

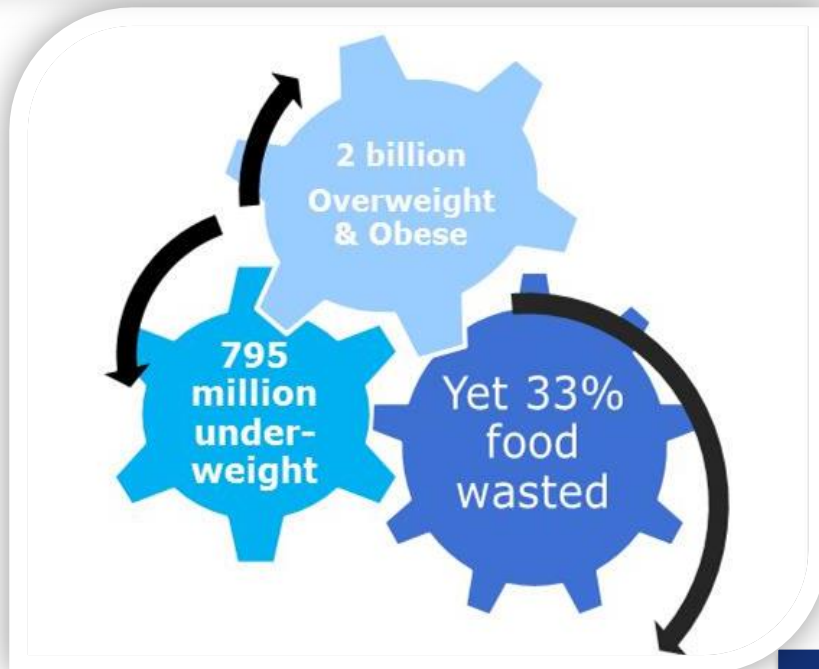
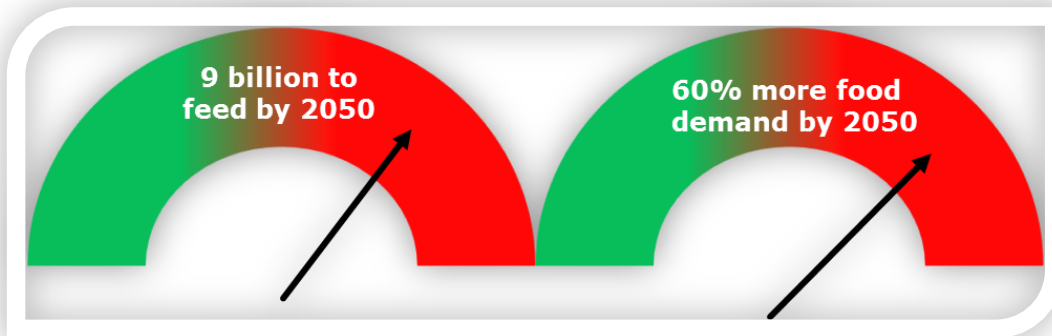


FOOD 2030

*Future-proofing our
food and nutrition
systems*

Marios Markakis
Agri-FOOD Chain- Directorate
Bioeconomy
DG Research & Innovation

A "perfect storm"





European
Commission



Political Opportunity

Juncker Priorities

10 priorities

- | | | | | | |
|----|--|--|----|--|--|
| 01 | | A new boost for jobs, growth and investment. | 06 | | A reasonable and balanced free trade agreement with the United States. |
| 02 | | A connected digital single market. | 07 | | An area of Justice and Fundamental Rights based on mutual trust. |
| 03 | | A resilient Energy Union with a forward-looking climate change policy. | 08 | | Towards a new policy on migration. |
| 04 | | A deeper and fairer internal market with a strengthened industrial base. | 09 | | Europe as a stronger global actor. |
| 05 | | A deeper and fairer Economic and Monetary Union (EMU). | 10 | | A Union of democratic change. |

Sources: European Parliament, European Commission

SDGs Post-2015



COP21



World Food Day 2016

Climate is changing.

Food and agriculture are too.

IPCC



The Food System

**Good soil,
water, land &
biodiversity**

**Connecting
land & sea**

**Food & Feed:
trade, relations,
culture, jobs, etc**



FOOD 2030 - NEW LEVEL OF AMBITION, IMPACT AND FOCUS

- **Food system approach**
- **New partnerships with Member States & business**
- **Map & close investment gap**
- **Game changing technologies**
- **New global platform**

FOOD 2030 - Priorities



NUTRITION for sustainable and healthy diets



CLIMATE smart and environmentally sustainable food systems



CIRCULARITY and resource efficiency of food systems



INNOVATION and empowerment of communities

FOOD 2030 - Drivers



Research -> ICT, Food systems science & transdisciplinarity



Innovation and Investment -> Regional, Private sector collaboration



Open Science-> Open access and data sharing; engagement, education & skills



International collaboration -> Partnering with Member States, International Bio-economy Forum

FOOD 2030 – Conference Oct 2016

High interest from all stakeholders

Agreement to raise ambition

Invitation by European Parliament

Next steps and actions

Speeches and presentations available on:
ec.europa.eu/research/conferences/2016/food2030

In summary

1. Food & nutrition security is strategic concern
2. New level of ambition for research and innovation required
3. FOOD 2030 will engage, mobilise and connect actors
4. Partner with Member States, public & private actors in food/nutrition, and international partners





FOOD 2030: Research & Innovation for Tomorrow's Nutrition & Food Systems



C-IPM Coordinated Integrated Pest Management in Europe

- 32 partners (research funders or managers of research programmes)
- Approx. 2M € EU contribution

www.c-ipm.org

Coordinator:

Antoine.Messean@grignon.inra.fr



C-IPM Objectives

- Define IPM-specific research agenda (Strategic Research Agenda, SRA)
 - 'Major' and 'minor' crops
 - Coordinatination and organisation of transnational calls
- Stakeholder consultation on the SRA

Integrated pest management (IPM)

IPM means careful consideration of all available plant protection methods and subsequent integration of appropriate measures that discourage the development of populations of harmful organisms and keep the use of plant protection products and other forms of intervention to levels that are economically and ecologically justified and reduce or minimise risks to human health and the environment. IPM emphasises the growth of a healthy crop with the least possible disruption to agro-ecosystems and encourages natural pest control mechanisms.

