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Oportunidades para la I+D+i
en el nuevo contexto europeo

Economía Circular – Horizonte Europa

Clúster 6. Bioeconomía y Medio Ambiente



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¿Dónde estamos?



EC Priorities (2019-2024)



What is the European Green Deal?

December 2019
#EUGreenDeal

The European Green Deal is about **improving the well-being of people**. Making Europe climate-neutral and protecting our natural habitat will be good for people, planet and economy. No one will be left behind.

The EU will:



Become climate-neutral by 2050



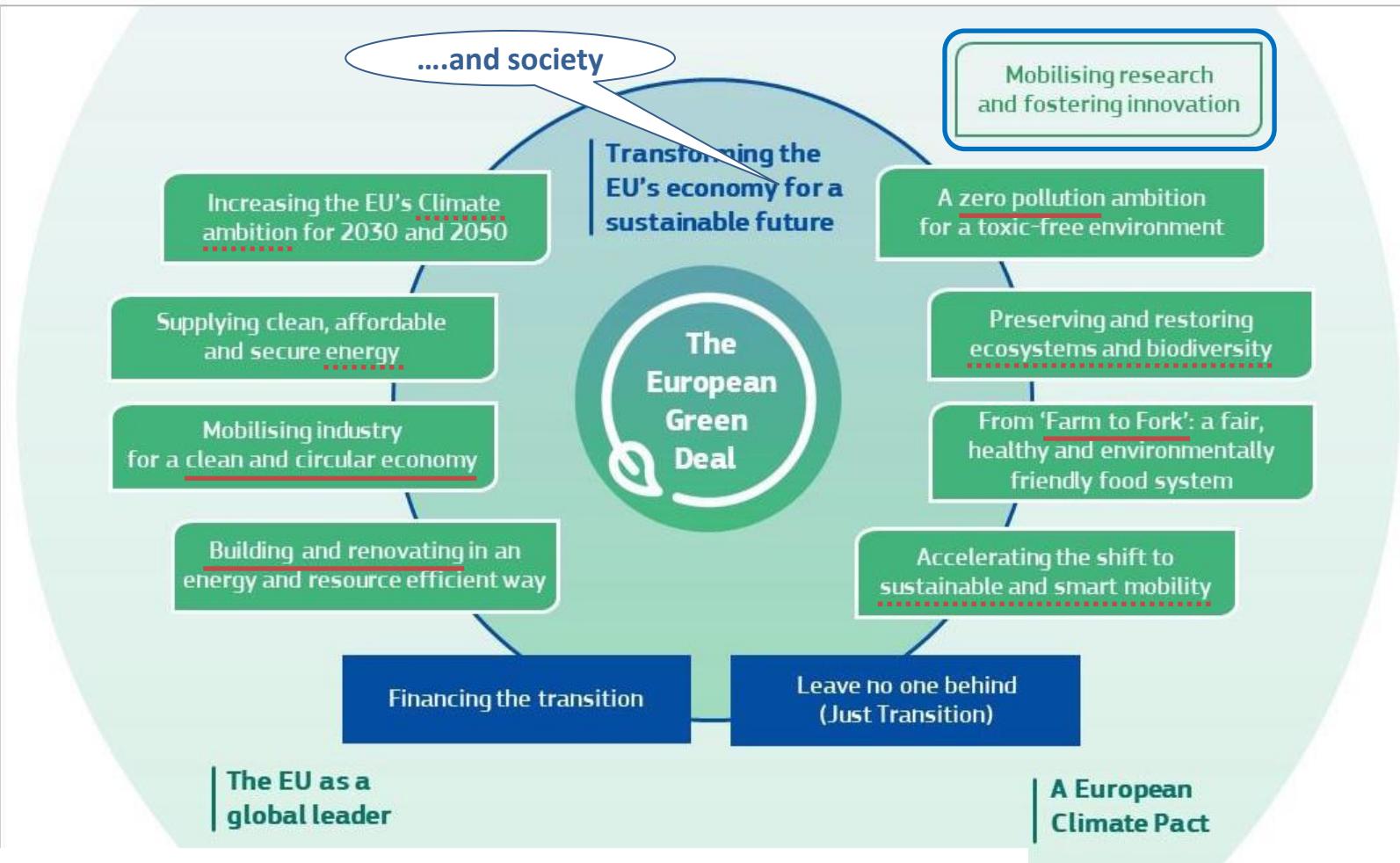
Protect human life, animals and plants, by cutting pollution



