

FOOD 2030

A R&I Policy Framework to Future-Proof our Food Systems

EU Platform on Food Losses and Food Waste (FLW)

Brussels, 6 December 2018



Karen FABBRI

Head of Sector

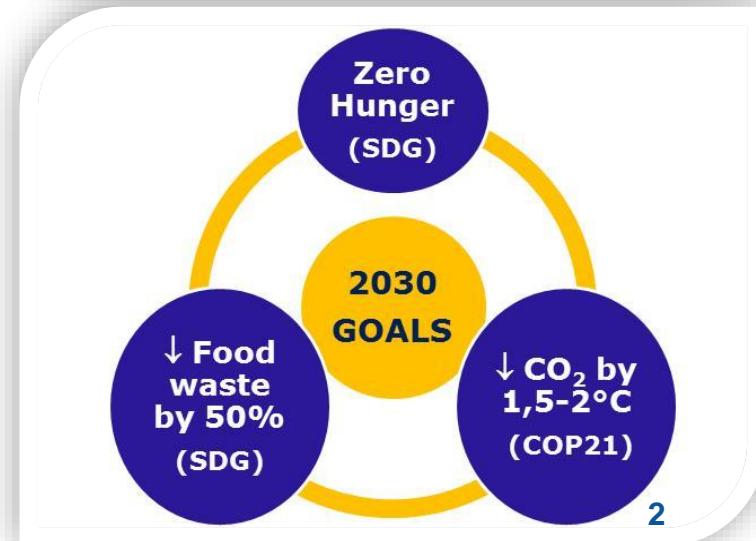
RTD.F.3 Agri-Food Chain

Directorate F - Bioeconomy

DG Research & Innovation

European Commission, Brussels

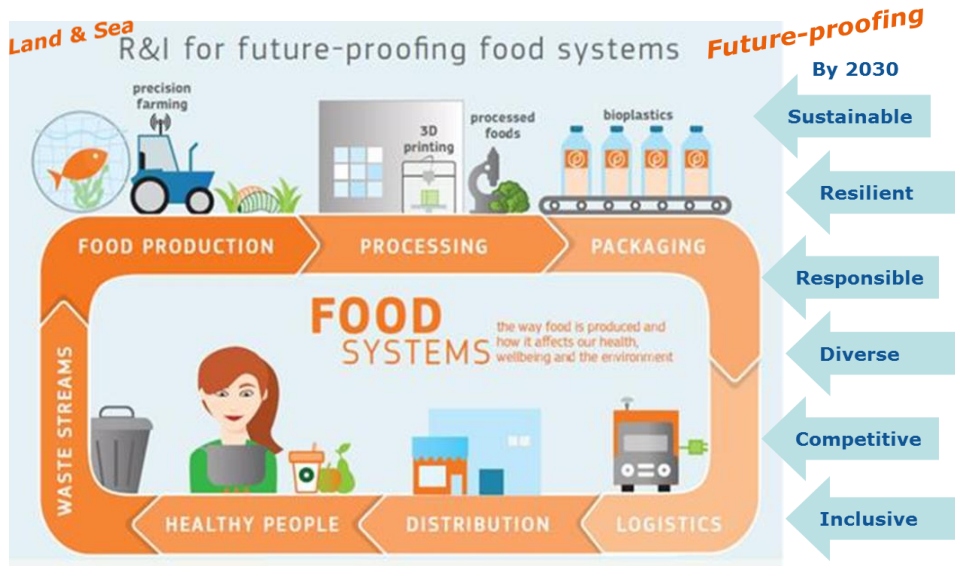
A "Perfect Storm"





FOOD 2030

EU R&I Policy Framework to future-proof our nutrition & food systems



- Need for a systemic approach to future-proofing food systems by structuring, connecting and scaling-up R&I
- To provide **evidence** for policies and **solutions** (knowledge, methods, technologies, services, business models, etc) addressing 4 priorities.

