



Fostering Research & Innovation for Food & Nutrition Security

An EU perspective

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Cssr Moedas' priorities for R&I

➔ ***Food, Health, Water, Energy***
Food and nutrition security

➔ ***More innovation, drive investment***
Open innovation, open science
open to the world

What is at stake for food & nutrition?

- *Urgency & complexity: Compounded effects of population growth, urbanization, resource scarcity and climate change - affect the entire food chain (Europe & globally)*
- *Today: 3.5 B people are undernourished, yet ~ 2 B people are overweight - 'double burden' of malnutrition (NCDs on the rise – e.g. diabetes)*
- *To feed 9 B, food production must increase by nearly 60% by 2050, yet 1/3 of the food we produce today is wasted.*



Food & Nutrition Security @ EXPO 2015 Milan

- Almost EU 200 workshops, conferences, events
- Eu expo Scientific Steering Committee chaired by F. Fishler
 - Discussion paper "European priorities for R&I"
 - Four policy recommendations: systems approach, engagement/awareness raising, innovation for impact, international panel on FNS
- High Level Conference: "Strengthening Global Food and Nutrition Security through research and innovation", 15 Oct 2015:
 - Commissioner Moedas launches (with the support of Commissioner Hogan) year-long dialogue with stakeholders to design a 'Food Research Area' (FRA) Strategy
 - FRA Strategy will build a coherent R&I policy on FNS in Europe and with a global outreach

EU initiatives to make a difference

- Horizon 2020 Work programme of Societal Challenge 2 (whole food system approach) and considerations for next FP
- Joint Programming Initiatives, science diplomacy partnerships (ie: Africa, PRIMA, ASEAN, N&S Atlantic, China, Brazil, etc.)
- European Technology Platforms: in particular 'Food for Life': Food&Drink Industry: 2016 New strategic R&I agenda, implementation plan & new roadmap (sustainability & nutrition) - may lead to possible cPPP
- Synergies with other funds like ESIF for smart specialisation in the field of FNS
- EIT – New Knowledge and Innovation Community on 'Food' (call to be launched in Jan 2016): boost innovation capacity via knowledge triangle (education, research & business)

The Vision

*The Food Research Area will be based on a vision for Food
and Nutrition Security
whereby R&I contributes to building*



***"A resilient food system that provides sustainable,
affordable and healthy food for all"***

FRA - four priority areas

1. Building a climate and global change-resilient food system via the sustainable use of the planet's resources so as to preserve ecosystems services and mitigate impacts of climate change
2. Implementing safety, diversity and circular economy principles across the whole food production, processing and distribution chain
3. Eliminating hunger and malnutrition, reducing food and diet-related illnesses, and helping citizens adopt sustainable diets and healthy lives
4. Boosting innovation in support of a thriving, diverse and adaptive food economy delivering jobs and prosperity, while empowering communities

FRA Principles and Focus*

science education
skills development
governance
openness to society sustainability
circularity
circular economy inter & transdisciplinarity
cascading approach
resilience to climate & global change
capacity building institutional & open innovation
diversity foresight reflexivity socio-cultural dimensions
food first scientific literacy
new business models

* in alignment with the 4th SCAR Foresight & EU Expo Sci Com.
Recommendations

FRA activities to achieve impact

1. Design & implementation of priority-driven R&I Programming (H2020+): Nutrition, Climate Resilience, Sustainability and Growth

- **Means to design new Strategic Programme & WP (2018-2020) and secure next MFF funding (FP9?)**

2. Research programme alignment via International Flagships and Public-Public Partnerships (P2P)

- JPIs, ERA-NETs, IRC, Belmont Forum, etc.
- Africa, China, ASEAN, Brazil, PRIMA, etc.
- 'Widening' by involving other R&I funders (ex: foundations) and greater international outreach (beyond EU)
- Actions fostering skills development, FNS education, capacity building of R&I actors

FRA activities to achieve impact

3. Boosting Investment & Innovation

- Removing barriers to innovation (InnoRefit)
- Supporting demonstration pilots and proofs of concept
- Rejuvenating ETPs for possible cPPP (Food & Drink, etc)
- Building synergies with other funds, also to boost 'place-based innovation' (regions, cities): S3, ESIF, RDF, EIP, KIC Food, EIB, etc
- Boosting FNS via use of ICT and FET

4. Fostering Open Science

- 'Food Commons' for research data and valorization, connecting initiatives and infrastructures
- Platform to convene EU and International efforts on FNS RI activities and existing actors for multi-actor and public engagement
- Regulatory alignment and support to relevant thematic policies (fostering science-policy-society interface)

Latest H2020 calls for proposals

- Published Oct 2015
- Info Day: 25th Nov in Brussels
- Submission deadline: Feb 2016