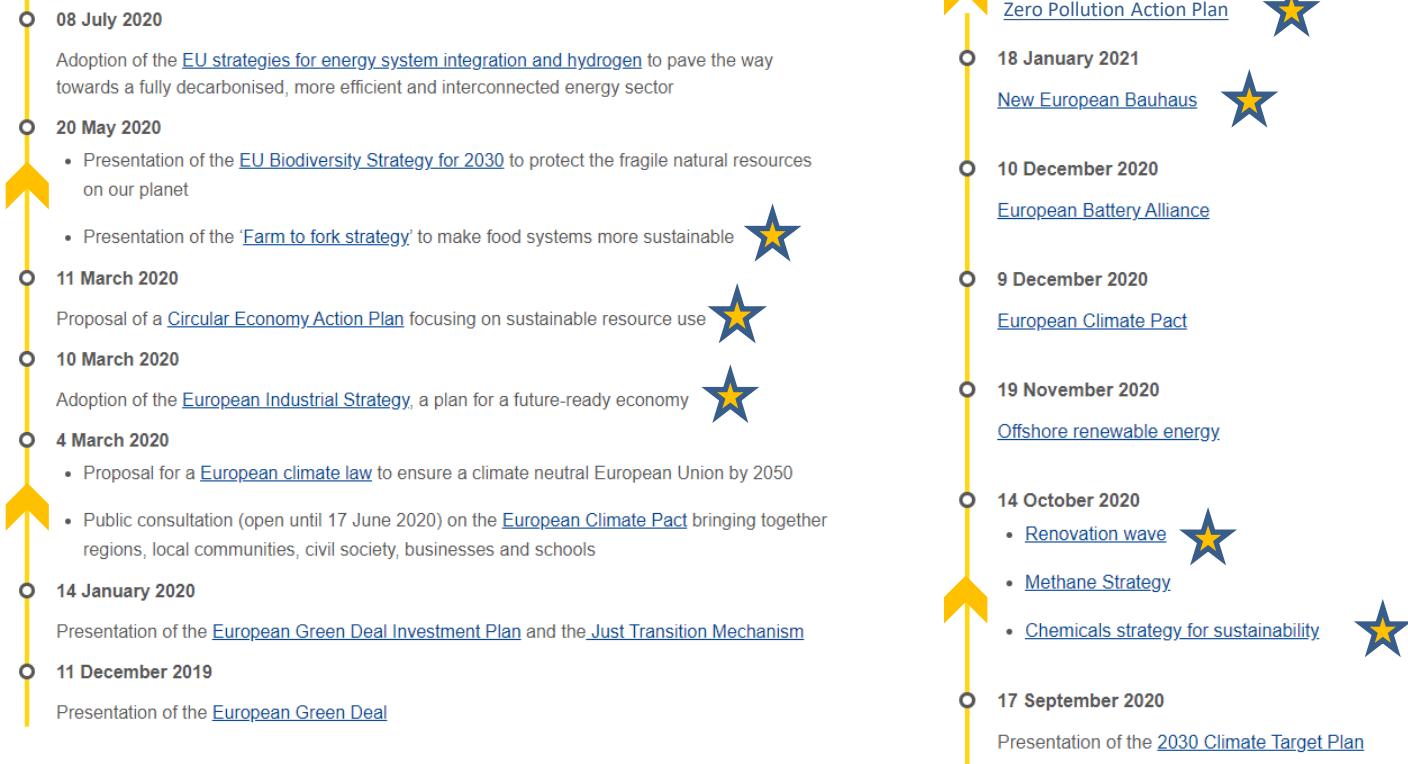
Help companies become world leaders in clean products and technologies



