



HORIZON 2020

Societal Challenge 2: *"Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy"*



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- Past: EU R&D(&I) funding in 2007-2013
- Future: Horizon 2020 R&D&I funding (2014-2020)
- Present: SC2, the bridge between past & future

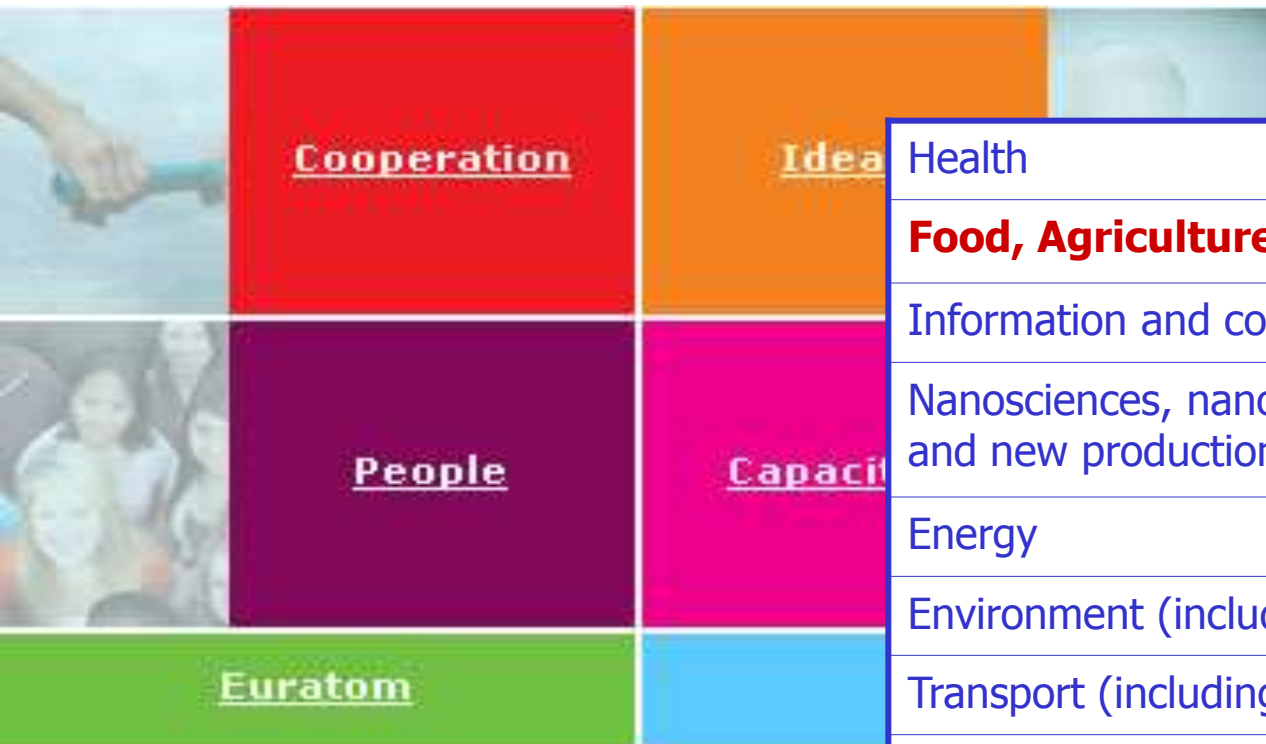
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- Past: EU R&D(&I) funding in 2007-2013
 - FP7 structure
 - R&D&I trends in 2007-2013
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FP7: The 7th Framework Programme

Specific Programmes

10 Cooperation themes



Health

Food, Agriculture and Fishery, Biotechnology

Information and communication technologies

Nanosciences, nanotechnologies, materials and new production technologies

Energy

Environment (including climate change)

