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I+D+i en Energía Horizon 2020 y Horizon Europe



@EsHorizonte2020

II Encuentro Anual Plataformas de Energía, 15 de octubre 2020

Horizon 2020 - Green Deal call

- Presupuesto => 983 M€
- 5 programas, no solamente Energía
- Incrementar el impacto y la visibilidad => grandes proyectos de demostración e innovación
- Reducido número de proyectos por topic, algunos de gran tamaño
- 20 topics, 5 (+2) relacionados con Energía



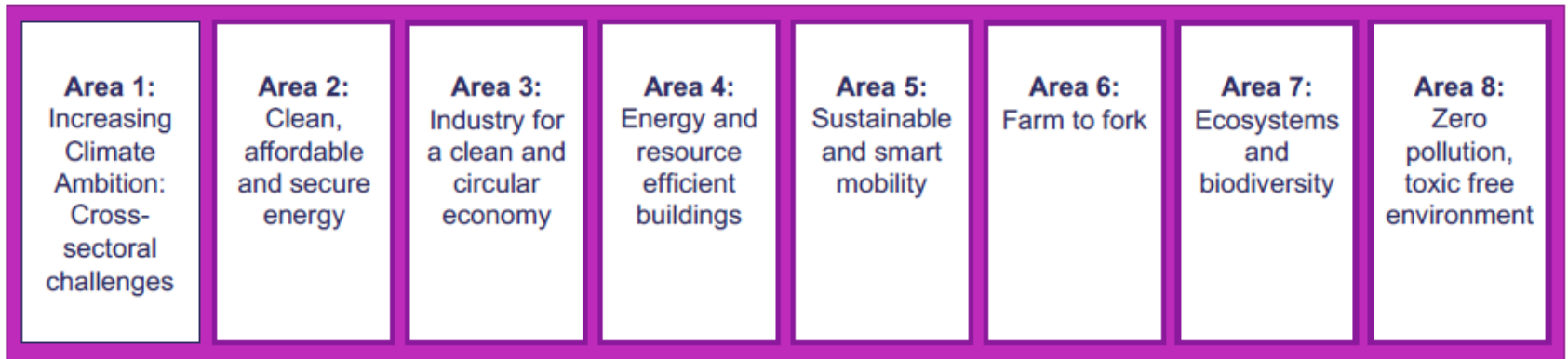
Timeline

- Fecha de publicación => 22 Septiembre 2020
- Fecha de cierre => 26 Enero 2021

Infoday CDTI – 1 Octubre 2020

https://eventos.cdti.es/ES/call_EUGD

Estructura de la convocatoria Green Deal



Area 9: Strengthening knowledge in support of the European Green Deal

Area 10: Empowering citizens for the transition towards a climate neutral, sustainable Europe

WorkProgramme “Cross-cutting activities”. Topics con código “LC-GD”

https://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-cc-activities_en.pdf

Topics relacionados con Energía

Area 1: Increasing Climate Ambition

Area 2: Clean, affordable and secure energy

Area 4: Energy and resource efficient buildings

Area 3: Industry for a clean and circular economy

Area 5: Sustainable and smart mobility

1.2 Towards climate-neutral and socially innovative cities

2.1 Innovative land-based and offshore renewable energy technologies and their integration into the energy system

2.2 Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and commercial/industrial applications

2.3 Accelerating green transition & energy access Partnership with Africa

4.1 Building and renovating in an energy and resource efficient way

3.1 Closing the industrial carbon cycle – industrial feasibility of catalytic routes for sustainable alternatives to fossil resources

