

European Green Deal Call for beginners

BE NCP webinar – 09 September 2020

Rules during the webinar

1. Please identify yourself with your real name
2. Send questions through questions function of GotoWebinar, they will be handled during the Q&A session
3. Keep your micro muted
4. The webinar will not be recorded but the presentations will be made available on the event website: <http://www.h2020-info-sessions.be/>
5. If some questions cannot be answered today they will be transferred to the speaker of our webinar on Friday. Please be there!

Agenda: European Green Deal call for beginners

1. 09:30-09:35 Welcome – Who are the National Contact Points in Belgium?
Pascale VAN DINTER (NCP BELSPO - Eurofed)
2. 09:35-09:55 Introduction about the Green Deal Call
Camille LEPINAY (NCP Brussels)
3. 09:55-10:15 The European Green Deal Call topics
Pascal VERHEYE (NCP Flanders)
4. 10:15-11:00 Q&A
Ann Van Hauwaert (NCP Flanders)

Follow-up session on 11/09 with deeper insight in the European Green Deal Call + Partner Searches



A quick glance at the EU's Green Deal

Who are the National Contact Points in Belgium?

Pascale VAN DINTER (NCP BELSPO - Eurofed)

BE NCP webinar – 09 September 2020



National Contact Points

Supporting you all along your journey to Horizon 2020

Your assigned NCPs

http://eurofed.belspo.be	eurofed@belspo.be
http://ncpbrussels.be	info@ncpbrussels.be
http://www.ncp.fnrs.be	ncp@frs-fnrs.be
https://www.ncpflanders.be	info@ncpflanders.be
http://www.ncpwallonie.be	contact@ncpwallonie.be

A map of Belgium is shown on the left side of the slide, colored in a solid teal color. It includes a scale bar in the bottom left corner indicating 30 km.

National Contact Points

NCP EUROFED Federal level-based stakeholders

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Pascale Van Dinter

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National Contact Points

NCP Brussels Brussels-based stakeholders

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National Contact Points

NCP Flanders

Flanders-based stakeholders

Ann Van Hauwaert

Pascal Verheye, NCP Green Deal

Green Deal website:
<https://www.ncpflanders.be/index.php/funding-by-horizon/greendeal>

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National Contact Points

NCP FNRS

Fédération Wallonie-Bruxelles-based
stakeholders

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National Contact Points

NCP Wallonia Wallonia-based stakeholders

Pierre Fiasse

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A quick glance at the EU's Green Deal

General Introduction to the Call

Camille LEPINAY (NCP Brussels)

