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HORYZONT 2020

HORIZON 2020,

Challenge 5: Climate action, environment, resource efficiency and raw materials

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W niniejszej prezentacji wykorzystano materiały udostępnione m.in. przez KE i/lub Ministerstwa oraz Agendy RP



Societal Challenges: funding (€ million, 2014-2020)

1. Health, demographic change and wellbeing	7 472
2. Food security, sustainable agriculture, marine and maritime and inland water research & the Bioeconomy	3 851
3. Secure, clean and efficient energy *	5 931
4. Smart, green and integrated transport	6 339
5. Climate action, environment, resource efficiency and raw materials	3 081
6. Europe in a changing world - inclusive, innovative and reflective societies	1 309
7. Secure societies - protecting freedom and security of Europe and its citizens	1 695

Societal Challenge 5: Climate action, environment, resource efficiency and raw materials



Objective: *"to achieve a resource efficient and climate change resilient economy and society, the protection and sustainable management of natural resources and ecosystems, and a sustainable supply and use of raw materials*

in order to meet the needs of a growing global population within the sustainable limits of the planet's natural resources and eco-systems."

Societal Challenge 5 – new approach



- ✓ Increased emphasis on delivering innovative solutions
- ✓ Transformative agenda
- ✓ Systemic approach to innovation
- ✓ Unlocking private and public investment in future solutions
- ✓ Large-scale demonstration projects with replication potential

Societal Challenge 5: key objectives

Climate action

- Climate services
- Low-carbon Europe
- Arctic dimension

Circular economy

Water for our environment, economy and society

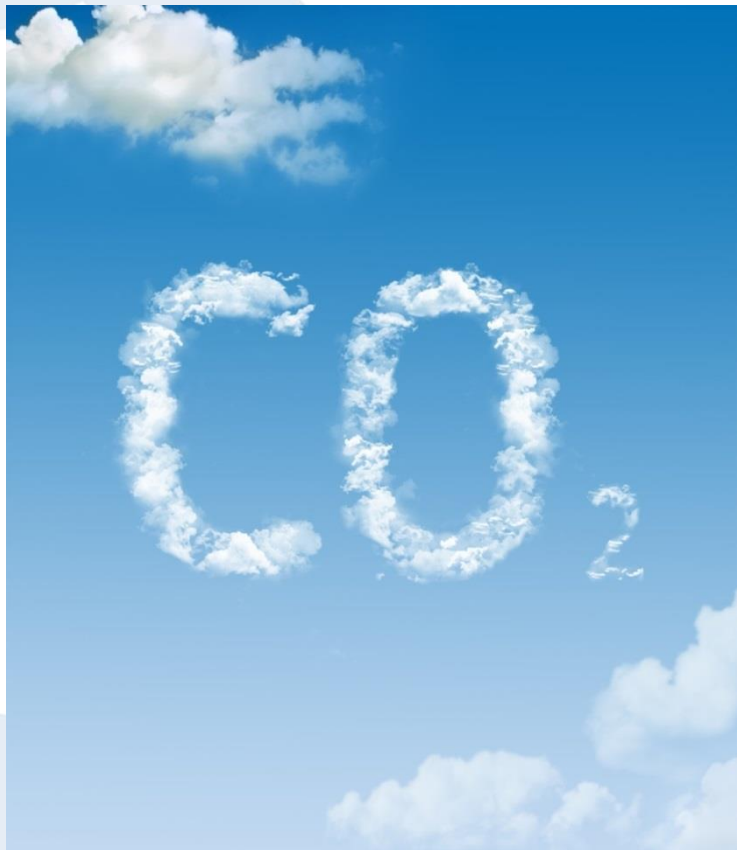
Raw materials

Innovating cities for sustainability and resilience

Protecting and valorising our natural and cultural assets

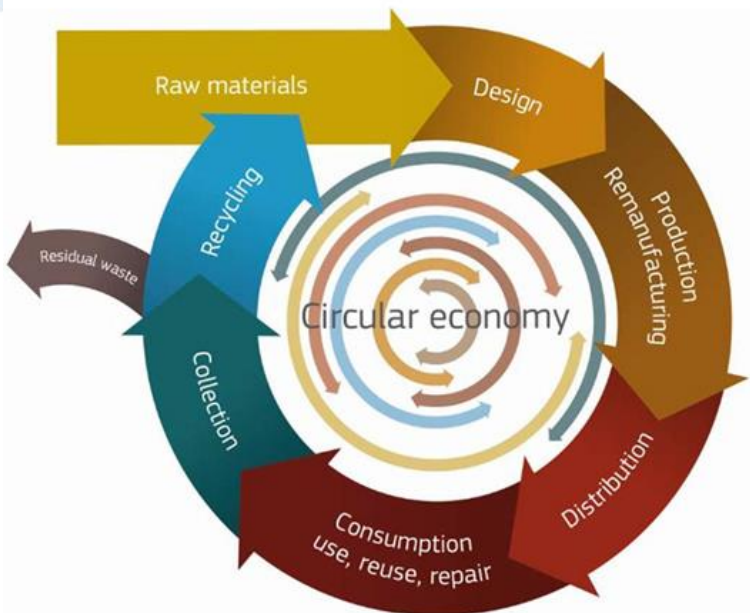
- Earth observation
- Nature-based solutions,
- Disaster risk reduction,
- Natural capital accounting,
- Cultural heritage

