



Research & Innovation

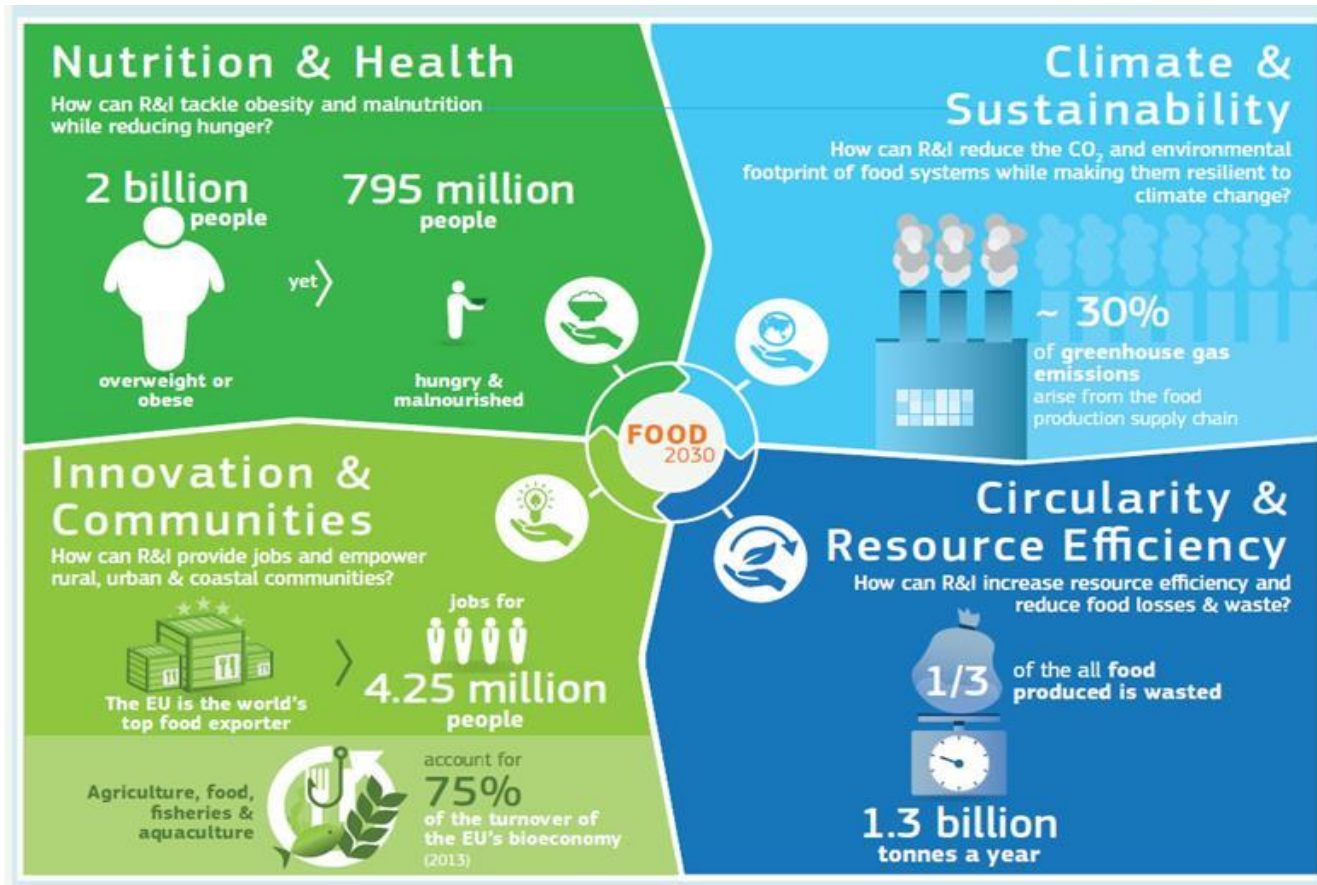
Future-proofing our Nutrition and Food Systems