EC-BE NCP webinar session – 9th of september 2020



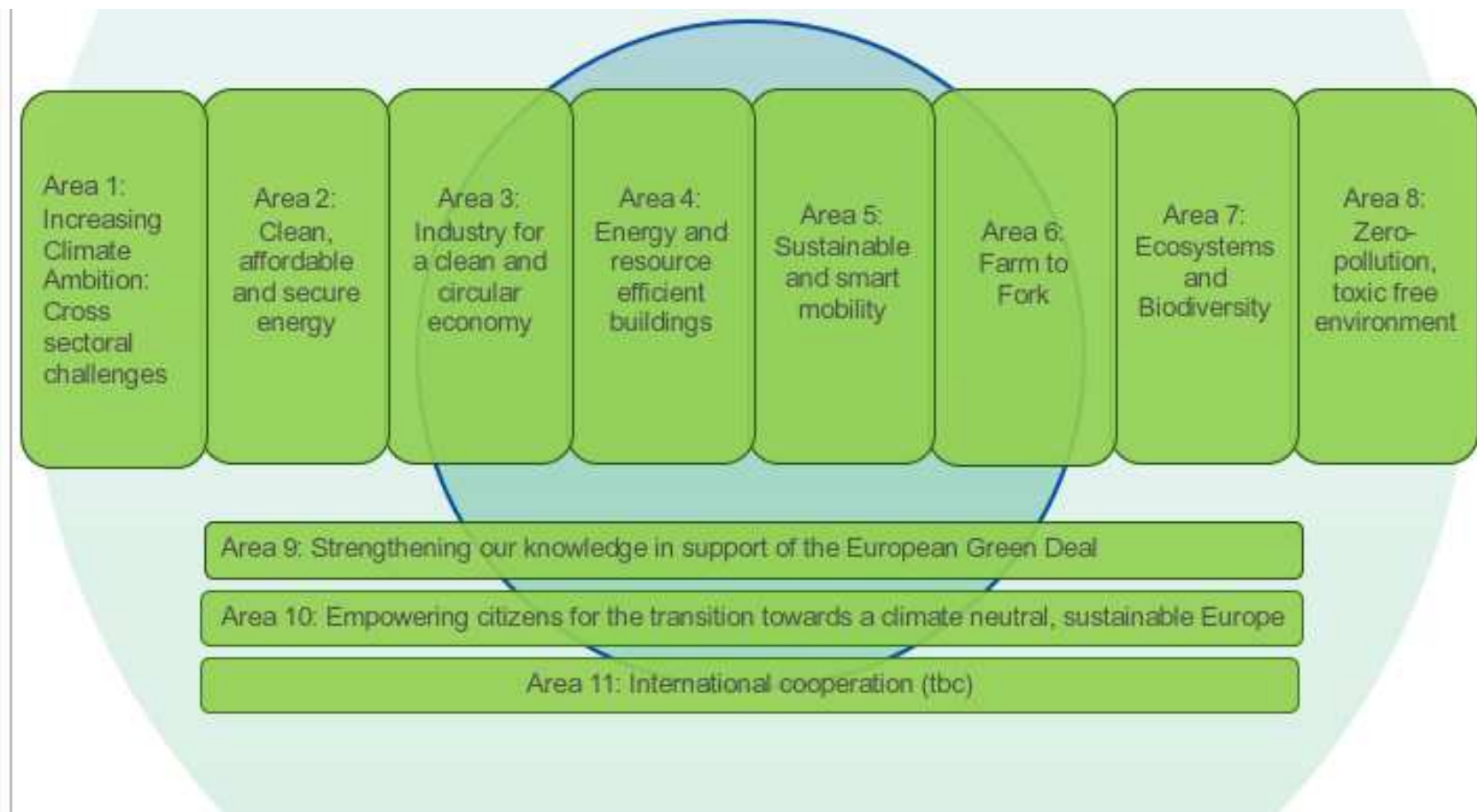
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be published on 18 September**

A call to implement the European Green Deal



Green Deal call structure



A cross-cutting call focusing on impact

- Producing tangible results visible to citizens
- Limited number of topics
- Higher TRL, many innovation actions
- Almost 1bn EUR, mostly for grants



#EUGreenDeal

#InvestEURresearch



Cross-cutting: Social Sciences and Humanities

Area 1: Increasing Climate Ambition: Cross sectoral challenges

LC-GD-1-2-2020: Towards Climate-Neutral and Socially Innovative Cities

LC-GD-1-3-2020: Climate-resilient Innovation Packages for EU regions

Area 4: Energy and resource efficient buildings

LC-GD-4-1-2020: Building and renovating in an energy and resource efficient way

Area 9: Strengthening our knowledge in support of the EGD

LC-GD-9-1-2020: European Research Infrastructures capacities and services to address European Green Deal challenges

LC-GD-9-3-2020: Transparent & Accessible Seas and Oceans: Towards a Digital Twin of the Ocean

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

LC-GD-10-1-2020: European capacities for citizen deliberation and participation for the Green Deal