Help ensure a just and inclusive transition

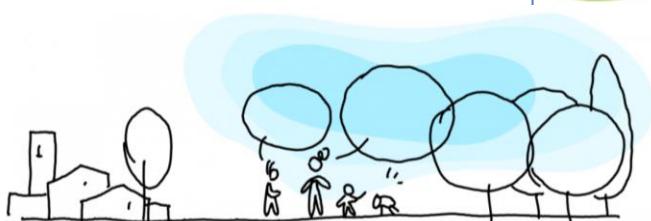
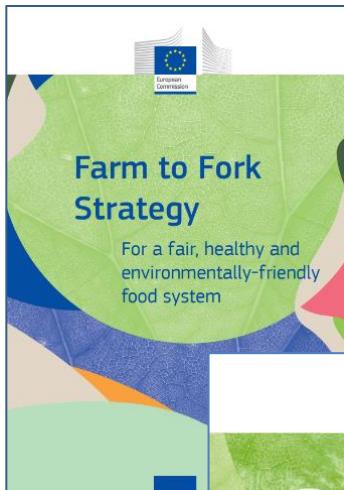
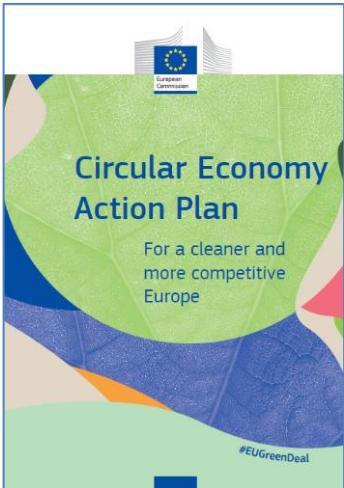


EU Green Deal Timeline



Roadmap –
Key Actions
(2020 - 2021)

¿Dónde estamos?



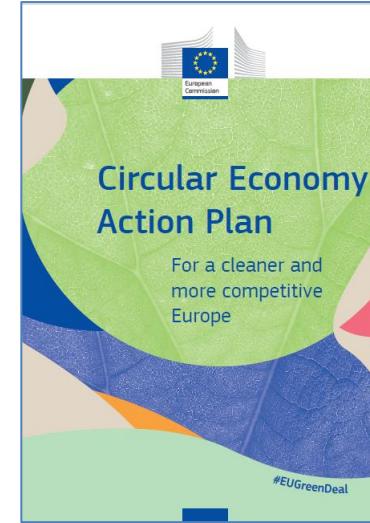
....y otros



¿Dónde estamos?

NEW Circular Economy Action Plan* adopted 11/03/2020

- **Changing how we produce and consume:** New Circular Economy Action Plan shows the way to a climate-neutral, competitive economy of empowered consumers.
- **Focus on the sectors that use the most resources and where the potential for circularity is high.**
 - electronics and ICT
 - batteries and vehicles
 - packaging
 - plastics
 - textiles
 - construction and buildings
 - food



*https://ec.europa.eu/commission/presscorner/detail/en/ip_20_420

Plan de Acción de Economía Circular 2020

Roadmap – Key Actions (2020 - 2023)

- Make **sustainable products the norm** in the EU;
- **Circularity in production processes**, linked to the **European Industrial Strategy** and the **new SME strategy**
- Empower consumers and public buyers;
- Ensure less **waste** to get more value
- Make **circularity work for** people, regions and cities;
- Lead global efforts on circular economy;
- **Focus on** the sectors that use most resources and where the potential for circularity is high.



*https://ec.europa.eu/commission/presscorner/detail/en/ip_20_420

¿De dónde venimos? Circular Economy Package 2015

Implementación finalizada en 2019



Jyrki Katainen

@jyrkikatainen

Follow

Three years after adoption, the #CircularEconomy Action Plan can be considered fully completed. Its 54 actions have now been delivered or are being implemented. Europe's potential for sustainable growth is huge! Read more from our press release: europa.eu/rapid/press-re...

4:07 AM - 4 Mar 2019

[Closing the loop: Commission delivers on Circular Economy Action Plan](#)

Circular Economy Package 2015: Implementación

En 2019, Circular Economy Action Plan se había completado



Horizon 2020.-

- Dedicated call : "Industry 2020 in the circular economy", (€650 million in 2016 -2017)
- Focus Area "Connecting economic and environmental gains – the Circular Economy", (€940 million calls in 2018-2019-2020)

