



#InvestEUresearch



Horizon 2020 Work Programme for Research & Innovation 2018-2020

Green Deal Virtual Training

Function: Service Facility in support of International Cooperation in Research and Innovation (eu-eap_sticooperation@servicefacility.eu)

Research and
Innovation



Support to EU-EaP Research and Innovation Cooperation - phase 2

- Builds on the success of Phase 1 and implemented on behalf of the European Commission
- Aim: Successful participation of the EaP countries (associated and non-associated) in the EU's Framework Programmes for research and innovation (R&I) and the European Research Area (ERA)
 - By assisting researchers in the preparation of applications to H2020 (last calls) and to Horizon Europe
- Targeted actions:
 - 3 Virtual Trainings on the H2020 Green Deal Call
 - 1 Horizon Europe Info Day + 1 Horizon Europe Proposal Writing Camps (back to back) in each EaP Country (Spring 2021 tbc.)
 - Individual Expert Consultations on demand (remotely, via web)

Bilateral Expert Consultations

- Remote Expert Consultations with trainers from EU to provide assistance:
 - on the way to prepare proposals
 - on the way to identify suitable partners in the EU
 - on the way to put forward the researcher's (or lab's) expertise
- Will be implemented during one year until September 2021
- Support both applicants for the H2020 Green Deal Call between September and December 2020 as well as applicants for calls in the upcoming Framework Programme Horizon Europe, from 2021 onwards
- Contact eu-eap_sticooperation@servicefacility.eu to request an individual Expert Consultation.

The H2020 Green Deal Virtual Training Series

- Promote the Green Deal Call in all 6 EaP Countries
- 3 Trainings to inform, connect and prepare scientists from EaP Countries
 - Session 1: Green Deal Overview (today)
 - Session 2: Green Deal Areas 1-5 + Networking and proposal writing (2nd of October)
 - Session 3: Green deal Areas 6-10 + Networking and proposal Writing (8th of October)
- Interactive Features: Questions Chat + Breakout Room with EU Trainers

What is Horizon 2020?

- Your access to European research and innovation

Horizon 2020 is open to the world!

- The EU Framework Programme for **Research & Innovation**
- The **biggest multinational** programme of its kind with a budget of almost € 80 billion
- Horizon 2020 welcomes **researchers & institutions**, public or private, **from all over the world**

How to participate in a collaborative project?

- As a legal entity from EaP Countries you can take part in collaborative projects of Horizon 2020.
- You can receive funding.

Remember! All proposals must meet certain minimum conditions:

- 3 participants from different EU member states or **Associated Countries**
- An international partner must come in addition to this minimum



The European Green Deal

- Aim: To achieve in 2050
 - no net emissions of greenhouse gases
 - economic growth decoupled from resource use
- The EU's new growth strategy
- Paradigm shift: reconciling economic growth and environmental protection



The European Green Deal



The European Green Deal - Timeline



Horizon 2020 - Green Deal Call

- As stated in the Green Deal Communication, “tackling climate and environmental-related challenges is this generation’s defining task”.
- The new call should respond to the urgency of the current situation and the ambition of the new Commission.
- It should therefore follow a different logic than the typical Horizon 2020 calls.
- Budget of the order of 1.48 billion EUR (indicative)

Horizon 2020 - Green Deal Call

- Directly relevant to the Green Deal objectives
- Aim:
 - to produce tangible results,
 - visible to the citizens,
 - in a relatively short time frame.
- To increase impact and visibility, proposed actions should be limited in number, and supporting primarily innovation and demonstration actions.
- Emphasis would be given to systemic, cross-sectoral approaches.