LC-GD-10-2-2020: Behavioural, social and cultural change for the Green Deal

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

Cross-cutting : international cooperation

Topic	international cooperation
LC-GD-1-1-2020: Preventing and fighting extreme wildfires with the integration and demonstration of innovative means	United States, Canada, Australia, Russia, Japan, Brazil, South America, Indonesia, and South Africa
LC-GD-2-3-2020: Accelerating the green transition and energy access Partnership with Africa	As the demonstration installation will be located in Africa, relevant African partners have to participate in the implementation of the project. A balanced consortium between European and African partners will be considered an asset in the evaluation.
LC-GD-5-1-2020: Green airports and ports as multimodal hubs for sustainable and smart mobility	encouraged
LC-GD-3-1-2020: Closing the industrial carbon cycle to combat climate change - Industrial feasibility of catalytic routes for sustainable alternatives to fossil resources	encouraged
LC-GD-6-1-2020: Testing and demonstrating systemic innovations for sustainable food from farm to fork	encouraged
LC-GD-7-1-2020: Restoring biodiversity and ecosystem services	encouraged
LC-GD-9-1-2020: European Research Infrastructures capacities and services to address European Green Deal challenges	encouraged
LC-GD-9-3-2020: Transparent & Accessible Seas and Oceans: Towards a Digital Twin of the Ocean	encouraged
LC-GD-10-1-2020: European capacities for citizen deliberation and participation for the Green Deal	encouraged
LC-GD-10-2-2020: Behavioural, social and cultural change for the Green Deal	Encouraged + A balanced overall coverage of EU Member States and Associated Countries should be sought.

UK Participation in Horizon 2020 Green Deal

- UK organisations are fully eligible to participate and receive funding in Green Deal Call.

- European Commission:

*The Withdrawal Agreement, as agreed between the European Union and the United Kingdom, entered into force on 1 February 2020. In overall terms, on the basis of the Withdrawal Agreement, the UK-based legal entities will continue to be **fully eligible to participate and receive funding** in the current [2014-2020 EU programmes](#), **including Horizon 2020, as if the UK were a member state until the closure of these programmes**, unless security considerations apply. This means that UK beneficiaries can continue – without interruption – to receive grants awarded under the current and previous multiannual financial frameworks (MFFs) until their end dates, even if these are after 2020.*

- For any questions around this, or for help identifying possible UK partners, please contact Stephen Alexander, the UK National Contact Point for Legal and Financial matters
stephen.alexander@innovateuk.ukri.org

Calendar

- 19/5-3/6/2020 : Public consultation
- 18th September : Formal decision and call-opening on Funding & Tender Portal
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search>
- 22-24/9 : R&I Days <https://research-innovation-days.ec.europa.eu/>
 - infoday on 23/9 pm with presentation of topics
 - Workshop about the political background on 24/9 am
- 26th January 2021: Call deadline (single stage)
- Autumn 2021: Project starts

Types of actions

Type d'action	Minimum number of partners	Cofinancing rate	Average length	TRL	Goal
10 Research and innovation actions (RIA)	≥ 3 legal entities from 3 Member States / Associated Countries	100%	36-48 months.	1-5	Collaborative research projects
14 Innovation actions (IA)		100% (not for profit) 70% (for profit)	30-36 months.	4-8	Produce plans, modalities and design for new or improved products, processes or services
2 Coordination and support actions (CSA)	Minimum 1 legal entity	100%	12-30 months.	Not R&I	Support measures (standardisation, dissemination, policy dialogue etc;...)

Technology Readiness Levels

- TRL 0: Idea.** Unproven concept, no testing has been performed.
- TRL 1: Basic research.** Principles postulated and observed but no experimental proof available.
- TRL 2: Technology formulation.** Concept and application have been formulated.
- TRL 3: Applied research.** First laboratory tests completed; proof of concept.
- TRL 4: Small scale prototype** built in a laboratory environment ("ugly" prototype).
- TRL 5: Large scale prototype** tested in intended environment.
- TRL 6: Prototype system** tested in intended environment close to expected performance.
- TRL 7: Demonstration system** operating in operational environment at pre-commercial scale.
- TRL 8: First of a kind commercial system.** Manufacturing issues solved.
- TRL 9: Full commercial application,** technology available for consumers.

Evaluation criteria

Excellence

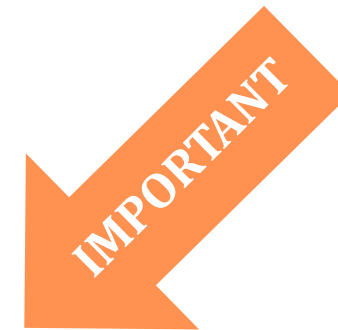
- Clarity of objectives
- Solidity of concept, including transdisciplinary considerations
- Credibility of the proposed approach
- Progress beyond the state of the art

IMPACT

- Expected impact evidenced in the Program of Work
- Increasing innovation capacity and integrating new knowledge
- Strengthen competitiveness and business growth by developing innovation that meets the needs of European and global markets
- Measures to disseminate and exploit results (dissemination, communication, exploitation of results, ...)

