

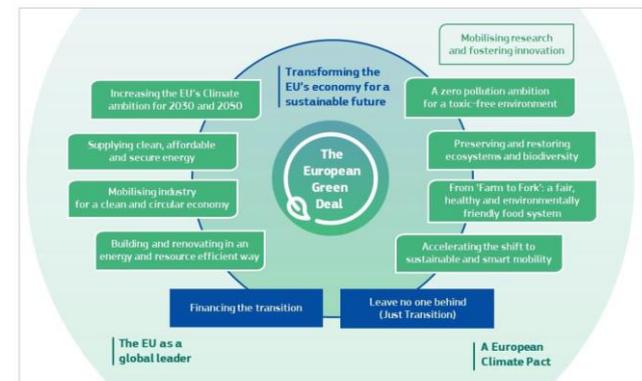


# The Call Green Deal Webinar

Thursday 22 October 2020,  
2 to 3:30 pm

[#EUGreenDeal](#)  
[#ResearchImpactEU](#)

- The Green Deal Call - the policies
- The Call Overview
- Presentation of the Call Areas
- Green Deal Networking Meetings
- Q&A





# The Call Green Deal The Policies

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**#EUGreenDeal**  
**#ResearchImpactEU**



- 1. The European Green Deal - the main elements (EC Communication – Dec, 2019)**
- 2. The European Green Deal – designing a set of transformative policies**
- 3. Sustainable Europe Investment Plan / European Green Deal Investment Plan (EC, Jan 2020)**



*On December 12, 2019 the European Commission has published a Communication which sets a "European Green Deal" for the European Union and its citizens.*

### Scope of the Green Deal

*It is a new growth strategy that aims to transform the EU into a fair and prosperous society, with a modern, resource-efficient and competitive economy where there are no net emissions of greenhouse gases in 2050 and where **economic growth is decoupled from resource use.***

*It also aims to **protect, conserve and enhance the EU's natural capital**, and protect the health and well-being of citizens from environment-related risks and impacts.*

[Link to the Communication](#)



The Green Deal refers to many strategies, policies and legal documents. Here some examples:

- EU's Recovery Plan for Europe
- Paris Agreement
- Sustainable Development Goals (SDGs)
- Clean Planet for All Communication
- R&I Partnership on Climate Change and Sustainable Energy – EU – African Union High level Policy Dialogue on Science, technology and Innovation.
- HL expert Group on Energy-Intensive Industries
- IPCC Reports

Moreover this Communication presents an initial roadmap of the key policies and measures needed to achieve the European Green Deal; all EU actions and policies will have to contribute to the European Green Deal objectives.

[Link to the Roadmap - Key Actions](#)



### 1. Increasing the EU's climate ambition for 2030 and 2050

- [EU Climate Action and Green Deal](#)
- Proposal on a [European 'Climate Law'](#) enshrining the 2050 climate neutrality objective
- Comprehensive [plan to increase the EU 2030 climate target](#) to at least 50% and towards 55% in a responsible way (2030 Climate Target Plan)
- New EU Strategy on Adaptation to Climate Change (2020/2021)



### 2. Supplying clean, affordable and secure energy

- Assessment of the final National Energy and Climate Plans (June 2020)
- [Clean Energy and the Green Deal](#) - strategies (2020)



### 3. Industrial strategy for a clean and circular economy

- A new [Industrial strategy for Europe](#) (march 2020)
- [Circular Economy Action Plan](#) (march 2020)
- An [SME Strategy](#) for a sustainable and digital Europe
- [BIT II - Bioeconomy in Italy](#): A new bioeconomy strategy for a sustainable Italy (2019)

**BIOECONOMY IN ITALY**

Indicator	2018	2019	2020	2021	2022	2023	2024	2025
Value added	10.5	11.5	12.5	13.5	14.5	15.5	16.5	17.5
Employment	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
Export	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2
Import	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
Net exports	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Investment	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
Research and development	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Government expenditure	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Government revenue	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Government deficit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Government debt	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Government assets	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Government balance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Government debt to GDP	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Government assets to GDP	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Government balance to GDP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Government debt to GDP	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Government assets to GDP	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Government balance to GDP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

The bioeconomy in Italy is 244 billion € with 1.5 million employed

### 4. Building and renovating in an energy and resource efficient way

- legislation related to the energy performance of buildings
- Commission proposes to work with stakeholders on a new initiative on renovation in 2020
- [A Renovation Wave for Europe](#) - greening our buildings, creating jobs, improving lives (2020)

### 5. Accelerating the shift to sustainable and smart mobility

- A [strategy for sustainable and smart mobility in 2020](#)
- Proposal for more stringent air pollutant emissions standards for combustion-engine vehicles (expected 2021)

### 6. From ‘Farm to Fork’: designing a fair, healthy and environmentally-friendly food system

- [‘Farm to Fork’ Strategy \(may2020\)](#)



### 7. Preserving and restoring ecosystems and biodiversity

- [EU Biodiversity Strategy for 2030](#) (may 2020)
- [New EU Forest Strategy](#)

