features the word "sienna." in a large, lowercase, sans-serif font, where the "i" is orange. To the right of the logo is a search bar with a magnifying glass icon. Below the header, a navigation menu includes links for "About SIENNA", "Genomics", "Enhancement", "AI & Robotics", "News", "Partners", and "Publications". On the left side of the page, there is a sidebar with three buttons: "People in SIENNA", "Stakeholders, experts and citizens", and "Connect with SIENNA". The background of the main content area is a dark purple with a complex, glowing network of white lines forming a geometric pattern. On the right side, a large block of text reads: "SIENNA: Technology, ethics and human rights. Human genomics, human enhancement, artificial intelligence and robotics offer benefits for both individuals and society. But these technologies also challenge our notions of what is ethical. SIENNA will provide frameworks to help develop research ethics protocols, professional ethical codes and better legal frameworks." The overall design is modern and professional, emphasizing the theme of technology and ethics.

DRAFT

Oportunidades en topics call-2020

SwafS-30-2020: Responsible Open Science: an ethics and integrity perspective

CSAs of about 2,5 M€ (total 2,5 M€) for examining and map the ethical, legal and social implications/challenges as well as the research integrity issues related to Open Science, and consequently to identify and analyse the necessary elements to support the integration of research ethics and integrity as structural component of Open Science.

International cooperation in R&I (COM(2012)497)
is encouraged.

European Group on Ethics in Science and New Technologies (EGE)

An independent, multi-disciplinary body which advises on all aspects of Commission policies where ethical, societal and fundamental rights issues intersect with the development of science and new technologies.

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What is the EGE?

The EGE provides the Commission with high quality, independent advice on ethical aspects of science and new technologies in relation to EU legislation or policies.

The EGE is an independent advisory body of the President of the European Commission. It was founded in 1991.

The group's [legal mandate](#) is enshrined in Commission Decision (2016/835).

The EGE reports to the president, and to the College of Commissioners as a whole. The group is under the direct responsibility of Commissioner for Research, Innovation and Science, Carlos Moedas.

The EGE is [currently working](#) on the topics of gene editing, artificial intelligence and the future of work

Opening: 10-Dec-2019 →Deadlines: 15-Apr-2020

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European
Commission

Eventos & actores relevantes...

<http://www.sisnetwork.eu/about>



Network of National Contact Points for
Science with and for Society in Horizon 2020



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SwafS Stakeholders

Responsible Research & Innovation

Partner Search

ICPC

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SiS.net - Science with and for Society NCP Network

SiS.net is the international network of National Contact Points (NCPs) for Science with and for Society[®] in Horizon 2020[®], the EU's Programme for Research and Innovation. The network is funded under H2020 and unites more than 70 representatives from countries participating in Horizon 2020, in Europe and beyond.

Save the date: Infoday mid-Dec-2019

SwafS Programme

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Para finalizar...

https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/european-research-and-innovation-days_en

EUROPEAN RESEARCH & INNOVATION DAYS



About



Programme



Speakers



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www.ec.europa.eu/research

Participant Portal

<http://ec.europa.eu/research/participants/portal/>



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