



Post Horizon 2020



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H2020 overview

- **A single programme** based around three pillars
Excellent science, Industrial leadership, and Societal challenges - 80 Billion €.
- **Coupling research to innovation** – from research to retail, all forms of innovation
- **Simplified access** - for all companies, universities, institutes in all EU countries and beyond. Decentralised project management through REA.
- **New instruments** – PPPs, ERANET cofund, IAs, EFSI scheme, Smart specialisation

Societal Challenge 2 overview

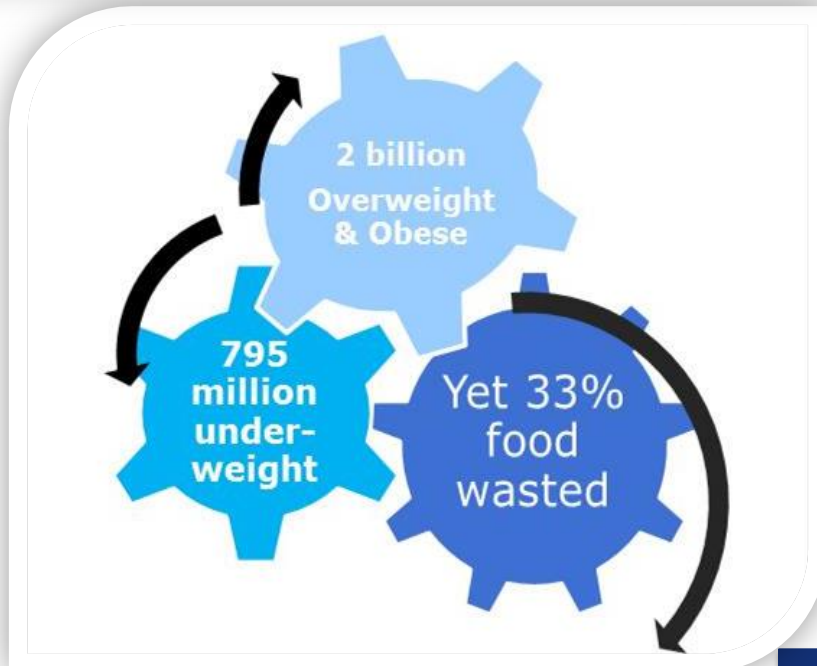
- *4 Calls so far 2014-2017*
- *203 projects selected – 1.3 Billion € committed*
- *New calls 2018-2020 – 1.3 Billion € available*



European
Commission



A "Perfect Storm"





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

Sustainable Development Goals



COP21+



World Food Day 2017

Climate is changing.

Food and agriculture are too.

IPCC

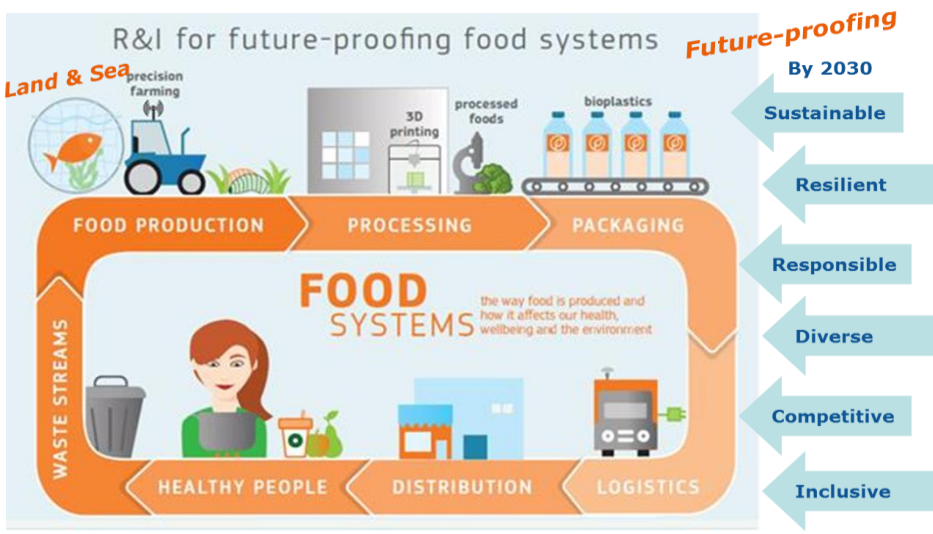
IPCC | 14 April 2016 | 14:52

The IPCC's priorities for the next six years: 1.5C, oceans, cities and food security