5.1 Green airports and ports as multimodal hubs for sustainable and smart mobility



División de
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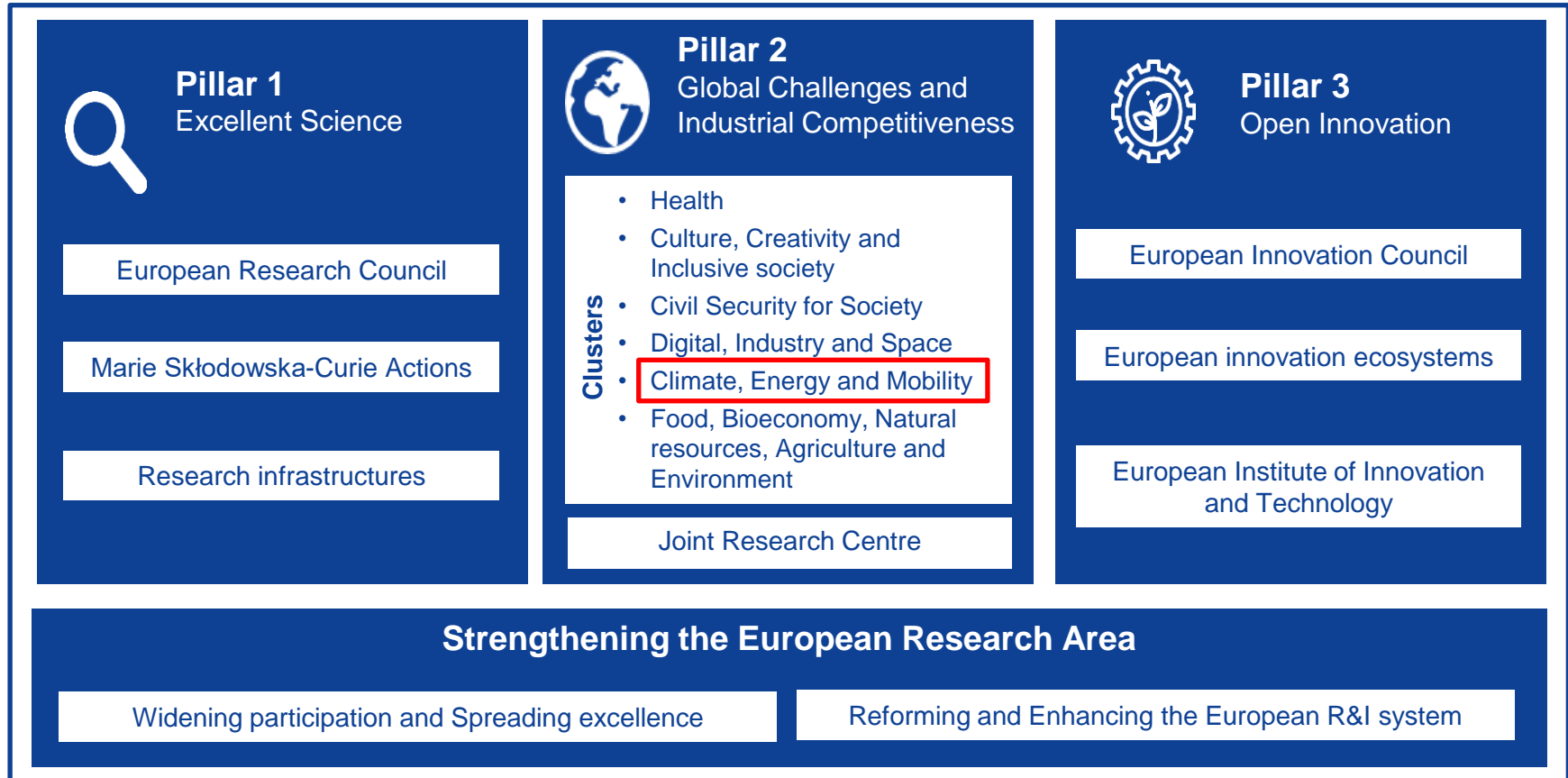
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Horizon Europe (2021-2027)

Estructura



Cluster 5: Climate, Energy, Mobility

Borrador

Destination	Area
Destination 1 – Climate Sciences and Responses	- Earth system science
	- Analysis of pathways leading to climate neutrality
	- Adaptation and climate services
	- Social science to tackle climate change
	- Climate-ecosystem interactions
Destination 2 – Cross-sectoral solutions for the climate transition	- A competitive and sustainable European battery value chain
	- Communities and cities
	- Emerging breakthrough technologies and climate solutions
Destination 3 – Sustainable, secure and competitive energy supply	- Global leadership in renewable energy
	- Energy systems, grids and storage
	- Carbon capture, utilisation and storage (CCUS)
	- Cross-cutting issues

