

# 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

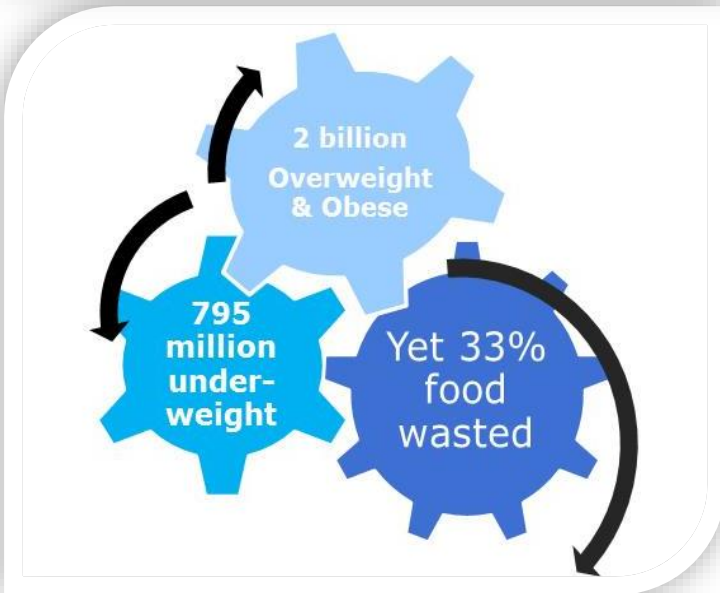


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European  
Commission

# 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	
	<b>NUTRITION</b> for sustainable and healthy diets
	<b>CLIMATE</b> smart and environmentally sustainable food systems
	<b>CIRCULARITY</b> and resource efficiency of food systems
	<b>INNOVATION</b> and empowerment of communities
Drivers	
	<b>Research breakthroughs</b>
	<b>Innovation and Investment</b>
	<b>Open Science</b>
	<b>International collaboration</b>

#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**  
**2<sup>nd</sup> 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



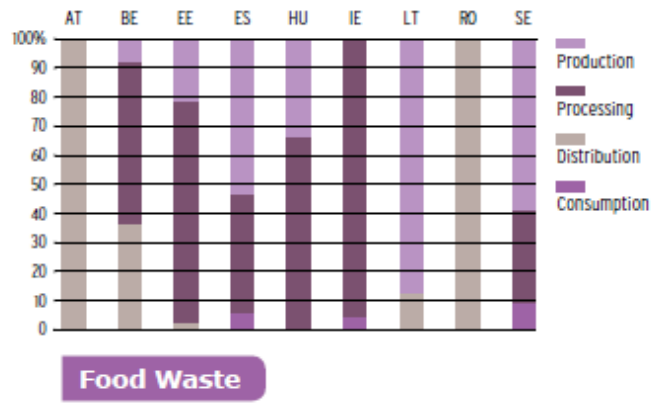
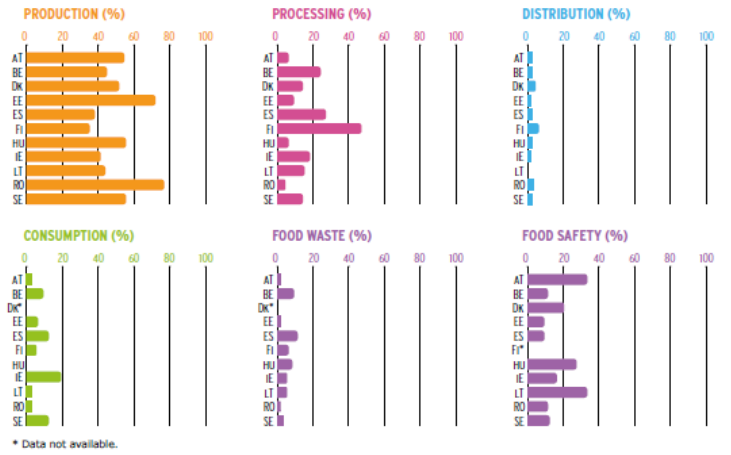
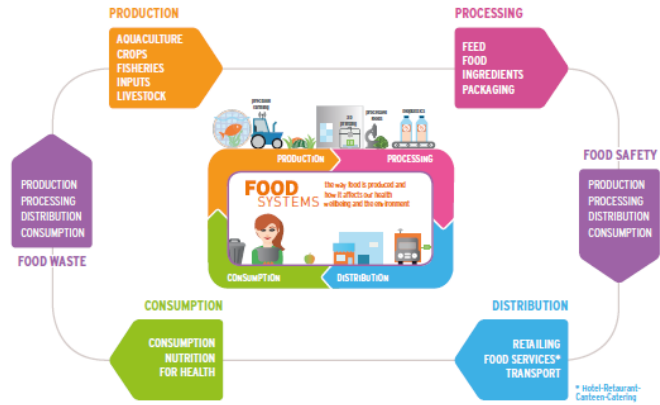
A. Improve dietary patterns and lifestyles for a 50% reduction in the incidence of non-communicable diseases (NCD) in 2030, while reducing the environmental impact of food consumption

