

The European Green Deal Call

RTD.C5

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European Union



The Green Deal call is different:

Innovation oriented – High impact focus, limited number of topics – Relatively short timeframe

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Overview

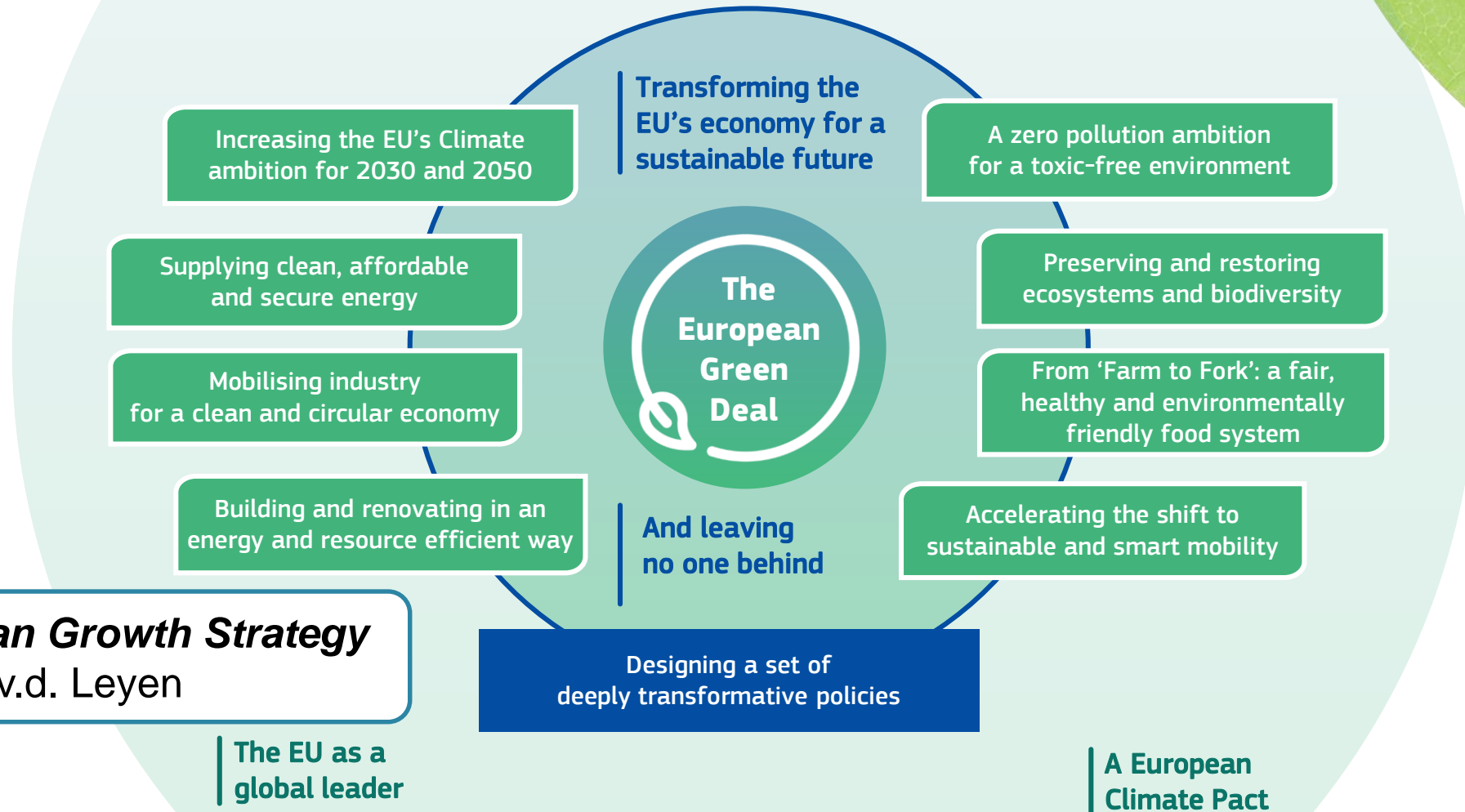
1. Structure and narrative of the Green Deal call
2. Process and timeline
3. Consultation and stakeholder engagement
4. Areas and topics
5. Q&A



