EuroGEO and Health

Marjan van Meerloo
European Commission
EuroGEO implementation modes

Fixed term projects from funding programmes such as:
- Horizon 2020
- Copernicus
- Other EU programmes
- ESA
- National programmes

Open innovation partnerships (action groups!)
- To collaborate, benchmark, combine existing developments
- To leverage along the value chain
- GEO collaborative spirit

Action group on Health!
Horizon Europe structure
(budget € 95.5 billion for 2021 – 2027)

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

Pillar 2
Global Challenges and European Industrial Competitiveness
- Clusters
  - 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
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
# Clusters in ‘Global Challenges and Industrial Competitiveness’

<table>
<thead>
<tr>
<th>Clusters</th>
<th>Areas of intervention</th>
</tr>
</thead>
</table>
| Health                                               | • Health throughout the life course  
• Non-communicable and rare diseases  
• Tools, technologies and digital solutions for health and care, including personalised medicine  
• Environmental and social health determinants  
• Infectious diseases, including poverty-related and neglected disease  
• Health care systems |
| Culture, creativity and inclusive society            | • Democracy and Governance  
• Social and economic transformations  
• Culture, cultural heritage and creativity |
| Civil security for society                           | • Disaster-resilient societies  
• Protection and Security  
• Cybersecurity |
| Digital, Industry and space                          | • Manufacturing technologies  
• Advanced materials  
• Next generation internet  
• Circular industries  
• Space, including Earth Observation  
• Emerging enabling technologies  
• Key digital technologies, including quantum technologies  
• Artificial Intelligence and robotics  
• Advanced computing and Big Data  
• Low-carbon and clean industry  
• Emerging enabling technologies |
| Climate, Energy and Mobility                         | • Climate science and solutions  
• Energy systems and grids  
• Communities and cities  
• Industrial competitiveness in transport  
• Smart mobility  
• Energy supply  
• Buildings and industrial facilities in energy transition  
• Clean, safe and accessible transport and mobility  
• Energy storage |
| Food, bioeconomy, natural resources, agriculture and environment | • Environmental observation  
• Agriculture, forestry and rural areas  
• Circular systems  
• Food systems  
• Biodiversity and natural resources  
• Seas, oceans and inland waters  
• Bio-based innovation systems in the EU Bioeconomy |
HORIZON-CL6-2022-GOVERNANCE-01-09

Environmental observations solutions contributing to meeting “One Health” challenges

Research and Innovation Actions

Open: 28 October 2021 – Deadline: 15 February 2022
POLICY CONTEXT

• Need for deployment of and adding value to environmental observations

• Focus on how the use of environmental observation can contribute to the ‘One Health’ domain

EXPECTED OUTCOMES (at least 3)

✓ Better insights in how to foster the use of environmental observation in the large domain of One Health and the areas that could benefit the most from environmental and Earth observation

✓ An increase of the capacity to trace environmental parameter changes on how they impact on the emergence of diseases

✓ Monitoring of the evolution of ecosystem barriers and reinforcement of their sustainability

✓ Contributing to understanding the emergence and tackling the spread of new infectious diseases affecting human, animal or plant health and building up of more resilient ecosystems;

✓ Better insights into the concept of alert and early warning systems, including, where possible, in working with the outcomes of the EIC Horizon Prize on Early Warning for Epidemics

Related impacts:

• Green Deal related domains benefit from further deployment and exploitation of Environmental Observation data and products

• A strengthened Global Earth Observation System of Systems (GEOSS)
HORIZON-CL6-2022-GOVERNANCE-01-09

SCOPE

• Explore areas of the One Health policy that would benefit from the use of environmental observation and how environmental observations can be used for further shaping policies

• Build on the holistic integrative concept of ‘One Health’ that includes not only the health of humans, but also of animals, soil and plants including ecosystems and environmental health

• A specific focus of the proposal should be on the monitoring of the evolution of ecosystem barriers in densely populated, industrialised or agricultural areas (...) and their correlation with the emergence or spread of diseases.

• The concept of alert or early warning systems based on observation, including a consideration of disease hazards, human (or animal) exposure and vulnerability

• A particular area of interest in this context is the follow up to the EIC Horizon Prize on Early Warning for Epidemics

• Links to Copernicus, the Global Earth Observation System of Systems (GEOSS), and EGNSS are relevant and expected

INDICATIVE BUDGET

5 mln EUR per project
(10 mln EUR in total)
EIC Horizon Prize on Early Warning for Epidemics

(Horizon 2020)
Thank you!

#HorizonEU

http://ec.europa.eu/horizon-europe

For questions please contact: marjan.van-meerloo@ec.europa.eu