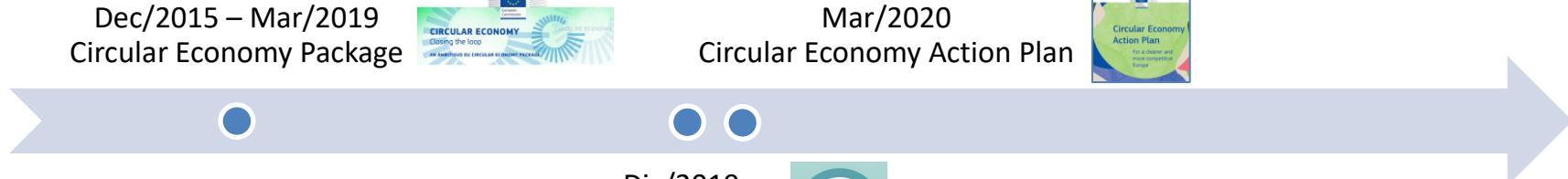
...y otras acciones



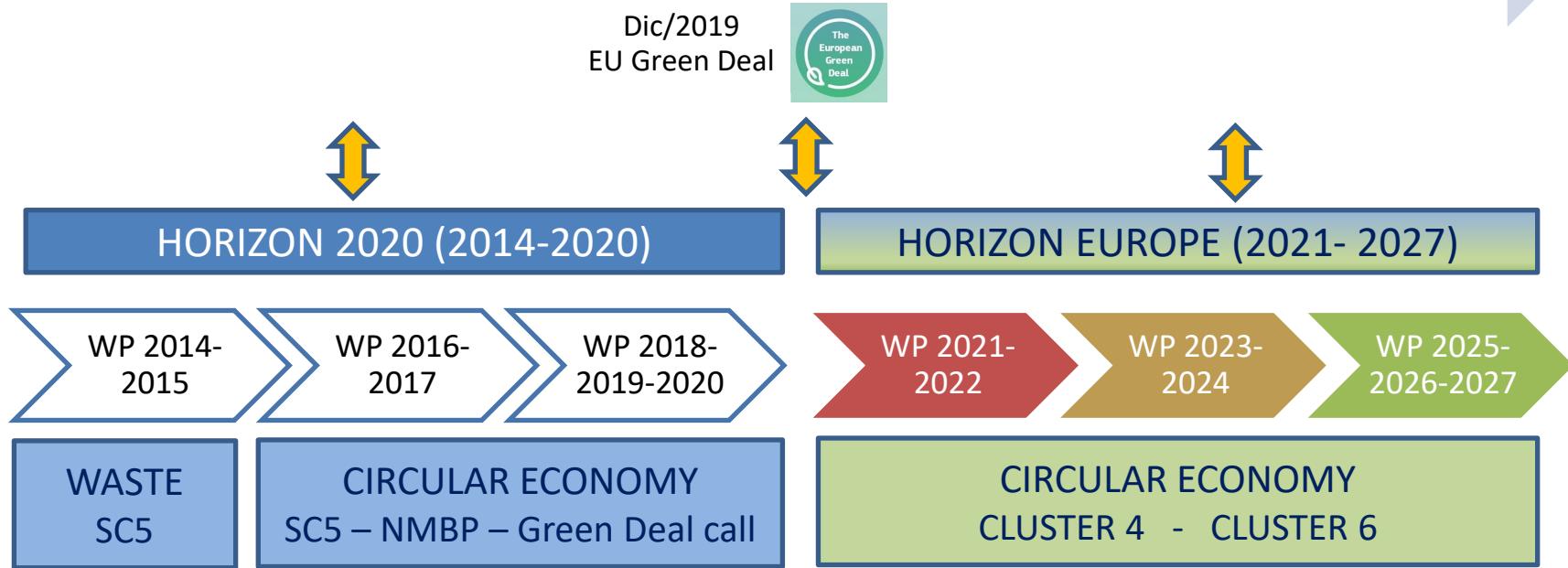
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Policies



R&I EU Framework Programmes



EARTO retuiteó



Jean-Eric Paquet
@JEPaquetEU

@EUSciencelnov will contribute to all the headline ambitions of the @EU Commission!

EU R&I is one of the most powerful policies to boost our economies, it's an engine of the green & digital transitions & stairways to 'the future we want': ec.europa.eu/info/publicati...



Mariya Gabriel
@GabrielMariya

#HorizonEU will support:

- ◆ excellent frontier #research
- ◆ #culture & #creative industries
- ◆ breakthrough #innovation #SMEs #Startups
- ◆ #EUResearchArea
- ◆ #green & #digital transitions
- ◆ strong international cooperation
- ◆ widening participation

And more europa.eu/HT43FW



NEW

Horizonte Europa

Publicación en el DOUE y entrada en vigor el **12/05/2021** (aplicable a partir del 1 de enero de 2021).

