

H2020 GREEN DEAL CALL 'INTERNATIONAL NETWORKING EVENT'

Workshop 2: Climate Change

Dr. Shilpi Saxena
NCP Environment Germany
s.saxena@fz-juelich.de

<<online, 23.10.2020>>

Call Area 1: Increasing Climate Ambition: Cross sectoral challenges

Topic 1: Preventing and fighting extreme wildfires with the integration and demonstration of innovative means

Challenge:

- Wildfires are among the first contributors to climate change, with up to 20% of total global greenhouse gas emissions per year
- Southern Europe, but increasingly also in Central, Eastern and Northern Europe
- Large wildfires degrade air quality through the direct emissions of toxic pollutants, affecting first responders and local residents
- Populations in regions far away from the wildfires can be exposed to other pollutants as the air is transported, with short- and long-term impact on human health
- Ecosystem degradation and rural depopulation increase the depth and breadth of wildfires in the EU

IA: 15-20 M €/Project (indicative budget 72 M €)
CSA: 2-3 M €/Project (indicative budget: 3 M €)



[vegefox.com](https://www.vegefox.com/) / Adobestock

Type:

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

Cross cutting priorities:

International Cooperation encouraged

Call Area 1: Increasing Climate Ambition: Cross sectoral challenges

Topic 1: Preventing and fighting extreme wildfires with the integration and demonstration of innovative means

Scope: Address **ONLY ONE** of the following subtopics!

Subtopic 1 - IA

- Speed up the pan-European adaptation process to extreme wildfires by advancing and applying research and innovation
- Including demonstration pilot sites
- best use of existing data (e.g. remote sensing, in-situ or community-based data), technologies (e.g. Big Data and Artificial Intelligence) and services (as Copernicus, Galileo and EGNOS)
- Cover all phases of fire management:
 - **Phase A** – Prevention and Preparedness
 - **Phase B** – Detection and Response
 - **Phase C** – Restoration and Adaptation

Subtopic 2 - CSA

- Ensure that the demonstration of innovative and integrated approaches fulfils the expected impacts, by coordinating and supporting the IA projects funded under this topic:
 - facilitating the integration of the three fire management phases
 - engagement with citizens, local communities, forest owners and the forestry-based industry, nature conservation organisations, insurance and social infrastructure sectors
 - developing recommendations for wildfire prevention and preparedness activities targeted at the different actors involved
 - facilitating international collaboration and global outreach

Call Area 1: Increasing Climate Ambition: Cross sectoral challenges

Topic 1: Preventing and fighting extreme wildfires with the integration and demonstration of innovative means

Scope:

- new context of extreme wildfires requires accelerating the shift towards implementing a more holistic fire management approach that integrates environmental, climate, health & safety/security, cultural and socio-economic aspects
- research, demonstration and deployment of innovative means and methods tailored to extreme wildfire behaviour
- proactive governance, change of forest management practices, large-scale and community-based risk assessments, awareness and preparedness
- cooperate with ongoing relevant Horizon 2020 projects make best use of existing EU initiatives and services (Copernicus, Galileo, EGNOS, GEOSS, GEO, EFFIS, FIRE-IN...)

Impact:

- The actions should jointly contribute substantially to achieving by 2030 the following targets in Europe:
 - 0 fatalities from wildfires
 - 50% reduction in accidental fire ignitions
 - 55% reduction in emissions from wildfires
 - Control of any extreme and potentially harmful wildfire in less than 24 hours
 - 50% of Natura 2000 protected areas to be fire-resilient
 - 50% reduction in building losses
 - 90% of losses from wildfires insured
 - 25% increase in surface area of prescribed fire treatments at EU level

Call Area 1: Increasing Climate Ambition: Cross sectoral challenges

Topic 3: Climate-resilient Innovation Packages for EU regions

Challenge:

- In some regions and communities, incremental adaptation will not be sufficient to mitigate the impacts of climate change on socio-ecological systems
- The challenge is to scale up and demonstrate at large scale systemic solutions to trigger behavioural change and new ways of decision-making, while accounting for local and regional contexts
- Tailored to support the regions and communities most exposed to climate change impacts
- Multidisciplinary approaches that integrate technological, digital, business, governance, environmental dimensions with social innovation are needed for the development of adaptation pathways consistent with European Green Deal targets

IA: 10-15 M €/project (indicative budget: 42 M€)
CSA: 3 M €/project (indicative budget: 3 M €)



[vegefox.com](https://www.vegefox.com/) / Adobestock

Type:

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

Call Area 1: Increasing Climate Ambition: Cross sectoral challenges

Topic 3: Climate-resilient Innovation Packages for EU regions

Scope: Address **ONLY ONE** of the following subtopics!

Subtopic 1: Innovation Packages for transformational adaptation of European regions and communities (IA)

- Actions should aim at enabling **rapid and far-reaching change** through the development of region-specific portfolios of R&I solutions, mature enough for demonstration, which may include nature-based solutions, innovative technologies, financing, insurance and governance models, awareness and behavioural change
- Innovation packages should cover the key community systems and comprise the adaptation solutions and pathways deemed essential for climate and social resilience in the specific regional contexts and the set timeline

Subtopic 2: Support the design, testing and upscale of Innovation Packages (CSA)

- Actions should support the implementation and wide dissemination of the solutions developed and tested under sub-topic 1.
- In particular this action area should include:
 - Citizens and regions engagement
 - Monitoring and assessment
 - Portfolio of Solutions

Call Area 1: Increasing Climate Ambition: Cross sectoral challenges

Topic 3: Climate-resilient Innovation Packages for EU regions

Scope:

- planned “Horizon Europe Mission on Adaptation to Climate Change”, including Societal Transformation will test, evaluate and scale-up a range of adaptation solutions
- aim to trigger societal transformations among key community systems (i.e., health; primary production including agriculture, forestry, fisheries and aquaculture; water; environment, including biodiversity; and infrastructure including clean energy and transport)
- the actions funded under this call topic will serve as early facilitators in pre-identifying and upscaling the most promising cross-sectoral solutions at a regional scale

Further information:

EU Strategy on Adaptation to Climate Change

Impact:

- Contribute to strengthening social acceptance and social resilience
- **Subtopic 1 (IA)** Massive increase of community resilience and capacities to cope with unavoidable effects of climate change. Performance indicators should include for instance reduction of the climate protection gap, increase in Green investments, etc.
- **Subtopic 2 (CSA)** Improve knowledge access to adaptation solutions through synergies and/or integration of the online platform with Climate-ADAPT, Copernicus services and other existing Pan-European platforms

Challenge:

- demonstrating and promoting systemic solutions for upscaling urgent restoration to increase biodiversity and support a wide range of ecosystem services
- Concerns damaged terrestrial, freshwater, coastal and marine ecosystems
- systemic approach to deliver tangible benefits on the European Green Deal actions for climate (mitigation, adaptation and disaster risk reduction), biodiversity, zero pollution and sustainable food systems (from farm to fork), health and wellbeing



[vegefox.com](https://www.vegefox.com/) / Adobestock

Type: Innovation Action (IA)

Budget: 16-25 M €/Project (indicative budget: 80 M €)

Cross cutting priorities: International Cooperation encouraged

Call Area 7:

Biodiversity and ecosystem services

Topic 1:

Restoring biodiversity and ecosystem services



Scope:

- provide large-scale demonstrators of how systemic upscaling and replication of best practice ecosystem restoration can be deployed at regional, national and cross-border levels
- particular focus on ecosystems with high potential to capture and store carbon
- to contribute to the achievement of favourable status for species and habitats of the Birds
- promote scaling up and stepping up of implementation of nature-based solutions, building on existing experience (Horizont 2020, LIFE Projects)
- maximise synergies between mitigating/adapting to climate change and restoring biodiversity

Impact:

- demonstrate how transformational change through ecosystem restoration delivers at large scale
- delivering first visible results and examples on land and at sea by 2024
- maintained and enhanced natural carbon sinks
- Support several EU strategies, e.g. GDC, Biodiversity strategy etc.
- increased restoration through uptake of public-private partnerships and (voluntary) market-based incentives for business and individuals
- enhanced empowerment, engagement and reconnection of local communities

Call Area 9: Strengthening our knowledge in support of the EGD
Topic 2: Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation

Challenge:

- Challenges of mitigation and adaptation will ultimately be met by business and investors, government, and citizens
- Climate change adaptation and mitigation solutions still fail, to a large extent, to incorporate social and behavioural factors would increase efficiency towards our climate goals, and overcome barriers preventing achieving those goals
- relevant and practical climate adaptation and mitigation solutions and information to reach the end users, help them in building the climate-neutral future they want and address environmental challenges posed by climate change



[vegefox.com](https://www.vegefox.com/) / Adobestock

Type: Reserach and Innovation Action (RIA)

Budget: 3-5 M €/Project (indicative budget: 25 M €)

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

Call Area 9: Strengthening our knowledge in support of the EGD
Topic 2: Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation



Scope:

- contribute to informing citizens and decision-makers about the impacts of climate change in the decades to come
- identify adaptation options, and illustrate what pathways towards climate neutrality entail in terms of production, consumption, planning and lifestyle, incorporating behavioural factors
- Building on existing services and frameworks, such as Copernicus, GEOSS, EMODnet and ESA actions
- Demonstrating the climate services in a near-to-operational environment with the provision of guidance services and measuring the results through key performance indicators defined with users and stakeholders

Impact:

- Contribute to the exploitation of information and data from the Copernicus programme and GEO initiative
- Improve robustness and predictive quality of data, and information and knowledge on climate adaptation and mitigation
- Make high-level information on climate change more accessible to people's lives and to provide data in a format that makes it useful for its users
- Increase resilience of society, organisation (private and public), and individual to multiple risks
- Support the development of the European Service sector regarding end-user climate services

Further information: European Green Deal, Group on Earth Observations, Copernicus Climate Change Service

Recording links and slides from the EU Green Deal Call infoday

- <http://www.ncps-care.eu/?p=4084>

You missed the infoday of the EU Green Deal Call ? You can find the slides [here](#) and almost all recording from the EU Green Deal Call infoday during **the R&I days** are now available online. You can find below a compilation of the links. You need to click on the loudspeaker symbol on the bottom right corner to be able to hear the sound.



EC R&I
funded project
in H2020, GA
no. 642025

General infoday about the EU Green Deal Call

Webinar on topics :

- **Webinar on area 1** (topic 1 and 3)
- **Webinar on area 2**
- **Webinar on area 3**
- **Webinar on area 4**
- **webinar on area 5**
- **webinar on area 6**
- **webinar on area 7**
- **webinar on area 8**
- **webinar on area 9**
- **Webinar on area 10**

Pitching sessions :

- **Pitching session on topic 1.2**
- **Pitching session on topic 1.1 and 1.3.**
- **Pitching session on area 2**
- **Pitching session on area 3**
- **Pitching session on area 4**
- **Pitching session on area 5**
- **Pitching session on area 6**
- **Pitching session on area 7**
- **Pitching session on area 8**
- **Pitching session on area 9**
- **Pitching session on area 10**

Contact





Dr. Shilpi Saxena
NCP Environment
Coordinator NCPs CaRE
Project Management Juelich, Germany



EC R&I
funded project
in H2020, GA
no. 642025

s.saxena@fz-juelich.de
Tel.: +49 – 30 – 20199 – 3215

NCPs CaRE 🌐 : <http://www.ncps-care.eu/>
NCPs CaRE 🏢 : <http://partnersearch.ncps-care.eu/>
NCPs CaRE  : <https://www.linkedin.com/in/ncps-care-76b212157/>
NCPs CaRE  [@NCPsCaRE](https://twitter.com/NCPsCaRE) (<https://twitter.com/NCPsCaRE>)