



## Missions in Horizon Europe

*A Climate Resilient Europe &*

*100 climate-neutral cities by 2030*

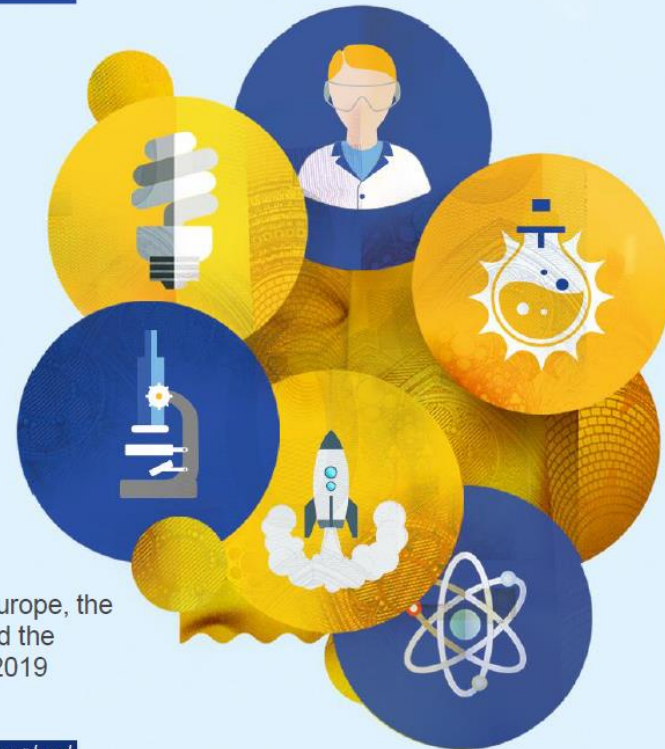


# Horizon Europe

THE NEXT EU RESEARCH & INNOVATION INVESTMENT PROGRAMME (2021 – 2027)

#HorizonEU

Based on the Commission Proposal for Horizon Europe, the common understanding between co-legislators and the Partial General Approach, both approved in April 2019



Research and Innovation



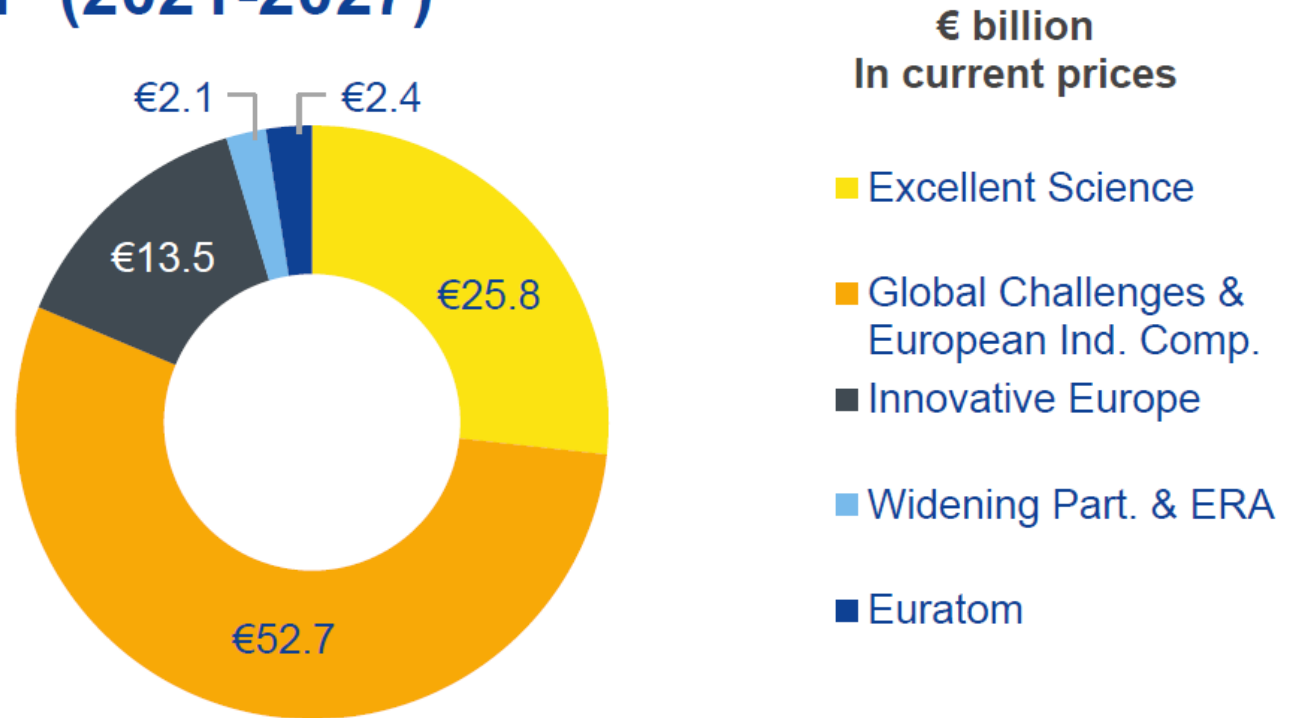
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# Commission proposal for budget: €100 billion\* (2021-2027)