- **Reglamento** por el que se crea el **Programa Marco de Investigación e Innovación «Horizonte Europa»** y se establecen sus normas de participación y difusión
- **Decisión** que establece el **Programa Específico** por el que se ejecuta el **Programa Marco de Investigación e Innovación «Horizonte Europa»**

Horizon Europe Budget (2021 – 2027)

PILLAR 1 – EXCELLENT SCIENCE	25.011	PILLAR 2 – GLOBAL CHALLENGES AND EUROPEAN INDUSTRIAL COMPETITIVENESS	53.516	PILLAR 3 – INNOVATIVE EUROPE	13.597
ERC – European Research Council	16.004	Cluster 1 - Health	8.246	EIC- European Innovation Council	10.105
		Cluster 2 – Culture, Creativity and Inclusive Society	2.280		
		Cluster 3 – Civil Security for Society	1.596	European innovation ecosystems	527
MSCA - Marie Skłodowska-Curie Actions	6.602	Cluster 4 - Digital, Industry and Space	15.349		
		Cluster 5 – Climate, Energy and Mobility	15.123		
Research Infrastructure	2.406	Cluster 6 - Food, Bioeconomy, Natural Resources, Agriculture and Environment	8.952	EIT – European Institute of Innovation and Technology	2.965
		JRC – Joint Research Centre	1.970		

Widening Participation and Strengthening the European Research Area	3.393
Widening participation and spreading excellence	2.955
Reforming and Enhancing the European R&I system	438

Pillar II. Global Challenges and European Industrial Competitiveness

Areas of Intervention PGA April/2019)	1) Health	2) Culture, creative, and Inclusive Society	4) Digital, Industry and Space	5) Climate, Energy and Mobility	6) Food, Bioeconomy, Natural Resources, Agriculture and Environment
	Health throughout the Life Course	Democracy and Governance	Manufacturing Technologies	Climate Science and Solutions	Environmental Observation
	Environmental and Social Health Determinants	Culture, Cultural Heritage and Creativity (H2020 in SC5 and SC6)	Key Digital Technologies, including quantum technologies	Energy Supply	Biodiversity and Natural Resources
	Non-communicable and Rare Diseases	Social and Economic Transformations	Emerging Enable Technologies	Energy Systems and Grids	Agriculture, Forestry and Rural Areas
	Infectious Diseases, including poverty-related and neglected diseases		Advanced Materials	Buildings and Industrial Facilities in Energy Transition	Sea And Oceans and Inland Waters
	Tools, Technologies and Digital Solutions for Health and Care, including personalised medicine	3) Civil Security for Society	Artificial Intelligence and Robotics	Communities and Cities (H2020 in SC5, Sustainable Cities, and SC3, Smart Cities)	Food Systems
	Health Care Systems	Disaster-resilience Societies (H2020 in SC5 and SC7)	Next Generation Internet	Energy Storage	Bio-based Innovation Systems in the EU bioeconomy
		Protection and Security	Advanced Computing and Big Data	Industrial Competitiveness in Transport	Circular Systems (including Water)
		Cybersecurity	Circular Industries (incl. Raw Materials)	Clean, safe and accessible Transport and Mobility	
			Low-carbon and Clean Industries	Smart Mobility	
			Space, including Earth Observation		



El principio “Do no significant harm (DNSH)” en HE

European
Green Deal

In line with the European Green Deal objectives, the research and innovation activities should not make a significant harm to any of the six environmental objectives (EU Taxonomy Regulation)

The **DNSH principle** needs to be taken into consideration in the **scientific methodology** and **impact** of the project. However, compliance is not mandatory unless explicitly stated.

The six environmental objectives to which no significant harm should be done:



Climate change mitigation



Sustainable use & protection of water & marine resources



Pollution prevention & control



Climate change adaptation



Transition to a circular economy



Protection and restoration of biodiversity & ecosystems

- [EU taxonomy for sustainable activities](#)
- [Technical guidance on the application of “do no significant harm” under the Recovery and Resilience Facility Regulation](#)

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HE - WP 2021 / 22. Cluster 6