FOOD 2030




R&I for tomorrow's nutrition & food systems




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

Drivers

-  **Research breakthroughs**
-  **Innovation and Investment**
-  **Open Science**
-  **International collaboration**

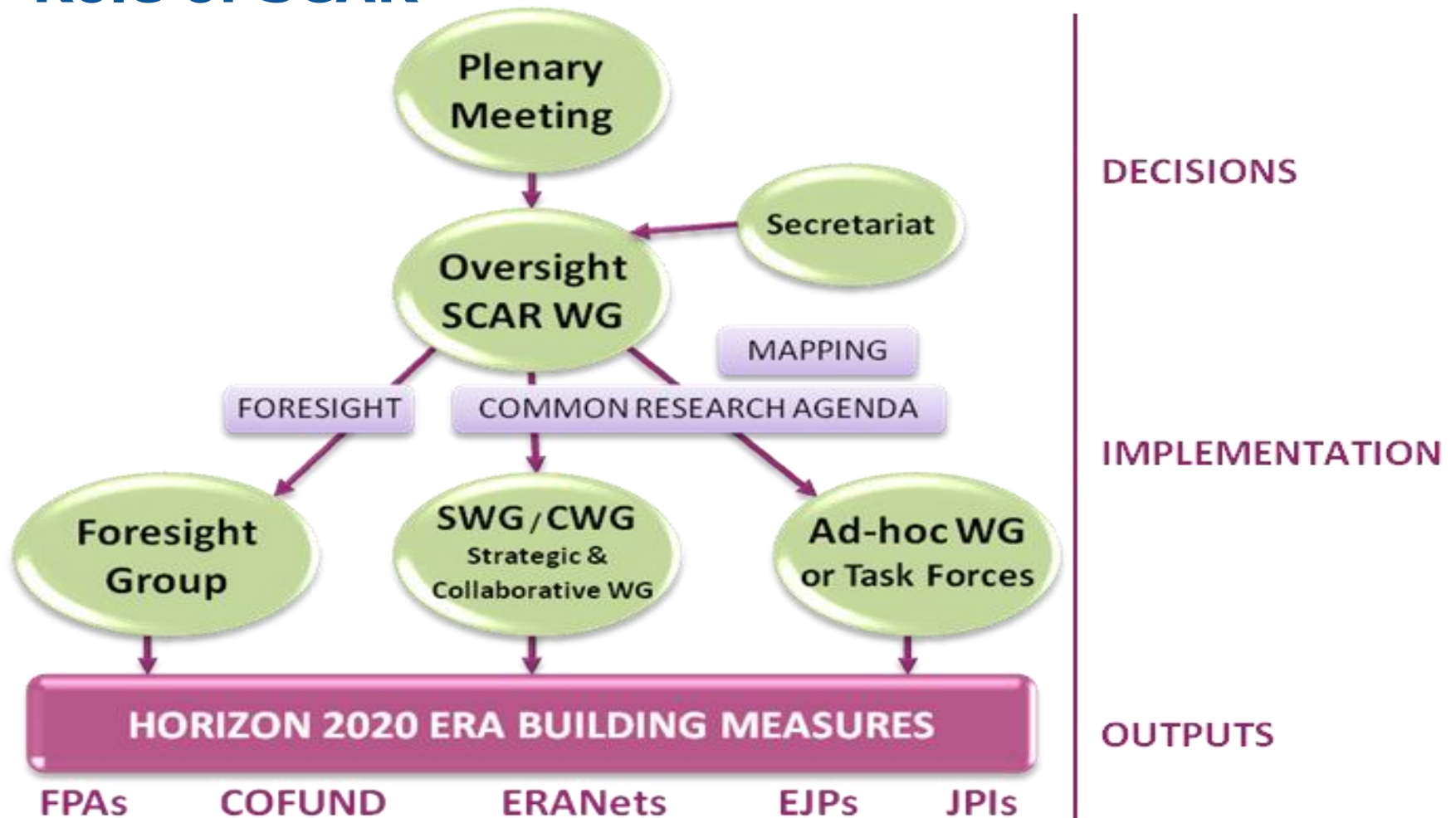
 **#FOOD2030EU**

- **Perfect Storm:** climate change, population growth, resource scarcity, malnutrition, obesity & NCDs
