



Research & Innovation Strategy for Food & Nutrition Security

Building the EU Food Research Area

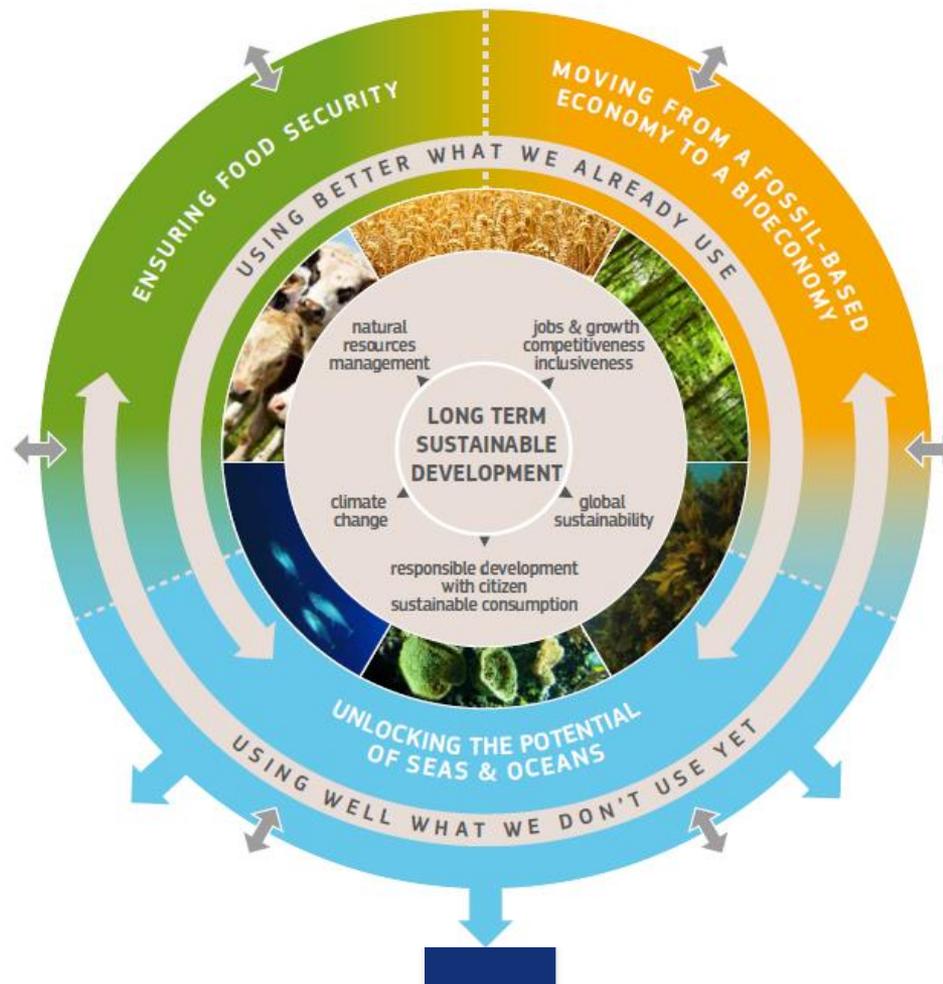
DG RTD/F3
European Commission

Food and Nutrition Security - a Growing Challenge

- Urgency & complexity: Compounded effects of population growth, urbanization, resource scarcity and climate change - affect the entire food chain in 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 by 2020, food production must increase by nearly 60%, yet 1/3 of the food we produce today is wasted.
- R&I is key to meeting the challenge of FNS

