



# La strategia Europea per la Bioeconomia

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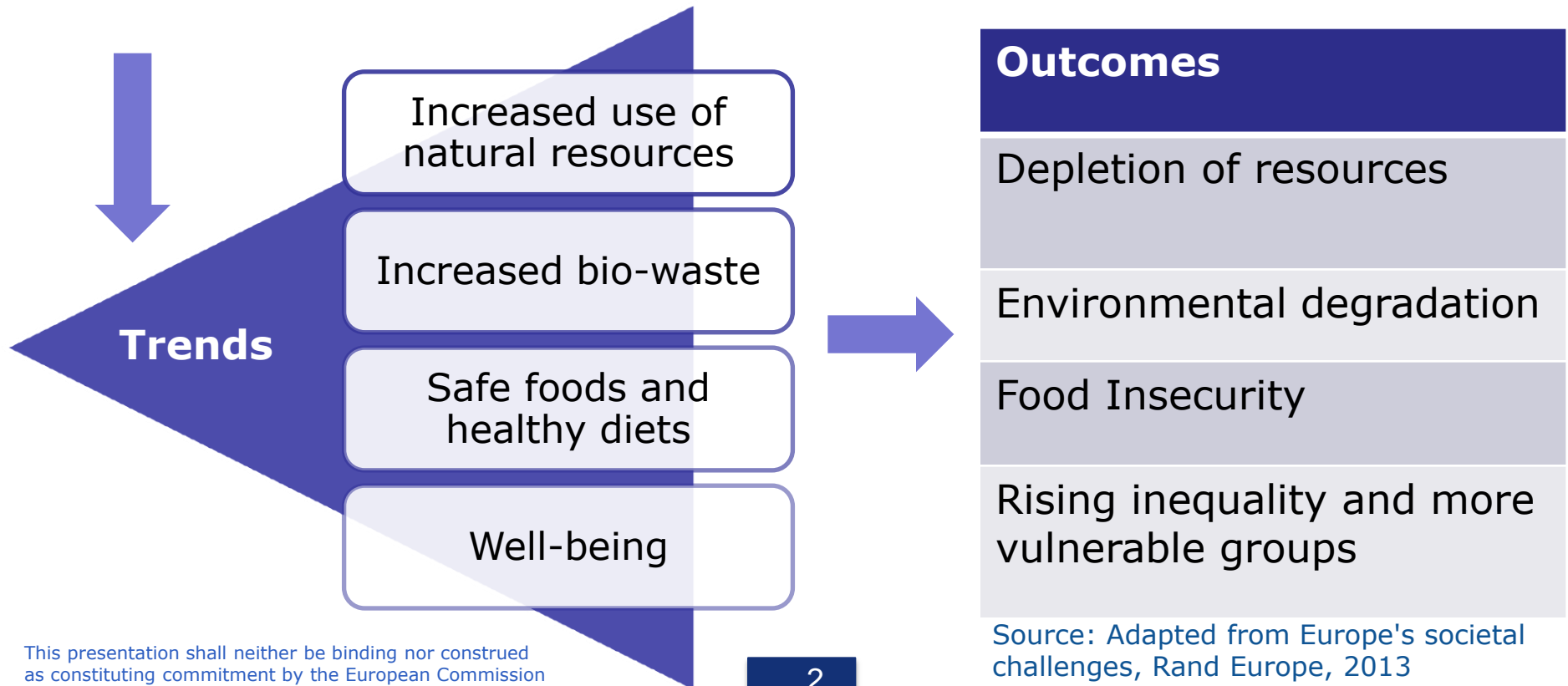
Research and  
Innovation

# Tackling New Trends



## CROSS-CUTTING DRIVERS

Economic growth	Job creation	Demographic change
Sustainability	Innovation in technologies	Food security



# Bioeconomy Strategy And Action Plan



In the framework of **Europe 2020**, the Strategy "**Innovating for Sustainable Growth: a Bioeconomy For Europe**" promotes sustainable production of renewable resources from land and sea and their conversion into food, bio-based products, biofuels and bioenergy.

**INVESTMENTS IN RESEARCH,  
INNOVATION AND SKILLS**

**REINFORCED POLICY INTERACTION  
AND STAKEHOLDER ENGAGEMENT**

**ENHANCEMENT OF MARKETS AND  
COMPETITIVENESS IN BIOECONOMY  
SECTORS**

EU Institutions

Member States  
and Regions

Stakeholders  
public & private sectors

International  
partners &  
organisations

## Europe 2020

Innovation Union

European  
Research Area

Horizon  
2020

Responding to  
the economic  
crisis to invest  
in **future jobs  
and growth**

Addressing  
**people's  
concerns** about  
their livelihoods,  
safety and  
environment

Strengthening  
the **EU's global  
position in  
research,  
innovation and  
technology**

 **H2020 is designed to help bring ideas to the market**

## Planning and executing synergies





## policy analysis

- Methodological frameworks, impact assessment of rural development policies, regional dimension