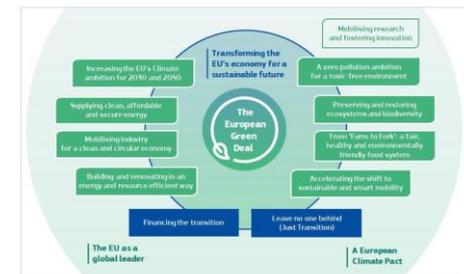


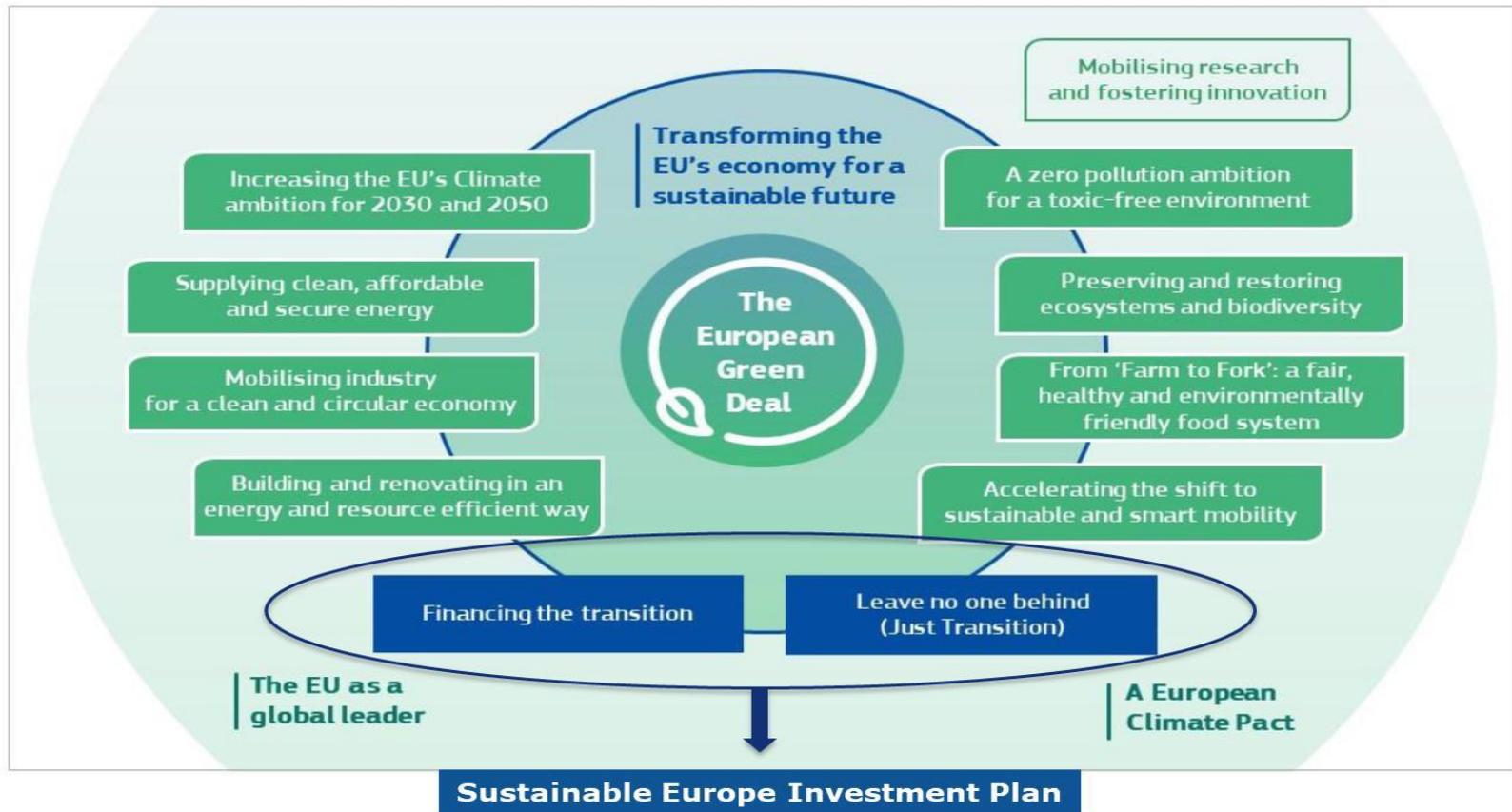
### 8. A zero pollution ambition for a toxic-free environment

- [Chemicals strategy for sustainability](#)
- [Zero pollution action plan for water, air and soil](#)

**The Sustainable Europe Investment Plan is the investment pillar of the European Green Deal.**

The Sustainable Europe Investment Plan will mobilise through the EU budget and the associated instruments at least **EUR 1 trillion** of private and public sustainable investments over the upcoming decade





“At least 35 % of the budget of Horizon Europe will support climate objectives”.



# The Call Green Deal Overview

Thursday 22 October 2020  
2 to 3:30 pm

**#EUGreenDeal**  
**#ResearchImpactEU**



**Call ID:** H2020-LC-GD-2020

**Call Title:** Building a low-carbon, climate resilient future: Research and innovation in support of the European Green Deal

[Link to the Funding & Tenders Portal](#)

**Opening date:**

22 September 2020

**Deadline date:**

26 January 2021 17:00:00 Brussels time

**Evaluation:**

Spring 2021

**First projects start:**

Summer 2021

**All GA signed:**

31 December 2021

**Budget:** 983 Million €





# 1 Call

## 10 Areas

### 20 Topics

& many sub-topics  
(to choose!)

#### 8 Principal Areas:

- Area 1: Increasing **Climate** Ambition: Cross sectoral challenges
- Area 2: Clean, affordable and secure **energy**
- Area 3: Industry for a clean and **circular economy**
- Area 4: Energy and resource efficient **buildings**
- Area 5: Sustainable and smart **mobility**
- Area 6: **Farm to Fork**
- Area 7: **Biodiversity** and ecosystem services
- Area 8: **Zero-pollution, toxic free** environment

#### and 2 Supporting Areas

- Area 9: Strengthening our **knowledge** in support of the EGD
- Area 10: Empowering **citizens** for the transition towards a climate neutral, sustainable Europe



“This last call under Horizon 2020 differs in important respects from previous ones.

Given the immediacy of the twin challenges [*climate crisis and Europe's recovery after Covid-19*] it addresses, it aims for **clear, discernible results** in the **short- to medium-term**, embedding them in a perspective of long-term change. Interventions are **more targeted**, resulting in **fewer, but at the same time larger and more visible, actions**, with a focus on **rapid scalability, dissemination and uptake**.

Demonstrating the feasibility of **new technologies and solutions**, and paving the way to their commercialization, is key but **experimentation, social innovation and citizen engagement** are just as critical.”