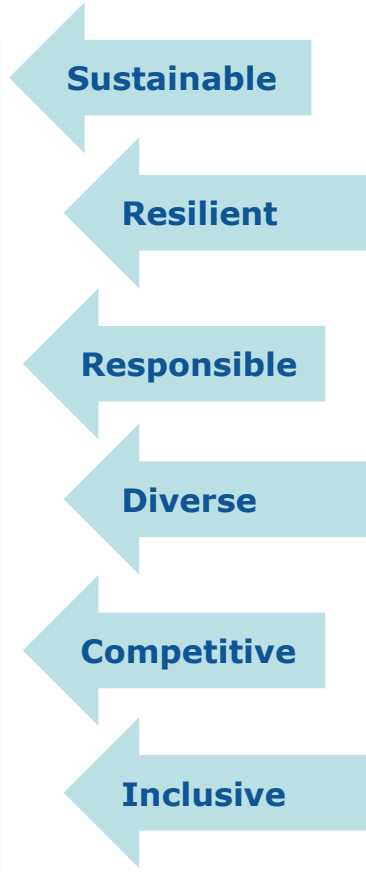
FOOD VISIONS 2030 Workshop
12 Oct 2016

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European Commission, Brussels

The Perfect Storm



The Food System



How can R&I make our future Food Systems simultaneously...

Sustainable: with respect to natural resource scarcity and in staying within planetary boundaries;

Resilient: with respect to mitigating and adapting to climate and global change, including extreme events and migration;

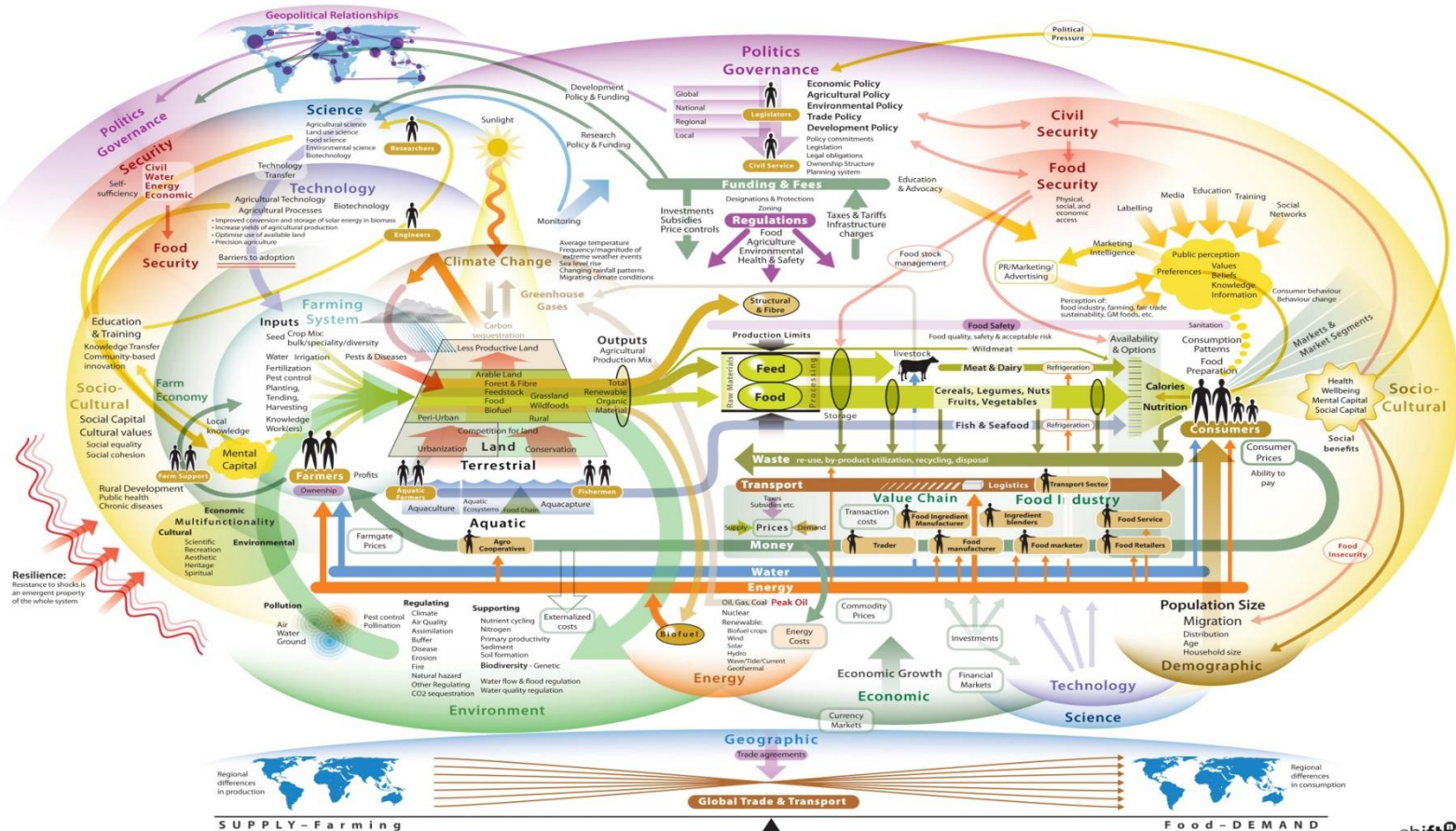
Responsible: with respect to being safe, ethical, transparent and accountable;