- **Political opportunity:** response to SDGs, COP21+, Junker priorities
- **Investment opportunity:** EU underinvesting in food & agri R&I despite high returns on investment
- **Need for a systemic approach** to future-proofing food systems via more impactful R&I

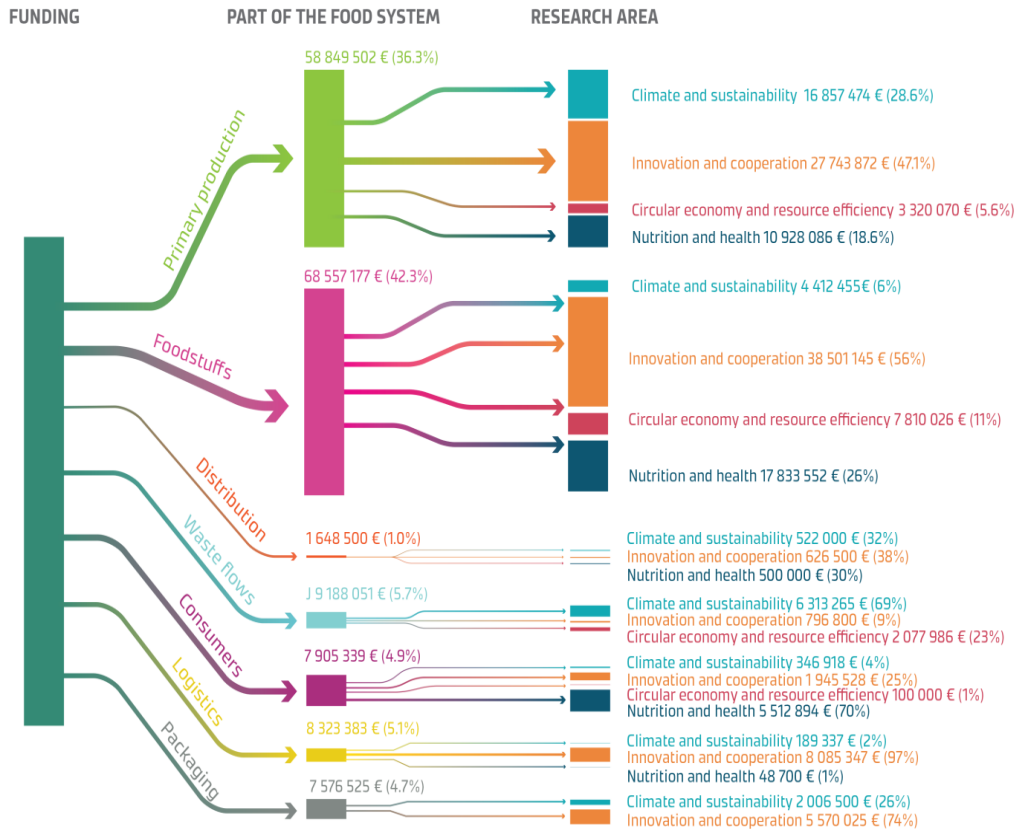
FOOD 2030 - New level of ambition, impact and focus

