



#InvestEUresearch

Horizon 2020 Work Programme for Research & Innovation 2018-2020

Interpretación de topics
Estrategia eficiente de participación

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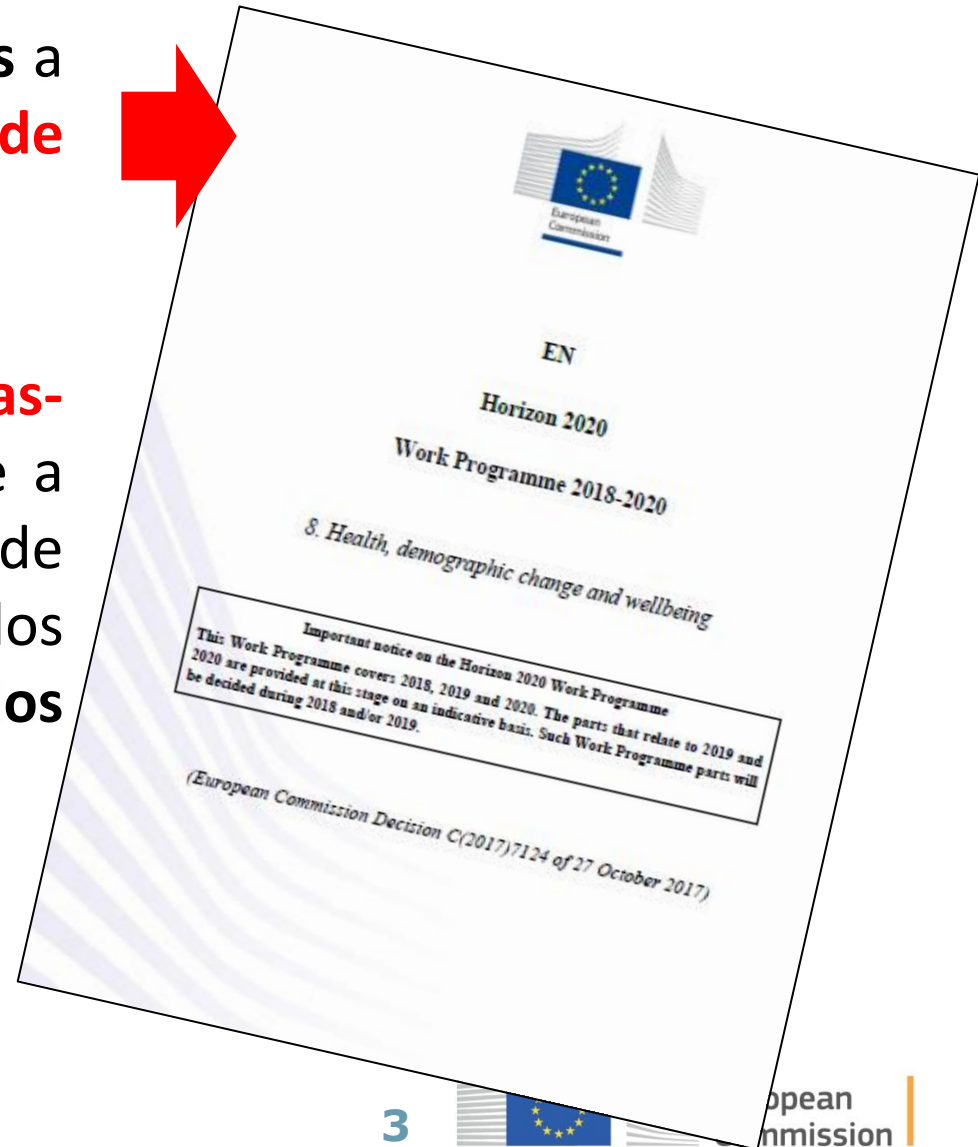
Research and
Innovation

Recordemos...



❑ 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)**.



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

Pistas a la hora de analizar un topic...

1ª Pista: El TOPIC

- ✓ Analizar todas y cada una de las frases del topic. Todas son importantes/significativas.
- ✓ Asegurarse fechas de apertura y cierre, tipo de proyecto (% subvención).
- ✓ Intentar deducir qué tipo de consorcio buscaría el topic y ver qué podemos aportar nosotros aparte de nuestra investigación (empresas, colectivos, asociaciones, usuarios finales...)