Diverse: with respect to being open to a wide range of technologies, practices, approaches, cultures and business models;

Competitive: with respect to providing jobs and growth;

Inclusive: with respect to engaging all food system actors, including civil society, fighting food poverty, and providing healthy food for all people.

Such a complex system requires a "systems approach"





European Commission



Political Opportunity

Juncker Priorities

10 priorities

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



Opportunities for R&I Breakthroughs

Swarm-robotics
Aquaponics Re-use-of-food-waste
Climate-resilient-crops Smart-Personalised-nutrition
Food-fortification Biosensors-in-agriculture
Organics Smart-Precision-Farming New-food
Multifunctional-business-models Scaling-up-aquaculture
Artificial-Photosynthesis Insects Food-water-health-energy-nexus
Drone-food-delivery Alternative-sources-of-protein
Off-shore-agriculture Food-industry-innovation
Urban-agriculture Plant-based-meat-similars
Sustainable-food-cities 3-D-food-printing
Business-models Soil-carbon-capture Plant-protection
Microbiome Agroforestry
Circular-farms



FOOD 2030

1. To promote a **food systems approach to R&I**
2. To better **structure, connect and scale-up EU R&I**, in a global context
3. To **step-up EU investment** ambition (public and private)
4. To mobilise diverse international stakeholders to **tackle global societal challenges**

**NEED FOR NEW LEVEL OF AMBITION,
IMPACT AND FOCUS**

FOOD 2030 Priorities



Nutrition for sustainable, healthy, safe food & diets



Climate smart & environmentally sustainable food system



Circular & resource efficient food systems



Innovation & empowerment of communities

FOOD 2030 Drivers

- **Open Innovation** -> Investment, Regional Innovation, PPP, Quadruple Helix for co-creation, (e.g. RIS3 Agri-Food Platform)
- **Open Science** -> Open access to data & knowledge; engagement, education & skills (e.g. Microbiome)
- **Research Breakthroughs** -> ICT, Food systems science & transdisciplinarity (e.g. smart personalised nutrition, consumer behaviour, multi-actor approach)
- **Open to the world** -> Global collaborations; MS R&I alignment and support (e.g. International Bioeconomy Forum, Africa HLPD on FNSSA)