Climate action in support of the Paris Agreement



- policy-oriented research into decarbonisation trajectories that are consistent with the PA goals,
- in-depth assessments of impacts, vulnerabilities and risks for enhancing resilience of human systems and ecosystems,
- nature-based solutions, green and blue infrastructure,
- ecosystem-based approaches to decarbonisation and climate change adaptation,
- assessments on the impacts of climate change on vulnerable areas/hot-spots such as oceans and polar regions.

Circular economy



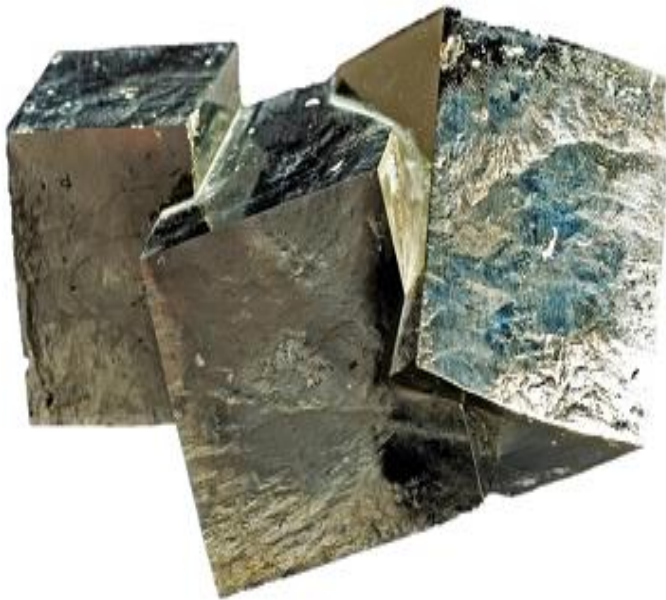
- full range of product lifecycle stages,
 - reduce the quantities of raw materials in production and consumption,
 - use of secondary raw materials,
 - identify potential risks, side-effects and regulatory challenges of circular economy,
 - plastics, critical raw materials, construction and demolition,
 - water use and reuse
-
- new business opportunities for enterprises, including SMEs!

Water for our environment, economy and society



- water related/- dependent industries and economic sectors,
- longterm resilience, stability, sustainability and security of the environment, public health and human well-being.
- innovative water technologies, services and monitoring tools,
- digital solutions, living labs and large scale demonstration projects
- nexus between water, energy and food,
- interactions between ecosystems and human activity,
- risk and impact assessments,
- inclusive, multi-stakeholder business and governance models

Raw materials



- **entire raw materials value chain,**
- **from sustainable exploration, extraction,**
- **processing to recycling,**
- **support of the targets of the EIP on Raw materials (large innovative actions, knowledge base, supporting policy),**
- **breakthrough research concepts,**
- **'Open Innovation'**
- **'Open to the World'** (Australia, Brazil, Canada, Chile, Colombia, Japan, Mexico, USA and South Africa)

Innovating cities for sustainability and resilience



- new Urban Agendas globally and for the EU,
- a systemic and cross-sectorial 'urban ecosystem' approach,
- design and implement solutions to the multifaceted challenges,
- actions to enhance the innovation capacity of cities to act as hubs of innovation,
- designing and implementing transition pathways towards resilient, sustainable, low-carbon, resource efficient and inclusive cities with a reduced environmental footprint.

Protecting and valorising our natural and cultural assets

Earth observation



Nature-based solutions



Natural capital accounting



Cultural heritage



Nature-based solutions



- demonstration projects on nature-based solutions,
- biodiversity, ecosystems, resilience of territories to disasters and hazards,
- inspired or supported by nature,
- economic, social and environmental benefits.

Natural capital accounting

- **developing and implementing natural capital and ecosystem accounts in EU Member States,**
- **at business and governance levels,**
- **decision making tools,**
- **to complement GDP.**



Heritage alive



- **more dynamic approach to cultural heritage, beyond mere conservation**
- **cultural heritage as a production rather than a cost factor and a strategic resource**
- **historic cities and cultural landscapes as hubs of entrepreneurship and social and cultural integration.**

Earth observation



- developing the EO services of the future (GEOSS , Copernicus),
- innovative mass market applications for businesses and citizens,
- stimulating new EO-based digital markets,
- contributing to GEO activities - science diplomacy for sustainable development.

Partner search tool



- **Horizon 2020: partner search tool for Societal Challenge 5,**
- **supports potential applicants for the Horizon 2020 SC5 in finding partners and building a consortium for a project proposal,**
- **<http://partnersearch.ncps-care.eu/> - short step-by-step information on how to register and how to post a partner offer or partner search,**
- **lots of useful information on the project website: <http://www.ncps-care.eu/>**

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