



Bioenergy and Biofuels Research & Innovation: the European viewpoint

ETN webinar series: Flexible Power Generation

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RTD.C.1- Clean Energy Transition

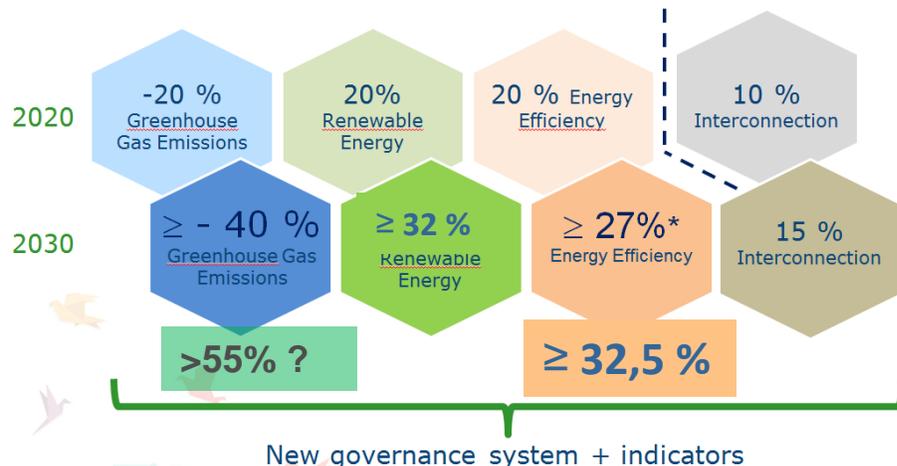
Policy Framework

"European Green Deal"



"Clean Energy for all Europeans"

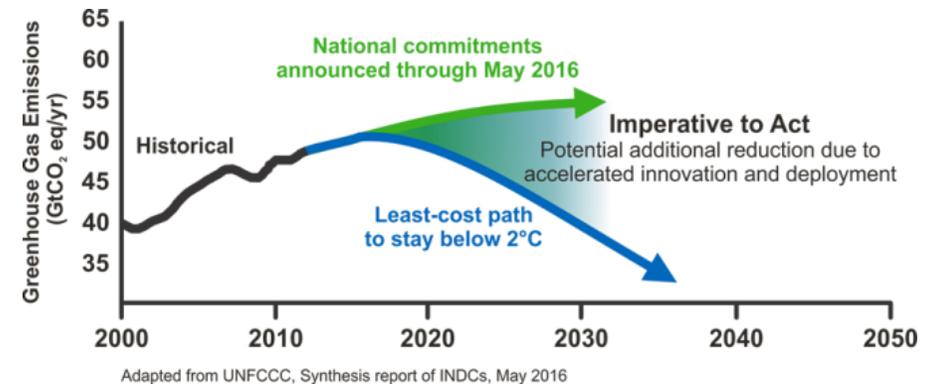
Agreed headline targets



Paris Agreement

Holding global average temperature to **well below 2°C** and limit its increase to **1.5°C**

Accelerating, encouraging and enabling **innovation** is crucial...



Other EU policy priorities

- Digital Single Market
- Jobs, Growth and Investments
- EU as a strong global actor
- Sustainable Development
- ...

A European Green Deal

Striving to be the first climate-neutral continent

The EU will:



Become
climate-neutral
by 2050



Protect human life,
animals and plants,
by cutting pollution



Help companies
become world leaders
in clean products and
technologies



Help ensure a
just and inclusive
transition

COM(2019) 640 final . The European Green Deal
COM(2020) 21 final: Sustainable Europe Investment Plan; European Green Deal Investment Plan
COM(2020) 22 final: Proposal for a REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
establishing the Just Transition Fund

Transforming the Green deal into Action

- *20 May 2020:* **EU Biodiversity Strategy, Farm to fork strategy**
- *08 July 2020:* **EU strategies for energy system integration and hydrogen**
- *17 September 2020:* **2030 Climate Target Plan**
- *14 October 2020:* **Renovation wave, Methane Strategy**
- *19 November 2020:* **Offshore renewable energy**
- *9 December 2020:* **European Climate Pact**
- *10 December 2020:* **European Battery Alliance**
- *18 January 2021:* **European Bauhaus**

The European Green Deal Package

- **Green deal Communication COM(2019) 640 final:**

“Further decarbonising the energy system is critical to reach climate objectives in 2030 and 2050. The production and use of energy across economic sectors account for more than 75% of the EU’s greenhouse gas emissions. Energy efficiency must be prioritised. A power sector must be developed that is based largely on renewable sources, complemented by the rapid phasing out of coal and decarbonising gas. At the same time, the EU’s energy supply needs to be secure and affordable for consumers and businesses. For this to happen, it is essential to ensure that the European energy market is fully integrated, interconnected and digitalised, while respecting technological neutrality..”