\* This envelope includes EUR 3.5 billion allocated under the InvestEU Fund.



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## Strategic plan gives direction to the work programme



### Main Features

- Early involvement and extensive exchanges with Member States
- Extensive exchanges with the European Parliament
- Consultations with stakeholders and public at large



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## From Strategic Plan to Work Programme

Strategic Plan

Work Programme

### EC Policy priorities

- Green Deal, Europe fit for Digital Age, Economy that works for People

### Key strategic orientation

- Strategic objectives within policy priorities where R&I is expected to make a difference

### Destinations

- Packages of actions within each work programme within Pillar 2. Aimed at contributing to the expected impact of the strategic plan.

### Call for proposals

- Each destination is implemented by a bundle of calls for proposals.



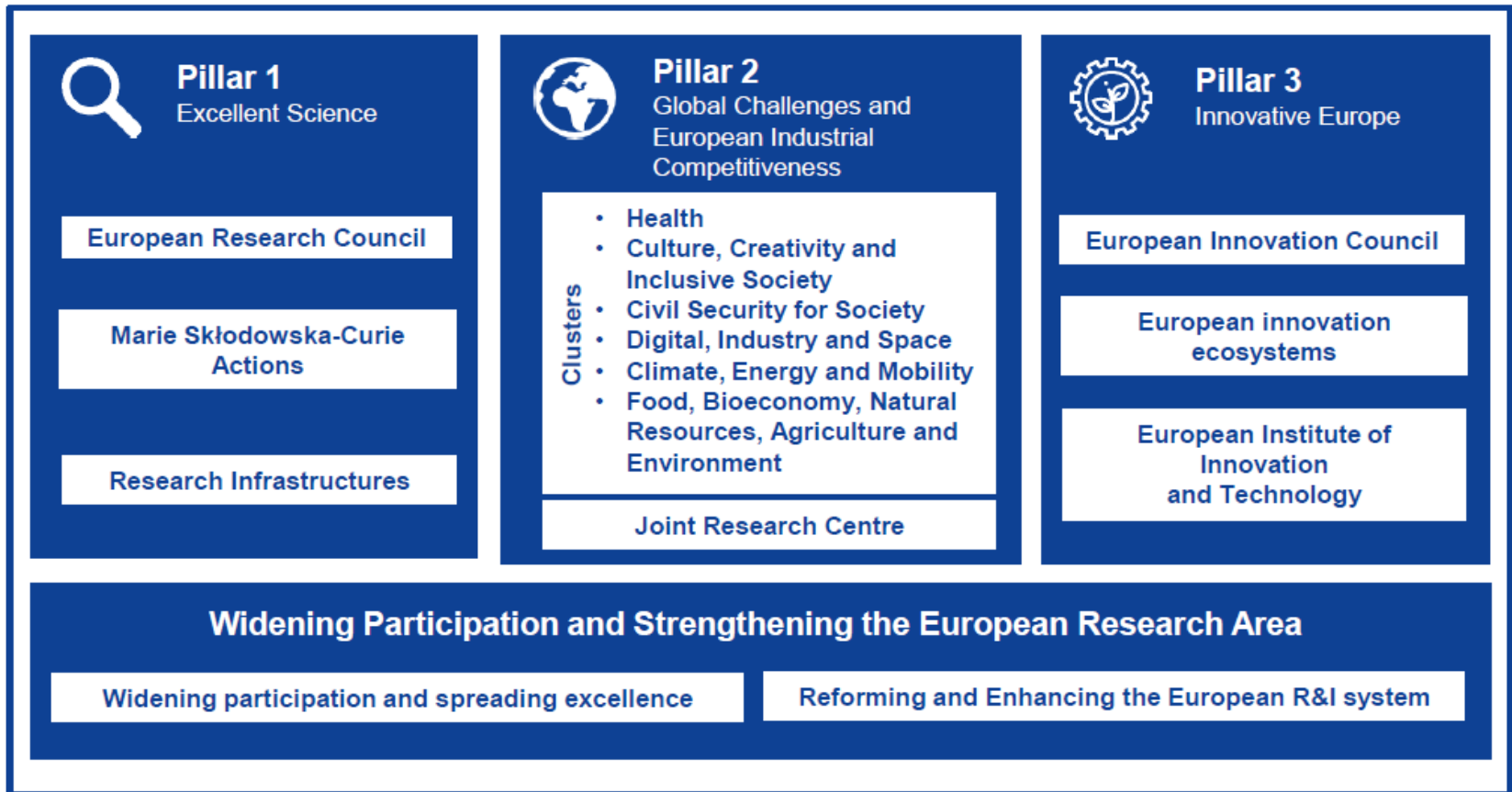
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# Horizon Europe: Preliminary structure