- Food system approach
- New partnerships with Member States, business, society and other stakeholders
- Map & close R&I investment gap
- Connect R&I, from 'farm-to-fork-to-gut-and back' including primary production
- Game changing technologies, approaches, business models
- New global platform

Role of SCAR

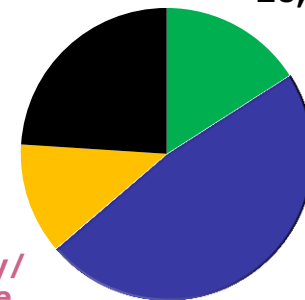


FINLAND: SCAR Pilot Study on national FNS R & I Expenditure 2011 – 2016



**Nutrition and
Health 21 %**

**Climate and
Sustainability
20,6 %**



**8,0 %
Circular
Economy/
Resource
Efficiency**

**Innovation and
Cooperation
50,4 %**

FP9 DEVELOPMENTS

- MFF proposal in May'18; FP9 proposal in Jun'18
- Lamy report (HLG 3.7.2017) as basis. Could be for 5, 7 or 10 years.
- EC HLG FP9 "Lamy" report, July'17, presented in Scoping the Future conference, 3.7.2017
- EP report on H2020 and recommendations for FP9, 13.6.2017
- Structure similar to H2020 - Heavy influence of SDGs

Transforming our world

United Nations 2030 Agenda for Sustainable Development

The integrated nature of the SDG framework consists of:

- *Three dimensions of sustainable development:*
 - **economic, social and environmental**
- *Five Areas of critical importance for humanity and the planet (5 P's):*
 - **People, Planet, Prosperity, Peace, Partnership**
- *17 Sustainable Development Goals (SDGs)*
- *169 targets*
- *240 indicators for goals and targets*

References:

UN Resolution 70/1: http://www.un.org/ga/search/view_doc.asp?symbol=A/RES/70/1&Lang=E

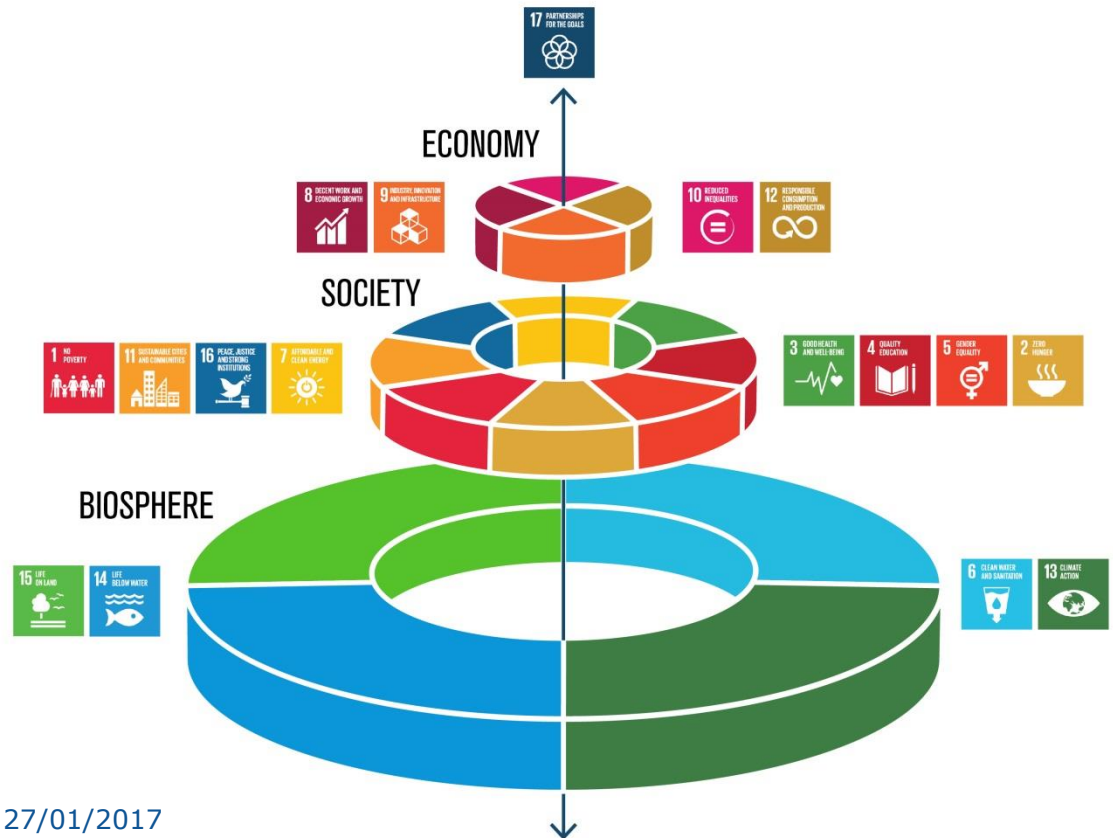
SDG Indicators: <http://unstats.un.org/sdgs/indicators/indicators-list/>