*(Green Deal Call)*

clear results

short-medium term

fewer bigger projects

strong impact (scalability, dissemination and uptake)

new technologies & social innovation

The Green Deal call is the last “extraordinary” call in Horizon 2020 but anticipates some relevant features of the next research and innovation framework programme Horizon Europe

- 1. 35% of the budget** in Horizon Europe will be dedicated to green topics
- 2. Four of the five Missions in Horizon Europe** cover green topics:
  - [Adaptation to climate change including societal transformation](#)
  - [Healthy oceans, seas coastal and inland waters](#)
  - [Climate-neutral and smart cities](#)
  - [Soil health and food](#)
- 3. Port-folio approach**: many projects funded within the same call/topic are requested to interact and integrate with each other



“This call for proposals is a **direct contribution to the European Commission’s European Green Deal Communication**” (Green Deal Call)



The Green Deal Call refers to many legal and political documents. Here some examples just from the overall Call introduction:

- EC [European Green Deal Communication](#)
- EU’s [Recovery Plan](#) for Europe
- [Paris Agreement](#)
- [Sustainable Development Goals](#) (SDGs)
- EC [Clean Planet for All](#) Communication
- [R&I Partnership on Climate Change and Sustainable Energy](#)  
– EU – African Union High level Policy Dialogue on Science, technology and Innovation.
- [Masterplan for a Competitive Transformation of EU Energy-Intensive Industries](#)
- A [New Industrial Strategy](#) for Europe
- [Farm to Fork](#) Strategy
- [Biodiversity Strategy](#) to 2030

1. **Check for policies and regulations** mentioned in the topic texts
2. **Refer** to them throughout **your application**
  - “1.2 Relation to the Work Programme”
  - and “2. Impact”

Most topics has a strong **innovation focus**:

- Most are **Innovation Actions (IA)**:
  - **12** out of 20 topics
  - **80%** of the call budget goes to IA
- Many **big projects** are going to be funded (> 10 Million €)
- Many have a **specified TRL** starting or end point (see the table)

Even RIA and CSA project are expected to create a **concrete impact on society** in short-term (social innovation):

- change on individual behaviour
- change in legal / regulatory framework
- change in the economic sectors

Topic	TRL (from)	TRL(to)
LC-GD-2-1-2020 (RIA)		4-5
LC-GD-2-1-2020 (IA)		7
LC-GD-3-1-2020 (IA)	4-5	7
LC-GD-3-2-2020 (IA)		6-7
LC-GD-4-1-2020 (IA)	5-6	7-8
LC-GD-5-1-2020 (IA)		6
LC-GD-6-1-2020 (IA)		5-7
LC-GD-8-1-2020 (RIA)		4-6

**The European Green Deal is the EC growth policy and – after Covid-19 – part of the recovery strategy of the EU**



*“The challenge is not just technical: it requires profound adaptations in lifestyles and behaviour.*

*Research and innovation offers unique opportunities to reach out and engage with Europe’s citizens in novel ways, identifying and addressing specific vulnerabilities with a view to ensuring that no one is left behind by the transition.*

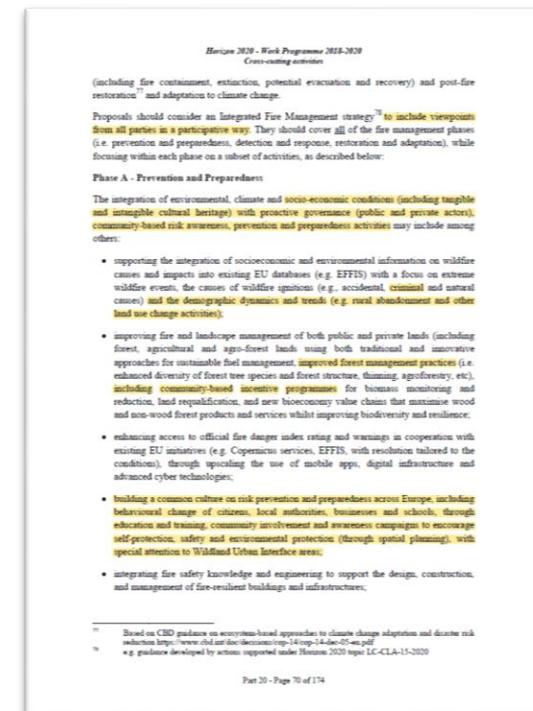
*Mainstreamed throughout this call, these aspects are also covered via specific actions, aiming for improved societal relevance and impact.”*

(Green Deal Call)

**Area 9 and 10** are specifically dedicated to societal and human dimension  
But **almost all topics** require an involvement of SSH disciplines as well as the citizens’ and communities’ involvement

- Analysis of **behaviours** at individual and community / urban level
- Analysis of **economic** dimension
- Definition of **financial instruments** to support green policies
- Analysis of the **legal framework** and elaboration of **recommendation**
- **Co-design** with and **Engagement** of citizens / regions / communities
- **Empowerment** of citizens
- **Multi-actors** approach

1. Check the **call text** commented by Area Ricerca  
we have highlighted all phrases and terms referring to this societal dimension
2. Have an **inter-disciplinary team** and partnership  
Participate in the networking events next week organised by Area Ricerca
3. For *STEM researchers*: participate in the [Net4Society Brokerage Event](#) (27/10/2020) to search for SSH partners
4. For *SSH researchers*: participate in the other Brokerage Events to search for a consortium to join.
5. Adopt the relevant **methodologies**  
multi-actor approach, social experimentation, co-design
6. Give the **due relevance to SSH team**  
e.g. specific WP leadership
7. Reserve a **relevant budget** to 'SSH' WP / tasks