**Axis 1: Improving  
the competitiveness  
of the agricultural  
and forestry sector**

## support frameworks

- Rural areas and agriculture, future crops, forestry, sustainable agri-food systems

**Axis 2: improving  
the environment  
and the countryside**

## economic modelling

- Comparative analysis of factor markets, sustainable (peri)urban food provisioning, learning and innovation networks

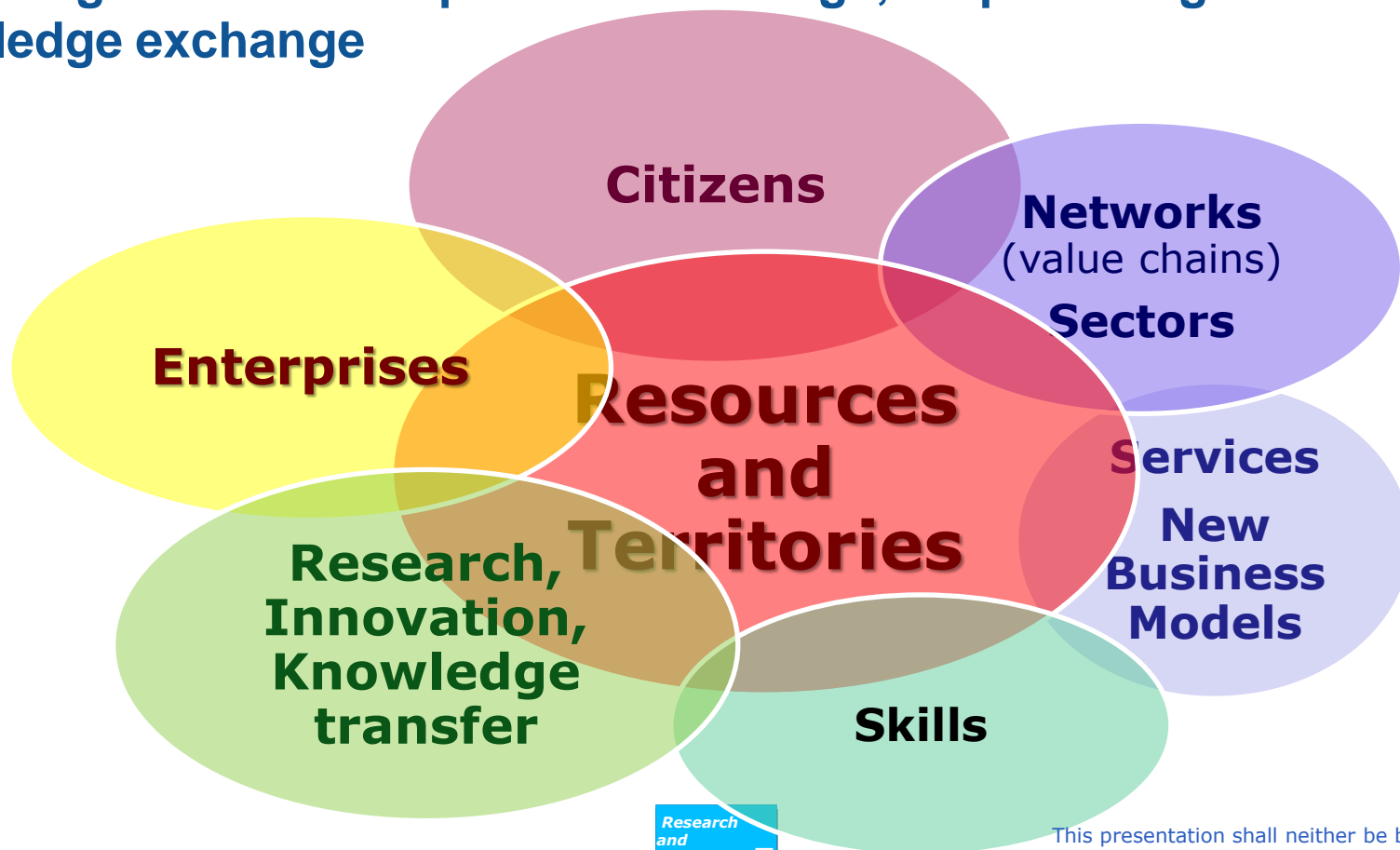
**Axis 3: quality of  
life in rural areas  
and diversification  
of the rural  
economy**