## Missions in Horizon Europe

*Partly inspired by the Apollo 11 mission to put a man on the moon, European research and innovation missions aim to deliver solutions to some of the greatest challenges facing our world.*

*They are an integral part of the Horizon Europe framework programme beginning in 2021.*

*Each mission is a mandate to solve a pressing challenge in society within a certain timeframe and budget.*

✓ **5 missions proposed by the mission boards**



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**Adaptation to climate change, including societal transformation**



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# EUROPEAN RESEARCH & INNOVATION DAYS

22 → 24 20  
SEPTEMBER 20



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- ✓ Each mission board presented their proposals to the European Commission for possible EU missions
- ✓ <https://research-innovation-days.ec.europa.eu/>



CEREMONY: HANDOVER OF THE EU MISSIONS FINAL REPORTS



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## ■ Next steps

The Commission will announce its final selected missions at the end of 2020.

The missions will launch in 2021 as part of Horizon Europe.

Europeans will continue to be engaged in all phases of their implementation.

## ■ Information and Reports:

[https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme/missions-horizon-europe\\_en](https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme/missions-horizon-europe_en)



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## Policies, Strategies and Priorities

- ✓ Paris Agreement
- ✓ UN Sustainable Development Goal
- ✓ European Green Deal
- ✓ European Climate Law
- ✓ more...



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# A Climate Resilient Europe

*Prepare Europe for climate disruptions and accelerate the transformation to a climate resilient and just Europe by 2030*



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# A Climate Resilient Europe

## Vision

- 1. Prepare Europe to deal with climate disruptions**, and assist **all citizens**, communities and regions in better understanding, preparing for and managing climate risks;
- 2. Accelerate the transformation to a climate resilient future**, supporting **200 European communities and regions** in co-creating a vision, innovation pathways, and developing solutions for transformative adaptation within safe planetary boundaries;
- 3. Build deep resilience by scaling up actionable solutions triggering societal transformations** through **100 deep demonstrations** of resilience across a number of European communities and regions, with emphasis on cross-border cooperation and cohesion.