2ª Pista: Intro del WP

- ✓ Documentos de referencias a políticas de la EU o acuerdos internacionales
- ✓ Iniciativas, redes, asociaciones EU e internacionales nombradas

3ª Pista: El CONTEXTO

- ✓ Background: Ver qué proyectos se han financiado anteriormente en ese topic o en esa línea de financiación y qué partners había en ellos → Portal CORDIS, acciones COST,...
- ✓ Asistir a infodays o webstreaming de esta call → incluso revisar quién ha participado en eventos anteriores relacionados!



EU Technology Platforms...

Individual ETPs

Bio-based economy	Energy	Environment	ICT	Production and processes	Transport
EATIP	Biofuels	WssTP	ARTEMIS	ECTP	ACARE
ETPGAH	EU PV TP		ENIAC	ESTEP	ALICE
FABRE TP	TP OCEAN		EPoSS	EuMaT	ERRAC
Food for Life	RHC		ETP4HPC	FTC	ERTRAC
Forest-based	SmartGrids		euRobotics [AISBL]	Manufuture	Waterborne
Plants	SNETP		NEM	Nanomedicine	
TP Organics	ETIPWind		NESSI	SMR	
	ZEP		Networld 2020	SusChem	
			Photonics 21		



Ejemplo SC-1



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

Specific Challenge: The **Global Alliance for Chronic Diseases (GACD)** call will focus on implementation research proposals for the prevention and/or early diagnosis of cancer in **Low and Middle-Income Countries (LMIC) and/or in vulnerable populations in High- Income Countries (HIC).**

The world is facing a critical healthcare problem due to ageing societies, unhealthy lifestyles, socio-economic inequalities, and a growing world population. Cancer is becoming one of the most important public health problems worldwide. In 2018, it is estimated that 181 million people have been diagnosed with cancer and 9.6 million have died from it. Predictions suggest that 30 million people will die from cancer each year by 2030, of which three-quarters in low- and middle-income countries (LMICs).

With an estimated 30-50% of avoidable cancers, it is a leading cause of premature death, reducing a country's productivity. Current cancer prevention and control do not fully reflect ethnic, cultural, environmental, socio-economic and resource differences. In particular, limited implementation research is conducted on cancers primarily found in LMICs and vulnerable populations in HIC. **In order to achieve the United Nations' sustainable development goal 3.4, implementation research and healthcare efforts are needed to prevent and control cancers in these countries and populations.**

Mirar quién forma parte de la GACD → Potenciales inspiradores del topic... y participantes internacionales!

Tipo de usuario final que debe haber en la propuesta.

Tenemos que hacer referencia a los UNSG en la propuesta!

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

Scope: Proposals should focus on **implementation research for the prevention and/or early diagnosis of cancer on in LMIC and/or in vulnerable populations in HIC**. Proposals should build on interventions with promising or proven effectiveness (including cost-effectiveness) for the respective population groups under defined contextual circumstances. For promising interventions, a limited validation period can be envisaged. **However, the core of the research activities should focus on their implementation in real-life settings. The proposed interventions should gender-responsive.**

The aim should be to adapt and/or upscale the implementation of **these intervention(s) in accessible, affordable and equitable ways in order to improve the prevention and early diagnosis of cancer in real-life settings**. Interventions should meet conditions and requirements of **the local health and social system** context and address any other contextual factors identified as possible barriers.

Implementación en comunidades de pacientes o en núcleos de población vulnerables... económicamente, riesgos ambientales, alimentación, ...

Pacientes reales y aspectos de género a tener en cuenta.

Análisis comparativo de costes y justificar porqué nuestra solución es la mejor relación calidad-precio.

Involucrar a los actores y sistemas de salud y sanitarios locales, regionales o nacionales.

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

Each proposal should:

- Focus on **implementation research addressing prevention, and/or early identification strategies** derived from existing knowledge about effective and/or promising interventions.
- 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**.
- Lead to better understanding of **key barriers and facilitators** at local, national and international level that affect the **prevention and/or early diagnosis of cancer**.
- Include health **economics assessments** as an integral part of the proposed research, including considerations of **scalability and equity**.
- Propose a pathway to embed the **intervention into local, regional or national health policy** and practice, addressing:
 - A strategy to **include policy makers and local authorities (possibly by being part of the consortium)**, as well as other relevant stakeholders such as **community groups, patient groups**, formal and informal carers and any other group, where ever relevant from the beginning of the project, which will contribute to the sustainability of the intervention, after the end of project.
 - Relevance of project outcomes/evidence for scaling up the intervention at local, national and international level and then scaled-up appropriateness with respect to the local social, cultural and economic context.