EN

Horizon Europe

Work Programme 2021-2022

9. Food, Bioeconomy, Natural Resources, Agriculture and Environment

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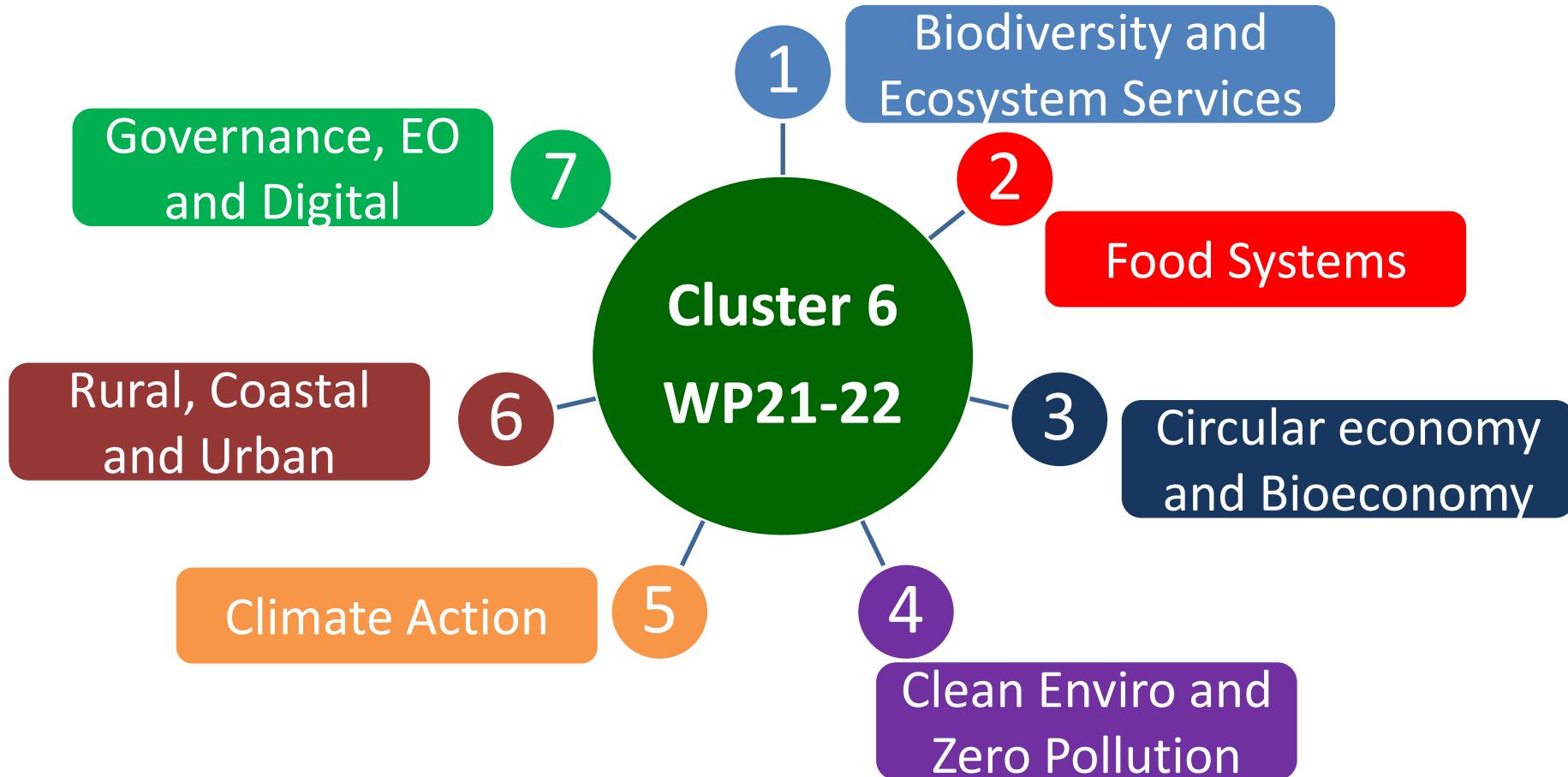
**Draft in the
EC Transparency Portal**



[HORIZON-CL6-2021-2022_04_19_2021.docx](#)



HE - WP 2021 / 22. Cluster 6



HE - WP 2021 / 22. Cluster 6



Destination 3. Circular Economy and Bioeconomy sectors

- Circular Economy transition
- Bio-based systems
- EU forests
- Blue bioeconomy

HE - WP 2021 / 22. Cluster 6 (algunos topics)

Call - Circular economy and bioeconomy sectors

Enabling a circular economy transition

HORIZON-CL6-2021-CIRCBIO-01-01: Circular Cities and Regions Initiative (CCRI)'s circular systemic solutions

