

FOOD 2030



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1. Our Food Systems are Broken

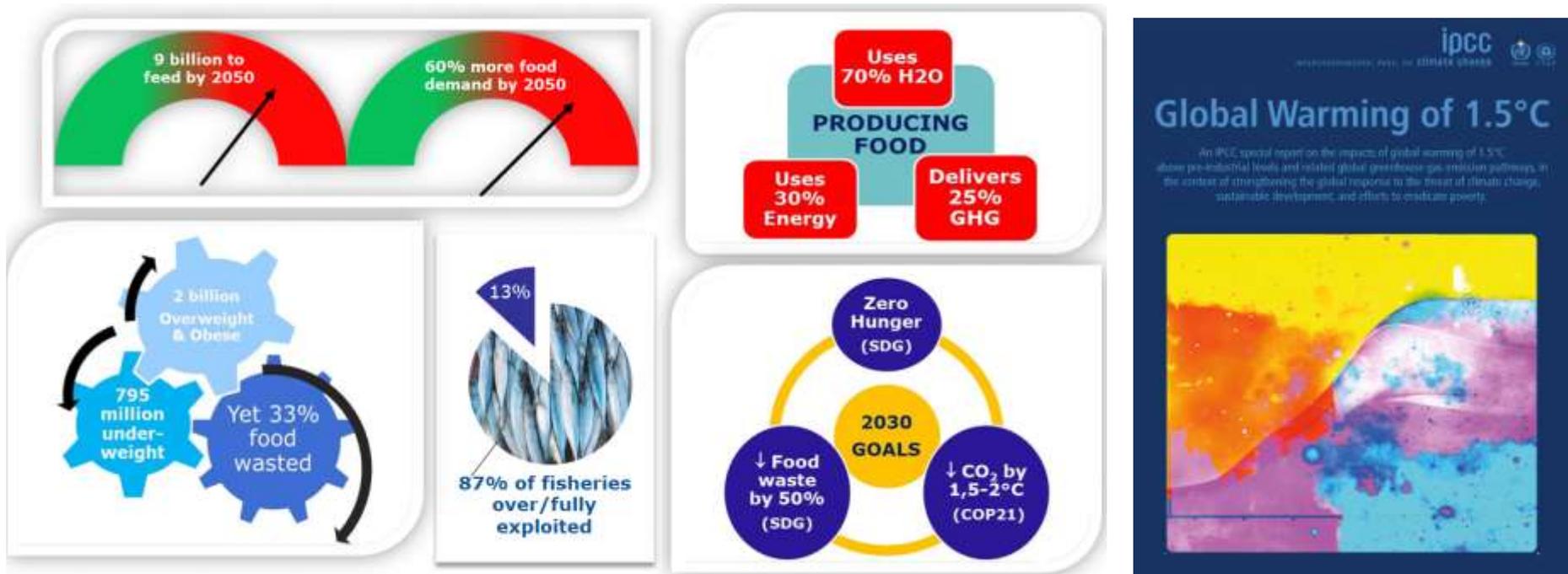
2. FOOD 2030

3. What's next?



European
Commission

Food Systems face "Perfect Storm"



Context:

*consumer trust – fairness – digital revolution...
...and we are drowning in plastic ! ...*

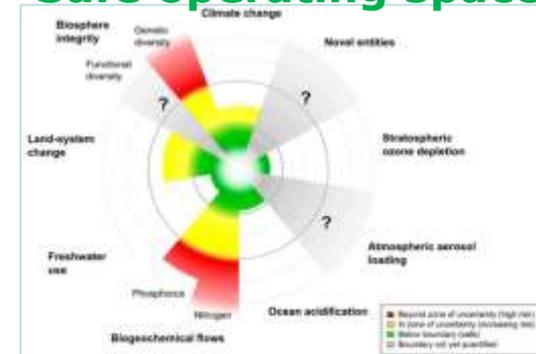


European Commission

Policy ambition – Sustainable Europe



Safe operating space



Clean Planet for All

Ambition:

achieving a climate-neutral EU by 2050

Pathways:

Challenging but feasible from a technological, economic, environmental and social perspective.