Horizon 2020 - Green Deal Call

- Publication: September 2020
- Deadline: 26 January 2021 (indicative)
- Instruments
 - Research and Innovation Actions (RIA)
 - Innovation Actions (IA)
 - Coordination and Support Actions (CSA)
 - Other Actions (Public Procurement, Expert Contracts)

Major topics – selection criteria

- Relevance to the Green Deal areas/objectives
- Strong impact focus (tangible expected results) - involving (mainly) Innovation Actions
- Systemic topics addressing at least 3 out of the 4 levers of the [UN SDG report](#)
- Topics should have a strong Research and Innovation component



Horizon 2020 - Green Deal Call

Thematic Areas

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Cross
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Area 2:
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Area 3:
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Area 8:
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Cross-Cutting Activities

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

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

Other Actions

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Other Actions

Thematic Areas – Area 1

Increasing Climate Ambition: Cross sectoral challenges

Topics included in Area 1:

- LC-GD-1-1-2020: Preventing and fighting extreme wildfires with the integration and demonstration of innovative means (€75 million)
- LC-GD-1-2-2020: Towards Climate-Neutral and Socially Innovative Cities (€53 million)
- LC-GD-1-3-2020: Climate-resilient Innovation Packages for EU regions (€45 million)

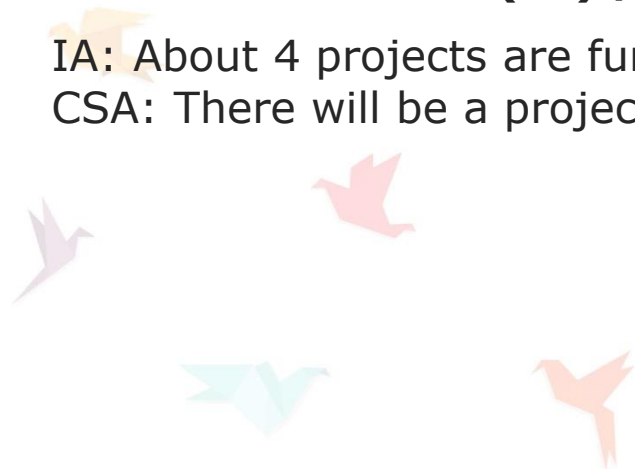
LC-GD-1-1-2020: Preventing and fighting extreme wildfires with the integration and demonstration of innovative means Challenge (Topic 1)

- **Reduce** frequency and extent of **forest fires**
- In southern Europe & increasingly central/ **Eastern** / Northern Europe
- Forest fires cause up to 20% of the total global greenhouse gas emissions per year - Drivers of climate change
- Large forest fires affect air quality by emission of toxic pollutants
- Loss of biological diversity (irreversible)

Innovation Action (IA) / Coordination and Support Action (CSA)

IA: About 4 projects are funded

CSA: There will be a project



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

- **Cities**, responsible for **70%** of those indicated by humans **CO2 emissions**, play a crucial role for the goals of the Green Deal.
- Systemic transformations in cities are required to achieve climate neutrality with the help of technological, non-technological and social innovations
- Use and upgrade existing Innovations and combine them with new innovative approaches.
- Test innovative solutions, technologies and incentives and increase their attractiveness for industry, business and citizens

Type: Research and Innovation Action (RIA)

Budget: 1 project is funded

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

- In some regions / municipalities gradual adjustment are insufficient to reduce the impact of the climate change towards socio-ecological systems
- Systemic solutions on a large scale to develop and demonstrate changes in behavior and new ways to trigger decision making
- Consideration of local and regional contexts
- Multidisciplinary approaches that incorporate technological, digital, corporate, government and environmental dimensions should be connected with social innovation for the development of adjustment paths are required

Innovation Action (IA) / Coordination and Support Action (CSA)

IA: about 3 projects

CSA: 1 project

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Other Actions

Thematic Areas – Area 2

Clean, affordable and secure energy

Topics included in Area 2:

- LC-GD-2-1-2020: Innovative land-based and offshore renewable energy technologies and their integration into the energy system (€86 million)
- LC-GD-2-2-2020: Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and commercial/industrial applications (€60 million)
- LC-GD-2-3-2020: Accelerating the green transition and energy access Partnership with Africa (€40 million)



LC-GD-2-1-2020: Innovative land-based and offshore renewable energy technologies and their integration into the energy system (Topic 1)

- Renewable energies (land-based + offshore) as future major energy resources
- DHC and CHP play key roles in the decarbonisation of the energy system
- Need for R&D to develop DHC and CHP systems based on various regenerative energies (safe, cost-effective, affordable, reliable and robust)
- Need for more efficient, cost-effective, more affordable and safe technologies to use wind, solar, waves / tidal energy under consideration of different maritime geographies