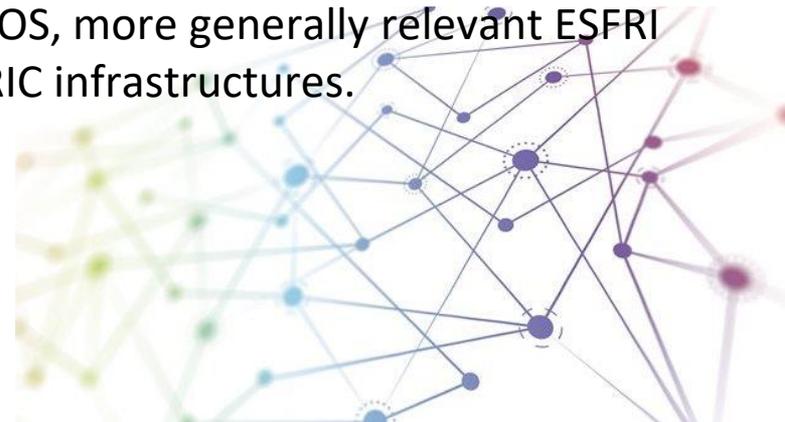


For **all** topics  
a **port-folio approach** is adopted

- The European Commission intends to establish **network activities for the funded projects** in the areas of the European Green Deal Call (see 'other actions').
- Supported **projects are requested** to contribute to the networking and experience sharing activities.
- **Applicants must acknowledge** and integrate these obligations **in their proposal**.
- It will be a **contractual obligation** in the Grant Agreement Article 29.1 !

For **many** topics  
Applications and projects must **network with already existing initiatives**. E.g.

- LG-GD-1-2-2020 (*Climate-neutral cities*): many programmes like EIP Smart Cities, EIT Climate KIC, JPI Urban Europe
- LG-GD-9-1-2020 (*Research Infrastructures*): research infrastructures ICOS, ACTRIS and IAGOS, more generally relevant ESFRI / ERIC infrastructures.



## MANDATORY

International (extra-EU) cooperation is **mandatory** in one topic **LC-GD-2-3-2020 (Green transition in Africa)**

- At least two partners from at least one African country must be part of the consortium
- But balanced consortium between EU and Africa is recommended



## RECOMMENDED

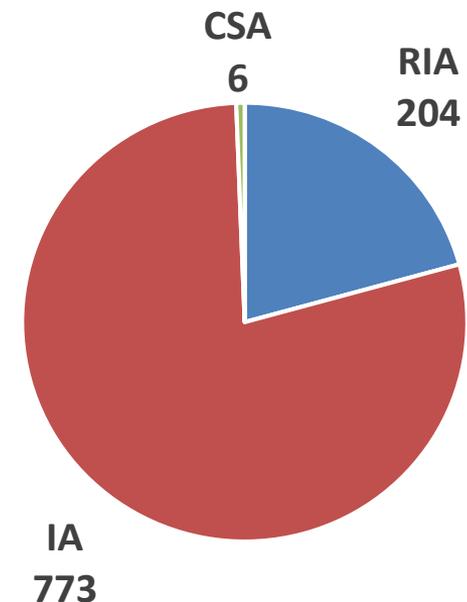
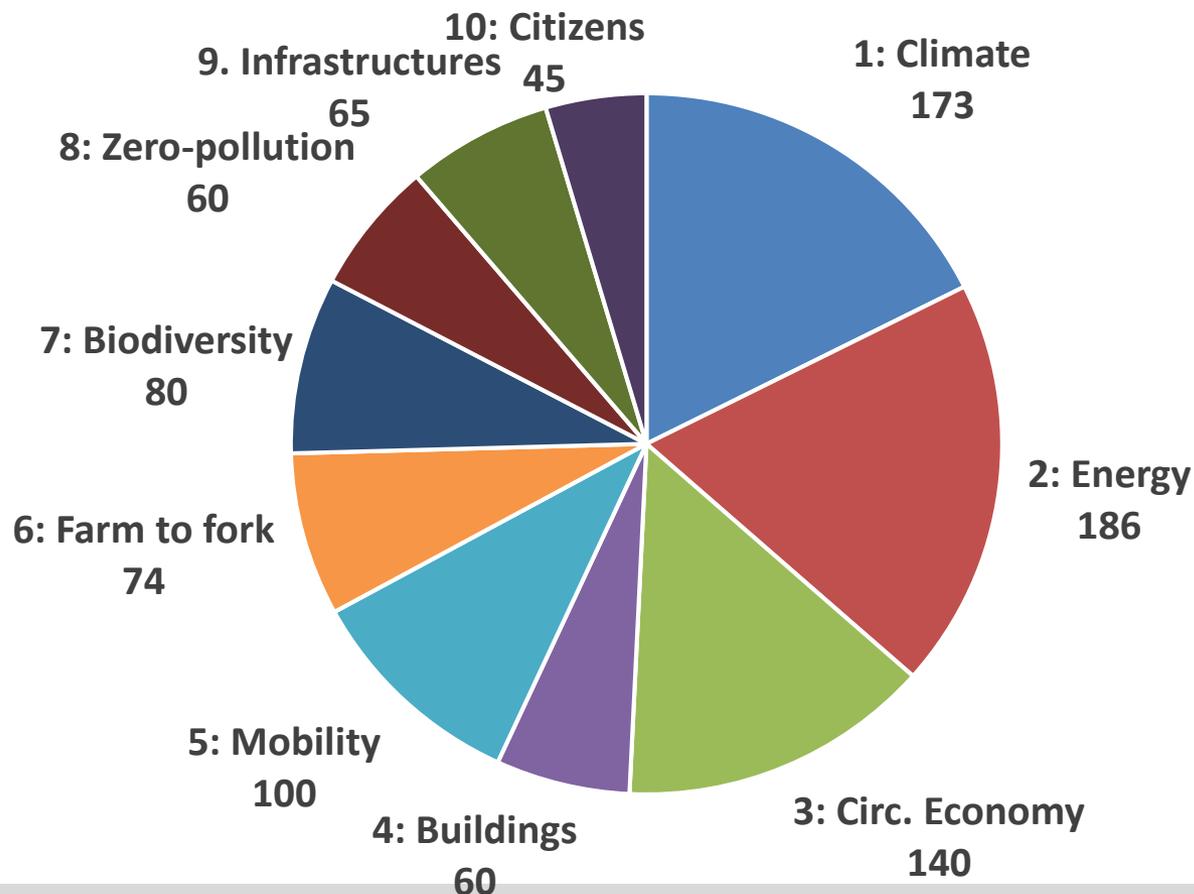
In many other topics, international cooperation is **encouraged**