The European Green Deal



European Commission



Our European Growth Strategy

U. v.d. Leyen

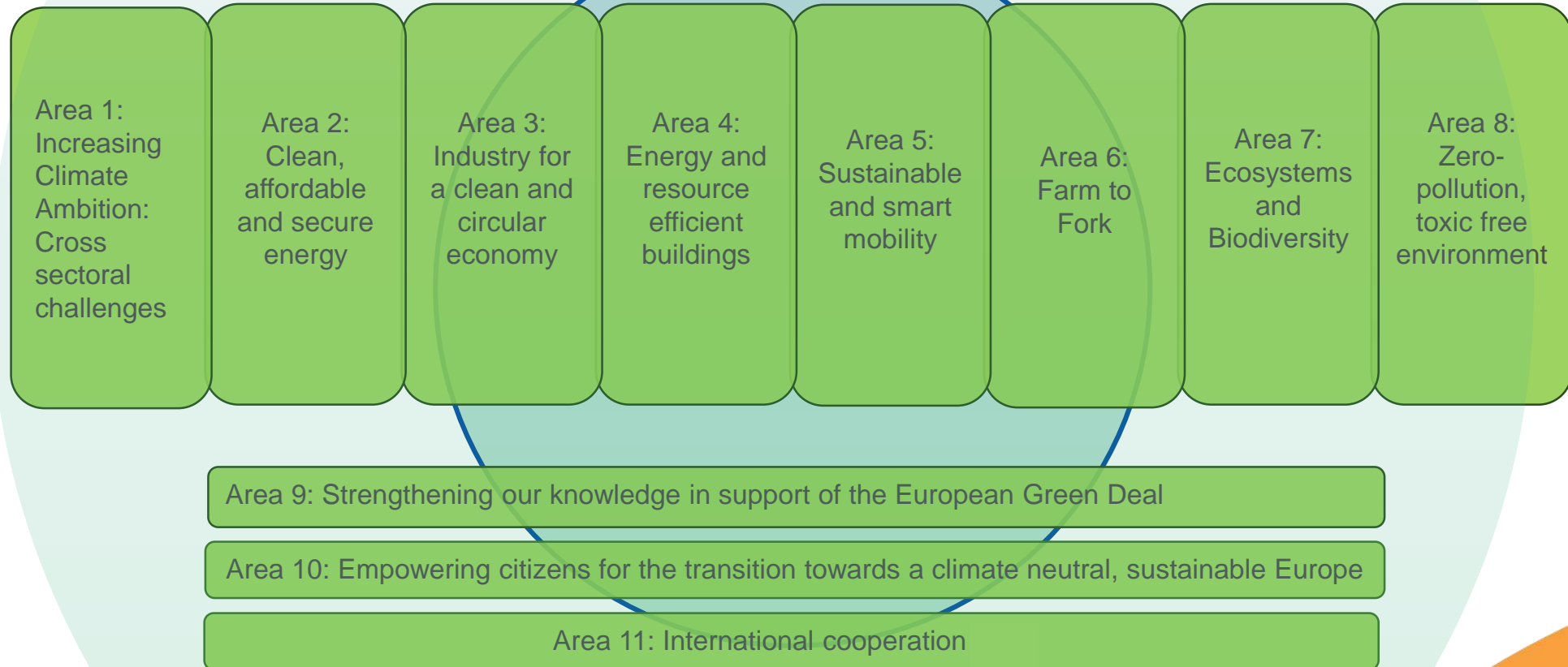


Structure and narrative

- The structure of the **Green Deal Call (GDC)** reflects the **eight key** European Green Deal (EGD) work streams and is complemented by **three horizontal areas** (strengthening knowledge; empowering citizens; and international cooperation), which cut across the eight areas and offer a longer-term perspective in support of the transformations required by the EGD.
- **GDC** is part of H2020 Work Programme, but is a different call in several aspects. It **aims** to: produce tangible results - visible to the citizens - in a relatively short time frame
- To increase impact and visibility, proposed actions are limited in number (20), with a strong focus on impact, supporting primarily (but not exclusively) Innovation and Demonstration actions. Research Actions and Coordination and Support Actions are also included in the call.
- The GDC is a direct contribution of R&I to the **European Green Deal** (EGD) and to the **Recovery Plan**, it has a budget of 1 billion euro.



Structure and narrative



| Timeline

- 19th of June – Last Strategic PC meeting
- Early July – Launch of Interservice consultation
- August – Formal opinion of the Strategic PC
- Mid–September – adoption of the WP update by the Commission
- End of January 2021 – Expected closing of the call
- Q4 2021 – Expected signature of grant agreements.