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**

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



FOOD 2030 key achievements

Research & Innovation for Food and Nutrition Security
– Transforming our food systems
2nd High-Level Event, 14-15 June 2018, Plovdiv (BG)



**FOOD 2030 European Parliament event with
FAO on World Food Day**
16 Oct 2018, Brussels

**FOOD 2030 Workshop with DG SANTE at Austrian Presidency
Conference**
22-23 Nov 2018, Vienna

ROADMAP
expected

FOOD 2030 EG



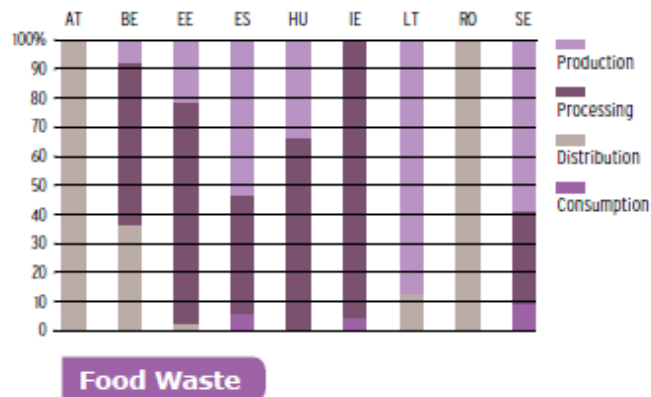
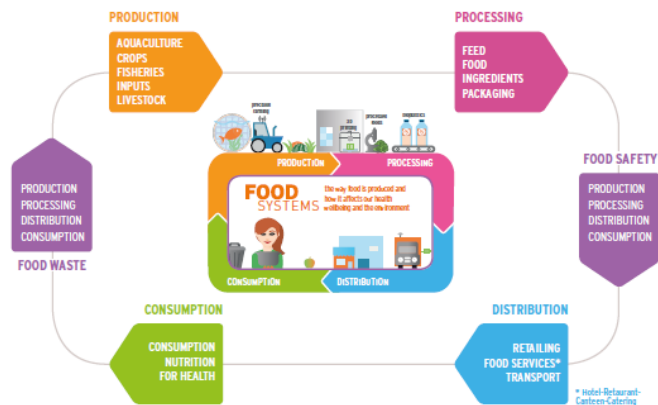
A. Improve dietary patterns and lifestyles for a 50% reduction in the incidence of non-communicable diseases (NCD) in 2030, while reducing the environmental impact of food consumption

B. Create a resource-smart food system with 50% lower greenhouse-gas emissions by 2030

C. Realise trust and inclusive governance for a resilient and safe food system



SCAR FS WG



Fit4FOOD2030 Engagement Platform

Fit4FOOD2030: Support the EC to further develop and implement the FOOD 2030 policy framework & actions (2018-2020)



*1. **EU Think Tank** to link EC and Member States & Associated Countries, with a global outreach*

- **Policy briefs**

*2. **Policy Labs** to increase & align public/private R&I policies/programs on FNS, building on and expanding existing national/regional networks;*

- **Netherland, Italy, Hungary, Norway, Romania, Flanders**

*3. **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.*

- **Amsterdam, Milan, Budapest, Barcelona, Athens, Sofia, Tartu in Estonia**

Horizon 2020 & Horizon Europe

The EU Framework Programmes
as **implementation tools** for FOOD 2030

- **Horizon 2020**
WP calls
- **Horizon Europe**
discussions ongoing in parallel to Multi-Annual Financial Framework



