

# Brokerage Event

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

**Brussels, 15th November 2017**



Sustainable Food Security

## Food Theme at University of Leeds

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University of Leeds



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

BioHorizon project is funded by the European Commission - Grant Agreement no. 652637

## CHALLENGES AFFECTING THE GLOBAL FOOD SYSTEM

### GLOBAL MEAT CONSUMPTION



Pig Leading: 118.8 M tonnes 2015

[FAO, 2017](#)

### LIVESTOCK SCIENCE



+£5M last 5 years

- [400ha Farm Research Unit](#)
- Pig Research Facilities (£7M)
- Developed diets 40% pig UK
- Big data, welfare epidemiology (PigSustain project)
- [Members of \(CIEL\) Innovate UK 3,5M£](#)



### OBESITY -MALNUTRITION



EU: 30-70% OVERWEIGHT, 30% OBESE  
1 in 3 11 year old CHILDREN OVERWEIGHT OR OBESE


[WHO, 2017](#)

### DIET & HEALTH: OBESITY PREVENTION



+£5M last 5 years

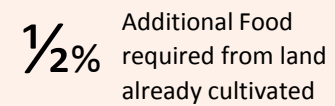
- 32 researchers (nutrition, behaviour, epidemiology & more)
- 33 successful projects, funded by [WHO](#), [FSA](#), [MRC](#), [EU](#),
- Founding members of Interdisciplinary Centre in Obesity, Nutrition and Health (ICON-Health)

Spin-out: myfood 

[Dietary Assessment Ltd.](#)



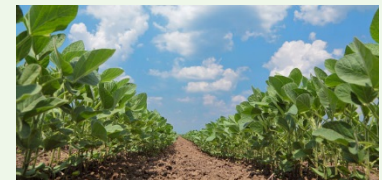
### PLANT & CROP DEMAND



75% of genetic diversity of crops is lost  
Climate change will destabilize production

[FAO, 2017](#)

### SUSTAINABLE CROP/ FOOD SECURITY



+£8M last 5 years

- 40 successful projects, funded by BBSRC, EPSRC, NERC, EU, among others.
- [Centre for Plant Sciences](#)
- Prof Christine Foyer (h-index 105)
- UK Champion for Global Food Security



## Working with industry and stakeholders



### LIVESTOCK SCIENCE



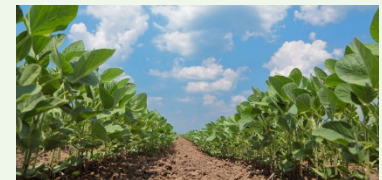
- SFS-08-2018-2019: Improving animal welfare
- SFS-11-2018-2019: Anti-microbial and animal production / A. Rethinking management of health of animals
- DT-SFS-14-2018 Personalized nutrition

### DIET & HEALTH: OBESITY PREVENTION



- DT-SFS-14-2018 Personalized nutrition
- LC-SFS-17-2019: Alternative proteins for food and feed
- SFS-16-2018: Towards healthier and sustainable food

### SUSTAINABLE CROP/ FOOD SECURITY



- SFS-01-2018-2019-2020: Biodiversity in action: across farmland and the value chain
- SFS-04-2019-2020: Integrated health approaches and alternatives to pesticide use
- SFS-06-2018-2020: Stepping up integrated pest management



## **Dr. Estefanía Ledesma Santiso**

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