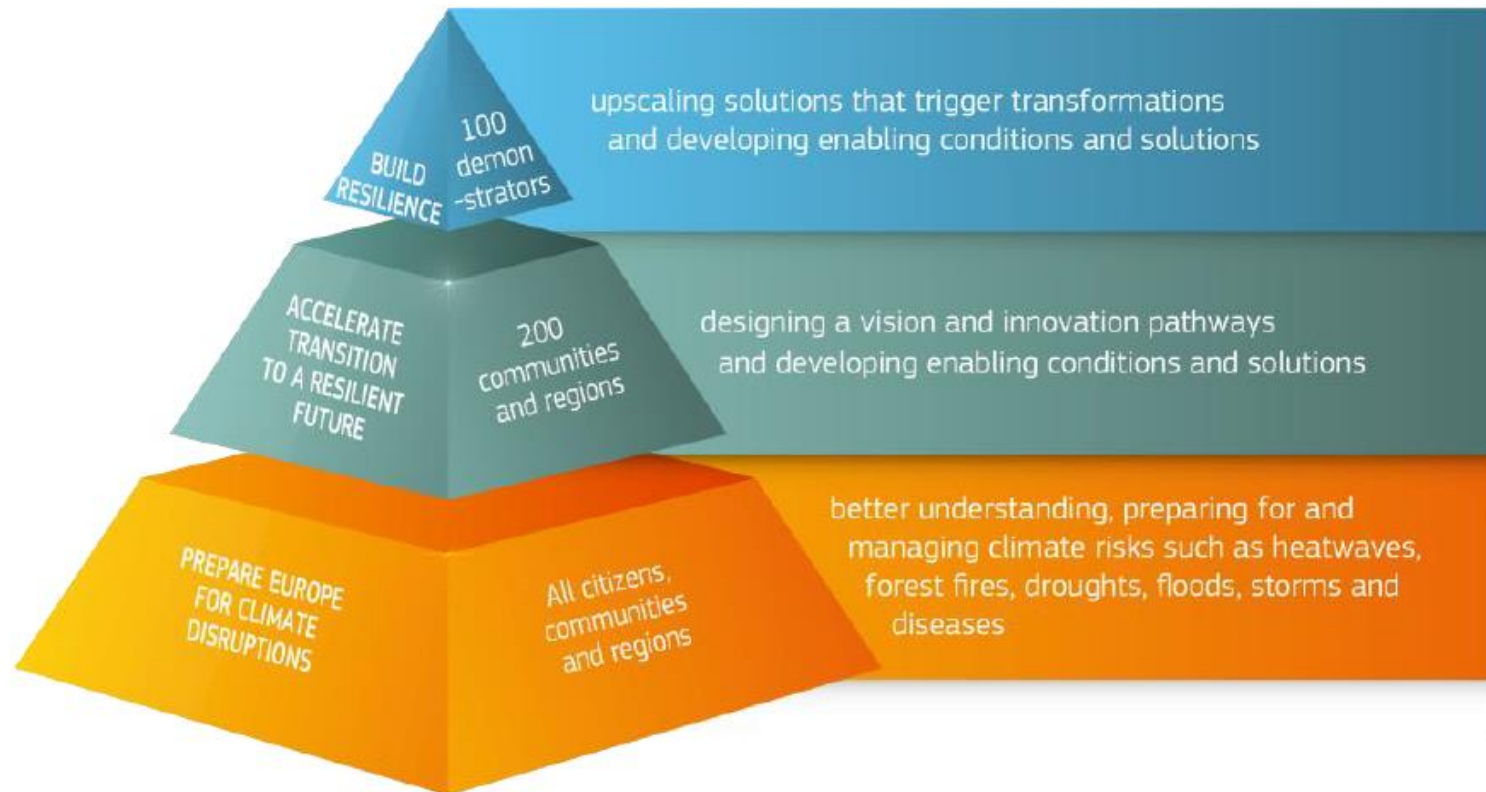
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# A Climate Resilient Europe: Vision and objectives



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# A Climate Resilient Europe

## Objective 1

*By 2030, the Mission will*

**Prepare Europe to deal with climate disruptions**, assisting citizens, communities and regions in better understanding, preparing for and managing climate risks such as heatwaves, forest fires, droughts, floods, storms, and diseases.

**Target: By 2030**, all local administrative units (LAU) and regions (NUTS) will have access to climate risk profiles and enhanced early warning systems for all relevant risks, will have adopted comprehensive climate risk management plans, and will have community infrastructure and services that are safe and operable and accessible under critical conditions



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## A Climate Resilient Europe

### Objective 2

*By 2030, the Mission will*

**Accelerate the transition to a climate resilient future**, supporting 200 European communities and regions that reflect the diversity in climate and approaches to addressing climate risk in Europe, in co-creating a vision, innovation pathways and enabling conditions for transformative adaptation within safe planetary boundaries.

**Target: By 2030**, 200 European communities and regions will have developed their own transformative vision; co-created adaptation pathways; co-designed and tested actionable solutions; and created favourable conditions for societal transformations towards climate resilience.



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## A Climate Resilient Europe

### Objective 3

*By 2030, the Mission will*

**Build deep resilience, scaling up actionable solutions triggering societal transformations** through 100 deep demonstrations of climate resilience across a number of European communities and regions.

**Target: By 2030**, 100 deep demonstrations have scaled-up actionable solutions that have triggered societal transformation, building deep climate-resilience and creating value shared across borders.