“Integrated system innovation in valorising urban biowaste” € 20 million

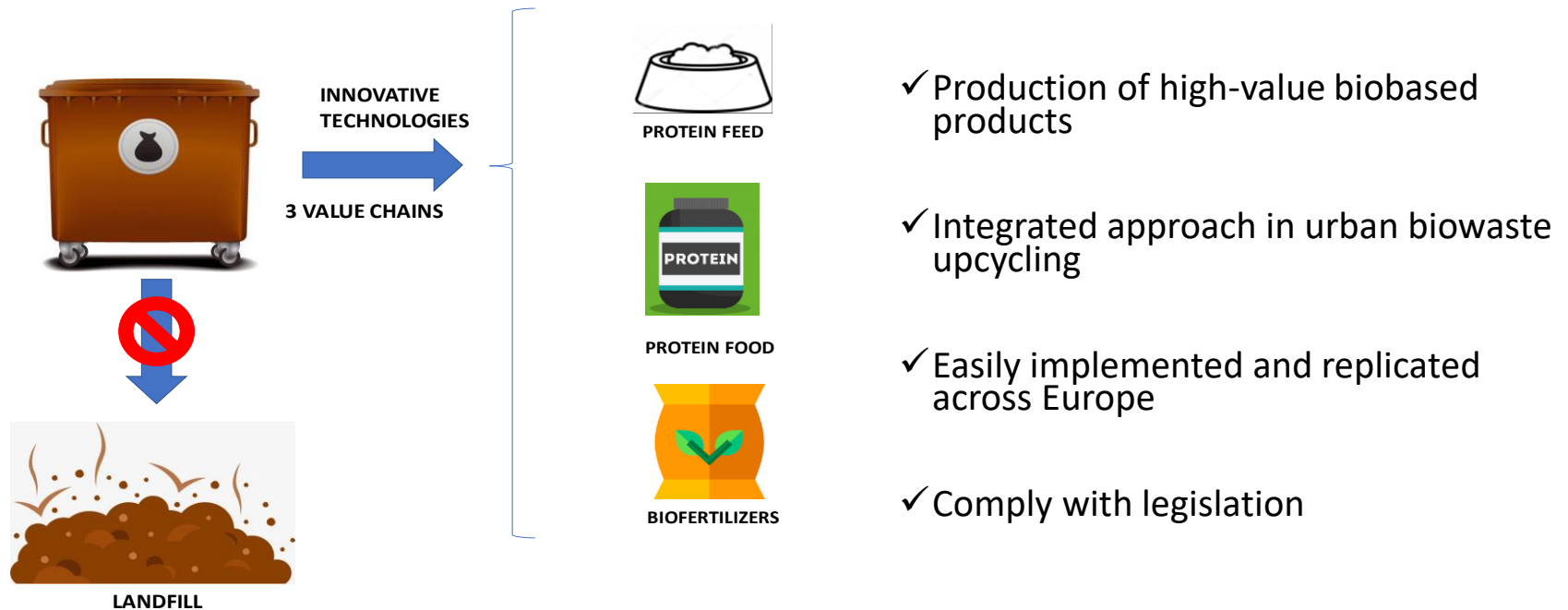
Scope:

- ❖ Urban biowaste **recycling and valorisation**
→ high added-value products
(including proteins for food and feed)
- ❖ Integration into existing local
waste/wastewater management schemes
- ❖ **Life Cycle Assessment** of the entire value chain:
 - behaviour & stakeholders participation

Expected impacts:

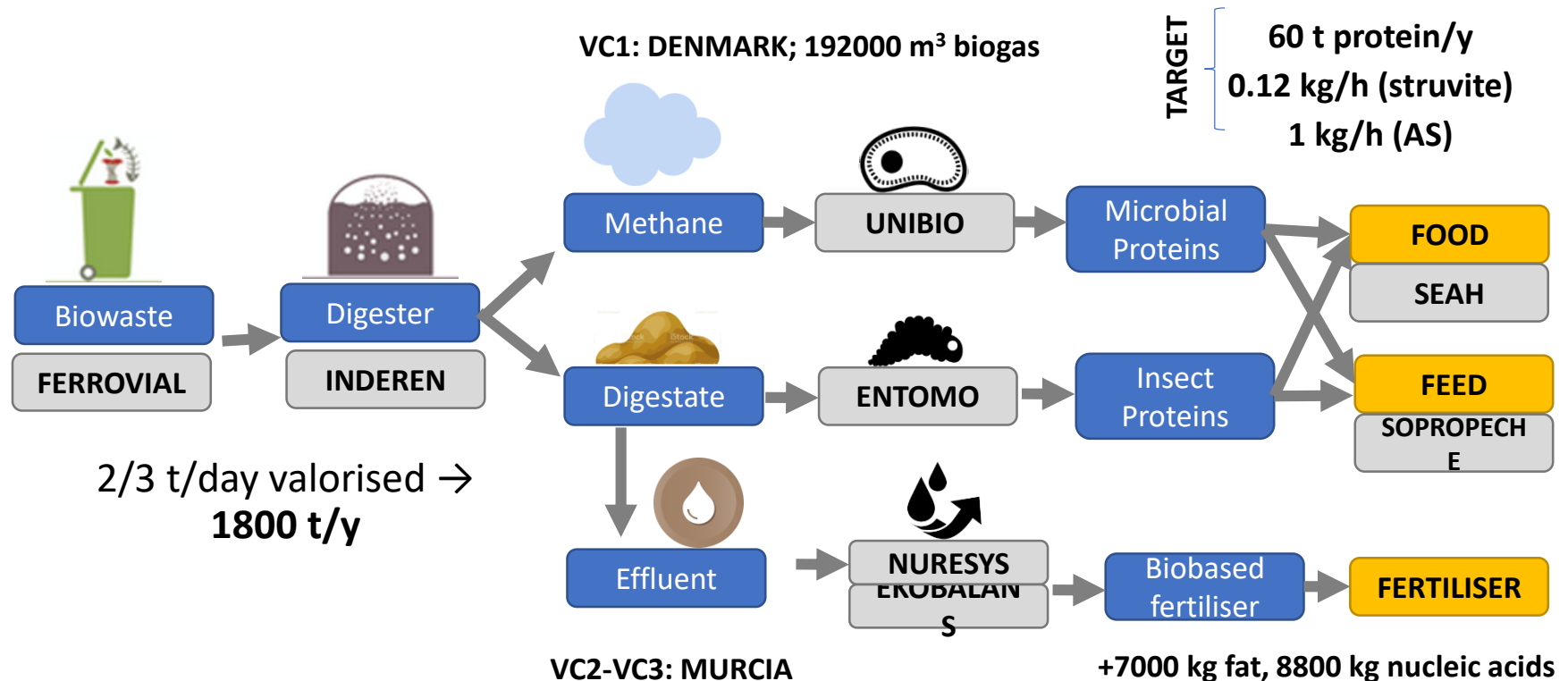
- ❖ Improved perception of **citizens** on urban biowaste as a local resource and their enhanced active participation in waste separation;
- ❖ A more **sustainable** and resiliente **protein supply chain**;
- ❖ **Safety assessment** of bio-bases processes and products from urban biowaste;
- ❖ **Reduced** amount of urban biowaste;

The VALUEWASTE approach



VALUEWASTE challenge: To find new sources of value-added products for the EU through the full valorisation of biowastes in a cascading approach that can be easily replicated across Europe