HORIZON-CL6-2021-CIRCBIO-01-02: Circular Cities and Regions Initiative's project development assistance (CCRI-PDA)

HORIZON-CL6-2021-CIRCBIO-01-03: Innovative solutions to over-packaging and single-use plastics, and related microplastic pollution

HORIZON-CL6-2021-CIRCBIO-01-04: Increasing the circularity in textiles, plastics and/or electronics value chains

Innovating sustainable bio-based systems and the bioeconomy

HORIZON-CL6-2021-CIRCBIO-01-05: Novel, non-plant biomass feedstocks for industrial applications

HORIZON-CL6-2021-CIRCBIO-01-06: Contained biomass solutions for sustainable and zero-Indirect Land Use Change (ILUC) production systems for high value applications

HORIZON-CL6-2021-CIRCBIO-01-07: Microbiomes for bio-based innovation and environmental applications

HORIZON-CL6-2021-CIRCBIO-01-08: Mainstreaming inclusive small-scale bio-based solutions in European rural areas

Innovating for blue bioeconomy and biotechnology value chains

HORIZON-CL6-2021-CIRCBIO-01-09: Unlocking the potential of algae for a thriving European blue bioeconomy

Borrador

Destination 4. Clean environment and zero pollution

- Halting emissions (soils and water)
- Drinking water
- Pollution on seas and oceans
- Process & product sustainability



HE - WP 2021 / 22. Cluster 6 (algunos *topics*)

Call - Clean environment and zero pollution (2021)

Halting emissions of pollutants to soils and waters

HORIZON-CL6-2021-ZEROPOLLUTION-01-01: Regional nitrogen and phosphorus load reduction approach within safe ecological boundaries

HORIZON-CL6-2021-ZEROPOLLUTION-01-02: Optimisation of nutrient budget in agriculture

Protecting drinking water and managing urban water pollution

HORIZON-CL6-2021-ZEROPOLLUTION-01-03: Preventing and managing diffuse pollution in urban water runoff

Addressing pollution on seas and ocean

HORIZON-CL6-2021-ZEROPOLLUTION-01-04: Achieving zero polluted seas and ocean

Increasing environmental performances and sustainability of processes and products

HORIZON-CL6-2021-ZEROPOLLUTION-01-05: Environmental sustainability criteria for biological resources production and trade in bio-based systems: impacts and trade-offs

HORIZON-CL6-2021-ZEROPOLLUTION-01-06: Increasing the environmental performance of industrial processes in bio-based sectors: construction, woodworking, textiles, pulp and paper and bio-chemicals

HORIZON-CL6-2021-ZEROPOLLUTION-01-07: International and EU sustainability certification schemes for bio-based systems

HORIZON-CL6-2021-ZEROPOLLUTION-01-08: New genomic techniques (NGT): understanding benefits and risks – focus on bio-based innovation

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Borrador

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Algunos mensajes....

- La ECONOMIA CIRCULAR ha venido para quedarse.
- Economía Circular muy ligada a otras políticas y/o iniciativas (Clima, Industria, Materias Primas, ...y otras).
- Muchas acciones en marcha pero.....muchos temas por desarrollarse y soluciones por implementarse.
- Para buscar soluciones son imprescindibles las aproximaciones multi- y trans-disciplinares, incluyendo a todos los actores, (también a ...los consumidores).
- Investigación e Innovación como respuesta a los problemas/retos y de ayuda en la definición y cumplimiento de políticas. Indispensables para la transición e implantación de la Economía Circular.
- I+D+I en aspectos tecnológicos pero también en sostenibilidad (ambiental, social y económica), salud, seguridad, aceptación social, normativa /regulación y.....modelos de negocio y explotación..



Enlaces de interés

- **Jornada de presentación en España, Horizonte Europa:**
<https://eventos.cdti.es/ES/PresentacionHorizonteEuropa>
- **InfoDays:**
InfoDay CDTI Clúster 6 → https://eventos.cdti.es/ES/Infoday_Nacional_HE_CLUSTER6_2021
InfoDay Comisión Europea ????????
- **Horizonte Europa:** https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme_en
- **Proyectos financiados:** http://cordis.europa.eu/projects/home_en.html
- **F&T Portal:** <http://ec.europa.eu/research/participants/portal>
- **Listas de distribución:** <http://eshorizonte2020.es/suscripcion>

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+ info sobre programas y ayudas
para la
internacionalización de la I+D+i española



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