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FP7 & CIP Programmes 2007-2013

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Call budget overview

CALL: SUSTAINABLE FOOD SECURITY – RESILIENT AND RESOURCE-EFFICIENT VALUE CHAINS

Call identifier: H2020-SFS-2016-2017

Publication date: 14-10-2015

Horizon 2020 > Societal Challenges

H2020 website

Call updates + More

- **27-10-2015 00:30:14** The submission session is now available for: SFS-41-2016(ERA-NET-Cofund), SFS-25-2016(CSA), SFS-19-2016(ERA-NET-Cofund), SFS-24-2016(CSA), SFS-12-2016(CSA)

Topics and submission service

To access the **Submission Service**, please **select the TOPIC** of your interest and then open the Submission Service tab.
To access **existing draft proposals**, please login to the portal and select My Proposals from the My Area menu.

Status ☒Forthcoming ☒Open ☒Closed

Sort by ☐ (Planned) opening date ☐ Deadline ☐ Topic title ☒ Topic identifier

Topic: [SFS-01-2016:Solutions to multiple and combined stresses in crop production](#) Open

Publication date: 14 October 2015

Types of action: RIA Research and Innovation action

DeadlineModel: two-stage

Opening date: 27 October 2015

Deadline: 17 February 2016 17:00:00

2nd stage Deadline: 13 September 2016 17:00:00

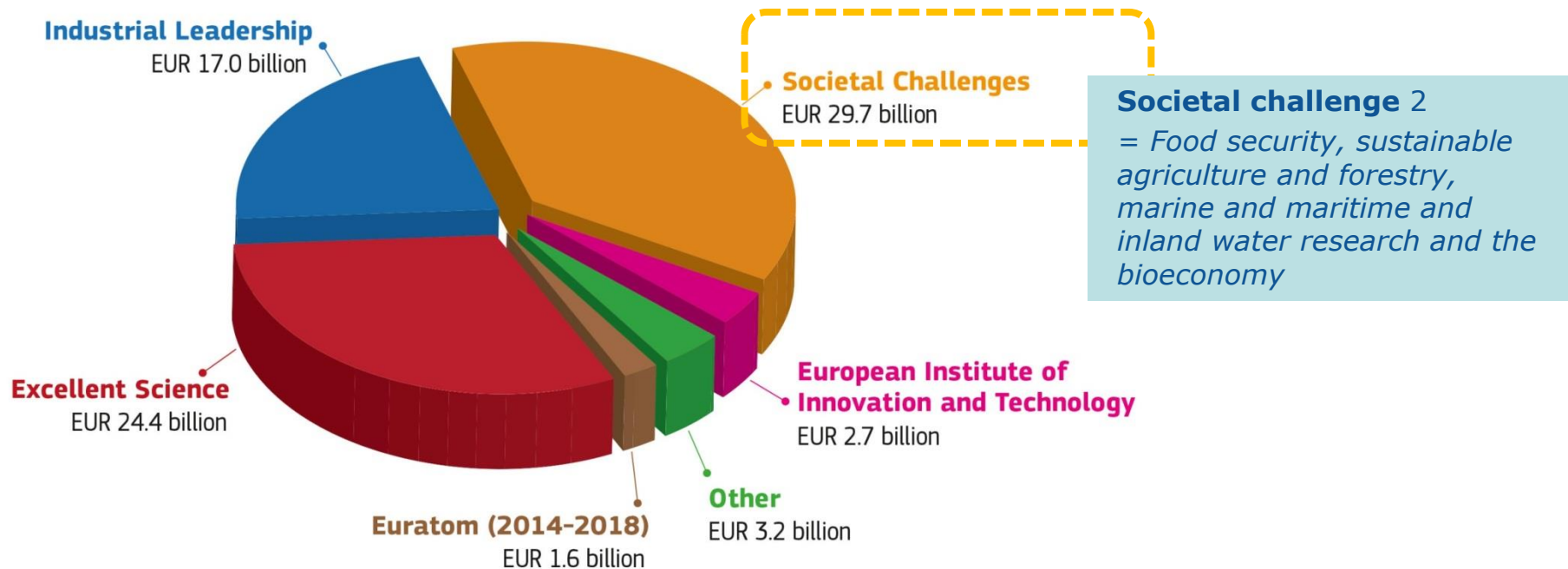
Time Zone : (Brussels time)

Topic: [SFS-02-2016:Teaming up for good: Exploiting the benefits of species diversity in cropping systems](#) Open

Publication date: 14 October 2015

HORIZON 2020 : € 79 billion from 2014 to 2020

HORIZON 2020 BUDGET (in current prices)



Societal Challenge 2 - WP 2016-17

OBJECTIVES

CALLS

delivery

Ensure Global Food Security, by more efficient and resilient primary production and related industry

