THE EU RESEARCH & INNOVATION PROGRAMME
2021 – 2027
EU Policy priorities

**European Green Deal**
- Climate Action; Clean Energy; Sustainable Mobility; Eliminating pollution; Building and renovating; Biodiversity; Sustainable Industry

**A Europe fit for the digital age**
- Artificial Intelligence; European data strategy; European Industrial Strategy; Cybersecurity

**An economy that works for the people**
- Internal market; Jobs, Growth and investment

**Promoting our European way of life**
- European Security Union; European Health Union

**A stronger Europe in the world**
- International partnerships; Trade policy; EU Foreign policy

**A new push for European Democracy**
- Strategic foresight; Future of Europe

**Recent Commission initiatives:**

**Climate Action**
- EU Climate Law (EU climate neutral by 2050)
- 2030 Climate Target Plan (55% GHG reduction by 2030)
- Make sectoral legislation ‘fit for 55’
- EU Climate Adaptation Strategy
- Zero Pollution Action Plan

**Energy**
- EU Strategy for Energy System Integration
- Hydrogen strategy
- Renovation wave for Europe
- Offshore renewable energy

**Mobility**
- Sustainable and Smart Mobility Strategy

**Research and Innovation**
- A new European Research Area
Programme intervention logic

2021-2027
Legal base

2021-2024
Strategic Plan (Programme-level)

2021-2022
Work programme (Cluster-level)

Pillars / Cluster
Intervention areas

EU policy priorities
Key Strategic Orientations for R&I

Destinations
Calls
Topics

Entry into force: May 2021
Adopted: March 2021
Adoption: June 2021

Expected impacts
Expected outcomes

2021-2027

2021-2024

2021-2022
Strategic Plan – Key Strategic Orientations

In response to the political priorities and recovery plan of the Union, the following four key strategic orientations for EU research and innovation have been defined for the period 2021-2024:

- **Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains** to accelerate and steer the digital and green transitions through human-centred technologies and innovations;

- **Restoring Europe’s ecosystems and biodiversity, and managing sustainably natural resources** to ensure food security and a clean and healthy environment;

- **Making Europe the first digitally enabled circular, climate-neutral and sustainable economy** through the transformation of its mobility, energy, construction and production systems;

- **Creating a more resilient, inclusive and democratic European society**, prepared and responsive to threats and disasters, addressing inequalities and providing high-quality health care, and empowering all citizens to act in the green and digital transitions.
Cluster 5 - overview

Cluster 5 “Climate, Energy and Mobility”
~EUR 15.1 billion (2021-2027)

- Climate Science and Solutions
- Energy Supply
- Energy Systems and Grids
- Buildings and Industrial Facilities in Energy Transition
- Communities and Cities
- Industrial Competitiveness in Transport
- Clean, Safe and Accessible Transport and Mobility
- Smart Mobility
- Energy Storage

Cluster 5 work programme
(including co-funded and co-programmed European Partnerships)

Institutional Partnerships
(Clean Hydrogen; Rail; Clean Aviation; Air Traffic Management)

Missions
(e.g. on Cities; Climate Adaptation; Oceans)
Expected impacts of cluster 5

Transition to a climate-neutral and resilient society and economy enabled through advanced climate science, pathways and responses to climate change (mitigation and adaptation) and behavioural transformations.

Clean and sustainable transition of the energy and transport sectors towards climate neutrality facilitated by innovative crosscutting solutions.

More efficient, clean, sustainable, secure and competitive energy supply through new solutions for smart grids and energy systems based on more performant renewable energy solutions.

Efficient and sustainable use of energy, accessible for all is ensured through a clean energy system and a just transition.

Towards climate-neutral and environmental friendly mobility through clean solutions across all transport modes while increasing global competitiveness of the EU transport sector.

Safe, seamless, smart, inclusive, resilient, climate neutral and sustainable mobility systems for people and goods thanks to user-centric technologies and services including digital technologies and advanced satellite navigation services.
Cluster 5 Work programme - overview

Destination 1 – Climate science
- Climate science
- Batteries
- Cities
- Breakthrough technologies
- Citizen and stakeholder engagement

Destination 2 – Cross-cutting solutions
- Cross-cutting activities

Destination 3 – Energy supply
- Renewable energy
- Energy system, grids and storage
- CCUS
- Cross-cutting activities

Destination 4 – Energy demand
- Buildings
- Industry

Destination 5 - Clean and competitive solutions for all transport modes
- Zero-emission road transport
- Aviation
- Waterborne transport
- Transport-related health and environmental issues

Destination 6 - Transport and Smart Mobility services
- Connected, Cooperative and Automated Mobility
- Multimodal and sustainable transport systems for passengers and goods
- Safety and resilience
Cluster 5 Partnerships

**Institutional Partnerships**
- Transforming Europe's rail system
- Integrated Air Traffic Management
- Clean Aviation
- Clean Hydrogen

**Co-funded Partnerships**
- Driving urban transitions to a sustainable future (DUT)
- Clean Energy Transition

**Co-programmed Partnerships**
- Built4People | People-centric sustainable built environment
- Towards zero-emission road transport (2ZERO)
- Batteries: Towards a competitive European industrial battery value chain for stationary applications and e-mobility
- Zero-emission waterborne transport
- Connected, Cooperative and Automated Mobility (CCAM)
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Thank you!

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