**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

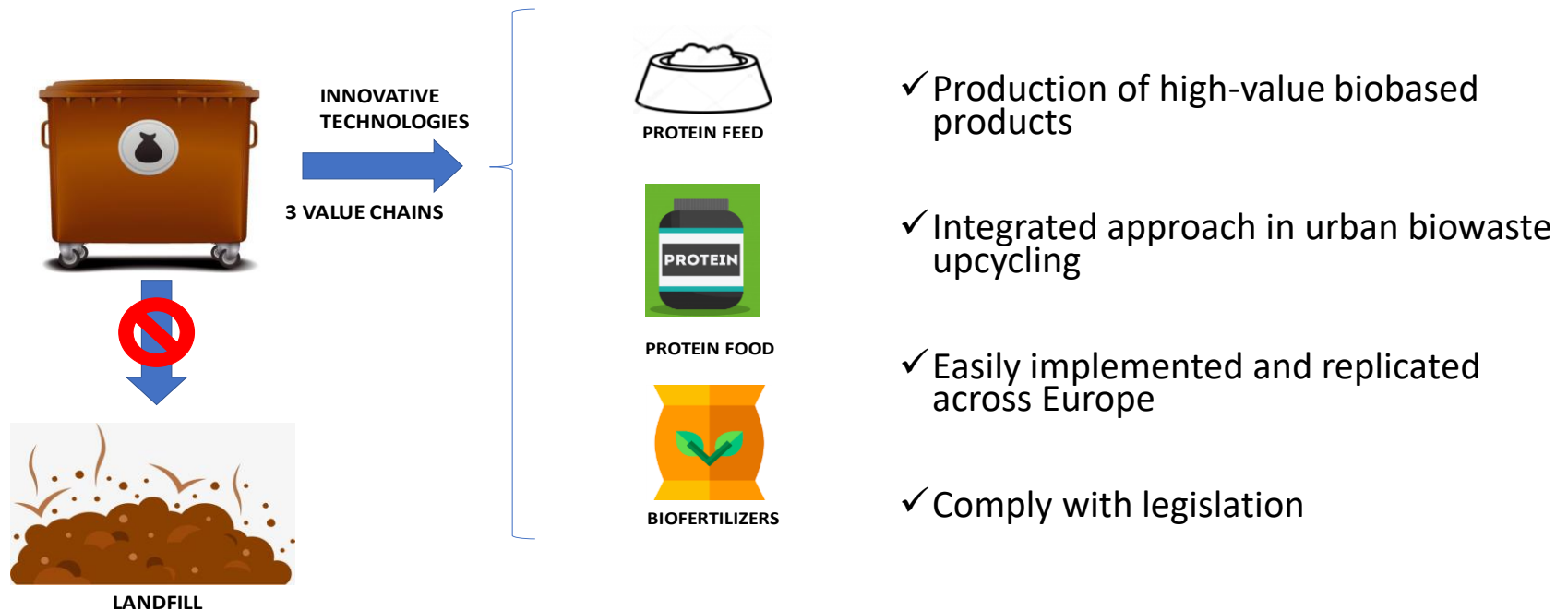
### Scope:

- ❖ 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:

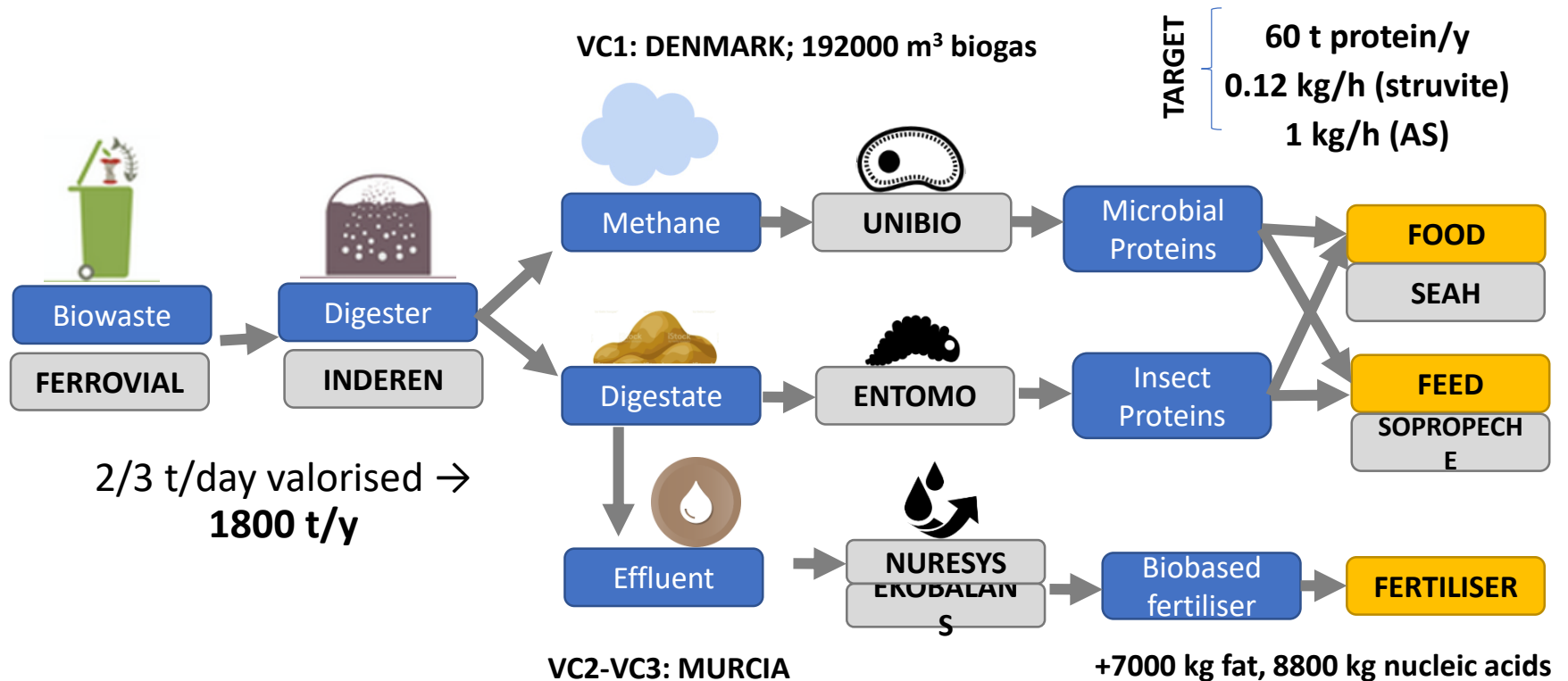
- ❖ Improved perception of **citizens** on urban biowaste as a local resource and their enhanced active participation in waste separation;
- ❖ A more **sustainable** and resilient **protein supply chain**;
- ❖ **Safety assessment** of bio-bases processes and products from urban biowaste;
- ❖ **Reduced**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