IMPLEMENTATION

- Coherence and effectiveness of the work plan (including the description of the work packages) ...
- assignment of tasks, resources
- Competence, experience and complementarity of the participants and the consortium
- Adequacy of management structures and procedures ... risk management and contingency plans



Internal structure - topics

Specific challenge

Context, problems, intervention rationale

Scope:

Key informations about what is expected from the project but not in details about "how"
> Info to look for partners

Expected impacts

What your project should aim at (and reach as much as possible)

Topic reference and year of funding

BC 6 - 2014: Delivering the sub-sea technologies for new services at sea

Specific challenge

The development of a new maritime economy necessitates tackling a number of challenges. One such challenge is the ability to remotely execute underwater operations ranging from simple observation / data collection and transmission of information to more complex industrial operations. Technologies derived from marine research (Remotely Operated Vehicles - ROVs, Autonomous Underwater Vehicles - AUVs) must be further improved, industrialised, i.e. made more robust, cost-effective, reliable and sophisticated (in terms of operating capabilities) and with increased autonomy. Another challenge is the ability to operate at even higher depths (down to 6,000m), and in extreme conditions (e.g. Arctic regions, with corrosive products, heavy / viscous liquids, high pressure - high temperature systems, etc.). The control of the potential impact on the environment of these activities is also important.

Scope

Projects should address the innovative design of new underwater vehicles and robots and their main components required to work undersea. If relevant, proposals could go to the stage of demonstrators or prototypes. The areas of interest are the following:

- Remotely Operated Vehicles and Subsea Construction systems,
- Specialised 'Robots' and Autonomous Underwater Vehicles, deployment, recovery and docking systems,
- Subsea 'factory' Machineries.

Where relevant, activities should cover the development of European standards.

The Commission considers that projects requesting a contribution from the EU in the range of EUR XX million would allow this specific challenge to be addressed appropriately. Nonetheless, this does not preclude submission and selection of proposals requesting other amounts.

Expected impact

Sustainable and safe offshore operations by European industries in extreme conditions (deep sea areas, Arctic conditions, corrosive products, high pressure and temperature...);

- Increase cost-effectiveness and competitiveness of the existing and new offshore economy (including marine renewable energy);
- Improve the scientific capacity to observe and understand the water column, the deep sea environment and their resources.

Type of action

Research and innovation action

The conditions related to this topic are provided along with the general conditions for this call. [\[Link to end of the description of the call\]](#)

Why apply?

- Develop and valorise your expertise relevant for a topic or even a sub-topic
- In collaboration with international actors of different types (academics, enterprises, public authorities....)
- Involvement of stakeholders (but not always as partners)
- An investment for your development strategy
- Possible to join consortia also with other local organisations

A demanding call

- Not possible to fund « your own project »
 - EU priorities and policies
 - Looking for EU wide impact
- A Research and innovation programme
=> need to be very innovative, looking for excellence !
- International consortia > Mastering English
- Operational and financial capacity as selection criteria