- LC-GD-1-1-2020 (*Wildfires*)  
→ US, Canada, Australia, Russia, Japan, Brazil, South America, Indonesia, South Africa
- LC-GD-5-1-2020 (*Renewable energy*)
- LC-GD-6-1-2020 (*Farm to Fork*)
- LC-GD-7-1-2020 (*Restoring biodiversity*)
- LC-GD-9-1-2020 (*RI*)  
→ attention to initiatives outside EU
- LC-GD-9-2-2020 (*End-users products and services*)
- LC-GD-10-1-2020 (*Citizens deliberation*)
- LC-GD-10-2-2020 (*Behav., social, cult. change*)



**983 Million €**

for the whole call





Topic	Sub topics	Type Action	Budget (M€)	Grant (M€)	Funded projects *	International Dimension	TRL
<a href="#">LC-GD-1-1-2020</a>	2	IA	72	15 - 20	3-4		-
Wildfires		CSA	3	2 - 3	1	encouraged	-
<a href="#">LC-GD-1-2-2020</a>	-	RIA	53	up to 53	1		-
Climate-Neutral Cities							
<a href="#">LC-GD-1-3-2020</a>	2	IA	42	10 - 15	3-4		-
Climate-resilient Package		CSA	3	avg. 3	1		-
<a href="#">LC-GD-2-1-2020</a>	2	RIA	18	3 - 6			up to 4/5
Renewable energy tech		IA	68	20 - 35	2-3		up to 7
<a href="#">LC-GD-2-2-2020</a>	-	IA	60	25 - 30	2-3		-
100MW electrolyser							
<a href="#">LC-GD-2-3-2020</a>	-	IA	40	5 - 10	4-8	<b>mandatory (Africa)</b>	-
Green transition in Africa							
<a href="#">LC-GD-3-1-2020</a>	-	IA	80	up to 40	2		from 4/5 to 7
Catalytic routes							
<a href="#">LC-GD-3-2-2020</a>	-	IA	60	10 - 20	3-6		up to 6/7
Circular economy							
<a href="#">LC-GD-4-1-2020</a>	-	IA	60	10 - 20	3-6		from 5/6 to 7/8
Efficient buildings							
<a href="#">LC-GD-5-1-2020</a>	2	IA	100	15 - 25	4-6	encouraged	up to 6
Green airports and ports	Areas						



Topic	Sub topics	Type Action	Budget (M€)	Grant (M€)	Funded projects *	International Dimension	TRL
<a href="#">LC-GD-6-1-2020</a> Farm to fork	6	IA	74	6 - 12	6-12	encouraged	up to 5/7
<a href="#">LC-GD-7-1-2020</a> Restoring Biodiversity	-	IA	80	16 - 25	3-5	encouraged	-
<a href="#">LC-GD-8-1-2020</a> Zero-pollution solutions	-	RIA	40	8 - 12	3-5		from 4/6 to 8
<a href="#">LC-GD-8-2-2020</a> Industrial chemicals	-	RIA	20	4 - 6	3-5		-
<a href="#">LC-GD-9-1-2020</a> Research infrastructures	3	RIA	28	(a) max 7, (b) max 13, (c) max 8	n.a.	encouraged	-
<a href="#">LC-GD-9-2-2020</a> End-user products & services	-	RIA	25	3 - 5	5-8	encouraged	-
<a href="#">LC-GD-9-3-2020</a> Transparent Seas	-	IA	12	up to 12	1		-
<a href="#">LC-GD-10-1-2020</a> Citizen deliberation	-	RIA	10	3 - 5	2-3	encouraged	-
<a href="#">LC-GD-10-2-2020</a> Behavioural social change	-	RIA	10	3 - 5	2-3	encouraged	-
<a href="#">LC-GD-10-3-2020</a> Education and citizens science	2	IA	25	3 - 5	2-3		



# Green Deal Call

## Areas 1-4

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## Increasing Climate Ambition: Cross sectoral challenges

Research and innovation needs for climate mitigation and adaptation



3 sectors:

- (1) the devastating impacts of recurrent wildfires across Europe
- (2) the pivotal role of Europe's cities in driving climate action and related social and governance innovation
- (3) the equally important responsibility of Europe's regions to accompany and assist their communities and economies in adapting to climate change

[Clean Planet for All Communication](#), EC COM (2018) 773 final, Brussels, 28 November 2018



Preventing and fighting extreme wildfires with the integration and demonstration of innovative means - LC-GD-1-1-2020 (IA: 72M; CSA: 3M)

- ✓ Activities should include: preventing, predicting, monitoring and fighting wildfires
- ✓ Activities should involve relevant international, national and EU agencies and end-users

*Climate change mitigation potential*

*Impact on human health*

*Governance, policies, digital technologies (big data, AI), models, equipment, citizens and local communities involvement, bio-economy, health measures*

**Focus**

Cooperate with ongoing relevant Horizon 2020 projects and make best use of existing EU initiatives and services (such as Copernicus, Galileo and EGNOS). Multilateral international cooperation.