Cluster 5: Climate, Energy, Mobility

Borrador

Destination	Area
Destination 4 – Efficient, sustainable and inclusive energy use	- Highly energy-efficient and climate neutral EU building stock
	- Industrial facilities in the energy transition
Destination 5 – Clean and competitive solutions for all transport modes	- Zero-emission road transport
	- Aviation
	- Enabling low-carbon, clean, smart, and competitive waterborne transport
	- Impact of transport on environment and human health
Destination 6 – Safe Resilient Transport and Smart Mobility services for passengers and goods	- Connected, Cooperative and Automated Mobility (CCAM)
	- Multimodal and sustainable transport systems for passengers and goods
	- Safety and resilience - per mode and across all transport modes

Horizon Europe - Partnerships de Energía

Borrador

Institutional Partnerships

- **Clean Hydrogen Europe (CHE)**

Co-programmed Partnerships

- **Built4People** | People-centric sustainable built environment
- **Batteries** | For stationary applications and e-mobility

Co-funded Partnerships

- **Driving urban transitions to a sustainable future (DUT)**
- **Clean Energy Transition (CET)**

Co-fund “Driving Urban Transitions” (DUT) Borrador

Partnership Concept



Positive Energy Districts and Neighbourhoods transforming the urban energy system



Downsizing District Doughnuts
an integrated approach for urban greening and circularity transitions



The 15 Minutes Cities
rethinking the urban mobility system and space



<https://ipi-urbaneurope.eu/app/uploads/2019/02/SRIA2.0.pdf>

Co-fund “Clean Energy Transition” (CET)

Borrador

Challenges

1. Enabling Technologies	CH1.1 Concentrated Solar Power
	CH1.2 Photovoltaics
	CH1.3 Offshore Wind
	CH1.4 Onshore Wind
	CH1.5 Deep Geothermal Energy
	CH1.6 Bioenergy
	CH1.7 Carbon Capture Utilisation & Storage
	CH1.8 Ocean Energy
	CH1.9 Hydropower



2. Heating and Cooling Solutions	CH2.1 Towards 100% renewable heating and cooling of individual buildings
	CH2.2 Heating/cooling in climate-neutral Energy Districts
	CH2.3 Next generation of District heating and cooling systems
	CH2.4 Towards 100% renewable industrial heating
3. System Integration	CH3.1 Develop an optimised integrated European energy infrastructure
	CH3.2 Develop Integrated Local and Regional Energy Systems
	CH3.3 System modelling as a fundamental tool for the integrated energy system development
4. Storage & Fuels	CH4.1 Reliable and cost-effective mid- to long-term thermal storage systems
	CH4.2 Development of efficient storage technologies for electric power grids based on renewables
	CH4.3 Renewable Fuels
	CH4.4 Development of Cross-sectoral and hybrid energy storage solutions
	CH4.5 System integration and cross-cutting issues for energy storage
5. Cross-cutting challenges	CH5.1 Robust transition pathways for an integrated European energy system
	CH5.2 Accelerated transition and innovation ecosystems
	CH5.3 Market design and regulation in support of the energy transition
	CH5.4 Policies and actions to ensure a fair, just and democratic transition
	CH5.5 A resource efficient and sustainable energy system based on circularity
	CH5.6 Cost reduction, market integration and user empowerment in the energy transition through digital transformation