Type: Research & Innovation Action (RIA) & Innovation Action (IA)

TRL: 4- 7

Budget: 5-9 Projects

LC-GD-2-2-2020: Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and commercial/industrialised applications (Topic 2)

- Key role of hydrogen in decarbonisation of heavy industry and transportation
- Challenges of large-scale production of green H₂
- Development of large, compact modules with effective input / output / heat flow management
- Demonstration and testing in a 100 MW electrolyser

Type: Innovation Action (IA), funding rate 50%!

from TRL 6-7 to TRL 8

Approx. 2 projects are funded

LC-GD-2-3-2020: Accelerating the green transition and energy access Partnership with Africa (Topic 3)

- Significant potential of renewable energy sources on the African continent
- Challenge to enable access to energy and sustainable investments and ensure jobs
- Adaptation and Demonstration of existing technologies in the diverse African context to generate economic, ecological, social and health benefits
- Necessity to determine capacity building and suitable investment opportunities

Type: Innovation Action (IA)

Cross Cutting Priority: International Cooperation

4-8 projects are funded

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Other Actions

Thematic Areas – Area 3

Industry for a clean and circular economy

Topics included in Area 3:

- 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 (€80 million)
- LC-GD-3-2-2020: Demonstration of systemic solutions for the territorial deployment of the circular economy (€60 million)



LC-GD-3-1-2020 Closing the industrial carbon cycle to combat climate change (Topic 1)

- Improvement of the ecological fingerprint of the industry and energy production through the use of CO₂ from industrial processes
- Production of **synthetic fuels** and chemicals based on CO₂ from industrial processes with the help new / optimized energy efficient processes
- Goal: Reduction of current CO₂ emissions by 50%
- **Type: Innovation Action (IA)**
TRL 4 - 5 to TLR 7
Cross cutting priorities: International Cooperation

LC-GD-3-2-2020 Demonstration of systemic solutions for the territorial deployment of the circular economy (Topic 2)

- Concrete implementation of a circular economic system in an area cluster
- Replicability in other areas
- Rapid transformation towards climate-neutral and circular solutions in value chains
- Consideration of social goals in the transformation towards a sustainable, resource-efficient and circular economy

Type: Innovation Action (IA), TRL 6 - 7 at the end of the project

Cooperation with other area clusters from the topic expected

Projects are integrated into the CCRI (European Commission's Circular Cities and Regions Initiative)

Budget: around 5 projects are funded

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Other Actions

Thematic Areas – Area 4

Energy and resource efficient buildings

Topics included in Area 4:

- LC-GD-4-1-2020: Building and renovating in an energy and resource efficient way (€60 million)



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

- „built environment“ as a strategic area of activity for R&D in the context of decarbonization by 2050
- Renovation wave: "positive energy powerhouses „
- 2 connected components:
 - Increase in energy efficiency, reduction of Emissions
 - positive energy balance when using sustainable, renewable energies

Type: Innovation Action (IA)

TRL 5/6 to TRL 7 /

Approx. 3-6 projects are funded

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Other Actions

Area 5: Sustainable and smart mobility

Topics included in Area 5:

- LC-GD-5-1-2020: Green airports and ports as multimodal hubs for sustainable and smart mobility (€100 million)



LC-GD-5-1-2020: Green airports and ports as multimodal hubs for sustainable and smart mobility (Topic 1)

- Traffic continues to be a significant force of pollution
- Aviation is responsible for 14% of transport-related GHG emissions - shipping for 13%. There is strong growth in both sectors expected until 2050
- Airports, seaports and inland ports have great potential towards the transition to greenhouse gas neutral aviation, shipping and to promote wider multimodal mobility

Type: Innovation Action (IA)

TRL: 6+

At least 4 projects are funded

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Other Actions

Area 6: Farm to Fork

Topics included in Area 6:

- LC-GD-6-1-2020: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy (€74 million)



LC-GD-6-1-2020: Testing and demonstrating systemic innovations in support of the Farm-to-Fork Strategy (Topic 1)

- Provision of sufficient food supplies for the growing world population
- Improving the ecological footprint of the stakeholders in the food value chain (Climate change, pollution, loss of Biodiversity, animal welfare, resource consumption, Food waste, fertilizer, pesticides)
- Securing the food value chain against negative influences and shocks (climate change, Harmful organisms, pandemics, etc.)
- Change towards a sustainable and healthy diet and reduction of diet-related non-communicable diseases (obesity, Diabetes, etc.)