As defined in the European Union Framework Directive on the Sustainable Use of Pesticides (Directive 2009/128/EC)

Integrated pest management (IPM)

Define acceptable pest levels

Responsible use of PPPs

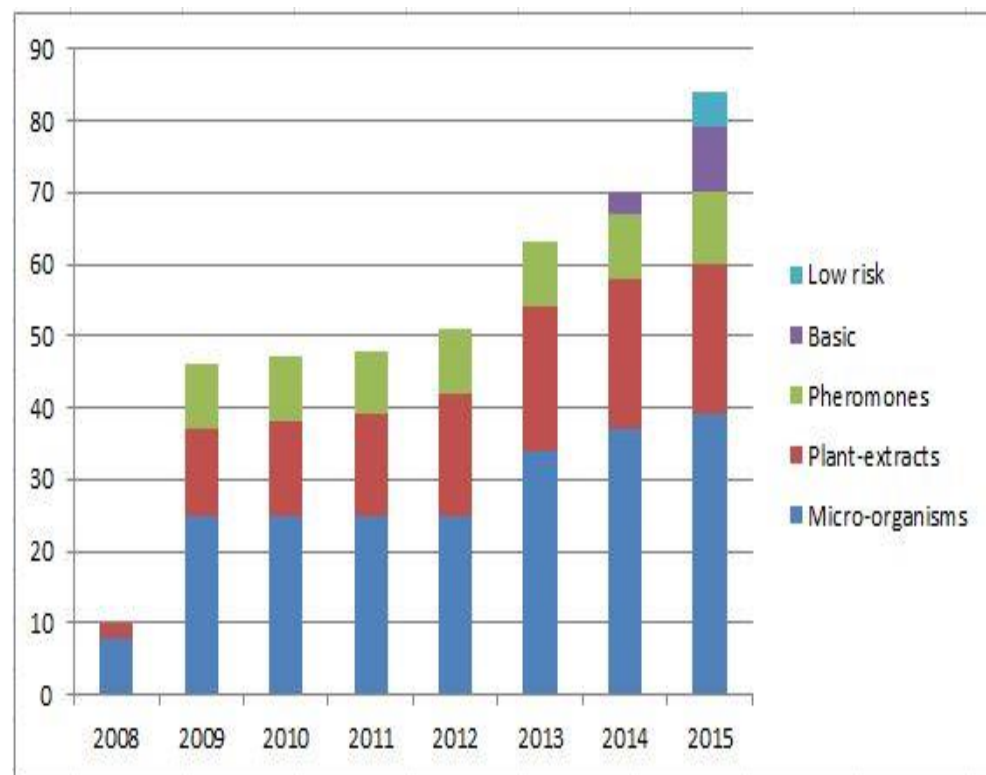
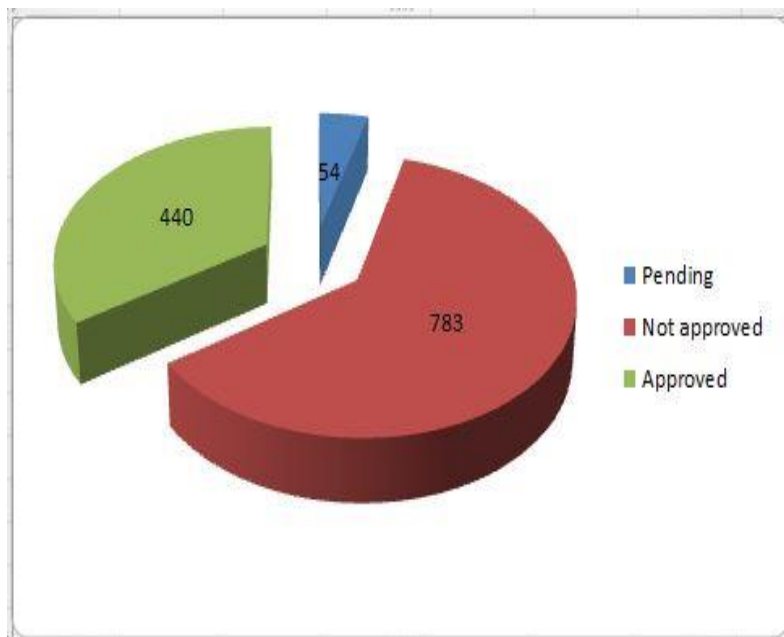
Decision support system-backed up by monitoring

Mechanical/Biological controls

Preventive cultural practices

Moving forward for sustainable use

Review of active substances in Europe
1993 - 2013



Progress with approval of "bio-based"
substances

Microbiome potentials



Understanding the
microbiome of our biosphere

1. Create collaborative **international networks**
2. Initiative to **standardize terminology and protocols**
3. Design **big data management, with open access**
4. Improve **communication** with policymakers, funding agencies, farmers, general public by building our case & story
5. Build our next generation workforce by microbiome **education**

USEFUL WEB LINKS

Participant Portal:

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

Cordis:

http://cordis.europa.eu/home_en.html

HORIZON 2020:

http://ec.europa.eu/research/horizon2020/index_en.cfm

BIOECONOMY:

<http://ec.europa.eu/research/bioeconomy/>

Thank you