



**RIBATEJO - PORTUGAL**



KBBE 2013

## Proposed approach

- think of the key ideas per topic
- identify relevant corresponding SME
- contact main lab. involved
- identify on-going consortium
- propose a portfolio of Sme/skills

## **KBBE – Orientation paper WP2013 - Theme 2 Food, Agriculture and Fisheries, and Biotechnology**

### **Activity 2.1 Sustainable production and management of biological resources from land, forest and aquatic environments**

Area 2.1.1 Enabling research

Area 2.1.2 Increased sustainability of all production systems (agriculture, forestry, fisheries and aquaculture); plant health and crop protection

Area 2.1.3 Optimised animal health, production and welfare across agriculture, fisheries and aquaculture

Area 2.1.4 Socio-economic research and support to policies

Area 2.1.5 "The Ocean of Tomorrow" call - Joining research forces to meet challenges in ocean management

### **Activity 2.2 Fork to farm: Food (including seafood), health and well being**

Area 2.2.1 Consumers

Area 2.2.2 Nutrition

Area 2.2.3 Food processing

Area 2.2.4 Food quality and safety

Area 2.2.5 Environmental impacts and total food chain

Area 2.2.6 European Research Area

### **Activity 2.3 Life sciences, biotechnology and biochemistry for sustainable non-food products and processes**

Area 2.3.1 Novel sources of biomass and bioproducts

Area 2.3.2 Marine and fresh-water biotechnology (blue biotechnology)

Area 2.3.3 Industrial biotechnology: novel high added-value bio-products and bio-processes

Area 2.3.4 Biorefinery

Area 2.3.5 Environmental biotechnology ..

Area 2.3.6 Emerging trends in biotechnology

KBBE.2013.1.2-03: Integrated approach towards small grain cereal production and diversification in Europe (15 %)

KBBE.2013.1.2-04: Control of pests and pathogens affecting fruit crops (15 %)

KBBE.2013.1.2-05: Biological control agents in agriculture and forestry for effective pest and pathogen control (35 %)

KBBE.2013.1.4-04: Improving the capacity of agro-meteorological crop modelling to integrate climatic variability and extreme weather events (- %)

KBBE.2013.1.4-03: Boosting the translation of FP projects' results into innovative applications in the field of agriculture, forestry, fisheries and aquaculture (50%)

KBBE.2013.2.1-01: Impact of food and nutritional behaviour, lifestyle and the socioeconomic environment on depression and proposed remedial actions (- %)

KBBE.2013.2.3-01: Development and industrial application of sensors for food processing operations (20%)

KBBE.2013.2.4-01: Assuring quality and authenticity in the food chain (- %)

KBBE.2013.2.5-02: Saving water and energy for resource-efficient food processing (20%)

KBBE.2013.3.1-01: Plant High Value Products - from discovery to final product (25%)

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## **KBBE.2013.1.2-04: Control of pests and pathogens affecting fruit crops (15 %)**

- **Fruit crops**
- **Drosophila suzukii**
- **and other quarantine pests and pathogens**
- **Practical solutions to control**

## **KBBE.2013.1.2-05: Biological control agents in agriculture and forestry for effective pest and pathogen control (35 %)**

- **New sustainable alternative to control pests**
- **New biological ways of control**



## **KBBE.2013.2.3-01: Development and industrial application of sensors for food processing operations (20%)**

- **Affordable sensors**
- **Quantitative real-time, on-line/in-line control of quality and performance of process**
- **Food quality and safety**
- **HACCP approach**

## **KBBE.2013.2.5-02: Saving water and energy for resource-efficient food processing (20%)**

- From supply to processing, packaging, warehousing -> household handling of food commodities**
- Representative food industry sector**

## **KBBE.2013.3.1-01: Plant High Value Products - from discovery to final product (25%)**

- **Bioprospecting**
- **Identification of suitable bioactive compounds**
- **Optimised domestication and cultivation**
- **Metabolic engineering**
- **Product development and commercialisation**