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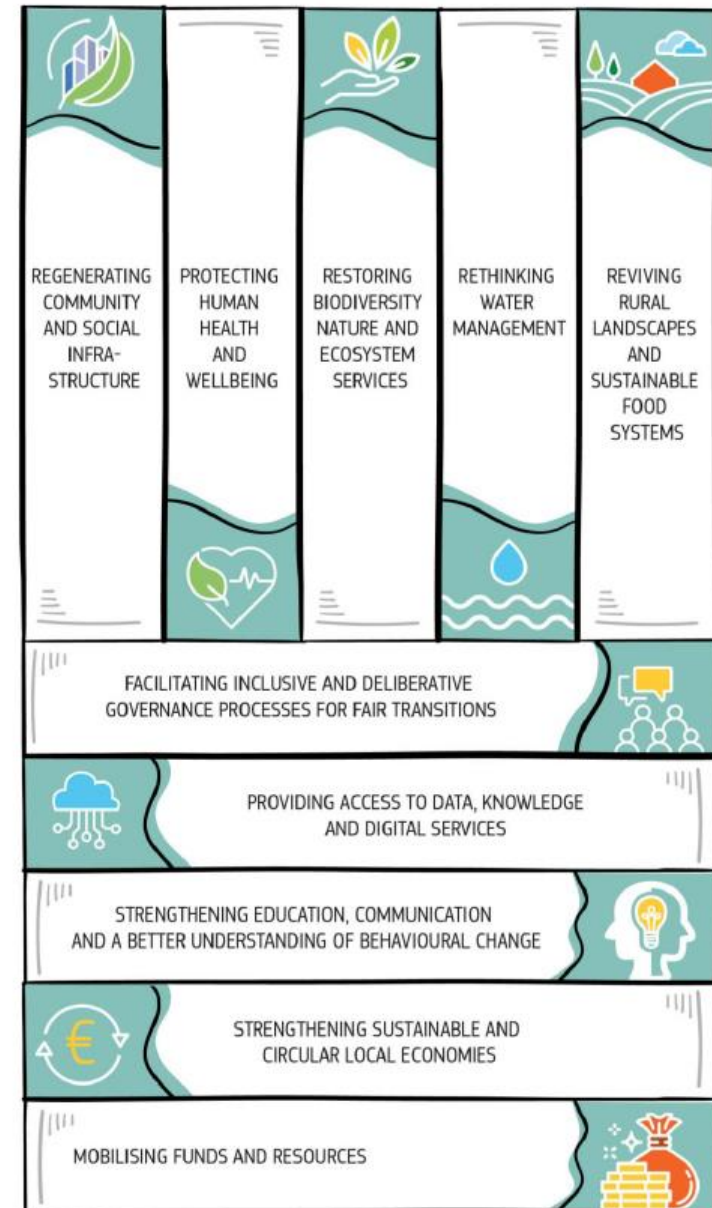


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# »» A Climate Resilient Europe

- The portfolio of the Mission

*Areas of research of and innovation for transformation*



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## A Climate Resilient Europe - Timeline

### Activities from 2021 until 2030

- Co-design and preparatory phase until 2023
  - Picking the partners of the mission
  - Establishing mission governance and support structures
  - Co-designing mission
  
- Co-implementation phase until 2030
  - Prepare Europe to deal with climate disruptions
  - Accelerate the transition to a climate resilient future
  - Build deep resilience
  
- Co-evaluation phase until 2030



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# 100 climate-neutral cities by 2030

## - by and for the citizens



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## 100 climate-neutral cities by 2030

### The aim of the mission is to:

Support, promote and showcase **100 European cities** in their systemic transformation towards climate neutrality by 2030 and make these cities into experimentation and innovation hubs for all cities, thus leading on the European Green Deal and on Europe's efforts to become climate neutral by 2050.



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## 100 climate-neutral cities by 2030

### Its objectives include (1):

- Build a multi-level and co-creative process formalised in a **Climate City Contract** that, while adjusted to the realities of each city, will aim at the shared goal of the mission;
- Promote citizens to become agents of change through bottom-up initiatives and innovation and through new forms of governance;
- Help cities access the financial means to achieve the Mission through Horizon Europe, the European Structural and Investment Funds, the Connecting Europe Facility, the Just Transition Fund, the mechanism for Important Project of Common European Interest, InvestEU, the Next Generation EU instrument and other EU funds;



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## 100 climate-neutral cities by 2030