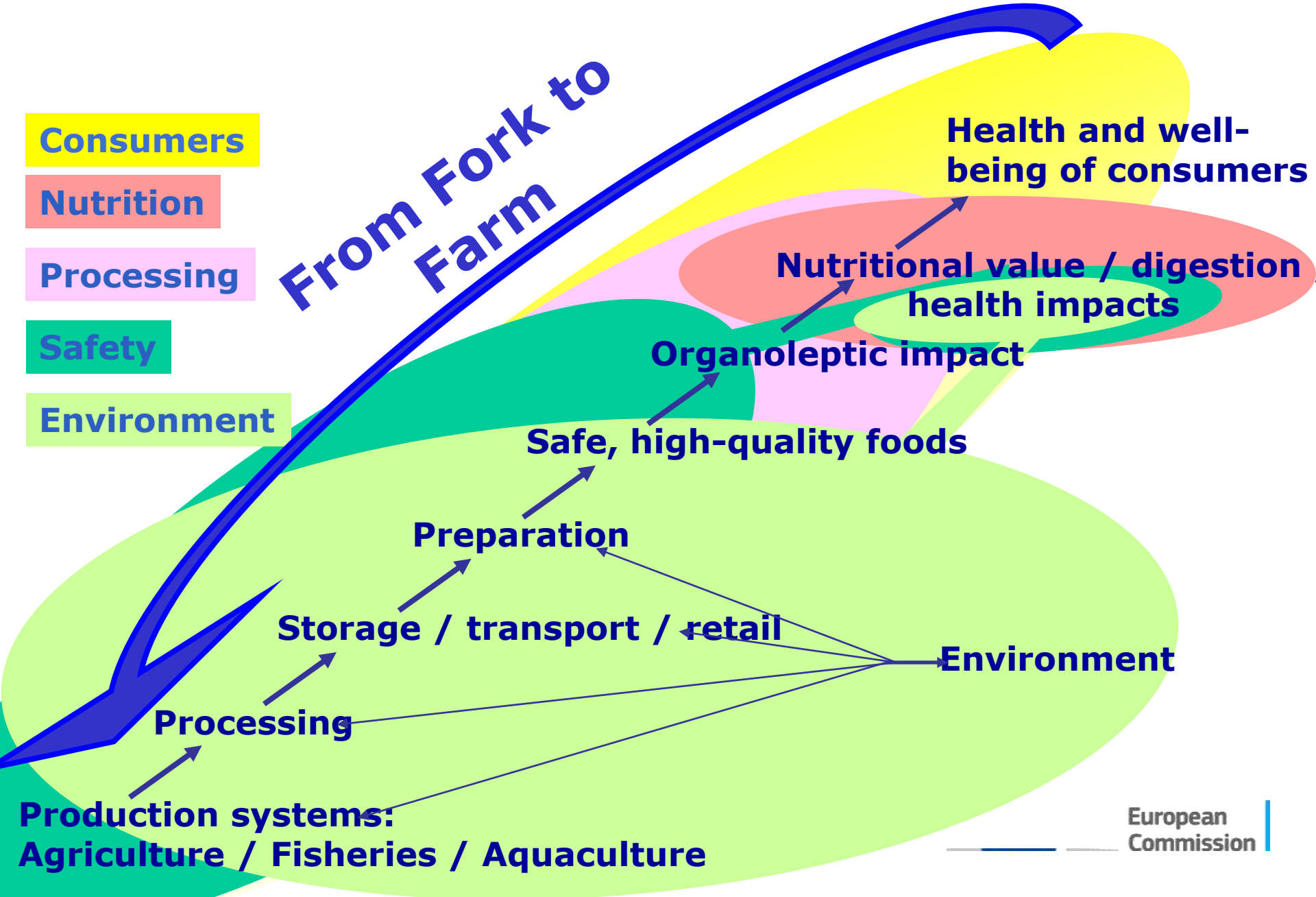
Transport (including aeronautics)

Socio-economic sciences and the humanities

Space

Security

"Fork to farm" in FP7: 5 R&D domains



Trends in 2007 – 2013

- **More multidisciplinary approach**

(in last vs. first FP7-Cooperation calls)



