



Horizon Europe Brokerage Event
Cluster 6 Calls 2024

Brussels, 26 September 2023

CL6 BEIA Expertise

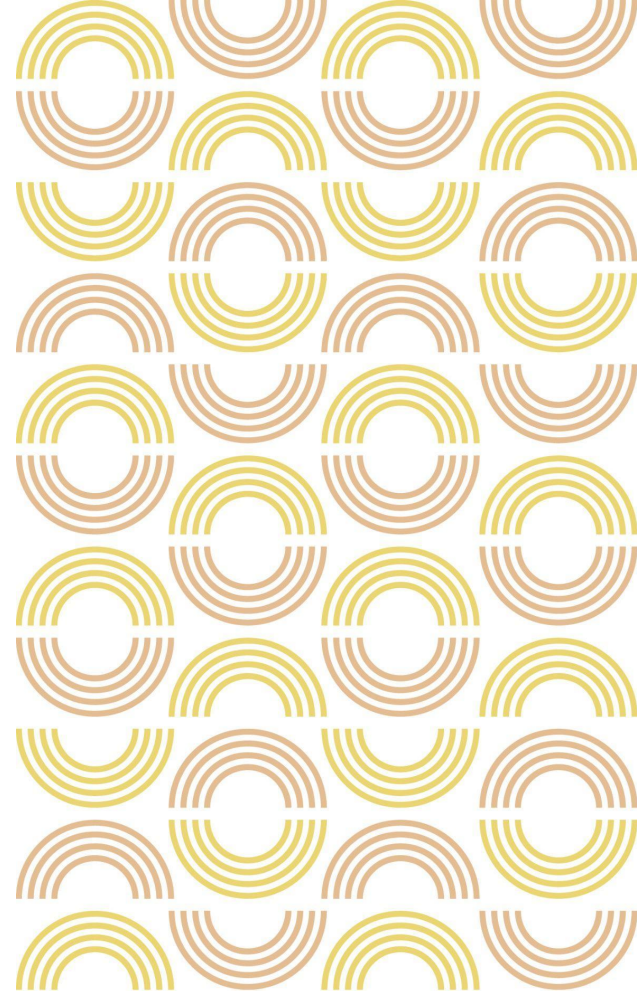
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Topic(s) addressed: HORIZON-CL6-2024-COMMUNITIES-01-1 - Unlock the potential of the New European Bauhaus in urban food system transformation

Other topics of interest:

CALL - BIODIVERSITY AND ECOSYSTEM SERVICES (HORIZON-CL6-2024-BIODIV-01)

- HORIZON-CL6-2024-BIODIV-01-7: Reintroduction of landscape features in intensive agricultural areas
- HORIZON-CL6-2024-BIODIV-02-1-two-stage: Demonstrating Nature-based Solutions for the sustainable management of water resources in a changing climate, with special attention to reducing the impacts of extreme droughts
- HORIZON-CL6-2024-BIODIV-02-2-two-stage: Demonstrating the potential of Naturebased Solutions and the New European Bauhaus to contribute to sustainable, inclusive and resilient living spaces and communities
- HORIZON-CL6-2024-BIODIV-02-3-two-stage: Promoting minor crops in farming systems

CALL - FAIR, HEALTHY AND ENVIRONMENT-FRIENDLY FOOD SYSTEMS FROM PRIMARY PRODUCTION TO CONSUMPTION (HORIZON-CL6-2024-FARM2FORK-01)

- HORIZON-CL6-2024-FARM2FORK-01-4: Climate change and food safety: effects of climate change on food safety across food systems
- HORIZON-CL6-2024-FARM2FORK-01-7: Impact of the development of novel foods based on alternative sources of proteins
- HORIZON-CL6-2024-FARM2FORK-02-7-two-stage: Minimising climate impact on aquaculture: mitigation and adaptation solutions for future climate regimes

CALL - CLEAN ENVIRONMENT AND ZERO POLLUTION (HORIZON-CL6-2024-ZEROPOLLUTION-01)

- HORIZON-CL6-2024-ZEROPOLLUTION-01-3: Environmental impacts of food systems
- HORIZON-CL6-2024-ZEROPOLLUTION-02-1-two-stage: Holistic approaches for effective monitoring of water quality in urban areas
- HORIZON-CL6-2024-ZEROPOLLUTION-02-2-two-stage: Innovative technologies for zero pollution, zero-waste biorefineries

Other topics of interest:

CALL - LAND, OCEAN AND WATER FOR CLIMATE ACTION (HORIZON-CL6-2024-CLIMATE-01)

- HORIZON-CL6-2024-CLIMATE-01-1: Improving irrigation practices and technologies in agriculture

CALL - INNOVATIVE GOVERNANCE, ENVIRONMENTAL OBSERVATIONS AND DIGITAL SOLUTIONS IN SUPPORT OF THE GREEN DEAL

- HORIZON-CL6-2024-GOVERNANCE-01-13: Developing EU advisory networks on sustainable livestock systems
- HORIZON-CL6-2024-GOVERNANCE-01-2: Regional ecosystems of innovation to foster food system transformation
- HORIZON-CL6-2024-GOVERNANCE-01-6: Develop innovative applications to support the European Green Deal, building on meteorological satellite data
- HORIZON-CL6-2024-GOVERNANCE-01-7: Enhancing working conditions and strengthening the work force through digital and data technologies – the potential of robotics and augmented reality in agriculture