See also: OECD (2017), **Measuring Distance to the SDG Targets: an assessment of where OECD countries stand**, <http://www.oecd.org/std/measuring-distance-to-the-sdgs-targets.htm>.

"Drawing on the IAEG (Inter-Agency and Expert Group on Sustainable Development Goal Indicators) Global List of indicators, its methodology evaluates the distance countries need to travel to meet each target. Thus, by providing a high-level overview of strengths and weaknesses in performance across the SDGs and the 5Ps, this tool can help countries to navigate the SDGs' complexity and identify priorities within the broad 2030 Agenda."

"Wedding cake" – a new vision for sustainable development

"This model changes our paradigm for development, moving away from the current sectorial approach where social, economic, and ecological development are seen as separate parts. **Now, we must transition toward a world logic where the economy serves society so that it evolves within the safe operating space of the planet.**"



Source: Stockholm Resilience Institute, Retrieved 27/01/2017
<http://www.stockholmresilience.org/research/research-news/2016-06-14-how-food-connects-all-the-sdgs.html>

Pillar III – Build **Global** Challenges around **SDGs**: Type of Missions

Stream 1:

- *Trans-sectorial, inter-disciplinary, across minimum of 3 DGs - Co-designed with stakeholders*
- *Define goals - open path bottom-up, biannual WPs*
- *Impact indicators 5-10 years after project*
- *Include research at lower TRLs.*
- *More flexible contracts allowing consortia to change work plans and composition as needed for achieving the mission.*

Stream 2: *Support for EU policy: topic driven, quite prescriptive*

Pillar III Global Challenges around SDGs: Other parameters

- *Innovation first*
- *Some missions more research oriented – e.g. MiBi (map the global microbiome)*
- *Some more industry oriented – e.g.*
 - ↑ *energy storage*
 - ↓ *plastic waste*

Next steps:

- *Present mission concept by end of September 2017*
- *Until Feb/Mar 2018: Convince college of Commissioners plus Ministers of finance and economy that R&I should be an important part in the MFF – ISE, EuroScience ..*
- *Dec 2017 EC reply to Lamy report*

POSSIBLE FP9 MISSIONS

- *Sustainable biosphere, ecosystem services, primary production, food and nutrition security and the bioeconomy.*
- *Farmers as Natural Resource Managers*
- *Circular Economy Farms*
- *Sustainable Use of Land*
- *Photosynthesis for Food & Energy*
- *Less Food Waste*
- *Food Cloud for Shared Food Knowledge*
- *Microbiome for Climate Change Mitigation*

Thank You



Website FOOD 2030:

<http://ec.europa.eu/research/food2030/>

Twitter: #FOOD2030EU