Horizon Europe - Missions

Misiones de investigación e innovación

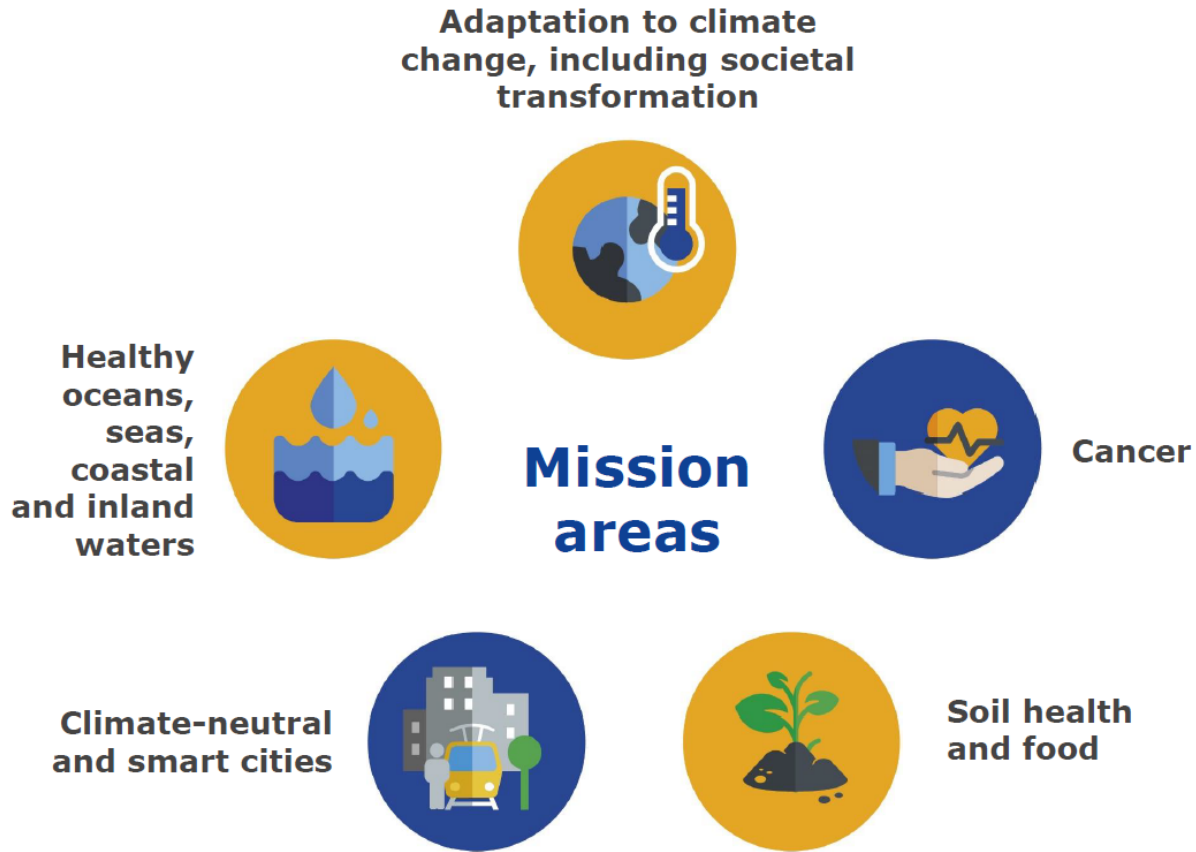
Relacionar mejor la investigación e innovación de la UE con las necesidades de la sociedad y la ciudadanía, con una gran visibilidad e impacto.



A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

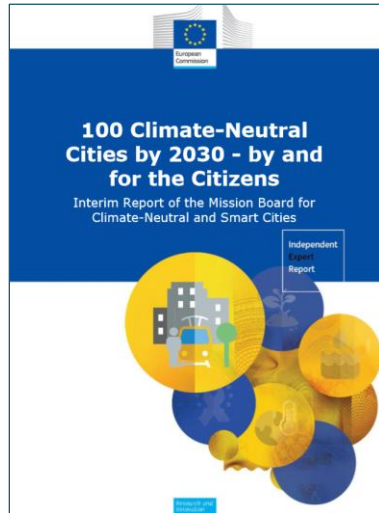
€ 5 billion (tbc) (max. 10% del presupuesto del Pilar 2)
para convocatorias de misiones en los 3 primeros años

Horizon Europe - Mission areas



100 Climate-neutral cities by 2030 by and for the citizens

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- Process formalised in a **Climate City Contract**
- **Co-design and co-implementation with citizens**, as users, producers, consumers and owners
- **Removal of barriers** to participatory governance
- Help for cities to design an **investment strategy** and access to funding
- Cross-sectoral and **systemic transformation**, encompassing transport, energy, built environment, digitalisation, etc
- Strong **business case** for transforming how products are designed, produced, used and recycled

Identification of R&D activities to be implemented in the first Work Programme (2021-2022) of Horizon Europe

Para cualquier consulta

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[CDTI Listas de Distribución](#)