CALL - CIRCULAR ECONOMY AND BIOECONOMY SECTORS

- HORIZON-CL6-2024-CircBio-02-4-two-stage: New circular solutions and decentralised approaches for water and wastewater management
- HORIZON-CL6-2024-CircBio-02-5-two-stage: Circular design of bio-based processes and products

CALL - RESILIENT, INCLUSIVE, HEALTHY AND GREEN RURAL, COASTAL AND URBAN COMMUNITIES

- HORIZON-CL6-2024-COMMUNITIES-02-1-two-stage: Innovating for climate-neutral rural communities by 2050



Project idea

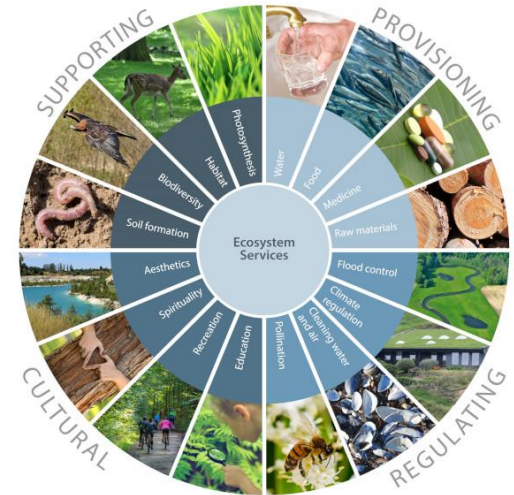
- The Green Urban Evolution project proposes the creation of an innovative urban garden, where Internet of Things (IoT) technology plays a key role in the effective monitoring and management of the environment.
- This smart garden concept combines elements of nature with technological advances to create an urban space where plants and technology collaborate in harmony.
- Core consortium from U-GARDEN.
- Expertise sought in New European Bauhaus



Main expertise offered:

- BEIA is a R&D performing SME with focus on time critical Artificial Internet of Things (AIoT)
- Team with experience in
 - service innovation (AI, blockchain, Cloud, Big Data, quantum security)
 - hardware and software integration (sensors, actuators, IoT, drones)
 - information technologies (data analytics, back end, interfaces, front end)
 - communication technologies (speech processing, ASR/TTS, NLP/NLU, sentiment analysis, emotional computing)
 - environment telemetry (monitoring of water, soil and air quality)
 - smart agriculture (frost warnings, disease alert for plants, evapotranspiration calculations, measurement of accumulated degree days, aqua/hydroponics, urban farming),
 - accurate water data (water sensors for hydrographical purposes, from precipitation to water level monitoring of lakes, rivers, wells),
 - efficient water management (leak and burst detection, pressure, flow, level and well monitoring),
 - fert-irrigation management (including sensors for measuring soil moisture, monitor water uptake)

Over 8000 commercial projects and over 100 R&D and Innovation projects regarding different development areas such as Smart Agriculture, Smart Water Management, Climate Change, Smart City, Cyber Security and Digital Interactions



Involvement in previous/ongoing projects in the area:

- iPREMAS - Intelligent PREdictive Maintenance for Aquaculture Systems (ERA-NetMarTERA)
- IPSUS - Climate smart food innovation using plant and seaweed proteins from upcycled sources (ERA-Net SUSFOOD2)
- U-GARDEN - Promoting capacity building and knowledge for the extension of urban gardens in European cities (ERA-Net ENUTC)
- SWAM - Smart Water Management system for better environmental sustainability (Eureka E*)
- DISAVIT - Development of an Intelligent decision support System for smart VITiculture (Eureka E*)
- NGI-UAV-AGRO - Next Generation Internet based on 5G and UAV for precision agriculture (PED)
- WINS@HI - Wearable IoT Network Solution for WoSafety in Hazardous Industrial Environments (Celtic)
- FARMSUSTAINABL - Enabling Smart Livestock Farming Technologies for Environmental Sustainability using Blockchain (ERA-Net ICT-AGRI)
- TelMonAer - Mobile system for telemonitoring air quality (POC-G NETIO)
- SmartAgro - Telemetry system for intelligent agriculture (POC-G NETIO)
- SA-TERRA - Energy Efficient System for Automation and Telemetry for Resource Management in Precision Farming (Bridge)
- WATER-M - Unified Intelligent WATER Management (ITEA)
- SARWS - Real-timelocationawareweather services composed from multi-modal data (Celtic labelled running)
- PIMEO AI - Pollution Identification, Mapping, and Ecosystem Observation with AI-powered water quality USV (ERA-NetMarTERA)
- CarbaDetect - Imuno-biosensors for fast detection of carbamic pesticide residues (carbaryl, carbendazim) in horticultural products

Contact details

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