[...] Applicants must budget their **involvement in GACD working groups and other GACD wide activities, beyond their projects**.

The Commission considers that proposals requesting a contribution from the **EU of between EUR 1 to 3 million** would allow this specific challenge to be addressed appropriately. [...]

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

Expected Impact: The proposals should address one of or combinations of:

- Advance local, regional or national cancer prevention and/or early diagnostic health policies, alleviating the global burden of cancer;
- Establish the contextual effectiveness of cancer intervention(s), including at health systems level;
- Improve tailored and affordable prevention and/or early diagnosis;
- Provide evidence and recommendations to national programmes and policies focusing on prevention, screening, and/or early diagnosis;
- Inform health service providers, policy and decision makers on effective scaling up of cancer interventions at local, regional, and national levels, including affordability aspects for users and health providers;
- Reduce health inequalities and inequities, including due consideration of socio-economic, gender and age issues where relevant, in the prevention and/or early diagnosis of cancer at both local and global levels;
- Provide pathway to cancer care for the patients with cancer;
- Maximise the use of existing relevant programmes and platforms (e.g. research, data, and delivery platforms);
- Contribute to the United Nations' Sustainable Development Goal 3.4.

Type of Action: Research and Innovation action → **Total 22 M€ para este topic!!!**

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.**

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 will be discussed 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 the list. There is also a feed for [past events](#).

There are lots more events of molecular life science in the [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.

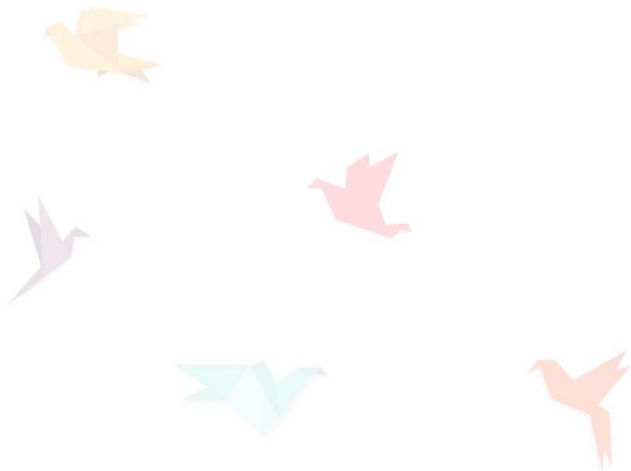
[Register now](#)
Open until 31 May 2019

LOCATION
Crowne Plaza Brussels - Le Palace

ORGANISED BY



Ejemplo SC-2



LC-RUR-11-2019-2020: Sustainable wood value chains

Specific Challenge: Forests play a vital role in Europe's economy, society and environment . Scenarios likely to keep the global warming below 2°C (**Paris Agreement goal**) would entail a substantial reduction of anthropogenic GHG emissions, through far-reaching changes to energy systems, land use and associated value chains. The second consumer-driven factor of GHG emissions is the construction sector (ca. 15%), implying a significant role for forest-based products. The forest-based sector can contribute to climate change mitigation through increasing sinks in and reducing emissions from living biomass, soils and wood products, and the substitution of non-renewable resources through the sustainable use of material and energy use of wood-based materials. The combined sink and substitution effects of wood value chains can provide a key mitigation option, provided that changes in fossil and biogenic carbon are taken into account in a comprehensive and balanced manner. Climate change is at the same time increasing forests' vulnerability. **Several research projects and COST Actions launched in FP7 looked into the development of innovative, resource efficient wood-based products.** While ensuring the sustainability of forest production systems under changing climate conditions remains a long-term objective for the sector, a key challenge now is to further develop and deploy the technological advancements of environmental and micro/macrocclimate-friendly wood-based value chains on the ground.



Bucar esos
Proyectos COST y
del FP7 para ver
quién se present y
escribirles!