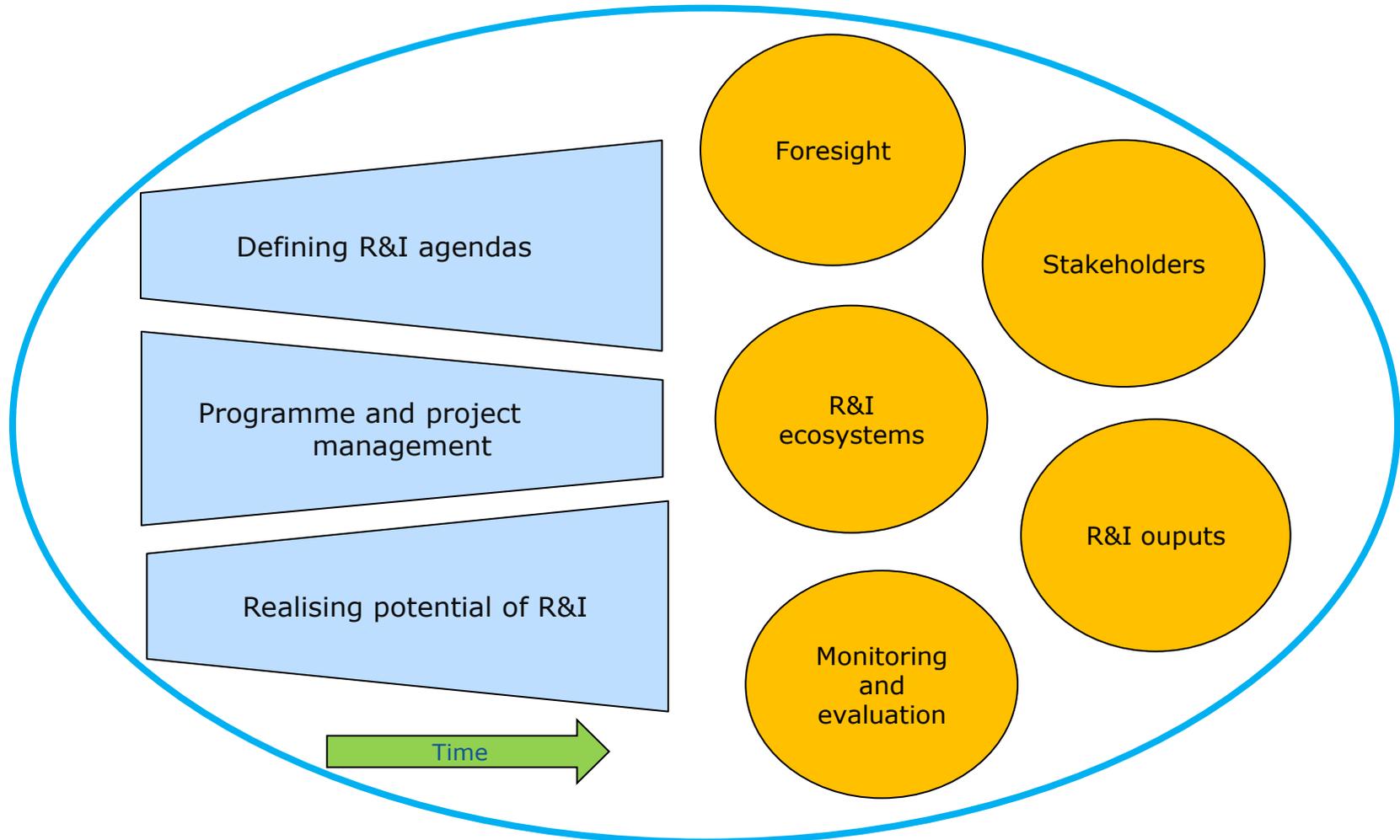


Food as part of the BIOECONOMY





"A strategic knowledge centre"





What's the problem with EU R&I?

FNS is a growing challenge, and R&I is key to finding impactful solutions to feeding the planet in a changing world, but the current EU FNS R&I landscape is:

- Fragmented and lacks policy coherence
- Underfunded
- Suffering from an innovation gap, and low speed of market take up
- Lacking cohesion & investment at industrial level
- Lacking a whole food chain approach
- Not sufficiently capitalizing on the emerging trends and advances in how we can do better science

...all of these are contributing to the low impact of R&I for FNS...thus we propose a new policy framework for more impactful EU R&I for FNS



Recent FNS Policy Developments

EXPO Milan 2015:

- > 200 EU events and EU expo Scientific Steering Committee papers called "systems approach », engagement/awareness raising, innovation for impact, international panel on FNS
- EXPO High Level Conference: Moedas (and Hogan) launched a year-long reflection & dialogue with stakeholders to design a **'Food Research Area'**

New post-2015 SDGs: a number of which directly relate to FNS

COP21 commitments: role of agriculture and food in changing climate, advancing climate and ocean agenda

Commissioner Moedas' thematic and horizontal policy priorities:

- Food, Health, Water, Energy
- Open innovation, open science, being open to the world

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"

The Aim of the FRA Strategy

[what]

→ To better structure, connect and scale-up Research and Innovation for Food and Nutrition Security in Europe, and in a global context.