Science outlines pathways & co-benefits

SUSTAINABLE HEALTHY DIETS

- **EC Communication "A Clean Planet for All"**

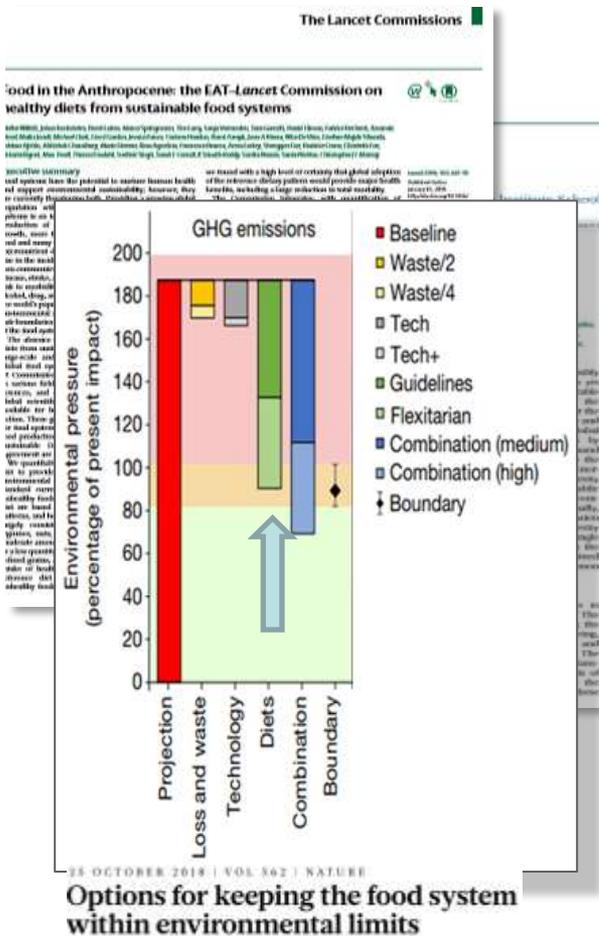
Moderate **changes in food consumption** (a reduction of animal-based consumption) could reduce significantly **GHG emissions** from agriculture production. By 2070 emissions could be reduced by 13% to 44% in connection with different type of diets

- **European Decarbonisation Pathway Initiative**

Consumption-based measures, such as **changes in diet or a reduction in food loss and waste**, offer a substantial mitigation potential (1.5–15.6GtCO₂-eq/y on a global scale), greater than supply-side measures. **Changes in diet** may be associated with valuable **co-benefits** such as improving health. A more balanced diet would have relevant implications on GHG emissions and other environmental issues (water use).

- **EAT-Lancet report**

A planetary health diet and targets for sustainable food production can prevent 11 million premature **adult deaths** per year, and substantially reduce the **health** costs of diet related diseases;



Science outlines pathways & co-benefits

LAND USE CHANGE and CLIMATE, BIODIVERSITY



- World Resources Institute;** Menu for a sustainable food future
 - (1) reduce demand growth for food and agricultural products;
 - (2) increase food production **without expanding agricultural land**;
 - (3) exploit reduced demand on agricultural land to protect and restore forests, savannas, and peatlands;
 - (4) **increase fish supply** through improved wild fisheries management and aquaculture; and
 - (5) reduce GHG emissions from agriculture.
- 4PER1000**

Farming and forestry practices that favour carbon storage in soils and biomass (**permanent soil cover, use of organic products, diversified cropping systems, agroforestry, conservation agriculture, regenerative agriculture, etc.**) will contribute to preserving natural resources and biodiversity, increasing productivities, stabilizing soils, and improving their water retention.
- EC Communication “A Clean Planet for All”**

Carbon sinks are as important as reducing emissions. Maintaining and further **increasing the natural sink** of forests, soils, and agricultural lands and coastal wetlands is crucial ..., as it allows the offsetting of residual emissions from sectors where decarbonisation is the most challenging, including agriculture itself.