LC-RUR-11-2019-2020: Sustainable wood value chains

Scope:

B. [2020] Resilient forest systems (RIA)

Proposals shall aim at 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 and natural expansion of forests, considering the long-term rural development, climate change mitigation objectives and biodiversity enhancement are also in the scope. **Proposals shall encompass a varied range of forest and site types and tailored forest management systems** representative of Europe's biogeographic regions. **Proposals shall cover multiple parts of the production cycle and related operations, from regeneration/planting to harvesting, shall consider jointly supply (i.e. primary production) and demand (i.e. socio-economic) factors, and are expected to be interdisciplinary in nature.**

Both sub-topics (A and B) **are suitable for INCO and SMEs participation, and are expected to integrate technology with SSH and RRI aspects.**

The Commission considers that proposals requesting a contribution from the EU of the order of EUR 10 million for sub-topic A and **5 million for sub-topic B** would allow this specific challenge to be addressed appropriately. [...]

Opening: 15-Oct-2019

Deadlines:

1st-stage 22-Jan-2020

2nd-stage 08-Sep-2020

LC-RUR-11-2019-2020: Sustainable wood value chains

Expected Impact: In the framework of **SDG 9, 11, 13 and 15, the EU's Forest Strategy 2013, the Circular Economy Package 2015, the Paris Agreement 2015, the EU's Bioeconomy Strategy 2018, and the EU Action Plan for Nature, People and the Economy**, proposals are expected to assess how they will contribute to:

- ~~Increased resource and/or energy efficiency and added value and minimising pollution and the environmental footprint (emissions of GHG and air pollutants included) in the construction sector in the cities, by specific amounts/proportions to be specified in the proposals, by 2030 [sub-topic A];~~
- ~~Enhanced connectivity of rural-urban areas and their overall contribution to a resilient, circular and competitive, forest-based bioeconomy, by 2025 [sub-topic A];~~
- Increased **long-term resilience of forest production** systems and associated value chains to climate/environmental change and societal **demand [sub-topic B];**
- **Protection and restoration of biodiversity** of primary and secondary forest **[sub-topic B];**
- Enhanced contribution of the forest-based sector to long-term climate change mitigation, adaptation and rural development objectives **[sub-topics A & B];**
- Also in the long-term, prompt a sizeable positive change to European landscapes and economies, by keeping the countryside green and serving to make cities greener, and increasing the share of both **decent and green jobs [sub-topics A & B].**

Advance available solutions from TRL 4-5 to TRL 6-7 for sub-topic A and from **TRL 3-4 to TRL 5 sub-topic B.**

Type of Action: **Innovation action, Research and Innovation action → Total 10 M€ , adria para unas 2 propuestas!**

Bajarse todos estos documentos
ANTES!

No tan cerca de mercado... más research y modelización, pero basado en datos reales!

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 under 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. Register by 30 June 2019. Travel and subsistence costs should be covered by the participant.

All sessions will be webstreamed and recorded, and presentations will be available on demand.

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](#)

BioHorizon SC2 and KET-B Brokerage Event for 2020 calls

- Present, discuss and develop your project ideas at an international level.
- Establish international contacts and cooperation.
- Initiate the setup of Horizon 2020 project consortia.
- Receive first-hand advice and support from the European Commission and National Contact Points.

On 3 July 2019, BioHorizon will organize its 5th H2020-SC2 and KET-Biotech international brokerage event in Brussels.

The brokerage event is organized back to back to the [EC Infoday](#) on Horizon 2020 Societal Challenge 2 (SC2) 'Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy' in Brussels on 4 July 2019.

Brokerage events are excellent opportunities to network, we encourage you to register and come to Brussels to meet fellow researchers and industry representatives to potentially build a consortium for the upcoming Societal Challenge 2 and the Key Enabling Technology 'Biotechnology' (KET-B) calls in Horizon 2020.

Registration will be open till 9 June 2019.