Take home messages

1. Food and Nutrition Security is a key priority for EU Research & Innovation
 2. Nutrition and food systems face a "perfect storm"
 3. A new level of R&I ambition, impact and focus is needed for future-proofing our food systems and ensuring FNS
- => **FOOD 2030** *aims to engage, mobilise and connect*



FOOD 2030 High Level Event

- Venue: Brussels SQUARE
- Day 1- four parallel workshops & cocktail
- Day 2- conference proper (all in plenary)
- Conference background document (in infopacks tomorrow)
- Use of twitter #FOOD2030EU (hashtag & wifi code on badges)

Food Visions 2030 Workshop

- Today we welcome: tomorrow's speakers, a few experts, tomorrow's moderator, & EC staff for a collective leap into the future
 - Speakers: welcome to take inspiration from the day & feed it forward during discussion panels
- Opportunity to share ideas & connect to inspire next steps & catalyze future actions & partnerships
- Today - following workshop: networking cocktail & opening of food village exhibit
 - Photos/videos (consent form)
 - Outcome report/newsletter

'Conference Proper'

- Tomorrow's agenda: policy framing, FOOD 2030, four discussion panels, food in cities, closing
- Info for speakers only:
 - EC panel organisers: Petra, Hans Joerg, Claudia, Sandra, Wim & Karen
 - Reserved seating in plenary (front rows) – room will be packed!
 - Please connect with your panel organiser and moderator today!
 - Prior to taking the stage (during breaks) meet in 'speakers room' 15-20 min before start
 - Director John Bell welcomes speakers to special 'speakers lunch'

EU Policy Lab at the JRC

What we do...

The EU Policy Lab is both a physical space and a way of working that combines
FORESIGHT
BEHAVIOURAL INSIGHTS
and DESIGN THINKING
to explore, connect and find solutions
for better policies.

Tools we use....

Foresight explores long-term futures and creates shared visions for policy-making.

How can policy-making deal with complexity and uncertainty?

What are the trends that will shape our future?

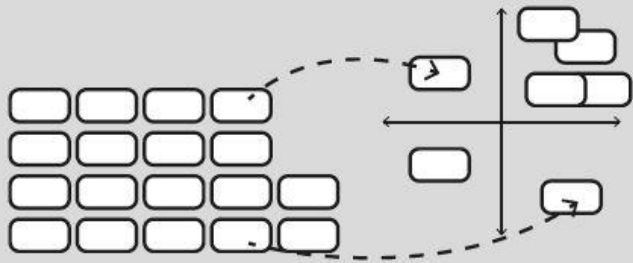
FOODVISION 2030

- To provide DG DEVCO with insights in order to engage EC services on aligning policies towards sustainable food system(s) and SDGs
- Approach:
 - Food systems/sustainability of future food systems
 - Trends analysis
 - Policy mapping
 - Trade-offs, synergies, leverage points for change in EU policy
- Support DG RTD on FOOD2030 to align processes and outcomes
- Flagship project on megatrends

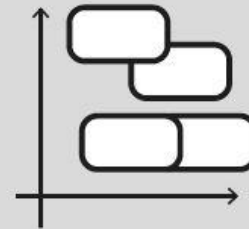


European
Commission

1. Trend mapping



2. Opportunities & challenges



3. Research & innovation interventions

Trend no.	Opportunity or challenge	Research & innovation interventions	Attributes
			<input type="checkbox"/> Sustainable
			<input type="checkbox"/> Resilient
			<input type="checkbox"/> Diverse
			<input type="checkbox"/> Competitive
			<input type="checkbox"/> Inclusive
			<input type="checkbox"/> Responsible