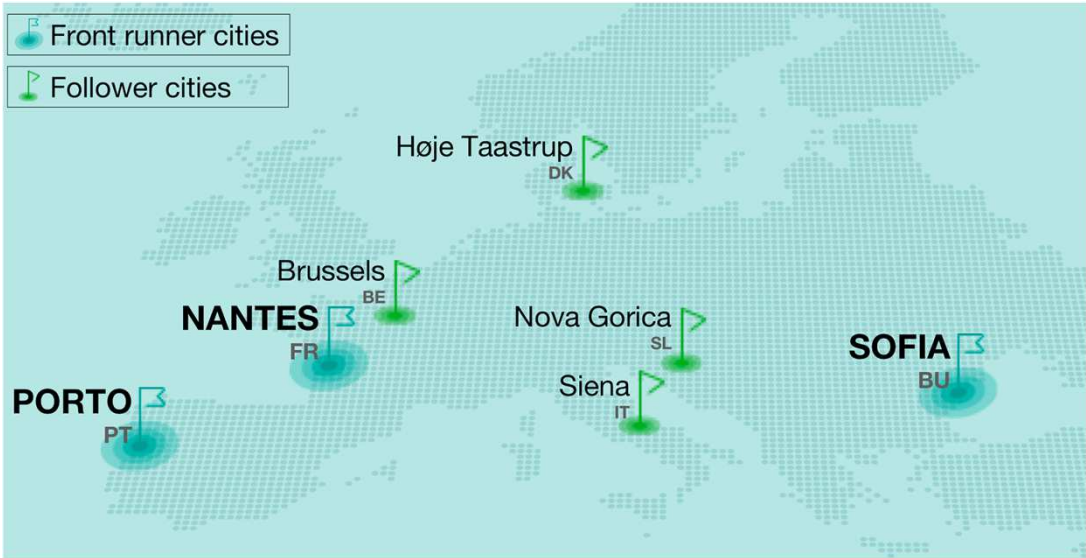


URBiNAT: Urban Innovative & Inclusive Nature

HEALTHY CORRIDORS for better connected, greener, healthier, smarter & more inclusive cities across Europe – and beyond. Reinforcing urban resilience by harnessing the potential of Citizen Engagement, Nature-Based Solutions, and Digital Transformation.



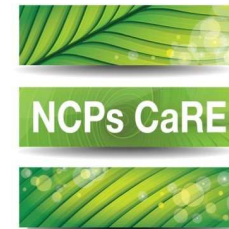
Green Deal Call Example : Urbinat



More examples

Useful ressources

- European Green Deal Communication
- Horizon 2020 [Reference documents](#) on Funding and Tender Portal
- NCPs CaRE website in particular:
 - Dedicated webpage
 - Useful guides > “Do and don’t for applicants”
 - Twitter [@NCPsCaRE](#)



Overlap between topics

- Green Deal calls are often very ambitious and multisectoral, so they cover multiple areas
- Some example in this non-exhaustive overview
 - Space (navigation services) relates to calls: 1.1, 1.2, 1.3, 4.1, 5.1, 7.1, 8.1, 9.1
 - Sustainability: 5.1, 6.1, 7.1 and 8.1
 - Transport: 1.2, 5.1 and 10.2
 - Citizens engagement : 1.1, 1.2, 1.3, 3.2, 6.1, 9.1, 9.2, 9.3 on top of area 10
 - Security : 1.1, 4.1, 5.1
- If you are active in a certain domain, do not forget to check less obvious calls for proposals !



A quick glance at the EU's Green Deal

The European Green Deal Call Topics

Pascal VERHEYE (NCP Flanders)

EC-BE NCP webinar session – 9th of september 2020



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Q&A : question box

8 THEMATIC AREAS

AREA 1: increasing climate ambition

1.1 Preventing and fighting extreme wildfires (select a or b)

a) innovation action on preventing, detection, responding of wildfire and restoration of habitats

- Entire chain of events
- **Multidisciplinary** approach
- Demonstration on pilot sites
- 15 to 20 million euro per project

IA
TRL 7
15-20 mio € per project
4 projects

b) coordination and support action related to part a

- Coordinate the different Innovation projects

CSA
No TRL
2-3 mio € per project
1 project

AREA 1: increasing climate ambition

1.2 Towards climate-neutral and socially innovative cities (**one-stop shop platform** that address all four activities)

- a) climate action plans
- b) investment project preparation and finance
- c) social innovation and citizen engagement
- d) R&I for climate neutral transformation of cities
 - 60% of this budget will go to cascading grants of point d

IA
TRL 4-8 ?
53 mio € per project
1 project

AREA 1: increasing climate ambition

- 1.3 Climate-resilient innovation packages for EU regions (address one of the subtopics)
- a) innovation packages for transformational adaptation of European regions and communities
- portfolio of **large solutions** close to completion (no incremental projects!)
 - focus on improving the **key systems** of the region (e.g. transport, health, agriculture)
 - no specified technologies so scope of solutions is wide
 - 10 to 15 million euros per project
- b) coordination and support action related to innovation packages of point a