More information and registration: <https://foodbrokerage2019.b2match.io/>

Ejemplo SC-3

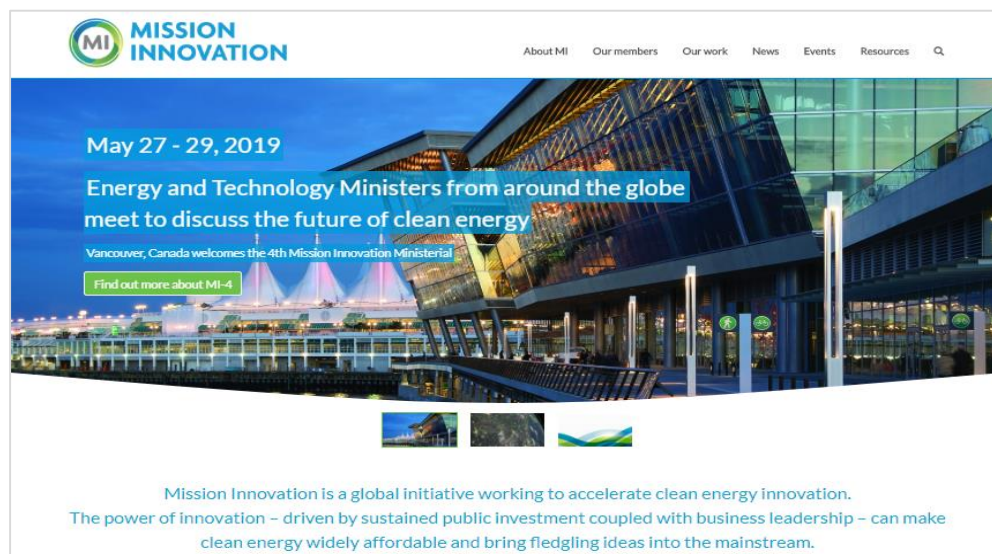


LC-SC3-RES-1-2019-2020: Developing the next generation of renewable energy technologies

Specific Challenge: The renewable energy technologies that will form the backbone of the energy system by 2030 and 2050 are still at an early stage of development today. Bringing these new energy conversions, new renewable energy concepts and innovative renewable energy uses faster to commercialisation is challenging. These new technologies must not only have a commercial potential but they should also have a lower environmental impact and lower greenhouse gases emissions than the current renewable energy technologies.

The proposed solution is expected to contribute to implementing the specific priorities for strengthening the EU leadership on renewables laid out in the Communication for Accelerating Clean Energy Innovation .

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.**





**MISSION
INNOVATION**

INNOVATION CHALLENGES



IC1: Smart Grids

Enable future grids powered by affordable, reliable, decentralised renewable electricity systems.



IC2: Off-Grid Access to Electricity

Develop systems that enable off-grid households and communities to access affordable, reliable renewable electricity.



IC3: Carbon Capture

Enable near-zero CO₂ emissions from power plants and carbon-intensive industries.



IC4: Sustainable Biofuels

Develop ways to produce at-scale widely affordable, advanced biofuels for transportation and industrial applications.



IC5: Converting Sunlight

Discover affordable ways to convert sunlight into storable solar fuels.



IC6: Clean Energy Materials

Accelerate the exploration, discovery and use of new high-performance, low-cost clean energy materials.



IC7: Affordable Heating and Cooling of Buildings

Make low-carbon heating and cooling affordable for everyone.



IC8: Renewable and Clean Hydrogen

Accelerate the development of a global hydrogen market by identifying and overcoming key technology barriers to the production, distribution, storage, and use of hydrogen at gigawatt scale.

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

Scope: Proposals are expected to bring to **TRL 3 or TRL 4** (please see part G of the General Annexes) renewable energy technologies that will answer the challenge described. Beside the development of the technology, the proposal will have to clearly address the following related aspects: **lower environmental impact, better resource efficiency than current commercial renewable technologies, issues related to social acceptance or resistance to new energy technologies, related socioeconomic and livelihood issues.**

Support will be given to activities which focus on **converting renewable energy sources into an energy vector**, or the direct application of renewable energy sources.

Activities also **might include energy materials, catalysts, enzymes, microorganisms, models, tools and equipment**, as long as those are strictly connected to the energy conversion process.

Developments in sectors other than energy may provide ideas, experiences, technology contributions, knowledge, new approaches, innovative materials and skills that are of relevance to the energy sector. Cross-fertilisation could offer mutually beneficial effects.

