

Pillar 2 in detail

Cluster 1 – Health

Destinations

1. Staying healthy in a rapidly changing society
 - a. Diet and health (obesity)
 - b. Demographic change
 - c. Mental health
 - d. Digital empowerment in health literacy
 - e. Improving usage of cohorts
2. Living & working in a health promoting environment
 - a. Indoor air quality and health
 - b. Health impacts of climate change
 - c. Role of environmental pollution in non-communicable diseases
3. Tackling diseases & reducing disease burden
 - a. European platform for repurposing medicinal products
 - b. Development of health technologies relevant in sub-Saharan Africa
 - c. Advancing innovative AI based solutions for treatment
 - d. One Health AMR
 - e. Palliation and/or end of life care
 - f. Next generation of immunotherapies
 - g. Next generation vaccines
 - h. Therapies for rare diseases
4. Ensuring access to innovative, sustainable & high quality healthcare
 - a. Enhancing quality of care and patient safety
 - b. Data-driven decision-support tools for better health and care delivery
 - c. Personalised medicine and infectious diseases
5. Unlocking the full potential of new tools, technologies and digital solutions for a healthy society
 - a. Smart medical devices and their surgical implantation
 - b. Next generation advanced therapies to treat prevalent and high burden diseases
 - c. Innovative tools for use and re-use of health data
6. Maintaining an innovative, sustainable & globally competitive health industry
 - a. Enhancing Cybersecurity of connected medical devices
 - b. Multi-party computation, data anonymisation techniques and synthetic data generation
 - c. Development and procurement of new antimicrobials
 - d. European Smart Health Innovation hub

Cluster 2 - Culture, Creativity and Inclusive Society

Destinations

1. Innovative Research on Democracy and Governance
 - a. Protecting and nurturing democracies
 - b. Reshaping democracies
2. Innovative Research on the European Cultural Heritage and the Cultural and Creative Industries
 - a. Research and innovation on cultural heritage and CCI's
3. Innovative Research on Social and Economic Transformations
 - a. Inclusiveness in times of change
 - b. A sustainable future for Europe

Cluster 3 – Civil Security for Society

Destinations

1. Better protect the EU and its citizens against Crime and Terrorism
 - a. Fighting Crime and Terrorism
2. Effective management of EU external borders
 - a. Border Management
3. Protected Infrastructure
4. Increased Cybersecurity
5. Disaster Resilient Society for Europe
6. Strengthened Security, Research and Innovation

Cluster 4 – Digital, Industry and Space

Destinations

1. Climate neutral, circular and digitised production
 - a. Green, flexible and advanced manufacturing
 - b. Advanced digital technologies for manufacturing
 - c. A new way to build, accelerating disruptive change in construction
 - d. Hubs for circularity, a stepping stone towards climate neutrality and circularity in industry
 - e. Enabling circularity of resources in the process industries, including waste, water and CO₂/CO
 - f. Integration of Renewables and Electrification in process industry
2. A digitised, resource efficient and resilient industry
 - a. Novel paradigms to establish resilient and circular value chains
 - b. Raw materials for EU strategic autonomy and successful transition to a climate-neutral and circular economy
 - c. Green and sustainable materials
 - d. Materials for the benefit of society and the environment and materials for decarbonising Industry
 - e. Materials and data cross-cutting actions
 - f. Improving the resilience and preparedness of EU business, esp. SMEs and Startups
3. World leading data and computing technologies
 - a. Data sharing in the common European data space
 - b. Strengthening Europe's data analytics capacity
 - c. High-end computing for exascale performance and beyond
 - d. From Cloud to Edge to IoT for European Data
4. Digital and emerging technologies for competitiveness and fit for the green deal
 - a. Ultra-low power processors
 - b. European Innovation Leadership in Electronics
 - c. European Innovation Leadership in Photonics
 - d. 6G and foundational connectivity technologies
 - e. Innovation in AI, data and robotics
 - f. Tomorrow's deployable Robots: efficient, robust, safe, adaptive and trusted
 - g. European leadership in Emerging Enabling Technologies
 - h. Flagship on Quantum Technologies
 - i. Graphene: Europe in the lead
5. Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data
 - a. Foster competitiveness of space systems
 - b. Reinforce EU capacity to access and use space
 - c. Evolution of Space and ground infrastructures for Galileo/ EGNOS
 - d. Evolution of services of the EU Space Programme components, Galileo, EGNOS and Copernicus
 - e. Development of applications from the EU Space Programme components
 - f. Innovative Space capabilities: SSA, GOVSATCOM, Quantum
 - g. Space entrepreneurship ecosystems (inc. New Space and startups) and skills
 - h. Targeted and strategic actions supporting the EU space sector
6. A human-centred and ethical development of digital and industrial technologies
 - a. Leadership in AI based on trust
 - b. An Internet of Trust
 - c. New digital interactions, 3D, augmented and virtual reality
 - d. Digital learning technologies, including upskilling of the workforce

