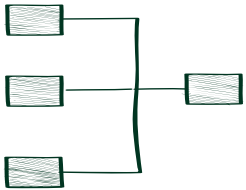


Food, Bioeconomy, Natural Resources, Agricultural and Environment

We are looking to collaborate in projects around the following topics:



1. Insight and traceability; many supply chains lack transparency from the eye of the consumer or downstream entities - by creating common data structures and using methods such as blockchain to enhance traceability, it becomes easier to inform users about the source of their products, and accurately measure factors such as carbon footprint and nutrition to enable better decision making by consumers and companies.



2. Integration of heterogeneous data sources; environmental and supply chain data is frequently stored at the local or regional level, which creates problems when it comes to interoperability beyond the regional scale - we are interested in connecting heterogeneous data sources easily, encouraging data to be shared across borders while maintaining privacy and ownership by the different stakeholders.



3. Open data sources; there is a wealth of open data such as satellite data which can enhance decision making if applied properly. Furthermore, there is a great untapped potential in the collection and use of data by citizens, through sensors installed around the home or wearables worn on the body. We want to develop distributed technologies that reward high-quality and high-frequency data based on user feedback.



4. Robots and drones; robots and drones play an increasingly important role in data collection and observation, especially in areas that are difficult, dangerous, or costly for humans to traverse. Using the power of collaborative robots or drones applied in large numbers allows for much higher frequency of data collection at the source of the problem, such as underwater or in remote areas where climate change is felt more drastically.

Collaboration

The table on the next page shows the concrete calls that we have identified within the Horizon Europe Framework Programma - Cluster Food, Bioeconomy, Natural Resources, Agri, which match with our ideas. Beyond these, we are nonetheless open to other collaborations as well.



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CALL	TITLE	TOPICS
HORIZON-CL6-2022-BIODIV-01-06	Monitoring and effective measures for agrobiodiversity	2
HORIZON-CL6-2022-FARM2FORK-01-10	Integrated surveillance system to prevent and reduce diet-related non communicable diseases (NCDs)	1, 3
HORIZON-CL6-2022-FARM2FORK-01-11	Effective systems for authenticity and traceability in the food system	1, 2
HORIZON-CL6-2022-FARM2FORK-01-14	African food cities	etc*
HORIZON-CL6-2022-FARM2FORK-02-01-two-stage	Agroecological approaches for sustainable weed management	etc*
HORIZON-CL6-2022-CIRCBIO-02-05-two-stage	Life sciences and their convergence with digital technologies for prospecting, understanding and sustainably using biological resources	etc*
HORIZON-CL6-2022-ZEROPOLLUTION-01-04	Securing drinking water quality by protecting water sources against pollution, providing innovative monitoring and treatment solutions and ensuring safe distribution	4
HORIZON-CL6-2022-GOVERNANCE-01-07	New technologies for acquiring in-situ observation datasets to address climate change effects	4
HORIZON-CL6-2022-GOVERNANCE-01-10	Piloting approaches and tools to empower citizens to exercise their "data rights" in the area of food and nutrition	2, 3
HORIZON-CL6-2022-GOVERNANCE-01-11	Upscaling (real-time) sensor data for EU-wide monitoring of production and agri-environmental conditions	1, 2, 3

* topics marked as 'etc' do not correspond directly to our current research topics, but do align with work we have done in the past