**IA** – Grants 15-20M€, funded 3-4 proposals

**CSA** – Grants 2-3M€, funded 1 proposal

## [Towards Climate-Neutral and Socially Innovative Cities - LC-GD-1-2-2020](#) (RIA: 53M)

- ✓ Develop a platform providing technical, regulatory, financial, socio-economic expertise and assistance to cities for developing their action plans
- ✓ The platform should facilitate the coordination of ongoing European activities in the area of climate neutrality for cities and should be sustainable, scalable and self-financed beyond the life of the action

Address **all** the 4 activities:

1. Climate action plans and Green Deal innovation
2. Investment project preparation and finance
3. Social innovation and citizens' engagement
4. Research and Innovation for climate-neutral transformation of cities

### **Focus**

Citizens' engagement; Third parties involvement; large scale pilots with cities; Only one BIG proposal funded! Max grant 53M€



[Climate-resilient Innovation Packages for EU regions - LC-GD-1-3-2020](#) (IA: 42M; CSA: 3M)

Actions funded: early facilitators in pre-identifying and upscaling the most promising cross-sectoral solutions at a regional scale

Address **one** of the subtopics:

1. IA - Innovation Packages for transformational adaptation of European regions and communities
2. CSA - Support the design, testing and upscale of Innovation Packages

*Facing global warming consequences*

*Radical and transformative ways of reducing climate vulnerability and building resilience*

*Demonstrate at large scale systemic solutions*

**Focus**

Multidisciplinary approaches that integrate technological, digital, business, governance, environmental dimensions with social innovation

Horizon Europe Mission on Adaptation to Climate Change

**IA** – Grants 10-15M€, funded 3-4 proposals

**CSA** – Funded 1 proposal

## Clean, affordable and secure energy

Further decarbonising the energy system is fundamental for reaching the climate targets set for 2030 and 2050

Renewable source and their smart integration

Use of Hydrogen and a power source

Improving energy storage solutions

R&I in networks, energy storage, and sector integration



Cross cutting: low-cost, circularity, energy poverty

EU and other developed nations have committed to assisting emerging and less developed ones in their transition to cleaner, more sustainable energy systems (e.g. [R&I Partnership on Climate Change and Sustainable Energy](#) under the European Union/African Union High-Level Policy Dialogue on Science, Technology and Innovation )



[Innovative land-based and offshore renewable energy technologies and their integration into the energy system - LC-GD-2-1-2020](#) (RIA: 18M; IA: 68M)

Address one of the subtopics

1. RIA -Development of land-based renewable energy technologies and their integration into the energy system
2. IA -Demonstration of innovative technologies to enable future large scale deployment of offshore renewable energy

*Integration of offshore resources in the energy system (grid or power-to-X)*

*Sustainable, efficient, cost-effective, affordable and secure technologies*

*Wind, solar, wave and/or tidal*

*Different European sea basins (Baltic, North, Mediterranean, Black Sea, and Atlantic Ocean)*

**Focus**

**RIA** – TRL final 4-5, Grants 3-6M€, funded 3-6 proposals

**IA** – TRL final 7, Grants 20-35M€, funded 2-3 proposals

[Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and commercial/industrial applications - LC-GD-2-2-2020 \(IA: 60M\)](#)

The scope of this project is to install and operate a 100 MW electrolyser to produce renewable hydrogen, as energy carrier or as a feedstock

- ✓ Hydrogen: develop larger modules than the state of the art
- ✓ Reduced balance of plant (via input power, output hydrogen and oxygen streams, heat flows) + reliability of the system and reduced footprint
- ✓ The modules need to be assembled into a 100MW electrolyser system (testing and demonstration in real life conditions)

*Economic, safety, social/societal impact and environmental assessments*

## **Focus**

Mandatory knowledge sharing activity

Funding rate reduced to 50% - incentivized combination with other EU/national funding

Duration 5 years with 2 years of operation – include a go/no go point before deployment

Grants 25-30M€, funded 2-3 proposals



[Accelerating the green transition and energy access Partnership with Africa - LC-GD-2-3-2020](#) (IA: 40M)

Innovative sustainable energy solutions: climate adaptation and mitigation potential in the African social, economic and environmental context

*Economic, environmental, social and health benefits*

*Affordability, suitable distribution channels, engagement with civil society*

**Focus**

Involvement of private and/or public European and African investors to sustainable energy solutions

Balanced consortium between European and African partners

Participate in and contribute to the EU/AU Partnership on Climate Change and Sustainable Energy

Consider both urbanised and rural contexts in Africa

Grants 5-10M€, funded 4-8 proposals

## Industry for a clean and circular economy

Energy-intensive industries, particularly steel, chemicals and cement account for 20% of the EU's greenhouse-gas emissions - their decarbonisation and transformation is a top priority

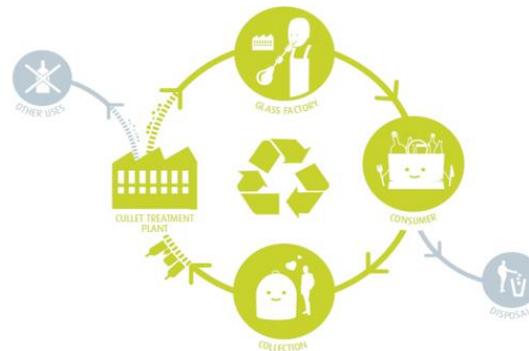
Switching to alternative, climate-neutral energy and feedstock sources

Adopting more circular product designs

Increasing Europe's autonomy in raw materials

Supportive policy measures, helping consumers to make more informed choices

[\*A New Industrial Strategy for Europe\*](#), EC COM (2020) 102 final, 10 March 2020





Closing the industrial carbon cycle to combat climate change - Industrial feasibility of catalytic routes for sustainable alternatives to fossil resources - LC-GD-3-1-2020 (IA: 80M)

- ✓ Sustainably convert CO<sub>2</sub> emissions from industrial processes into synthetic fuels and chemicals (renewable energy - catalytic systems)
- ✓ Develop innovative, renewable energy driven, catalytic processes, to produce synthetic fuels and chemicals, at a sufficiently large scale
- ✓ Demonstrate the industrial and economic feasibility of producing synthetic fuels and chemicals
- ✓ Demonstrate the full value chain for industrial production (including SMEs)