- **Smart Energy System Integration Strategy COM(2020) 299:**

“...First, a more ‘circular’ energy system, with energy efficiency at its core, in which the least energy intensive choices are prioritised, unavoidable waste streams are reused for energy purposes, and synergies are exploited across sectors. This is happening already in combined heat and power plants or through the use of certain waste and residues. There is however further potential, for example, in reusing waste heat from industrial processes, data centres, or energy produced from bio-waste or in wastewater treatment plants.

Second, a greater direct electrification of end-use sectors. The rapid growth and cost competitiveness of renewable electricity production can service a growing share of energy demand – for instance using heat pumps for space heating or low-temperature industrial processes, electric vehicles for transport, or electric furnaces in certain industries. ...”

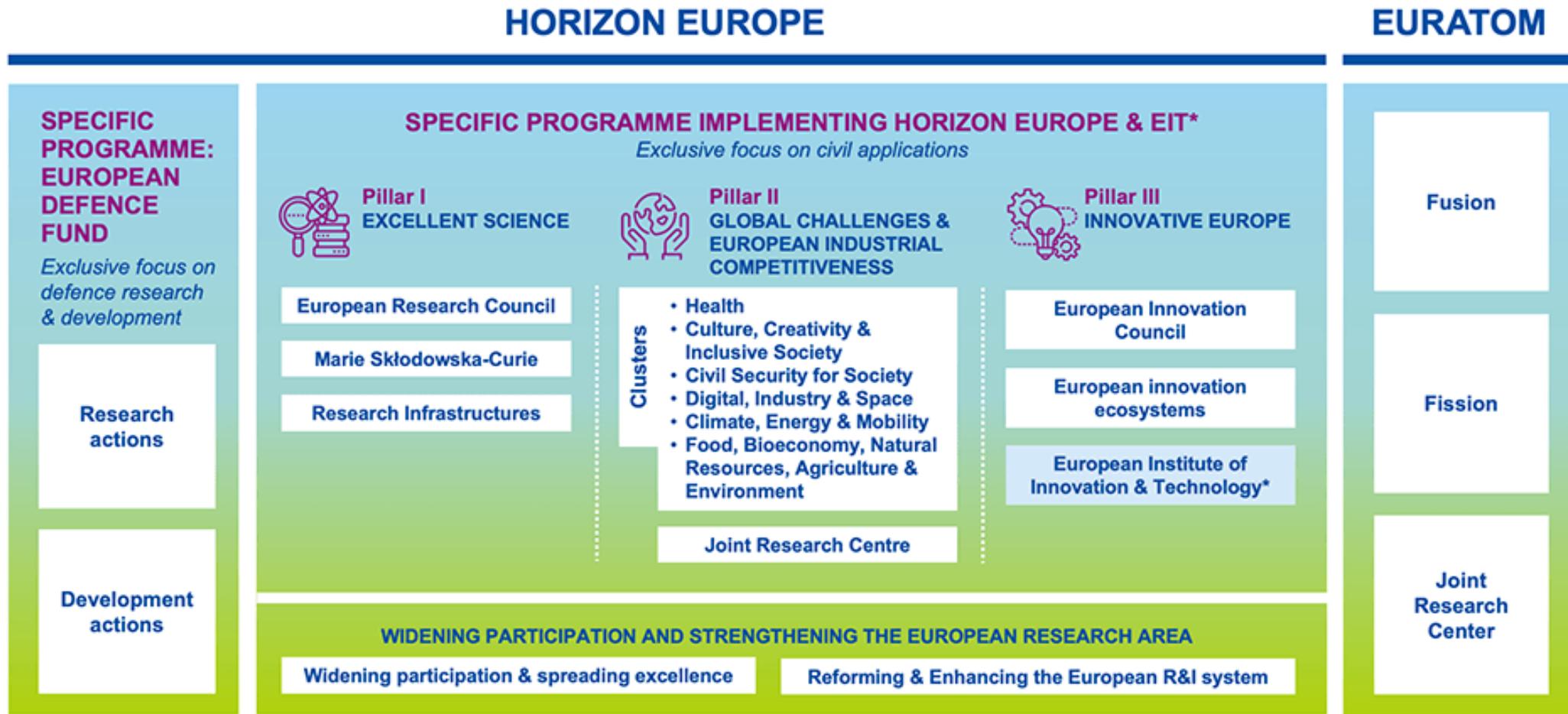


HORIZON EUROPE

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PROGRAMME 2021 – 27

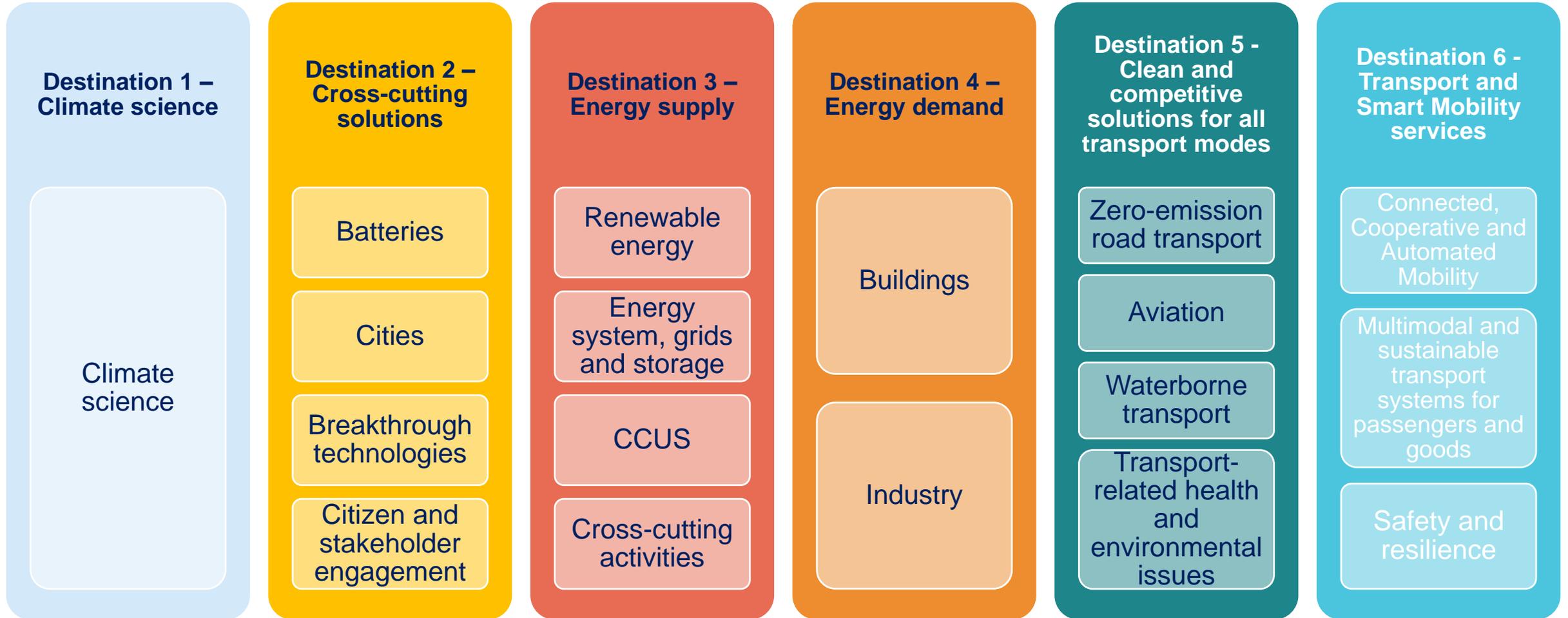


Horizon Europe: investing in R&I to shape our future



* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Cluster 5 Work programme – overview (draft)



Thank you



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