### **Its objectives include (2):**

- Foster a just transition, via the implementation of the Agenda 2030 and its Sustainable Development Goals, to improve citizens' health and wellbeing;
- Bring many co-benefits e.g. improved air quality, job creation, healthier lifestyles, stimulating the positive effects of new sustainable mobility concepts;
- Identify European, national, regional and local policy gaps as well as R&I priorities to contribute to the goals of the European Green Deal;



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## 100 climate-neutral cities by 2030

### Its objectives include (3):

- Support the development of drivers of transition under five key enablers:
  - A model for the transformation of cities to **innovation** hubs;
  - New forms of participative and innovative **city governance**;
  - An economic and **funding/financing** model for climate action;
  - An '**integrated urban planning**' model;
  - **Smart** systems and data platforms.



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## 100 climate-neutral cities by 2030

### Its objectives include (4):

- Create synergies with and between existing European climate initiatives and stakeholders such as the Covenant of Mayors, the EIT and its relevant KICs, the Green City Accord, the European Green Capital Cities, the SET-plan and the 100 PEDs initiative, the EIP-SCC and the lighthouse projects, CIVITAS;
- Align with other missions and initiatives that support the Green Deal to ensure complementarity, in particular with the mission on *climate adaptation* and its work to adapt Europe – and its urban areas – to the actual or expected climate and its effects;
- Collaborate on innovation with the European business to enhance the competitiveness of European industry in the global markets.



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## 100 climate-neutral cities by 2030

### The Climate City Contract

To address the challenge of climate neutrality and help better deliver EU policies, the Mission proposes **a multi-level co-creation process** through the introduction of a **Climate City Contract**. The purpose is to:

- a) express the ambition and commitment of all involved parties to the Mission objectives;
- b) identify the policy and implementation gaps as a basis for a strategy for transition;
- c) coordinate stakeholders and empower citizens in the city around a common climate goal;
- d) coordinate the national/regional and EU authorities to deliver the necessary legal, governance and financial framework conditions to support each city;
- e) create a one-stop-shop for multi-level negotiations to facilitate city action for transition.



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## 100 climate-neutral cities by 2030

### **The Partnerships under the Climate City Contract**

The Climate City Contract will be a politically binding document that covers all the elements of the mission. Since multi-level governance is an indispensable ingredient for the mission's success, the Contract will be signed ideally by:

- the city/metropolitan government
- the European Commission
- the respective national or regional authorities



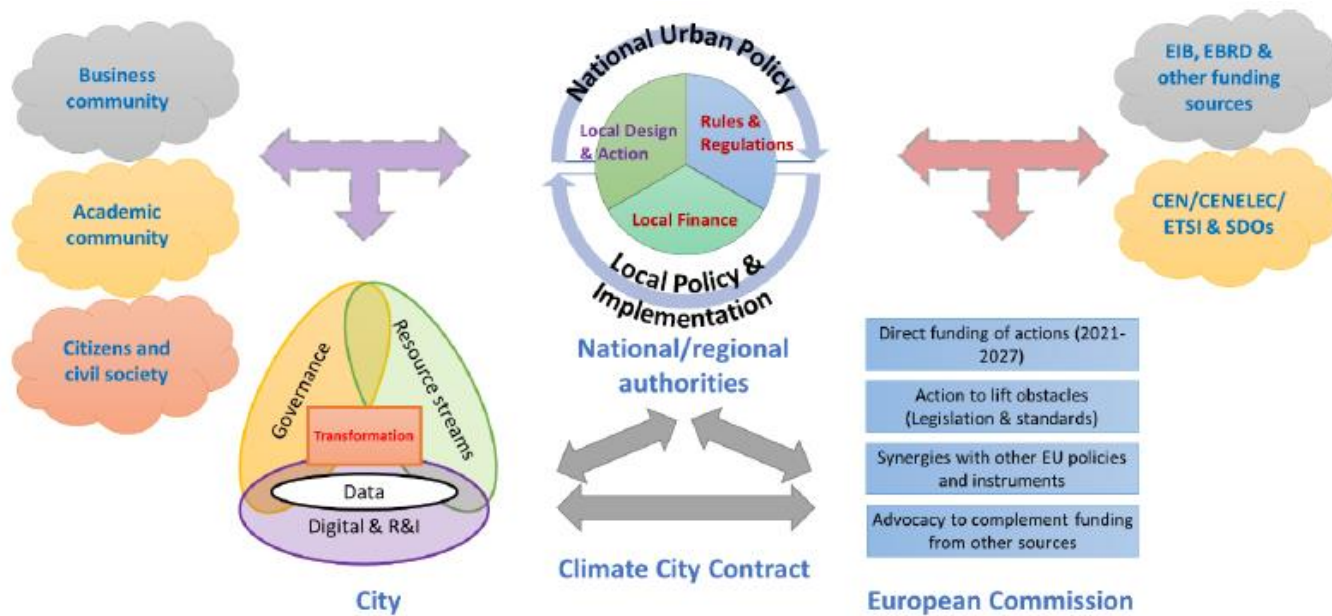
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# 100 climate-neutral cities by 2030