Consultations and engagement process

The Green Deal call has been extensively co-created with consultations of Member States (MS) and Associated Countries (AC) as well as stakeholder engagement.

- Four rounds of consultations with MS/AC in different stages of the creation process through the Programme Committees between March 2020 and June 2020.
- Stakeholder feedback was launched on May 19th with 11 individual surveys (1 per call area) for 16 days via web based portal presenting also the draft topic texts (https://ec.europa.eu/info/research-and-innovation/strategy/european-green-deal/call_en).
- A total of 5955 responses to survey questions were received, about 3300 comments and 540 uploaded documents with overall clear and unambiguous support regarding the relevance of the proposed topics.



| Main changes in the call text after stakeholder engagement

- Social Sciences and Humanities (SSH) were mainstreamed and significantly strengthened throughout the call, Area 10 now has three topics;
- Where appropriate, expected Technology Readiness Levels (TRL) were lowered throughout the call to allow for more Research and Innovation Actions (RIA);
- The expected size of proposals was critically examined to allow for smaller consortia;
- Some topics were broadened and subtopics added;
- Space technologies and (green) digitalisation aspects were included (esp. Area 1, 7, 8, 9, 11).



Area 1 - Increasing climate ambition: cross sectoral challenges

Research and innovation needs for climate mitigation and adaptation, long-term vision for climate neutrality as set out in the *Clean Planet for All* Communication.

- 1.1. Preventing and fighting extreme wildfires with the integration and demonstration of innovative means
 - Subtopic 1: Pan-European adaptation process to extreme wildfires (IA) with a systemic approach addressing all phases of wildfire management; Subtopic 2: Demonstration of innovative and integrated approaches (CSA)
- 1.2. Towards climate-neutral and socially innovative cities (RIA)
 - One stop shop platform to drastically reduce GHG, with cascade funding
- 1.3. Climate-resilient innovation packages for EU regions
 - Subtopic 1: Innovation Packages for transformational adaptation of European regions and communities (IA); Subtopic 2: Support the Innovation Packages (CSA)



Area 2: Clean, affordable and secure energy

The production and use of energy accounts for more than 75% of the EU's greenhouse gas emissions; therefore, further decarbonising the energy system is fundamental for reaching the climate targets set for 2030 and 2050.

- 2.1. Innovative land-based and offshore renewable energy technologies and their integration into the energy system
 - Subtopic 1: Development of land-based renewable energy technologies and their integration into the energy system (RIA); Subtopic 2: Demonstration of innovative technologies to enable future large scale deployment of offshore renewable energy (IA)
- 2.2. Develop and demonstrate a 100 MW electrolyser upscaling the link between renewables and industrial applications (IA)



Area 3: Industry for a clean and circular economy

Aim is to switch to alternative, climate-neutral energy and feedstock sources and, in line with the EU's new industrial strategy, adopting more circular product designs.

- 3.1. Closing the industrial carbon cycle to combat climate change (IA)
 - Significant reduction of industrial CO₂ emissions through the development of an industrial scale demonstrator and novel, highly optimised and energy efficient catalytic systems.
- 3.2. Demonstration of systemic solutions for the territorial deployment of the circular economy (IA)
 - Decouple economic growth from resource use and to ensure a swift transition to climate-neutral and circular solutions and to increase the security of EU value chains.



Area 4: Energy and resource efficient buildings

Construction and renovation of buildings, together with their use and operation, consumes significant amounts of energy as well as mineral resources.

- 4.1. Building and renovating in an energy and resource efficient way (IA)
 - Large-scale, real-life demonstrations of promising technology, process and social innovations, in different regions of Europe to reduce embodied GHG and increase energy efficiency.



Area 5: Sustainable and smart mobility

A clear commitment of the European Green Deal is that “transport should become drastically less polluting”, highlighting in particular the urgent need to reduce greenhouse gas emissions (GHG) in aviation and waterborne transport.

- 5.1. Green airports and ports as multimodal hubs for sustainable and smart mobility (IA)
 - “Lighthouse-and-fellows” approach
 - Area 1: Green Airports with 1) Transport, 2) Terminal, 3) Energy and 4) Cross-cutting aspects
 - Area 2: Green Ports, covering energy supply and production, efficient logistics and multimodality, governance and policy



Area 6: Farm to fork

In line with the Farm to Fork Strategy, the actions under this area pave the way to a more sustainable food policy. This will strengthen the efforts of farmers and fishermen and - women to tackle climate change, protect the environment and preserve biodiversity while contributing to more circular economies and lifestyles.