14.00 Welcome and introduction

14.15 Icebreaker

14.30 Session 1: Trend mapping and prioritisation

15.00 Session 2: Opportunities and challenges

16.00 Coffee break

16.15 Session 3: Identifying Research and Innovation interventions

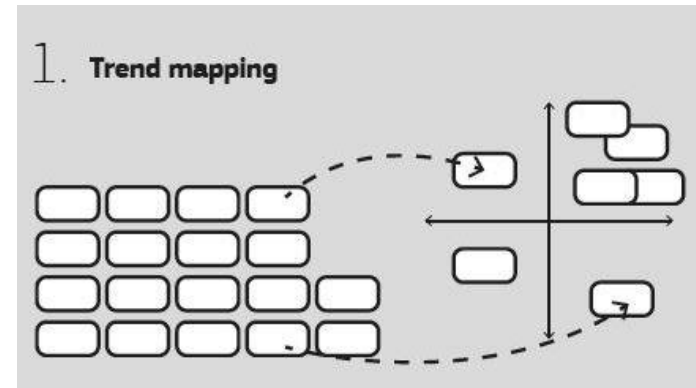
17.00 Reporting back and plenary discussion

17:45 Closing

18.00 Food Village

Session 1 : Trends mapping

- 8 groups in 4 FOOD2030 categories
 - NUTRITION for sustainable and healthy diets
 - CLIMATE smart and environmentally sustainable
 - Circularity and RESOURCE EFFICIENCY
 - Innovation and EMPOWERMENT OF COMMUNITIES
- 18 trends to place in a TRENDS MATRIX
 - Vertical axis: well-understood – misunderstood underestimated
 - Horizontal axis: High impact by 2030 to low impact by 2030
- Groups to discuss where the trends should be placed in the matrix in relation to the group's category
 - E.g. Trend on climate change in the context of nutrition by 2030 could be placed in misunderstood/high impact quadrant

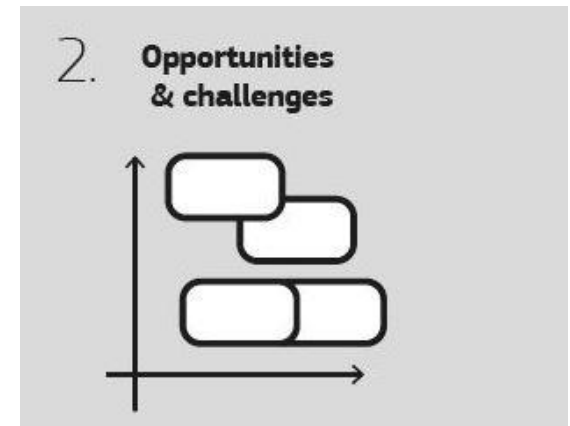


Time allowed: 30 minutes

Session 2 : Opportunities and Challenges

- Discuss how trends in the upper – right quadrant are likely to affect the group's topic area (30 min)
- Identify at least 3 challenges and/or opportunities that arise out of the trend analysis (30 min)
- One member of the group notes down the 3 challenges/opportunities on the template provided

Time allowed: 60 minutes



Session 3 : Research and Innovation interventions

- Identify 3 research and innovation interventions that could address the 3 challenges and or opportunities identified in the previous session (10 min per intervention)
- Indicate under which 'attribute' of a future-proof food system the intervention falls (more than one category is possible) (15 min)

3. **Research & innovation interventions**

Trends	Opportunity or challenge	Research & innovation intervention	Attribute
			<input type="checkbox"/> Sustainable <input type="checkbox"/> Resilient <input type="checkbox"/> Diverse <input type="checkbox"/> Competitive <input type="checkbox"/> Inclusive <input type="checkbox"/> Responsible

Time allowed: 45 minutes

Reporting back

- Task: You meet Commissioner Moedas (Research and Innovation) in a lift, you have 1 minute to pitch him an idea about research and innovation needs for future food systems
- Each group has 1 minute to pitch 1-2 key messages to come out of group discussion
- Plenary discussion on the findings, feasibility of the interventions, level of difficulty and major (policy) bottlenecks

Time allowed: 45 minutes

 #FOOD2030EU

Thank you & enjoy the day!