This topic calls for **bottom-up proposals** addressing any **renewable technology currently in the early phases of research.**

The Commission considers that proposals requesting a contribution from the EU of between EUR **2 to 4 million** would allow this challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts. → **Hay unos 45 M€ en total!**

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

Expected Impact: The concepts proven or validated within the projects are expected to contribute to accelerating and reducing the cost of the next generation of sustainable renewable energy generation. In addition, the project is expected to advance the knowledge and scientific proofs of the technological feasibility of its concept including the environmental, social and economic benefits. The proposal should show its contribution towards establishing a solid European innovation base and building a sustainable renewable energy system.

Type of Action: Research and Innovation action

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

Horizon 2020 Energy Info Days

Tuesday, June 25, 2019 - 09:30

#H2020Energy Info Days

25 - 27 June 2019
BRUSSELS

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 Points, will be part of the Info Days and give you the opportunity to meet and look for partners to form a consortium.

Webstreaming

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

#H2020Energy Info Days

Brokerage Event

25 - 27 June 2019
BRUSSELS

25 Jun 2019 - 27 Jun 2019
Brussels, Belgium

Energy Call 2020 Brokerage
Event

Otros topics a comentar...

Topic (Type)	Title	Opening / Deadline
SC1-BHC-17-2020 (RIA)	Global Alliance for Chronic Diseases (GACD) - Prevention and/or early diagnosis of cancer	Opening: 04-Jul-2019 Deadlines: 1st-stage 24-Sep-2019 2nd-stage 07-Apr-2020
LC-RUR-11-2019-2020 (RIA)	Sustainable wood value chains	Opening: 15-Oct-2019 Deadlines: 1st-stage 22-Jan-2020 2nd-stage 08-Sep-2020
LC-SC3-RES-1-2019-2020 (RIA)	Developing the next generation of renewable energy technologies	Opening: 02-Dic-2019 Deadline: 21-Apr-2020
LC-CLA-14-2020 (RIA)	Understanding climate-water-energy-food nexus and streamlining water-related policies	Opening: 12-Nov-2019 Deadlines: 1st-stage 13-Feb-2020 2nd-stage 03-Sep-2020
SFS-21-2020 (RIA)	Emerging challenges for soil management	Opening: 15-Oct-2019 Deadlines: 1st-stage 22-Jan-2020 2nd-stage 08-Sep-2020
LC-CLA-15-2020 (RIA)	Forest Fires risk reduction: towards an integrated fire management approach in the E.U	Opening: 12-Nov-2019 Deadlines: 1st-stage 13-Feb-2020 2nd-stage 03-Sep-2020
SwafS-27-2020 (RIA)	Hands-on citizen science and frugal innovation	Opening: 10-Dec-2019 Deadlines: 15-Apr-2020

Practicar...



Breve descripción de quién somos....

#4	DIN German Institute for Standardisation	DIN	Germany
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Description of the organisation:

DIN is a non-profit organization recognized as a German National Standards body representing Germany in European and international standardization activities. DIN prepares standards as services for the economy, state and community. Standardization is considered as a strategic instrument to support economy and the society in general. It reduces the need for legislation and supports convergence in technology whilst allowing for a wide range of local solutions if needed.

The results of DIN's work serve to advance innovation, safety and communication among industry, research organizations, the public sector and society as a whole, and to support quality assurance, rationalization, occupational health and safety, and environmental and consumer protection. DIN publishes its work results and promotes the implementation of these results.

DIN supports any R&D projects with the concept of R&D Phase Standardization, which covers any activity with the aim of early identification of standardization potential of products and services, establishment of standardization processes and assistance with public availability of the results of these processes. Because of this the sustainable transfer of knowledge and technology will be enhanced and accelerated in innovative fields.

Tasks in project:

- Identification and analysis of relevant standardization a
- Provide expertise on the standardization system in gen
- Provide expertise in regard to urban resilience, security
- Development of the standardization roadmap
- Disseminating the project results

Relevant publications:

- DIN SPEC 91330:2015 Terminology relating to events in
- DIN SPEC 91287:2012, Data interchange between infor
- CWA 16768:2014, Framework for Sustainable Value Cre
- DIN CLC/TS 50560:2014, Interoperability framework re
- German Standardization Roadmap on Smart City

Previous relevant experiences:

- SMIR: Smart Mature Resilience (Horizon2020) - Development of European Resilience Management Guideline(s)
- DRIVER: Driving Innovation in Crisis Management for European Resilience (FP7) - Development of solutions for improved Crisis Management
- HECTOS: Harmonized Evaluation, Certification and Testing of Security Products (FP7) - Products used for physical security of people and infrastructure
- InnoGeSi: Innovative Business models for the Security of Infrastructures (funded by BMBF, the German Federal Ministry of Education and Research)

Key persons:

Alexandra Engelt (female), M.Sc., Team manager, is employed at DIN since 2010 and has a lot of experiences in linking standardization with innovation, e. g. R&D phase standardization in national as well as European R&D projects. Furthermore she is responsible for activities in the field of education about standardization.