- **Other (than FP7 – Cooperation) successful**

R&D&I-related funding programmes, e.g.:

- **Other FP7 programmes** (People, Ideas, Capacities)
- **ERA-NET**, e.g. SUSFOOD (16 countries)
- **CIP 'Eco-innovation'** – 'Food & Drinks sector' as 1 of 5 priority areas

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- Past: EU R&D(&I) funding in 2007-2013
- Future: Horizon 2020 R&D&I funding (2014-2020)
 - "Horizon 2020": what & why?
 - From Horizon 2020 pillar to single topics
- Present: SC2, the bridge between past & future

What is Horizon 2020?

The new European Union programme for research and innovation for 2014-2020

- An integrated programme coupling research to innovation
- Challenge based
- Strong focus on SMEs
- Major simplification



Horizon 2020: an integrated programme

"Type of Actions / Support mechanisms"

- RIA: Research & Innovation Action
- IA: Innovation Action
 - Prototyping, testing, demonstrating, piloting,...
 - *May include limited R&D activities*
- CSA: Coordination & Support Action (less to no R&D)
- SME instrument: 3-phase instrument (feasibility study, innovation project, indirect support for commercialisation)

New in Horizon 2020 !

New approach to work programmes and calls

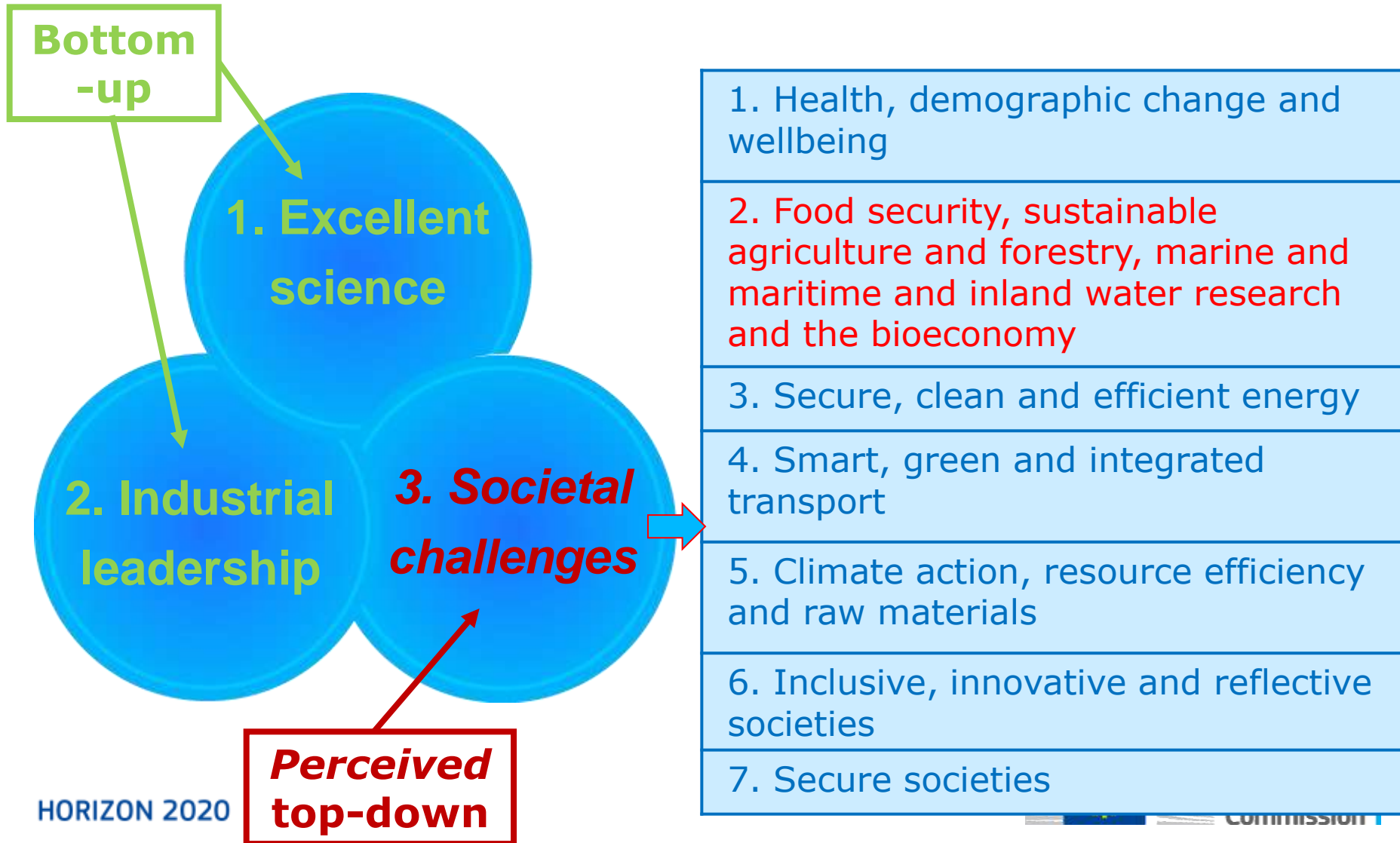
- **More strategic**
- **Two year work programmes**
(2014-2015: > € 15 billion)
- **Less prescriptive calls**
(64 calls in 2014)
 - ✓ Broader and fewer topics
 - ✓ First call deadlines as from March 2014