Type: Innovation Action (IA)

TRL 5 to TLR 7

Cross cutting priorities: International Cooperation

At least 1 project should be funded in each of the 6 sub-topics

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Other Actions

Area 7: Biodiversity and ecosystem services

Topics included in Area 7:

- LC-GD-7-1-2020: Restoring biodiversity and ecosystem services (€80 million)



LC-GD-7-1-2020: Restoring biodiversity and ecosystem services (Topic 1)

- A quick and large-scale renovation of ecosystems is urgently needed.
- This applies equally to land, fresh water and coastal areas and marine ecosystems.
- Existing approaches to the regeneration of ecosystems must be upscaled and their implementation should be accelerated.
- A systemic approach is required to develop substantial solutions for the Green Deal in terms of climate change, biodiversity, sustainable Agriculture, Health and Wellbeing

Type: Innovation Action (IA) / no information from TRL

Around 4 projects (2 on Land and / or freshwater ecosystems and 2 on coastal and / or marine ecosystems)

International cooperation desired

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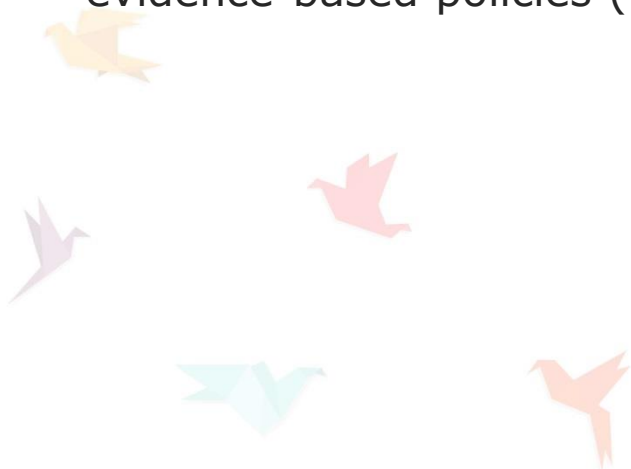
Area 10: Empowering citizens for the transition towards a climate neutral, sustainable Europe

Other Actions

Area 8: Zero-pollution, toxic free environment

Topics included in Area 8:

- LC-GD-8-1-2020: Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals (€40 million)
- LC-GD-8-2-2020: Fostering regulatory science to address combined exposures to industrial chemicals and pharmaceuticals: from science to evidence-based policies (€20 million)



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

- The European Green Deal is committed to the goal of a pollution-free environment
- It is important to focus on dangerous, persistent and mobile chemicals,
- Pollution is a systemic problem, consideration of production and consumption are required
- In addition, there is a lack of technological solutions, including options for the natural degradation of chemicals and methods for environmental monitoring (including the seas)
- Regulators need better ways to establish appropriate policies

Type: Research and Innovation Action (RIA)

TRL: Exemplary innovative solutions with TRL 4–6

Around four projects are funded.

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

- Increasing awareness and concern about active ingredients from drugs in the environment, as well as combined chemical substances
- At the same time growing scientific knowledge on interactions and risk assessment as well as on management
- Adapt regulatory requirements for new knowledge and expand knowledge base

Type: Research and Innovation Action (RIA)

About 3 projects are funded



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Other Actions

Cross-Cutting Activities – Area 9

Strengthening our knowledge in support of the European Green Deal

Topics included in Area 9:

- LC-GD-9-1-2020: European Research Infrastructures capacities and services to address European Green Deal challenges (€28 million)
- LC-GD-9-2-2020: Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation (€25 million)
- LC-GD-9-3-2020: Transparent & Accessible Seas and Oceans: Towards a Digital Twin of the Ocean (€12 million)



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

- Research and innovation services for breakthroughs in energy storage as well as climate and Environmental monitoring
- **Energy storage:** National and regional key research infrastructures should be brought together and be integrated, open up and develop appropriate services
- **Climate and environmental monitoring:** In addition to the atmospheric measurements from ICOS, ACTRIS and IAGOS
- Measure emissions in cities and their surroundings, especially greenhouse gases and nanoparticles