- 6.1. Testing and demonstrating systemic innovations for sustainable food from farm to fork (IA)
 - Six food system challenges: (1) reducing GHG emissions and by increasing farm-based carbon sequestration and storage, (2) reducing energy use and increasing energy efficiency in processing, distribution, conservation and preparation of food, (3) zero pollution of water, soil and air (pesticides and fertilisers), (4) Use of antimicrobials in animal production and in aquaculture , (5) Reducing food losses, waste and packaging, (6) sustainable healthy diets.
 - Close link to the “Farm to Fork Strategy” (European Commission Communication “A Farm to Fork Strategy for a fair, healthy and environmentally-friendly food system”, COM(2020)381).



Area 7: Biodiversity and ecosystem services

Supporting the Biodiversity Strategy adopted by the European Commission, the actions under this area aim to restore biodiversity and ecosystem services. Large-scale restoration of degraded ecosystems and deployment of nature-based solutions will accelerate transformative change in cooperation with vulnerable communities and regions.

- 7.1. Restoring biodiversity and ecosystem services (IA)
 - This topic responds to the urgent double challenge of (1) accelerating transformative change through (2) upscaling restoration of ecosystems at sea or on land.
 - Projects include widespread and innovative scaling-up of ecosystem restoration to maintain and enhance natural carbon sinks and other ecosystem services.



Area 8: Zero-pollution, toxic-free environment

Actions under this area envision measures addressing pollution from several sources, such as urban runoff, new or particularly harmful sources including micro-plastics and chemicals, or large industrial installations.

- 8.1. Innovative, systemic zero-pollution solutions to protect health, environment and natural resources from persistent and mobile chemicals (RIA)
 - mitigation solutions based on better understanding the sources and distribution of the targeted chemicals, improved risk assessment, support policy development.
- 8.2. Fostering regulatory science to address chemical and pharmaceutical mixtures: from science to evidence-based policies (RIA)
 - Advance regulatory science to provide policy-makers and risk assessors with validated and practically applicable approaches, methods and tools and to study the effectiveness and efficiency of different policy approaches on exposure to chemical and pharmaceutical mixtures.



Area 9: Strengthening our knowledge in support of the EGD

Activities to strengthen the European knowledge base, adopting a longer-term perspective while also acting as a bridge to Horizon Europe.

- 9.1. European Research Infrastructures' capacities and services to address European Green Deal challenges (RIA)
 - Subtopic 1: Support Europe leadership in clean energy storage technologies; Subtopic 2: Enhancing European research infrastructures for greenhouse gases observation in and around cities; Subtopic 3: Enhancing observations for air quality and citizens' health in urban areas.
- 9.2. Developing end-user products and services for all stakeholders and citizens supporting climate adaptation and mitigation (RIA)
 - 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.
- 9.3. A transparent and accessible ocean: towards a digital twin of the ocean (IA)
 - Consistent high-resolution, multi-dimensional and (nearly) real-time description of the ocean.



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

The transition towards sustainability must be just and inclusive, put people first and bring together citizens in all their diversity.

- 10.1. European capacities for citizen deliberation and participation for the Green Deal (RIA)
 - Topic aims for enhanced involvement of citizens in the implementation of the European Green Deal.
- 10.2. Behavioural, social and cultural change for the Green Deal (RIA)
 - Actions should address behavioural change at individual and collective levels, including public and private organisations, as well as broader changes in social practices related to the European Green Deal through structurally enhanced research and innovation capacities in this area.
- 10.3. Enabling citizens to act on climate change and environmental protection through education, citizen science, observation initiatives, and civic involvement
 - 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.



Area 11: International cooperation

The Joint Communication for a Comprehensive Strategy with Africa highlights that innovation is key to enable African countries to pursue sustainable pathways to development through a low-carbon, climate resilient and green growth trajectory, leapfrogging fossil fuel based and inefficient technologies.

- 11.1. Accelerating the green transition and energy access partnership with Africa
 - Actions should demonstrate innovative and sustainable energy solutions that consider climate adaptation and climate mitigation in the African social, economic and environmental contexts.



| Thank you

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Q&A

Questions that cannot receive a definitive answer at this point (since the formal adoption of the call has not yet taken place):

- Questions on budgets and specific expected project sizes for individual topics or areas,
- Questions related to specific project proposals and their possible fit in the call areas,
- Questions on exact wording of the final call text.

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