[why]

→ To mobilise political support to harness increased public & private investment in R&I for FNS

- In view of MFF deliberations for post-Horizon 2020 EU financing
- Throughout the European food-related industries

→ For more impactful R&I outcomes to help us tackle FNS - a major societal challenge in a changing world, and to deliver on growth and jobs in Europe.

[How-structure]

→ By applying structural reforms to the EU R&I system to achieve greater policy coherence

R&I governance: strengthening DG RTD's leadership role by convening relevant internal services, MS and stakeholders for R&I programme alignment and leveraging of funds

[How-connect]

→ By Providing a "whole food chain" policy narrative to connect *land & sea, farm-to-fork-to-gut, producer-to-consumer* for a food systems approach to R&I

[How-scale-up]

→ By boosting digital and open science & innovation, education, skills and capacities



The FRA Overarching Priorities

FRA will structure R&I systems to better contribute to 4 overarching FNS priorities:

1. Reducing hunger & malnutrition, food and diet-related illnesses, and helping citizens adopt sustainable diets and healthy lives
2. Building a climate and global change-resilient primary production system
3. Implementing safety and circular economy principles across the whole food system
4. Boosting innovation and investment, while empowering communities

Deliver

FRA Strategy document

- Policy framework
- Governance
- Mobilization of actors



FRA Action Plan for delivering on:

- Research Breakthroughs
- Open Innovation, demonstration and investment
- Open Science, education and skills
- Global collaboration & alignment



FRA Conference to be held on 13 Oct 2016

FNS International R&I Forum (as 'food chapter' of IBF)





Align

Bioeconomy Strategy (FRA as 'food pillar' of Bioeconomy Strategy)

Agricultural R&I Strategy (primary production priority of FRA)

Bluegrowth Strategy (marine, aquaculture and seafood component of FRA)

R&I Strategy for Development Cooperation

Circular economy package (link to FRA for sustainability across entire food chain, sustainable production and consumption, food waste, etc)

Etc...and delivering on key international policies: SDGs, COP21, etc...

Engage

Mobilize the following actors:

- EC Services (RTD, AGRI, DEVCO, SANTE, GROW, MARE, ENV, EAC, JRC)
- EP (MEP, STOA, EP Committees) and Committees (CoR, EESC)
- EU MS R&I public funding & policy making bodies (SCAR, JPI, PC)
- EU public authorities (regions & cities)
- The EU Industry, investors, foundations
- International bodies (ex: FAO, OECD) & initiatives (CGIAR, SUN)
- EU proximity countries (Africa, Prima), other INCO & third countries
- Educators and administrators of schools and HEI
- NGO/CSO, professionals, entrepreneurs, researchers, students, civil society

Governance for greater EU R&I policy coherence

- Strengthening inter-service dialogue and knowledge exchange
- Joint mapping of existing and design of future FNS R&I actions across services
- Reinforced interactions with MS via SCAR and JPIs for public sector R&I policy alignment

Long Term

Increase investment & EU Competitiveness of food-relevant industry

- Reinforced interactions with Industry and private sector will have raised R&I investment in the FNS value chain, and spurred new business models
- Improved capacities and access to data for more and better downstream products and services
- Skills-building for a strong labour force: the 'food scientists' of tomorrow

Improve sustainability

- Through an improved Science-Policy Interface, EU policies relevant to FNS will implement sustainability, safety, circularity, diversity, and seek to balance innovation with precaution.
- Food industry will further integrate sustainability and circularity principles
- European citizens/consumers will adopt more sustainable diets and will waste less

Improve nutrition and less NCD

- European citizens/consumers will adopt healthier diets due to increased nutrition literacy by having more and better access to STEM education, information and knowledge, food products and services



Stakeholder Engagement

The FRA draft strategy will be shared and debated with stakeholders during the course of 2016 via workshops, events and & an on-line public consultation

...and formally launched on 13th October, prior to World Food Day 2016
...so stay tuned!



Thank you