Type: Research and Innovation Action (RIA)

Energy: Various TRLs along the value chain

Cross cutting priorities: access to Research Infrastructure

Budget: At least 3 projects are funded

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

- Solutions for decarbonisation through the Cooperation between companies, investors, the government and citizens
- Paths to climate neutrality in terms of production, consumption and lifestyle with the inclusion of social and behavioral factors
- Relevant and practical solutions for the end user to achieve the climate goals, based on existing scientific results
- Supporting measures for the use of climate information in risk management and in cross-sectoral and cross-regional planning

Type: Research and Innovation Action (RIA)

Cross cutting priorities: International cooperation addressing the climate priority of GEO

Budget: At least 5 projects are funded

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

- Integration of all European Oceans with digital Technologies (cloud, supercomputers, AI and data Analytics)
- Concept of the digital twin for (almost) real-time description of oceans / digital model of the earth (highly accurate)
- Transformation of data to knowledge, to co-creation and interdisciplinary approaches to support decision making
- Strengthening the shared accountability of civil society, governments and industry too a sustainable blue economy
- Improvement of climate resilience measures, civil protection, land plan development and Condition assessment, etc.

Type: Innovation Action (IA)

International cooperation desired

Budget: 1 project

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Other Actions

Cross-Cutting Activities – Area 10

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

Topics included in Area 10:

- LC-GD-10-1-2020: European capacities for citizen deliberation and participation for the Green Deal (€10 million)
- LC-GD-10-2-2020: Behavioral, social and cultural change for the Green Deal (€10 million)
- 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 (€25 million)



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

- Workable and accepted GD solutions only possible if citizens are actively involved
- Importance of participatory processes throughout Europe, considering different population groups
- Requirement: expertise, ethics, methodology and commitment
- Expand, structure, and scale successes

Type: Research and Innovation Action (RIA)

Cross cutting priorities: International Cooperation, Gender

At least 2 projects are funded

LC-GD-10-2-2020: Behavioral, social and cultural change for the Green Deal (Topic 2)

- All areas of the EGD need comprehensive changes in behavior & social practices (Individuals, society, public and private organizations)
- Special focus on disadvantaged social groups who do not see a viable alternative.
- Likewise investigation of different perceptions (between states, social groups, age, etc.)
- Research & Experiment based on transdisciplinary expertise u. ethical standards.

Type: Research and Innovation Action (RIA)

Cross cutting priorities: Social Sciences and Humanities,
Gender, International Cooperation
At least 2 projects are funded



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 (Topic 3)

- Include citizens in the debate about climate protection / environmental protection and encourage personal behavior and attitudes too to change
- Changes in behavior can be achieved through education, Awareness raising, citizen science etc.
- Develop a European competence framework
- Use the potential of citizen science
- Coherence with objectives of European policies, building on existing initiatives

Type: Innovation Action (IA)

Cross cutting priorities: Gender, SSH

At least 5 projects are funded, min. 1 per subtopic

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Other Actions

Other Actions

1. Support for the coordination of and synergies between projects under the H2020 Green Deal Call (€6 million)
2. Delivery of knowledge for climate adaptation and mitigation through the Global Earth Observation System of Systems infrastructure (€2.5 million)
3. Study in support of scaling-up the financing of innovative Nature-based Solutions (€0.4 million)
4. Piloting tools for assessing the potential impact of innovation in achieving net-zero emission objectives by 2050 and improving project readiness for green financing (€0.9 million)
5. Support monitoring of industrial R&D&I investment data in the context of the Green Deal/Sustainable Development Goals and in the context of economic and technologic competitiveness of green-tech industries (€2 million)

Other Actions

6. Support for biodiversity related projects with a focus on the links between human health and biodiversity, including zoonotic and infectious diseases (€1 million)
7. Support circular economy solutions at local and regional scale (€2.4 million)
8. High Level Expert Group to assess the needs, potential, feasibility and approach for International Platform for Food Systems Science (IPFSS) (€0.3 million)
9. Support to the engagement of European Citizens in the transition to the European Green Deal (EGD) (€1.5 million)