GA N°  
817788

# SCALIBUR



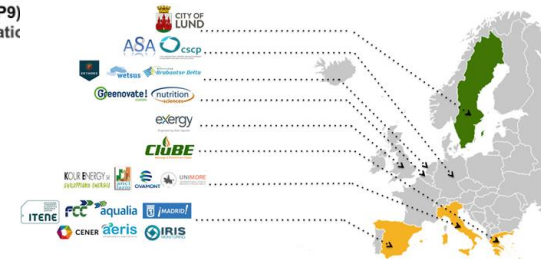
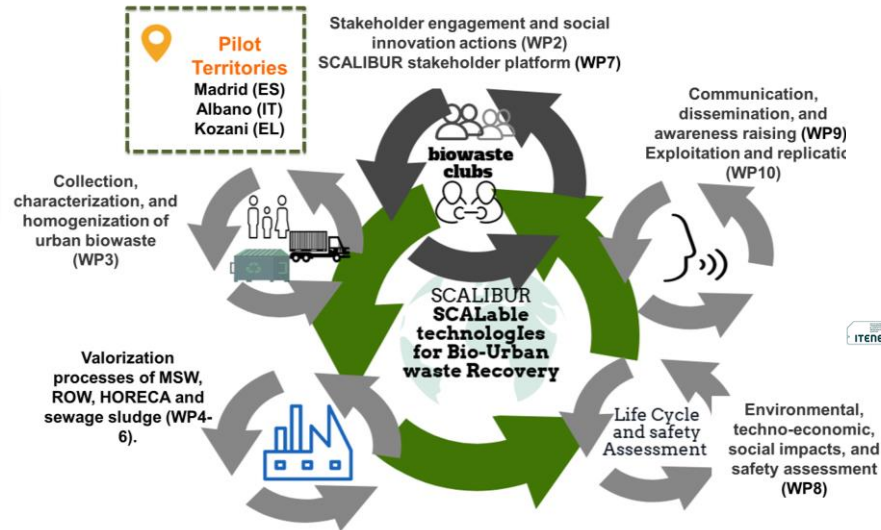
## SCALable Technologies for Bio-Urban waste Recovery

### CHALLENGES

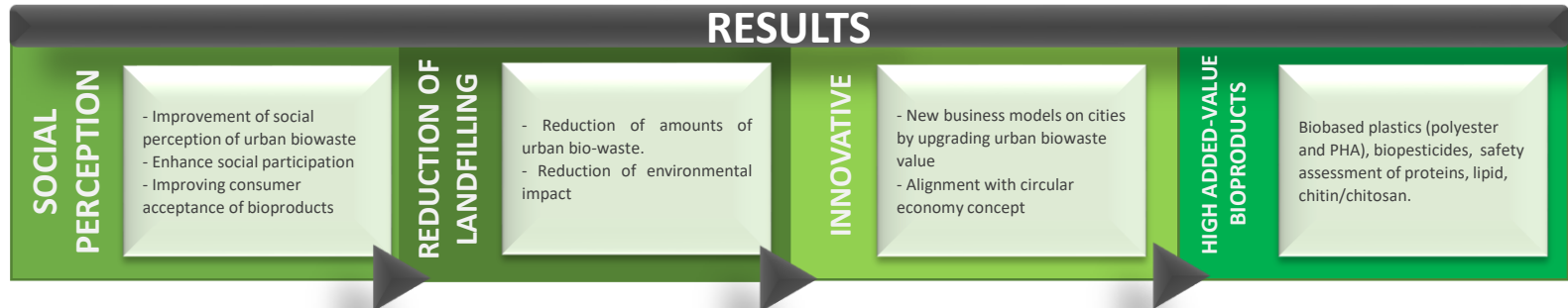
- 100 M tonnes/year of biowaste.
- >75% is landfilled or incinerated
- **ECONOMIC IMPACT** – 143 billion euros cost its management
- **ENVIRONMENTAL IMPACT:** GHG emission, soil and groundwater contamination...