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The FOOD 2030 R&I Policy Framework

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

PATHWAYS FOR CO-BENEFITS

- Sustainable diets & alternative proteins
- Reduction of food-related waste
- More sustainable food from oceans
- Urban food system transformation
- Food safety of the future
- Understanding & use of microbiome
- Food systems digitalisation



R&I Needs



Nutrition

Alternative Proteins



Sust. & healthy feed



Functional foods



Circularity

Reduce farming
inputs & effluents



Seaweed as agri fertiliser



Climate

Farm Thermophiles



Boost Photosynthesis



Innovation

IoT for precision farming



Better offshore cages



Aquaponics in cities



FOOD 2030 key achievements

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

High-Level Event, 12-13 October 2016, Brussels



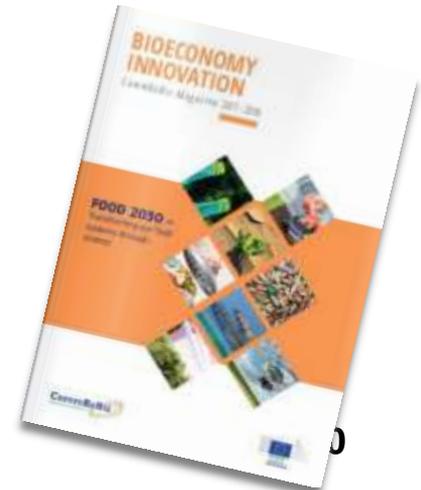
Harnessing Research and Innovation for FOOD 2030

Science Policy Dialogue, 16 October 2017, Brussels



Research & Innovation for Food and Nutrition Security – Transforming our food systems

2nd High-Level Event, 14-15 June 2018, Plovdiv (BG)



Engagement Platform & Expert Group



- **Fit4FOOD2030: Support the EC to further develop and implement the FOOD 2030 policy framework and actions (2018-2020)**
 - **EU Think Tank** to link EC and Member States & Associated Countries, with a global outreach
 - **Policy Labs** to increase & align public/private R&I policies/programs on FNS, building on and expanding existing national/regional networks; and
 - **City Labs** to extract best practices, develop/pilot action-oriented trainings for students, consumers, researchers and professionals linking Science Centres/Science Shops to networks of the Milan Urban Food Policy Pact cities.
- **FOOD 2030 EG – 2018 Report:**
 - R&I achievements,
 - Evidence base and rationale for a Research, Innovation and Investment Strategy (RI&IS)
 - Potential future R&I actions/missions





FOOD 2030 - New level of ambition, impact & focus

- Food system approach; work on multiple levers of change
- New partnerships with MS, business, society, public sector, etc.
- Map & close R&I investment gap
- Connect R&I: 'farm-to-fork-to-gut-and back', land & sea
- Game changing technologies, approaches, business models
- Support policies, align with & deliver on Int'l commitments (SDGs, etc.)
- Multi-stakeholder engagement – all levels (local-int'l)



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R&I Policy Context

Actions in research, innovation ... and beyond (investment, start-up, education, demonstration, addressing soft and hard barriers)

1. *Horizon Europe: Enabling societal, economic & ecological transitions*
 - **Strategic planning process aims for inclusiveness and transparency;**
 - **New/improved R&I partnerships (i.e: food systems: food safety, diet shift, etc.)**
 - **Missions: Oceans, Smart cities, Soil & Food, Cancer, Climate adaptation**
 - **Synergies with policies beyond R&I; EIC/InvestEU**

2. *Bioeconomy Strategy and Action Plan: deploying local bioeconomies rapidly across Europe*

HE - Next steps to engage

- Online public [consultation](#) on the Strategic Planning – Now open!
- HE Mission Boards – Chairs announced on 4 July (Soil Health & Food: Mr Cees Veerman)
- R&I Days – 24-26 September in Brussels
 - Many (parallel) sessions relevant to food systems, circularity, etc.
- World Food Day event – 16 October 2019



Bioeconomy Action Plan

14 Actions in 3 areas

1

**STRENGTHEN AND SCALE-UP THE BIO-BASED SECTORS,
UNLOCK INVESTMENTS AND MARKETS**

2

DEPLOY LOCAL BIOECONOMIES RAPIDLY ACROSS EUROPE

3

UNDERSTAND THE ECOLOGICAL BOUNDARIES OF THE BIOECONOMY

Thank you!



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

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