*Financial, regulatory, environmental, land and raw material constraints, public acceptance issues and socio-economic impact*

**Focus**

TRL initial 4-5, TRL final 7

International cooperation is encouraged

Grants max 40M€, funded 2 proposals



Demonstration of systemic solutions for the territorial deployment of the circular economy - LC-GD-3-2-2020 (IA: 60M)

Implement and demonstrate circular systemic solutions for the territorial deployment of the circular economy (including circular bioeconomy) in one 'circular territorial cluster' = a socio-economic and environmental system composed of all relevant actors and dimensions

*Sustainable, regenerative, inclusive Circular economy*

*Reducing GHG emissions and minimising loss of natural capital and biodiversity*

*Economic, social and environmental dimensions of the transition towards a circular economy*

*Include science, technology and governance component*

**Focus**

TRL final 6-7

Proposals funded will form part of the demonstration projects for the implementation of the [European Commission's Circular Cities and Regions Initiative](#) (CCRI) and must be carried out in close cooperation and coordination with it

Avoid social, gender and intergenerational inequalities

Grants 10-20M€, funded 3-6 proposals

## Energy and resource efficient buildings

Buildings account for 40% of all energy consumed

The annual renovation rate of the EU's building stock hovers around only 0.4-1.2% across Member States → it will have to at least double to reach the EU's energy and climate objectives

Greater building efficiency can reduce demand for heating and cooling and allow a greater range of zero emission technologies to become viable

Spreading such building concept allows the creation of green neighbourhood “living labs”: social housing and non-residential buildings such as hospitals, schools, public buildings, commercial buildings with additional urban functionalities





[Building and renovating in an energy and resource efficient way - LC-GD-4-1-2020](#) (IA: 60M)

Design and construct new or retrofit existing buildings as zeroemission/zero-pollution, positive energy powerhouses in sustainable green neighbourhoods

*Scalable design of green, positive energy neighbourhoods well embedded in the spatial, economic, technical, environmental, regulatory and social context of the demonstration sites*

*Citizen awareness, sustainability, energy efficiency, replicability*

**Focus**

TRL initial 5-6, TRL final 7-8

Deliver at least two (residential and non-residential, new and/or retrofitted) large-scale, real-life demonstrations of promising technology, process and social innovations, in different regions of Europe

Grants 10-20M€, funded 3-6 proposals



# Green Deal Call

## Areas 5-8

Thursday 22 October 2020,  
2 to 3:30 pm

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## Sustainable and smart mobility

*Objective: EU to become climate-neutral by 2050, transport must become 'drastically less polluting': a 90% reduction in emissions is required.*

- boosting multimodality (using different transport modes)
- slashing transport emissions at ports and airports, as well as in cities
- ramping up the production and deployment of sustainable alternative fuels
- developing automated and connected multimodal mobility.

### ***EU transport policy objectives***

*The Commission will adopt a [strategy for sustainable and smart mobility in 2020](#) that will address this challenge and tackle all emission sources.*



[Green airports and ports as multimodal hubs for sustainable and smart mobility](#) -LC-GD-5-1-2020(IA: 100M)

Actions should perform demonstrations of green airports / sustainable maritime and inland ports

*GHG emissions; transport; sustainable and smart mobility; climate change, wider socio-economic perspective, sustainable alternative fuels/advanced biofuels, field performance monitoring.*

*Two areas:*

- A) **Green Airports** (*aspects to be considered: Transport, Terminal, Energy, Cross-cutting aspects*)
- B) **Green Ports** (energy supply and production, green and smart logistics, environmental effects of digitalisation)

**Focus:** real-life high TRL (6 or above) demonstrations of green airports / ports; assessment of expected improvement in energy consumption and greenhouse emissions; *Lighthouse*” airport or port + 3 «fellow» airports/ports; **MULTIDISCIPLINARITY**; *Proposals (15/25 M euro); at least 2 proposals for each A) and B) – to be funded 4/6*



## Farm to fork

*Objective: European food should become the global standard for sustainability; therefore, the actions under this area are meant to pave the way to more sustainable food systems.*

- strengthen the efforts of farmers, fishers, food businesses and consumers to tackle climate change
- protect the environment and preserve biodiversity
- contributing to more circular economies and sustainable healthy lifestyles

[A Farm-to-Fork Strategy - For a fair, healthy and environmentally-friendly food system](#) (European Commission, May 2020)



[Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy](#) -LC-GD-6-1-2020(IA: 74M)

Actions aim at the deployment and scaling up of innovations that contribute to the objectives of the Farm-to-Fork Strategy. Proposals will test, pilot and demonstrate innovative systemic solutions (TRL 5-7)

*Farm to fork strategy, sustainable food systems, “just transition” (social inequalities & food poverty), innovative systemic solutions*

Solutions need to address one of these six subtopics (food systems’ challenges):

1. Achieving **climate neutral farms**
2. Achieving **climate neutral food businesses**
3. Reducing the dependence on **hazardous pesticides**
4. Reducing the dependence on the **use of antimicrobials** in animal production and in aquaculture
5. Reducing **food losses and waste** at every stage of the food chain
6. Shifting to sustainable **healthy diets**

**Focus:** *Proposals (6/12 M euro); TRL up to 5/7; at least 1 proposal for each subtopic; applying System thinking; multiactor and cross-sectoral approach – to be funded 6/12*



## Biodiversity and ecosystem services

*Objective: restore biodiversity and ecosystem services, caused by changes in land and sea use, direct exploitation of natural resources, climate change, pollution and invasive alien species.*

- upscaling restoration on land and at sea, mitigating and adapting to climate change
- large-scale restoration of degraded ecosystems and deployment of nature-based solutions

[Biodiversity Strategy to 2030](#) (European Commission, may 2020)



[Restoring biodiversity and ecosystem services -LC-GD-7-1-2020](#) (IA: 80M)

Actions should demonstrate **how restoration** (in biodiversity richness and abundance, structure, function and connectivity) of ecosystems and their services can be scaled up, in collaboration with stakeholders, so that opportunities for substantial biodiversity and ecosystem services gains will be realised, which in turn deliver social and economic benefits.