Value chains in detail



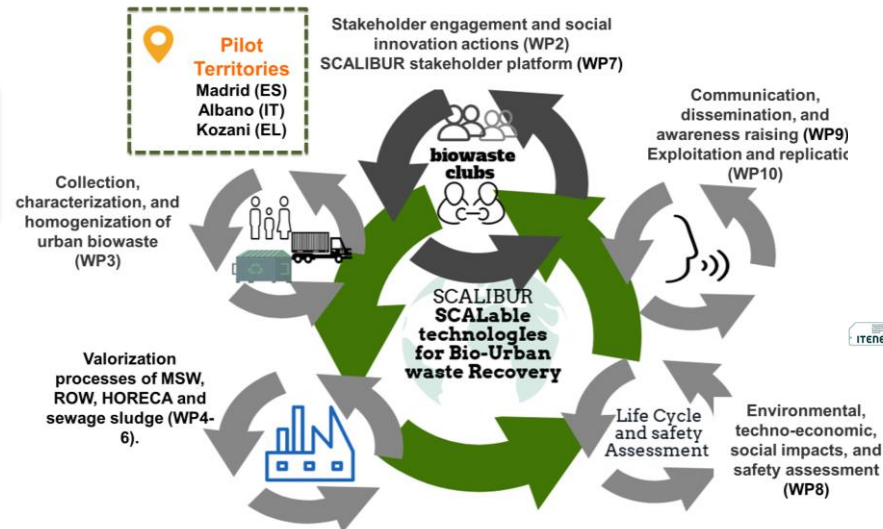


CHALLENGES

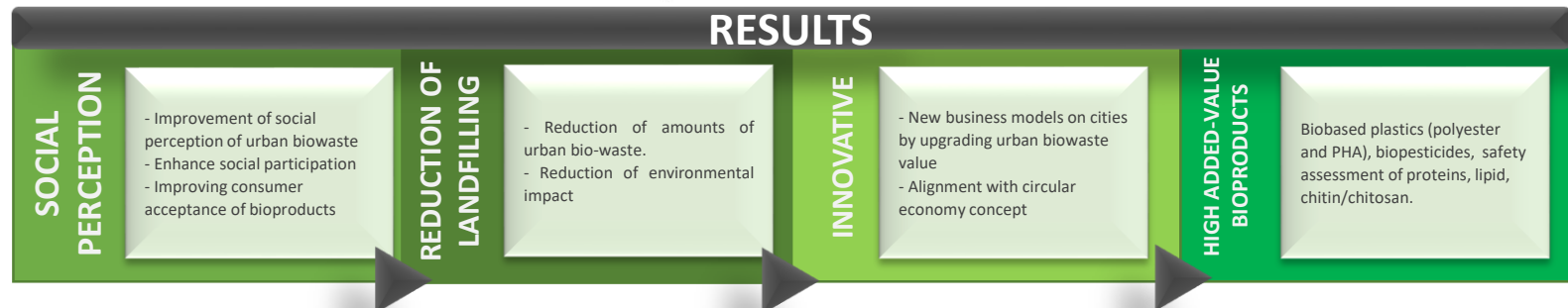
- 100 M tonnes/year of biowaste.
- >75% is landfilled or incinerated
- ECONOMIC IMPACT – 143 billion euros cost its management
- ENVIRONMENTAL IMPACT: GHG emission, soil and groundwater contamination...

MAIN OBJECTIVE

Innovative systems and technologies to obtain high-value biobased products from municipal solid waste (MSW), urban sewage sludge (USS) and retail organic waste (ROW)



RESULTS



2019-2020 Calls



2019

- *"Innovative and citizen-driven food system approaches in cities" (15M x 2)*

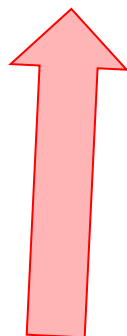
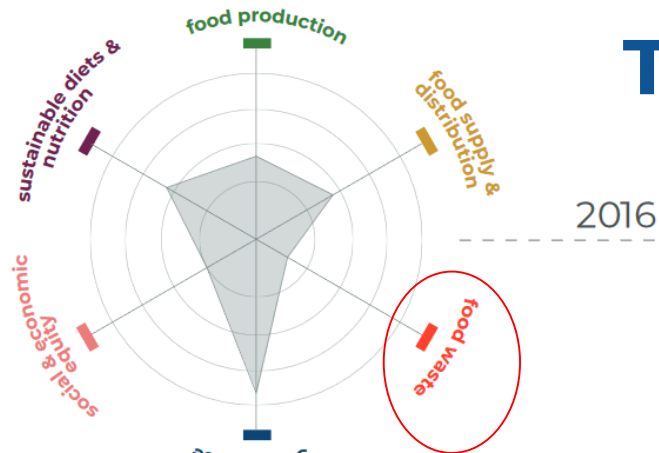
2020