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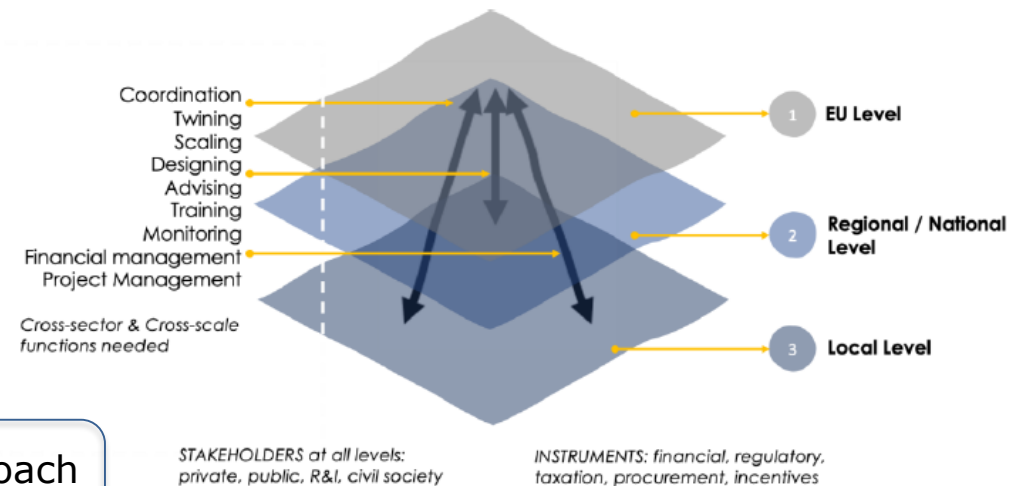
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## 100 climate-neutral cities by 2030

### Towards a new city governance – by and for the citizens

The Mission proposes a systemic transformation that goes beyond the usual top-down approach. Instead, it uses a horizontal coordination of the stakeholders and citizens in a city who jointly agree on a vision, targets, interventions and synergies to share and reduce their climate impact.



Multi-governance approach  
for the cities mission



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## 100 climate-neutral cities by 2030 - Timeline

### Overall timeline with three phases:

- An **early delivery phase in 2020-2022** that will set the foundations of the Mission and of its facilities to help the participating cities;
- The **main phase in 2022-2030** during which the main body of cities will implement their strategy towards transformation and climate neutrality;
- The **period after 2030 and up to 2050** when the Mission will have hopefully created the momentum for a climate neutral Europe.



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# Citizen engagement

The screenshot shows the top part of the European Commission website. At the top left is the European Commission logo. To its right is a language selector set to 'English' and a search bar. Below this is a navigation bar with links for 'Home', 'About the Missions', 'EU Missions', and 'Events'. On the right side of the navigation bar are 'Sign Up' and 'Sign In' links. The main banner features a yellow background with illustrations of a plant growing from soil and a person standing next to a yellow car. The text 'Get involved in Missions' is prominently displayed in white, with a blue button below it that says 'SHARE YOUR IDEAS'. Below the banner, the text 'Get involved' is centered, followed by a paragraph: 'Are you concerned about cancer, climate change, about having a greener city or healthy soil and oceans? Do you want your voice heard?' and another paragraph: 'The EU is on a mission – in fact 5 missions - to deal with these urgent issues and they want to do it with your help.'



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## Useful links

- ✓ Horizon Europe – The next FP

[https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme\\_en#documents](https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme_en#documents)

- ✓ Missions in Horizon Europe

[https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme/missions-horizon-europe\\_en](https://ec.europa.eu/info/horizon-europe-next-research-and-innovation-framework-programme/missions-horizon-europe_en)

- ✓ Research and Innovation Days 2020

<https://research-innovation-days.ec.europa.eu/>



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Thank you for your attention!




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