*Resilient ecosystems, biodiversity, climate change, scaling up of solutions, voluntary commitments (by business and stakeholders), social awareness, upscaling ecosystem restoration, nature-based solutions*

**Focus:** *Consortia need to have the rights to act on the areas to be restored, joint deliverables with other projects; no land purchase; proposals (16/25 M euro); at least 2 proposals on terrestrial/freshwater ecosystems and two coastal/marine ecosystems; first visible results by 2024 – to be funded 3/5*



## Zero-pollution, toxic free environment

*Objective: EU needs to better monitor, report, prevent and, if need be, remedy the pollution of its air, water, and soil, as well as address downstream effects that threaten the safety of consumer products.*

- *restoring the natural functions of ground and surface water*
- *addressing pollution from several sources*
- *development of a chemicals strategy for sustainability, with the goal of ensuring a toxic-free environment.*

*2 sectors:*

- Innovative, systemic zero-pollution solutions
- Fostering regulatory science to address industrial chemicals and pharmaceuticals

[Circular Economy Action Plan](#) (adopted march 2020)

[Zero Pollution Action Plan](#) (expected 2021);



Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals -LC-GD-8-1-2020 (RIA: 40M)

establishing new knowledge, exploring the feasibility of new or improved technologies and demonstrating innovative solutions to protect health, environment and natural resources persistent and mobile chemicals

Focus: TRL 4-6; *proposals (8/12 M euro) – to be funded 3/5*

Fostering regulatory science to address combined exposures to industrial chemicals and pharmaceuticals: from science to evidence-based policies -LC-GD-8-2-2020(RIA: 20M)

demonstrating how new tools and methodological approaches from regulatory science can be applied to identify, quantify and prevent harmful co-exposures to industrial chemicals and pharmaceuticals.

Focus: *proposals (4/6 M euro) – to be funded 3/5*



# Green Deal Call

## Areas 9-10

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## Strengthening our knowledge in support of the European Green Deal

Area 9 contains dedicated activities to strengthen the **European knowledge** base issues linked to climate change and sustainability

This area will aid the transition towards a climate-neutral Europe, with a 50% emission reduction target by 2030.

Pilot activities under this call will provide research and innovation services for breakthrough research in **two priority areas**:

- (1) energy storage
- (2) advanced climate/environment observation and monitoring.

**Expected impacts**: range from answering short-term needs under this call to longer-term perspectives under Horizon Europe

**LC-GD-9-1-2020 European Research Infrastructures capacities and services to address European Green Deal challenges** (RIA: 28M)

- (a) Support Europe leadership in clean energy storage technologies
- (b) Enhancing European research infrastructures for greenhouse gases observation in and around cities
- (c) Enhancing observations for air quality and citizens' health in urban areas

**LC-GD-9-2-2020 Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation** (RIA: 25M)

- Inform citizens and decision-makers abouts the impact of climate change
- Identify adaption options
- Illustrate pathway towards climate neutrality including production, consummation, planning and lifestyle

**LC-GD-9-3-2020 Transparent & Accessible Seas and Oceans: Towards a Digital Twin of the Ocean** (IA: 12M)

- Filling the need to integrate a wide range of data sources, to transform data into knowledge
- Only one BIG proposal funded

## Empowering citizens for transition towards a climate neutral, sustainable Europe

The European Green Deal communication stresses that the transition towards sustainability must be just and inclusive, put people first and bring together citizens in all their diversity.

**citizen engagement** and social innovation in all areas of the European Green Deal

- support behavioural, social and cultural changes
- address **change at the collective level** through participatory processes and experimental research on behavioural, social and cultural change; and
- address **change at an individual level** by empowering citizens as actors of change, including through the co-creation of R&I contents





**LC-GD-10-1-2020 European capacities for citizen deliberation and participation for the Green Deal** (RIA: 10M)

- Transnational networks of experts
- Share good practice, tools and resources and implement participatory and deliberation processes

**LC-GD-10-2-2020 Behavioural, social and cultural change for the Green Deal** (RIA: 10M)

- Address behavioural change at individual and collective levels
- Establish transdisciplinary networks of experts, researchers, practitioners and relevant civil society organisations

**LC-GD-10-3-2020 Enabling citizens to act on climate change, for sustainable development and environmental protection through education, citizen science, observation initiatives, and civic engagement** (IA: 25M)

Subtopic 1: Enabling citizens to act on climate change and for sustainable development through education

Subtopic 2: Enabling citizens to act on climate change and for sustainable development through better monitoring and observing of the environment and their environmental impacts



# Green Deal Call Networking events

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## **PARTNER SEARCH**

[NCPs CaRE Partner Search Tool](#) (NCP Network SC5 of H2020)

[Recherches/offres de compétences pour l'appel Green Deal](#) (French, English)

[Israeli Green Deal Data Base](#) (Israeli NCP collecting international partners and contact Israeli institutions)

## **NEXT WORKSHOPS AND BROKERAGE EVENTS**

27/10/2020 [Virtual Brokerage Event: SSH in the Green Deal Call](#)

28/10/2020 [Circular Bioeconomy: A Polish-Finnish Matchmaking Workshop](#)

27-30/10/2020 [EIC “Greenathon”](#)



<https://forms.gle/MWghJAZzJwKnChqY7>



# Thank you

## **Research Projects Unit**

<https://www.univr.it/en/organisation/-/ateneo/area-ricerca/planning-and-accountability-of-research-projects-unit>

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