CSC- IT Center for Science Ltd.

EU Call for Feedback on Missions 3.4.2018

Proposals for missions

Proposal 1: Democratisation of AI and ethical use of data* - Creating a democratic and ethically sustainable AI and data ecosystem for Europe

Challenge: We are living in a world where undemocratic and unethical actors are gaining more and more ground in the use of data and the development of Artificial Intelligence. This might seriously undermine the benefits of technological development turning them into threats that endanger democracy. We are already facing threats in this area, and the mission is to create sustainable, solid European solutions for data and AI, otherwise there will be negative implications also for European competitiveness, growth and wellbeing.

The revolutionarily changing data landscape requires Europe to take action, to stand up for our values and democracy. By focusing on the ethical use of data, Europe would be able to profile itself as a bold defender or democracy, empowering its citizens and providing access to data in an ethical way, defining a framework for who can do what with which data - ranging from personal to commercial data - and creating tools and technical solutions for implementing this. Putting sufficient effort in the AI development in general is also crucial for Europe.

Proposal 2: Sustainable Arctic

Challenge: Understanding and mitigating climate change is one of the crucial challenges the world is facing in 20th century. Climate is warming faster than average in the Arctic region, which will have a huge impact s on the environment and society on a global scale.

This mission aims to gain a holistic understanding of the mechanisms related to climate change, including melting of ice, sea-level rise, melting of permafrost, changes in vegetation, as well as health and societal changes, implications on connectivity and security, influenced by changed environment and increased economic activity especially in the Arctic region. The mission includes collecting comprehensive, cross-disciplinary data on a global scale on all domains (oceans, atmosphere, biosphere, geology, etc.) from in-situ measurements and from space observations. The mission includes also health, economic, demographic and social sciences data to reach an overall understanding of the phenomena. As a result the holistic understanding of the changes is highly improved and efficient and safe mitigation can be planned. The future of Arctic region is influenced by the global climate change and human decisions. In addition, the changes in this area have global influence through interaction with sea level rise, changes in

food security, economy, and politics. The mission is to maintain a sustainable Arctic region that supports global prosperity and human wellbeing.