

# Brokerage Event

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

**Brussels, 15th November 2017**



BioHorizon



VERTECH  
GROUP

## Sustainable Food Security

*INNOVATING THE PRESENT, IMAGINING THE FUTURE*

# VERTECH GROUP

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- Vertech is a **French environmental engineering firm** with a focus on high-tech environmental engineering and innovation business development.
- Three main business operations:
  1. High-tech environmental engineering
  2. International R&D management
  3. Market Research and business development
- Vertech is a full member of:  **Bio-based Industries Consortium** 
- More than 10 years of experience
- Currently participating in 14 Horizon 2020 projects

## ENERGY



### Fuel from waste

Liquid and gas fuel production from olive industry waste



**Glycerol biorefinery** for the production of high value industrial products



**Small wind turbine** for urban environments

## WASTE



Sustainable production of functional and **safe feed from food waste**



**Solutions for EEE recycling**  
Pre-processing of high-grade plastics, recovery and recycling of critical raw materials



Industrial feather **waste valorisation** for sustainable keratin based materials

## CONSTRUCTION



Urban and agricultural **residues into high performance biomaterials for green construction.**



**Retrofitting solutions** for energy efficiency in public edification

## WATER



Cost-effective **solutions for water treatment and monitoring** in small communities in India.



**Synergies in combined natural and engineered water treatment systems**

## INDUSTRY



**Joining of copper to aluminium** by ElectroMagnetic fields

What we usually do in projects:

## **ENVIRONMENTAL, SOCIAL AND ECONOMIC FEASIBILITY STUDIES**

- ✓ Life cost cycle (LCC) → CAPEX and OPEX
- ✓ Life cycle assessment (LCA) → environmental impacts
- ✓ Social life cycle assessment (S-LCA) → socio-economic impacts
- ✓ Legal and regulatory studies
- ✓ Risk assessment

## **EXPLOITATION OF RESULTS**

- ✓ Exploitation of results: market analysis and business plans
- ✓ Dissemination of results

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