### 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)

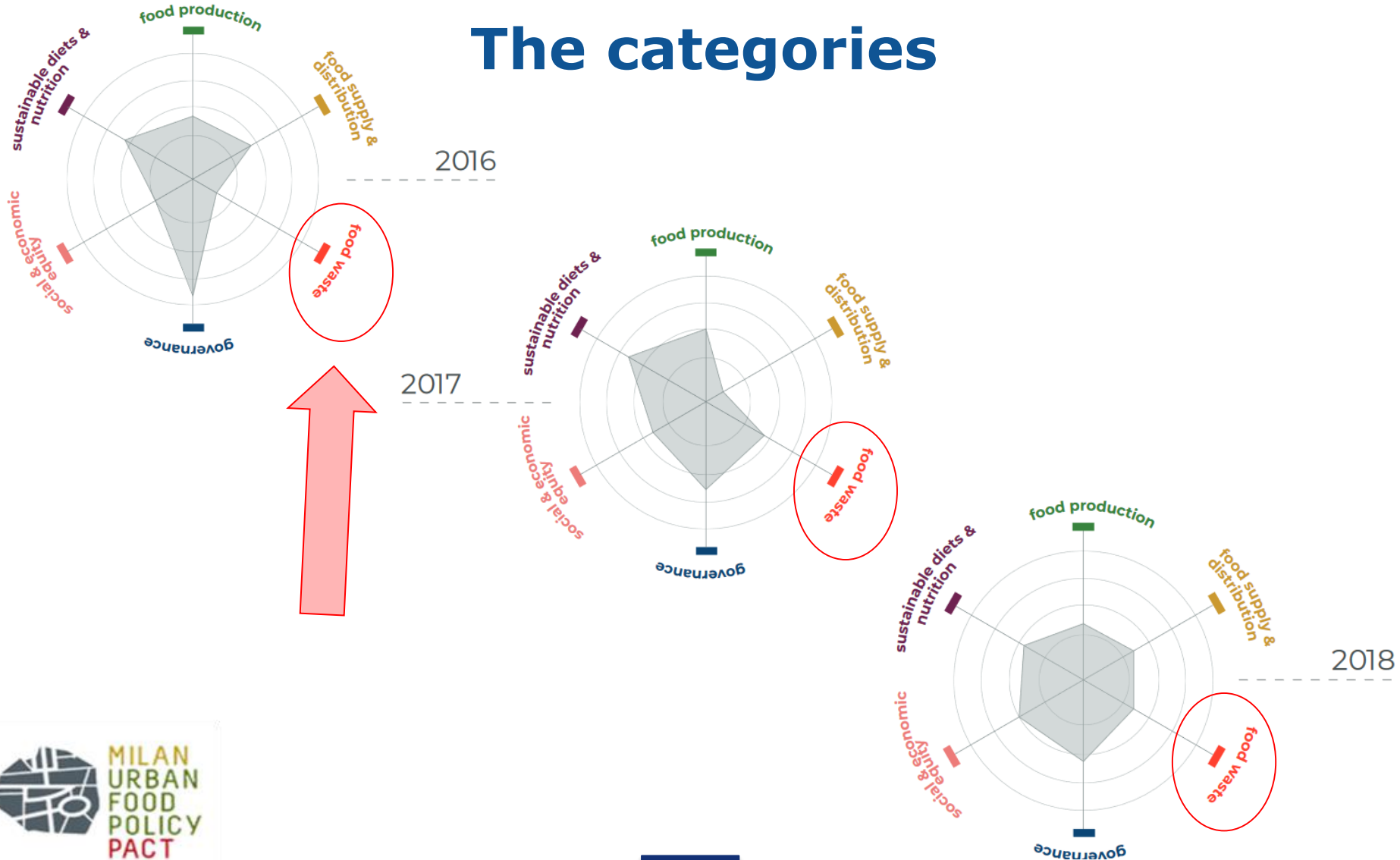
2020

- 40M for a potential topic on cities

# The MUFPP



## The categories





## 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

<b>Clusters</b> implemented through usual calls, <b>missions &amp; partnerships</b>	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
<b>Joint Research Centre</b> 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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