- 40M for a potential topic on cities

The MUFPP

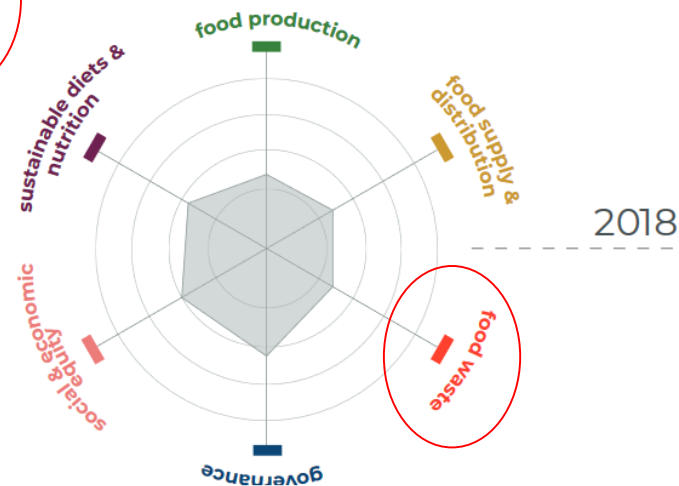
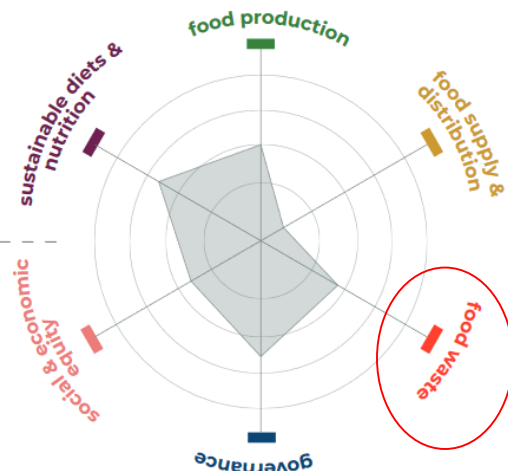


The categories



2016

2017



2018



Best practices



FOOD WASTE

Belo Horizonte | BRAZIL

Bruges | BELGIUM

Ghent | BELGIUM

Hebron | WEST BANK & GAZA STRIP

Milan | ITALY

Quelimane | MOZAMBIQUE

Riga | LATVIA

Horizon Europe: evolution not revolution

Specific objectives of the Programme

Support the creation and diffusion
of high-quality knowledge

Strengthen the impact of R&I
in supporting EU policies

Foster all forms of innovation and
strengthen market deployment

Optimise the Programme's delivery for impact in a strengthened ERA



Pillar 1 Open Science

European Research Council

Marie Skłodowska-Curie Actions

Research Infrastructures



Pillar 2 Global Challenges and Industrial Competitiveness

Clusters

- Health
- Inclusive and Secure Society
- Digital and Industry
- Climate, Energy and Mobility
- Food and natural resources

Joint Research Centre



Pillar 3 Open Innovation

European Innovation Council

European innovation ecosystems

European Institute of Innovation
and Technology

Strengthening the European Research Area

Sharing excellence

Reforming and Enhancing the European R&I system

PILLAR 2

GLOBAL CHALLENGES & INDUSTRIAL COMPETITIVENESS:

boosting key technologies and solutions underpinning
EU policies & Sustainable Development Goals

Clusters implemented through usual calls, missions & partnerships	Budget (€ billion)
Health	€ 7.7
Inclusive and Secure Societies	€ 2.8
Digital and Industry	€ 15
Climate, Energy and Mobility	€ 15
Food and Natural Resources	€ 10
Joint Research Centre supports European policies with independent scientific evidence & technical support throughout the policy cycle	€ 2.2



FOOD AND NATURAL RESOURCES

WHY A SINGLE CLUSTER?

- To address the **interlinked challenges** of eco-systems, health of our planet, sustainable agricultural, forest and marine production, and sustainable consumption
- Strong linkages with **key EU programmes and SDGs**
- Bringing together the concepts of:
circular economy, bioeconomy and blue economy,
with a coherent contribution of R&I to EU policies in these areas
- Mainstreaming a **participatory approach** to R&I, working on the overall **system**, and exploitation of big data

FOOD AND NATURAL RESOURCES INTERVENTION AREAS IN KEY WORDS

Food systems (SP Annex I, 5.2.5)

- **Food systems transformation**
environmentally sustainable, circular and resource efficient food systems from land and sea;
- Healthy **diets** and personalised nutrition;
- Food **safety** and authenticity;
- Consumer **behaviour**, lifestyle and motivations for better health and environmental sustainability along the food value chain

CIRCULAR BIOECONOMY CITIES

2018 EU BIOECONOMY STRATEGY



- Cities as '**major circular bioeconomy hubs**'
- **(urban) biowaste** as an important source of feedstock

HOWEVER, circular bioeconomy **policies** directly implemented by European cities are still **limited**

→ **Action on pilot circular bioeconomy cities**
to support the draft and implementation of urban circular bioeconomy

Thank You



Website FOOD 2030:

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

Twitter: #FOOD2030EU

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