Horizon Europe
Framework programme for research and innovation 2021–2027
Agenda

1. Information about the support system and overall structure
2. Cluster 5 (Focus on Mobility)
3. Partnerships & Missions (Focus on Mobility)
4. Upcoming calls
NCP?

- Answers questions on Horizon Europe
- Helps to find matching calls and topics
- Legal and financial advice
- Spreads information
- Strategic advice

Information from SE system to EC via NCP networks, experts and PC
The Horizon Framework Programme
The Horizon framework programme is a POLITICAL INSTRUMENT where research and innovation are needed to achieve political priorities.
Horizon Europe ~ 95,5 billion €

Pillar 1 ~ 15 %
Excellent Science
- European Research Council
- Marie Skłodowska-Curie Actions
- Research Infrastructures

Pillar 2 ~ 50 %
Global Challenges and European Industrial Competitiveness
- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment
- Joint Research Centre

Pillar 3 ~ 25 %
Innovative Europe
- European Innovation Council
- European innovation ecosystems
- European Institute of Innovation and Technology

Widening Participation and Strengthening the European Research Area
- Widening participation and spreading excellence
- Reforming and Enhancing the European R&I system

Climate action target, i.e. 35% of the programme’s budget, refers to Horizon Europe as a whole. This requires that ALL programme parts (also pillar 1 and 3) address climate-related priorities.
Global Challenges and European Industrial Competitiveness
Global Challenges and European Industrial Competitiveness

Boosting key technologies and solutions, underpinning EU policies and Sustainable Development Goals

Health
Culture, Creativity and Inclusive Society
Civil Security for Society
Digital, Industry and Space
Climate, Energy and Mobility
Food, Bioeconomy, Natural Resources, Agriculture and Environment

Joint Research Centre
5. Climate, Energy and Mobility

Aims

• climate neutrality in Europe by 2050
• deep reduction of greenhouse gas emissions
• zero pollution
• becoming a globally leading actor for sustainable technologies and services
Cluster 5 – Destinations

Accelerating green and digital transformation of economy, industry and society achieving climate neutrality in Europe by 2050

Destination 1
Climate sciences and responses

Destination 2
Cross-sectoral solutions for the climate transition

Destination 3
Sustainable, secure and competitive energy supply

Destination 4
Efficient, sustainable and inclusive energy use

Destination 5
Clean and competitive solutions for all transport modes

Destination 6
Safe Resilient Transport and Smart Mobility services for passengers and goods
Destination 2
Cross-sectoral solutions for the climate transition

- Complex, cross-sectoral challenges
- Sustainable batteries and value chains
- Cities and communities
- Transformation empowering citizens
Destination 5
Clean and competitive solutions for all transport modes

• Transforming road transport to zero-emission mobility
• Reduction of all aviation impacts and emissions
• Low-carbon and clean solutions in the shipping sector
• Reducing emissions and their impacts
Destination 6
Safe Resilient Transport and Smart Mobility services for passengers and goods

• Decrease transport accidents, incidents and fatalities

• Accelerate the implementation of innovative connected, cooperative and automated mobility systems

• Develop multimodal transport systems through sustainable and smart freight transport and logistics
Related European initiatives

“Beyond the inevitable social transitions and lifestyle changes, a key contribution to success is the development of [...] cost-effective climate neutral alternatives for emitting activities”

- European Green Deal
- A Clean Planet for All
- Europe fit for the digital age
  - digitalization of the energy and transport systems
- Sustainable & Smart Mobility Strategy
Possible European partnerships

**Health**
- EU-Africa Global Health
- Innovative Health Initiative
- Chemicals Risk Assessment
- Fostering an ERA for Health research
- Large-scale innovation and transformation of health systems in a digital and ageing society
- Personalised Medicine
- Rare Diseases
- One Health AMR

**Digital, industry and space**
- High Performance Computing
- Key Digital Technologies
- Smart Networks and Services
- AI, data and robotics
- Photonics Europe
- Clean Steel – Low Carbon Steelmaking
- European Metrology
- Made in Europe
- Carbon Neutral and Circular Industry
- Global competitive space systems

**Climate, energy and mobility**
- Transforming Europe's rail system
- Integrated Air Traffic Management
- Clean Aviation
- Clean Hydrogen
- Built4People – People-centric sustainable built environment
- Towards zero-emission road transport – 2Zero
- Connected, Cooperative and Automated Mobility (CCAM)
- Batteries
- Clean Energy Transition
- Driving Urban Transition
- Zero-emission waterborne transport

**Food, bioeconomy, natural resources, agriculture and environment**
- Accelerating farming systems transition
- Animal health: Fighting infectious diseases
- Environmental Observations for a sustainable EU agriculture
- Rescuing biodiversity to safeguard life on Earth
- A climate neutral, sustainable and productive Blue Economy
- Safe and Sustainable Food System for People, Planet & Climate
- Circular bio-based Europe
- Water4All: Water security for the planet

**Pillar III Cross-Pillar**
- EIT Climate KIC
- EIT Health
- EIT Food
- EIT InnoEnergy
- EIT Raw Materials
- EIT Digital
- EIT Urban Mobility
- EIT Cultural and Creative Industries
- Innovative SMEs
- European Open Science Cloud (EOSC)

**Cluster allocation tbc**
- Pandemic Preparedness and Societal Resilience
Possible Partnerships connected to Cluster 5

### Institutionalised
- Transforming Europe's rail system
- Integrated Air Traffic Management
- Clean Aviation
- Clean Hydrogen

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

### Co-programmed
- 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)
Missions

Create more impact for society, policymaking and citizens

Bold, inspirational and measurable goal

A portfolio of actions across disciplines and sectors
Missions are not about R&I – they are about delivering a public good. They are used to agree on a European level what we want to change and deliver it in society.

1. Adaptation to Climate Change, including Societal Transformation
2. Cancer
3. Healthy Oceans, Seas, Coastal and Inland Waters
4. Climate-Neutral and Smart Cities
5. Soil Health and Food
Missions with Cluster 5 focus

**Adaptation to Climate Change, including Societal Transformation**

A Climate Resilient Europe - targets by 2030:

- Prepare Europe to deal with climate disruptions
- Accelerate the transition to a healthy and prosperous future within safe planetary boundaries
- Scale up solutions for resilience that will trigger transformations in society

**Climate-Neutral and Smart Cities**

100 Climate-Neutral Cities by 2030

- Support, promote and showcase 100 European cities in their systemic transformation towards climate neutrality by 2030
- Turn these cities into innovation hubs for all cities
- Lead on the European Green Deal to make Europe the first climate-neutral continent by 2050
Calls and evaluation criteria

Expected to be released in the Funding & Tender Portal soon
Thank you
Contacts for Mobility

Märta Ghajar Amirnezami
Acting National Expert Mobility
Marta.ghajaramirnezami@vinnova.se
+46 8 473 31 71

Annika Strömdahl
Acting NCP for Mobility
annika.stromdahl@vinnova.se
+46 8 473 32 18
Useful links

Information on Horizon Europe
- Funding and Tenders – the EC portal for calls, topics and applications
- The Vinnova website on Horizon Europe – information on the framework programme
- Horisont Europa and Missions – information from EC
- European Green Deal – the European Green Deal Policy
- Kontakt | Vinnova - The Swedish National Contact Points (NCPs)

Tools
- Dashboard – Horizon 2020 database for statistics
- EUSME – Support for SMEs
- EEN Match – Matchmaking
“It’s not about ideas. It’s about making ideas happen.”

Scott Belsky