Cluster 5 – Climate, Energy and Mobility

Destinations

1. Climate sciences and responses
 - a. Earth system science
 - b. Analysis of pathways leading to climate neutrality
 - c. Adaptation and climate services
 - d. Social science to tackle climate change
 - e. Climate-ecosystem interactions
2. Cross-sectoral solutions for the climate transition

- a. A competitive and sustainable European battery value chain
 - b. Communities and cities
 - c. Emerging breakthrough technologies and climate solutions
 - d. Citizen and stakeholder engagement
3. Sustainable, secure and competitive supply 2021-2024
 - a. Global leadership in renewable energy
 - b. Energy systems, grids and storage
 - c. Carbon capture, utilisation and storage (CCUS)
 4. Efficient, sustainable and inclusive energy use
 - a. High energy-efficient and climate neutral EU building stock
 - b. Industrial facilities in the energy transition
 5. Clean and competitive solutions for all transport modes
 - a. Zero-emission road transport
 - b. Aviation
 - c. Enabling low-carbon, clean, smart and competitive waterborne transport
 - d. Impact of transport on environmental and human health
 6. Safe, Resilient Transport and Smart Mobility services for passengers and goods
 - a. Connected, cooperative and automated mobility (CCAM)
 - b. Multimodal and sustainable transport systems for passengers and goods
 - c. Safety and resilience – per mode and across all transport modes

Cluster 6 – Food, Bioeconomy, Natural Resources, Agriculture and Environment

Destinations

1. Biodiversity and Ecosystem Services
 - a. Understanding biodiversity decline
 - b. Valuing and restoring biodiversity and ecosystem services
 - c. Managing biodiversity in primary production
 - d. Enabling transformative change on biodiversity
 - e. Interconnecting biodiversity research and supporting policies
2. Fair, healthy and environmentally-friendly food systems from primary production to consumption
 - a. Enabling sustainable farming
 - b. Enabling sustainable fisheries and aquaculture
 - c. Transforming food systems for health, sustainability and inclusion
 - d. International cooperation: EU-Africa FNSSA and China FAB
3. Circular economy and bioeconomy sectors
 - a. Enabling a circular economy transition
 - b. Innovating sustainable bio-based systems and the bioeconomy
 - c. Safeguarding the multiple functions of EU forests
 - d. Innovating for blue bioeconomy and biotechnology value chains
4. Clean environment and zero pollution
 - a. Halting emissions of pollutants to soils and waters
 - b. Protecting drinking water and managing urban water pollution
 - c. Addressing pollution on seas and oceans
 - d. Increasing environmental performances and sustainability of processes and products
5. Land, oceans and water for climate action
6. Resilient, inclusive, healthy and green rural, coastal and urban communities
7. Innovative governance, environmental observations and digital solutions in support of the Green Deal
 - a. Innovating with governance models and supporting policies
 - b. Deploying and adding value to Environmental Observations
 - c. Digital and data technologies as key enablers
 - d. Strengthening agriculture knowledge and innovation system