IA
TRL 5-7 ?
10-15 mio € per project
2-3 projects

CSA
No TRL
3 mio € per project
1 project

AREA 2: clean, affordable and secure energy

2.1 Innovative land-based and offshore renewable energy technologies and their integration into the energy system (address one of the subtopics) NEW

a) development of **land-based** renewable energy technologies

- projects district heating and cooling (DHC) and/or co-generation of heat and power (CHP)
- More efficient integration in the energy system

RIA
TRL 4-5
3-6 mio € per project
3-6 projects

AREA 2: clean, affordable and secure energy

2.1 b) demonstration of innovative technologies related to **off-shore** renewable energy

- Technology neutral so all sources are possible (wave, wind, tidal, solar)
- Mandatory focus on power generating systems
- AND/ OR grid infrastructure solutions
- Also possible focus on
 - power2X
 - Battery
 - Energy storage system

IA
TRL end 7
20-35 mio € per project
2-3 projects

AREA 2: clean, affordable and secure energy

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

- **hydrogen** needed in hard to abate sectors
- funding reduced to 50% (avoid unfair competition)
- Current maximum 6MW

IA
TRL end 8
60 mio € per project
1 project

AREA 2: clean, affordable and secure energy

2.3 Accelerating the green transition and energy access partnership with Africa (this was previously a separate Area 11)

- adapting the existing green solutions to Africa
- development of RES including solutions for off-grid communities
- energy efficiency
- demonstration installation must be in Africa
so **local partners needed**

IA
TRL 6-7 ?
5-10 mio € per project
4-8 projects

AREA 3: a clean and circular economy

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

- Sustainably convert CO² emission into synthetic fuels and chemicals utilizing renewable energy driven processes with novel highly optimized catalytic systems
- Industrial scale demonstrator ready by 2026 at the latest

IA
TRL 4-5 to 7
40 mio € per project
2 projects

3.2 Demonstrations of systemic solutions for the territorial deployment of the circular economy

- Bringing actors from all societal corners together in a **cluster focusing on circular economy**
- Linked to the CCRI which will soon be set up
- Cluster proposes solutions for the circular economy

IA
TRL 6-7
10-20 mio € per project
3-6 projects

AREA 4: energy and resource efficient buildings

- 4.1 Building and renovating in an energy and resource efficient way (address both objectives)
- a) increase energy efficiency of buildings
 - b) create buildings that produce more energy themselves
 - 2 large scale demonstrations of promising technology in different regions
 - Retrofit solutions (old buildings) also possible
 - open to all kinds of technologies (e.g. building design, digital tech, energy storage)

IA
TRL 5-6 to 7-8
10-20 mio € per project
3-6 projects

AREA 5: sustainable and smart mobility

- 5.1 Green airport and ports as multimodal hubs for sustainable and smart mobility (choose one of the 2 locations)
- a) green airports (transport, terminal, energy and cross-cutting aspects)
 - b) green ports

- Demonstrated in the lighthouse port or airport
- Many different sustainable solutions are possible
- 3 other ports or airports also involved

IA
TRL 6-7 ?
20-25 mio € per project
2 projects per category

AREA 6: farm to fork

6.1 Testing and demonstrating systemic innovations in support of the **farm to fork strategy** (address one of these subtopics)

Accelerate transition to sustainable food system and improve our food production and consumption (farm to fork strategy)

- a) climate neutral farms
- b) climate neutral food businesses
- c) reducing hazardous pesticides, loss of nutrients from fertilisers, pollution of water, soil and air
- d) reducing the use of antimicrobials in animal production and aquaculture
- e) reducing food losses and waste at every stage of the food chain while also avoiding unsustainable packaging
- f) shifting to sustainable healthy diets (against growing obesity)

IA
TRL 5 to 7
6-12 mio € per project
1-2 projects per topic

AREA 7: biodiversity and ecosystem

7.1 Restoring biodiversity and ecosystem services

- Ecosystems provide essential services (e.g. fresh water, clean air)
- Strong focus on **upscaling** of innovations in ecosystem restoration and possible **replication** in other member states
- Multi-disciplinary approach
- Both at sea and on land
- First visible results by 2024
- Synergies with other EU programmes (Life, Horizon Europe partnerships and missions)

