

# Brokerage Event

Food Security | Sustainable Agriculture and Forestry |  
Marine, Maritime and Inland Water Research |  
Bioeconomy | KET-Biotechnology |

**Brussels, 15th November 2017**



BioHorizon



Sustainable Food Security

## PARTNERSHIP IN HORIZON 2020

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[www.ncp-biohorizon.net](http://www.ncp-biohorizon.net)

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**Our focus:** Complex analysis and modelling of processes of natural and natural-economic regional systems development; interaction between nature and society in regional systems

**Institute expertise:** Regional knowledge and research experience on agro-ecosystems, biodiversity and ecosystem services

- Sustainable use of soil and water resources in changing socio-economic and climatic conditions
- Environmental risks of agriculture (including climate change)
- GIS analysis, statistical analysis and mathematical modelling
- Efficient network of research contacts at the international, national and local levels

**Project idea:** Build bridges between agriculture and environment in a changing climate for sustainable development

## **“Eastern Corridor for Sustainable Food Security”**

- Monitor climate change, extreme weather events, surface water and soil conditions
- Vulnerability analysis for environmental and climate change risks
- Model the adaptation possibilities in agricultural production to climate change through the promotion of “organic” farming
- Sustainable use of soil and water resources in changing socio-economic and climate conditions

## We are looking for a partner with expertise in:

- Regional monitoring of surface water and soil conditions
- Modelling of the possibilities for adaptation in agricultural production to climate change through breeding of new varieties, reduction of soil degradation, improved irrigation, protection against pests, weeds and diseases, biotechnologies, etc.
- Sustainable use of soil and water resources in changing socio-economic and climatic conditions
- Creation of an online information system/network to raise awareness on use efficacy and environmental safety technologies in climate change management systems

**SFS-38-2018**: Highly efficient management of soil quality and land resources

**Keywords:** China, soil, information harmonisation, intensification, modelling, climate change

**LC-SFS-19A-2018**: Climate-smart and resilient farming /  
Microclimate management: from field to landscape

**Keywords:** resilient farming systems, risk management, extreme weather, landscape design, decision support, multi-actor approach

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