Specific Information Sources



Green Deal call – Further information & application

Call Summary on EC website:

- https://ec.europa.eu/info/research-and-innovation/strategy/european-green-deal/call_en

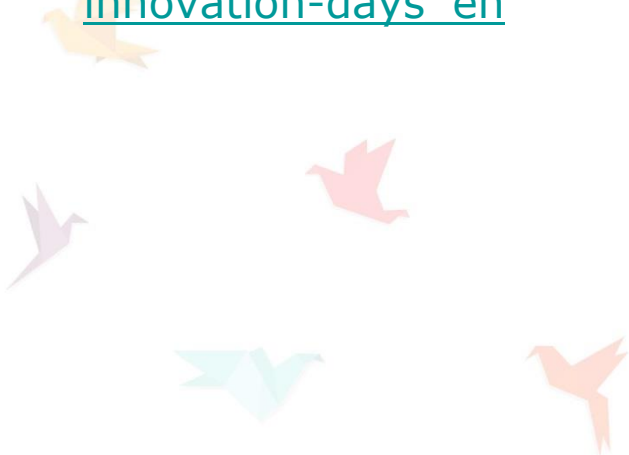
The H2020 Funding and Tenders Portal

- <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>



Get involved in the R&I Days 2020

- 22-24 September 2020
- Hub 2 dedicated to the Green Deal
- 23 September, 2 pm: Info Day Presentation of the European Green Deal Call, followed by breakout sessions
- Programme and further information at https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/european-research-and-innovation-days_en



How to build your network?



Learn from successful projects

- Build the most of what you have: **use your own existing networks.**
- Best starting point: look at **collaborations/links** you have at international, European level
- **Funding & Tender Portal Partner Search:**
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/partner-search>
- Find which institutions and/or consortia have **won projects already** in Horizon 2020 and/or FP7
- Read **scientific publications** in your field and take note of who is working on it

Green Deal call – Targeted Networking

- Virtual Brokerage Event (13.-14th of October)
 - Registration until the 2nd of October: <https://h2020-green-deal-call-dublin.b2match.io/>
 - Already 500+ Registrations
- Net4 Society Brokerage Event (7th of October)
 - <https://www.net4society.eu/en/Virtual-Brokerage-Event-SSH-in-the-Green-Deal-Call-1994.html>
- Search for projects & partners
 - <https://cordis.europa.eu/projects/en>
 - <https://www.cost.eu/cost-actions/browse-actions/>
 - <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/partner-search>

Be pragmatic!

- **Speak** to colleagues at conferences and events
- **Invite** them to join your project
- **Ask** to join their projects
- **Don't disappear** after the event finishes



Be prepared!

- **Don't** show up to networking events **without a clear idea of your objectives** (e.g. use elevator pitch, catchy PPTs,...)



Use Support Opportunities



Horizon 2020 E-Learning

From basic knowledge to advanced training modules, this platform will give you access to a comprehensive e-learning experience to help you to gather knowledge on how to participate in Horizon 2020. All modules are free of charge:

Register: <http://inco.emg.group/>



Your National Contact Point!

- Search for National Contact Points (thematic) here:
 - <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp>
- Contact your NCP Coordinator:

Armenia

- Tigran Arzumanyan
- tarznip@sci.am

Azerbaijan

- Ibrahim Quliyev
- ibrahim.guliyev@science.az

Belarus

- Olga Meerovskaya
- meerovskaya@fp7-nip.org.by

Georgia

- Natia Gabitashvili
- ngabitashvili@mes.gov.ge

Moldova (Republic)

- Viorica Boaghi
- viorica.boaghi@h2020.md

Ukraine

- Vitalii Cherniuk
- cherniuk@mon.gov.ua

Get Support by the EU Trainers

- Attend now the **Breakout Rooms** to interact directly with EU Trainers.
- Request an **individual Expert Consultation** by sending an email to eu-eap_sticooperation@servicefacility.eu, in case you are targeting a precise Green Deal Call/topic.



Join Now!

#InvestEUresearch

www.ec.europa.eu/research

Funding & Tenders Portal

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>

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