René Lindner (male), Dipl.-Ing., is Project manager in the department of Business development at DIN since 2012. His area of responsibility is the support of national and European R&D projects in the field of standardization, e.g. in issues of security, critical infrastructures and smart cities.



- ✓ Incluir qué otros **actores & usuarios finales** podemos traer al proyecto
- ✓ **Infraestructuras** que aportamos o tenemos acceso...

Potenciales tareas que podríamos desarrollar...

<u>Partner</u>	Role: Cyber training tools developer	
	<u>Detail</u>	<u>Deliverable</u>
<u>Task 1:</u> <u>Definition of the role-based training program</u>	We will elaborate the role-based training curriculum. Also, we will organize workshops and interviews with experts from the grid operators in the project and in their network. We will include experts from end-users, from the project partners, the advisory board, and members of ENCS. We will invite both technical experts, and security officers responsible for policy. We will hold interviews with employees in the roles included in the program. We will process the outcomes of the workshops and interviews into the curriculum, identifying also soft skills such as critical thinking, reflection, collaborative problem solving, and resilience.	<u>D1. Role-based training curriculum for incident detection and response</u> The curriculum describes the trainings that grid operators should require from staff involved in cyber-security incident response. It defines the different roles involved in incident response, differentiating for instance between CSIRT analysts, system administrators, engineers maintaining field equipment, control center operators, and different layers of management.
<u>Task 2:</u> <u>Develop the pedagogical approach</u>	In this task, we and the cyber-range owners will develop the pedagogical approach for the training program. Our institute will develop the pedagogical support for the online course. It will define the principles for online learning, and recommend a learning environment that minimizes known challenges to online learning. We and the cyber-range owners will develop the pedagogical support for the pre-briefing and the simulation-based training. They will work out an approach for structuring the session, specify the roles the participants will play, and write scripts for effective performance. Our end-users will define the activities the exercise moderators will take during the simulations to optimize training outcomes. We will provide guidelines to promote effective development of collaborative problem-solving skills as well as strategies for coping with stress and for promoting resilience of the participants.	<u>D2. Trainer Guide</u> This report describes to trainers how to deliver trainings that allow participants to achieve the learning goals in the curriculum, using the technology-enhanced pedagogy. It describes how to use simulations and learning analytics to achieve the best training results.

Estimación aproximada de nuestro presupuesto...

NOMBRE PARTNER	Cost (€)	Justification
Staff	€ 120.000	2 junior researchers full time x 13 Months* 1 senior researcher part time x 15 Months* 1 laboratory & field campaign staff x 7 Months*
Travel	€ 84.715	<ul style="list-style-type: none"> Attendance to the KoM and 3 Consortium Meetings for 2 persons. Organisation of the Trial Steering Committee and Data Safety Board (month 30), including the travel costs for independent experts. Attendance to one International Conference/Workshop to present the project results. 2 vehicles (one per site) will be rented for the clinical trial visits.
Equipment	€ 5.438	Depreciation costs for 4 laptops per site for study personel & 2 Tablets for Data Capturing one at each site.
Other goods & services	€ 93.697	<ul style="list-style-type: none"> Clinical and Laboratory supplies, Clinical Trial Insurance, Study MobilePhone and SMS cost notification for the patients (follow-up and visit management), Clinical trial participants reimbursement (included transport), Clinic fees Volunteers for field campaigns fees Courier costs samples, Publication costs in opens access and communication material Cost of the Certificate of the Financial Statements (CFS)
Subcontracting	€ 12.000	<ul style="list-style-type: none"> Subcontract of 36h of computing at the HPC facilities of the BSC Regulatory Translations (4 languages), Fees for clinical tests analysis (x-Ray Spirometry)
Total	€ 315.850	

*Costes reales en función del sueldo real que le paga su entidad.

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