From Framework Programme to the individual topic



Horizon 2020: 3 priorities / pillars



Work Programme **2014**

Funding for calls

Societal Challenges Pillar: ~ € 2.8 billion

1. **Health, demographic change and wellbeing** (2 calls) € 600 million
2. **Food Security, Sustainable Agriculture and Forestry, Marine and Maritime and Inland Water Research and the Bioeconomy** (3 calls) € 300 million
3. **Secure, clean and efficient energy** (4 calls) € 600 million
4. **Smart, green and integrated transport** (3 calls) € 540 million
5. **Climate action, environment, resource efficiency and raw materials** (3 calls) € 300 million
6. **Europe in a changing world – inclusive, innovative and reflective societies** (5 calls) € 112 million
7. **Secure Societies** (4 calls) € 200 million

In addition

- **Spreading Excellence and Widening Participation** (3 calls) € 50 million
- **Science with and for Society** (4 calls) € 45 million

Topic Structure: 4 main parts

1. **Specific Challenge**: What is the problem, why should we care?
2. **Scope**
 - Framework / focus for solution
 - Less prescriptive than FP7
 - Sometimes *different scope and/or support mechanisms* (A, B,...) in 1 topic
3. **Expected Impact**
 - if your project is succesful, which impacts should be reached?
 - Another way to focus the topic
4. **Type of Action** the support mechanism

SC2, WP 2014-2015: 3 calls

Sustainable Food Security

- Sustainable food production systems
- Safe food and healthy diets and sustainable consumption
- Global drivers of food security

Blue Growth: unlocking the potential of Seas and Oceans

- Sustainably exploiting the diversity of marine life
- New offshore challenges
- Ocean observation technologies/systems
- Horizontal aspects, socio-economic sciences, engagement with society,...

Innovative, Sustainable and Inclusive Bioeconomy

- Sustainable agriculture and forestry
- Sustainable and competitive bio-based industries
- Cross-cutting actions covering all the activities

SC2: Sustainable Food Security Call

Examples of 2015 topics

1. Sustainable food production systems

- SFS-2-2014/2015: Sustainable crop production
- SFS-5-2015: Strategies for crop productivity, stability and quality
- SFS-8-2014/2015: Resource-efficient eco-innovative food production and processing (**SME instrument**)

2. Safe food and healthy diets and sustainable consumption

- SFS-13-2015: Biological contamination of crops and the food chain
- SFS-14-2014/2015: authentication of food products

3. Global drivers of food security

- SFS-20-2015: Sustainable food chains through public policies: the cases of EU quality policy and of public sector food procurement