IA
TRL 6-7 ?
16-25 mio € per project
3-5 projects

AREA 8: zero pollution and toxic-free

8.1 Innovative systemic zero-pollution solutions to protect the environment and natural resources from **persistent** (slowly degradable) and **mobile** (e.g. through water) chemicals

- focus on remediation but also on monitoring, toxicity, long term health risks, etc.
- TRL lower than most other Green Deal calls
- More early stage research needed

RIA
TRL 4-6
8-12 mio € per project
3-5 projects

AREA 8: zero pollution and toxic-free

- 8.2 Fostering regulatory science to address combined exposures to industrial chemicals and pharmaceuticals: from evidence to science-based policies (tools for better policy making)
- New chemicals strategy for sustainability (green deal)
 - Applied research into handling exposure of animals and humans to harmful chemicals and pharmaceuticals (e.g. unintentional mixtures)
 - Better insight into risks/effects which should lead to **a better regulatory framework**

RIA
TRL 4-6
4-6 mio € per project
2-3 projects

2 SUPPORTING AREAS

AREA 9: strengthening our knowledge of the European green deal

9.1 European Research infrastructures capacities and services to address European Green Deal challenges (address one of the three subtopics)

Goal: exchange of knowledge between top researchers and industry and let them work in the best possible conditions

- a) clean energy storage technologies (7 million euro)
- b) GHG observation in and around cities (13 million euro)
- c) observation of air quality and citizens health in urban areas (8 million euro)

RIA
TRL 4-6 ?
7-13 mio € per project
1 project per topic

AREA 9: strengthening our knowledge of the European green deal

9.2 Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation

- Research in how to bridge the gap between the knowledge of scientist and the end-user in order to **increase acceptance** of the solutions and change proposed by the Green Deal

RIA
TRL 4-6 ?
3-5 mio € per project
5-8 projects

AREA 9: strengthening our knowledge of the European green deal

9.3 Transparent and accessible seas and oceans: towards a **digital twin** of the ocean

- Support of pilot digital version of our oceans so we can better understand its functioning and the impact of the measures to protect our seas and the effect on the climate
- Inform citizens of the findings so they better understand environmental issues (e.g. sea-level rise, species shifts)

IA
TRL 7 ?
12 mio € per project
1 project

AREA 10: empowering citizens for the transition towards a sustainable Europe

10.1 European capacities for citizen deliberation and participation for the green deal

- **Involve citizens** in the deliberation process of the Green Deal
- increase acceptance level and trust in what is said on the Green Deal issues and solutions

RIA
TRL 4-6 ?
3-5 mio € per project
2-3 projects

10.2 Behavioural, social and cultural change for the Green Deal

- Green Deal will require a different way of life
- Research into **needed behavioural change**, both at individual and collective level
- Better strategies to shape this change

RIA
TRL 4-6 ?
3-5 mio € per project
2-3 projects

AREA 10: empowering citizens for the transition towards a sustainable Europe

10.3 Enabling citizens to act on climate change, for environmental protection and sustainable development through education, citizen science, observation initiatives and civic engagement (address one of the subtopics)

a) through education

- **Multidisciplinary competence framework** focused on lifelong learning on climate change
- Focus on young people (climate ambassadors)

IA
TRL 5-7
Up to 5 mio € per project
2-3 projects

AREA 10: empowering citizens for the transition towards a sustainable Europe

b) through better monitoring and observing of the environment and their environmental impacts (citizen science)

- give citizens **better insight into their carbon footprint**
- Development of devices (e.g. low cost sensors, consumer apps)

IA
TRL 6-7
3-5 mio € per project
2-5 projects

OTHER ACTIONS





National Contact Points

Supporting you all along your journey to Horizon 2020

Your assigned NCPs

http://eurofed.belspo.be	eurofed@belspo.be
http://ncpbrussels.be	info@ncpbrussels.be
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https://www.ncpflanders.be	info@ncpflanders.be
http://www.ncpwallonie.be	contact@ncpwallonie.be