Sustainable Food Security
€414M

- More resilient and resource-efficient value chains
- Environment-smart and climate-smart primary production
- Competitive food industry
- Healthy and safe food and diets

Demonstrate the innovative potential of the Oceans, by bringing technologies to the market

Blue Growth
€68M

- Innovation for emerging blue-growth activities
- Healthy Oceans for healthy people
- Ocean observing, surveying and monitoring capability

Develop rural and coastal areas, through new territorial approaches and new business models

Rural Renaissance
€128M

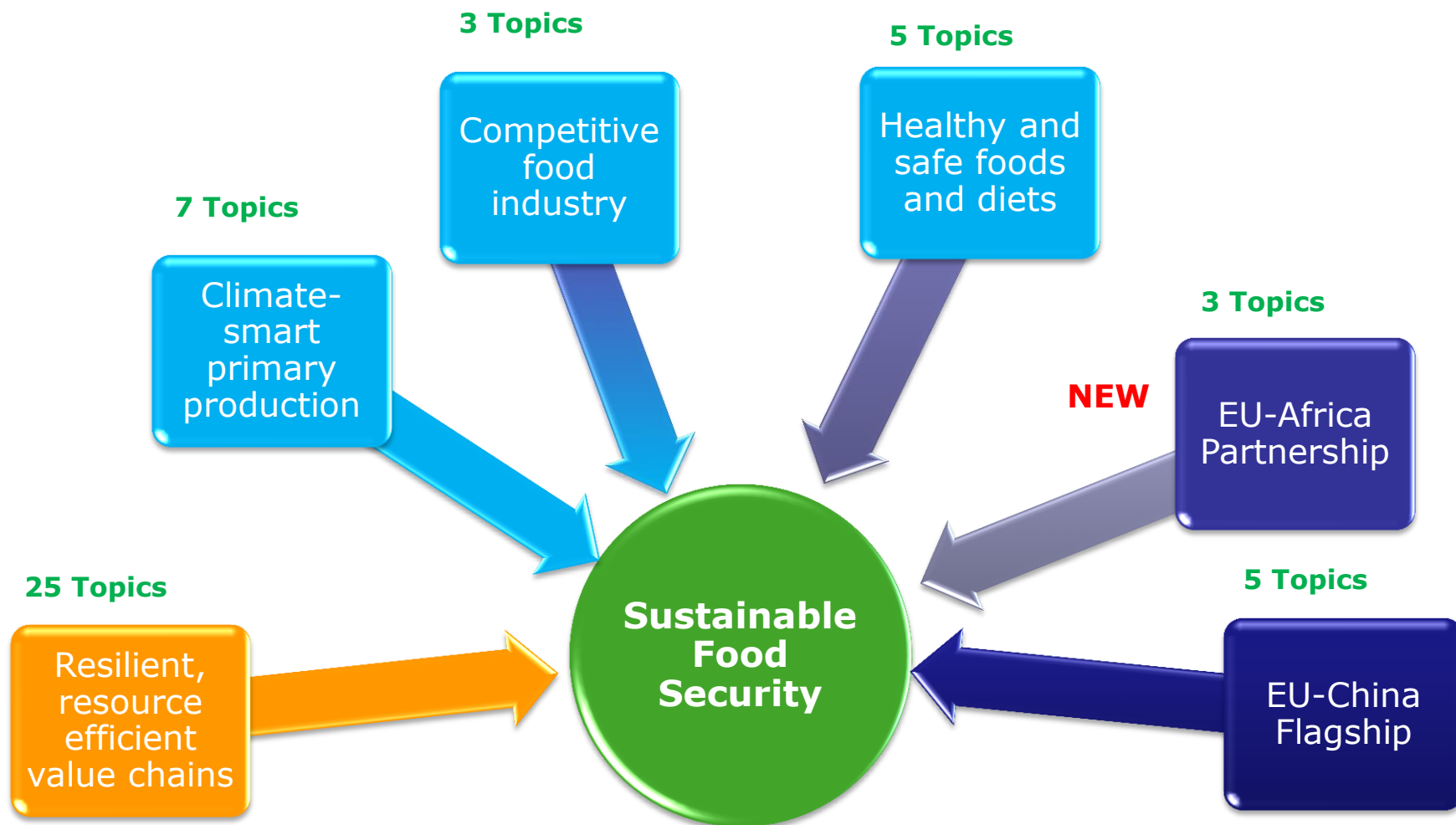
- New approaches towards policies and governance for rural areas
- New value chains and business models
- Rural innovation and skills

Re-industrialise Europe, through new bio-based value-chains, securing sustainable biomass

Bio-based innovation for sustainable goods and services - €27M

- Sustainable biomass supply
- Biobased markets of the future

Info Day – 25th Nov



Thank you



Let us work together