**15 projects  
€34 M**



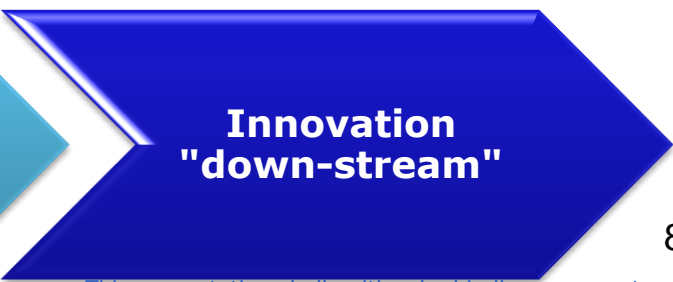
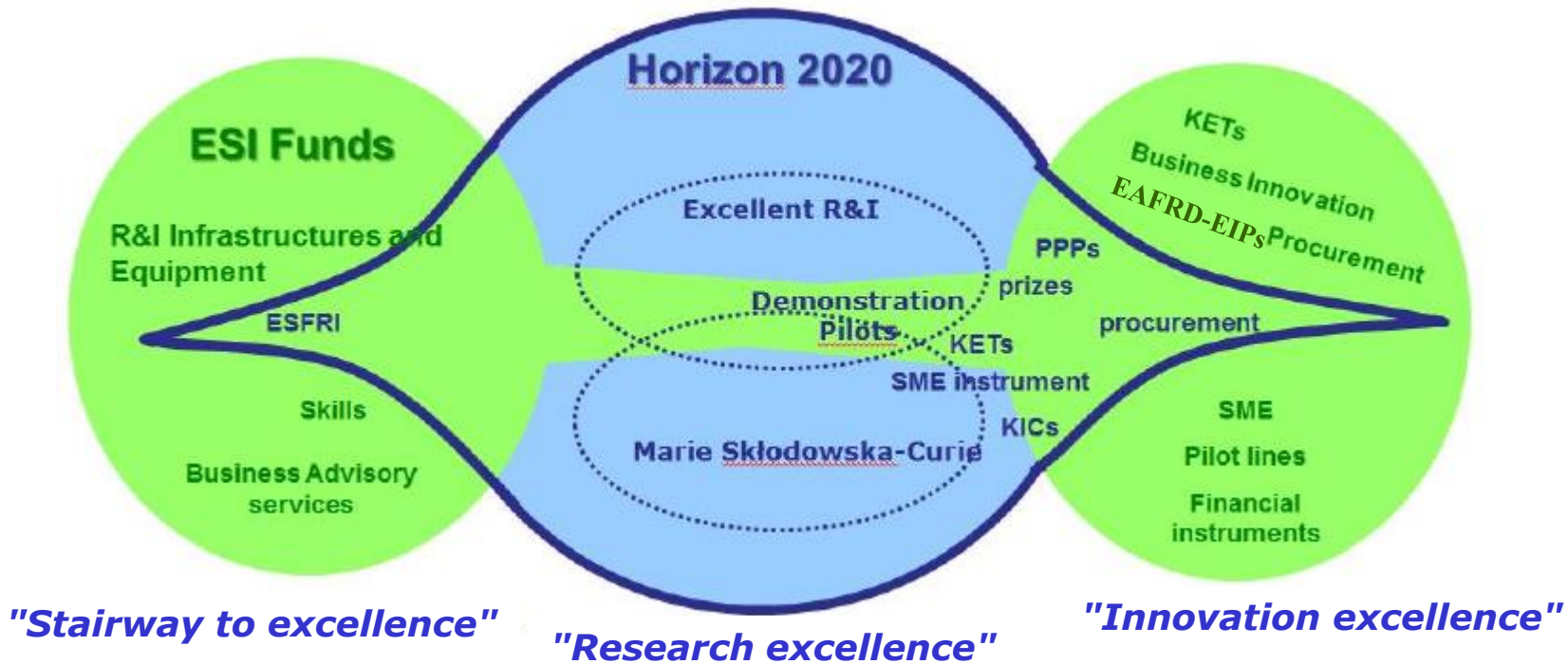
## A Smart Specialisation

Enterprises as well as territories concentrating resources on the most promising areas of competitive advantage, emphasizing an inter-sectoral knowledge exchange






## Planning and executing synergies





## Horizon 2020 and ESIF: co-funding synergies

- 
- bringing together funds in the same project - a single action or a group of coordinated actions
  - Through successive projects that build on each other
  - Through parallel projects that complement each other



**no double  
funding in  
the same  
expenditure  
item**

## Bio-based Industries JTI - General Principles

Clear and  
ambitious  
objectives

- contributing directly to competitiveness goals
- and EU policy

Governance

- to ensure openness to new participants
- the allocation of funding on the basis of excellence
- and efficient links with national activities

Simple

- implementation structures
- and rules for participants

Strong

- commitments from industry
- including substantial financial commitments

## Objectives: Integrated value chains

### Feedstock

**Fostering a sustainable biomass supply and building new value chains**

### Biorefineries

**Optimising efficient processing through R&D and upscaling in large-scale demo/flagship biorefineries**

### Markets, products and policies

**Developing markets for biobased products and optimising policy frameworks**

# Biomass availability: main open issues

## **Sustainable production criteria for all end uses**

**Massive challenge –  
including (but not  
only) because of the  
methodological  
difficulties around  
ILUC.**

## **Data quality - Production**

**Cover EU production  
and potential imports  
from outside the EU  
– but good data from  
outside the EU is  
often very hard to  
find**

## **Methodology for waste streams**

**The bioeconomy is  
partly circular, so  
purely linear  
input/output models  
are not sufficient.**

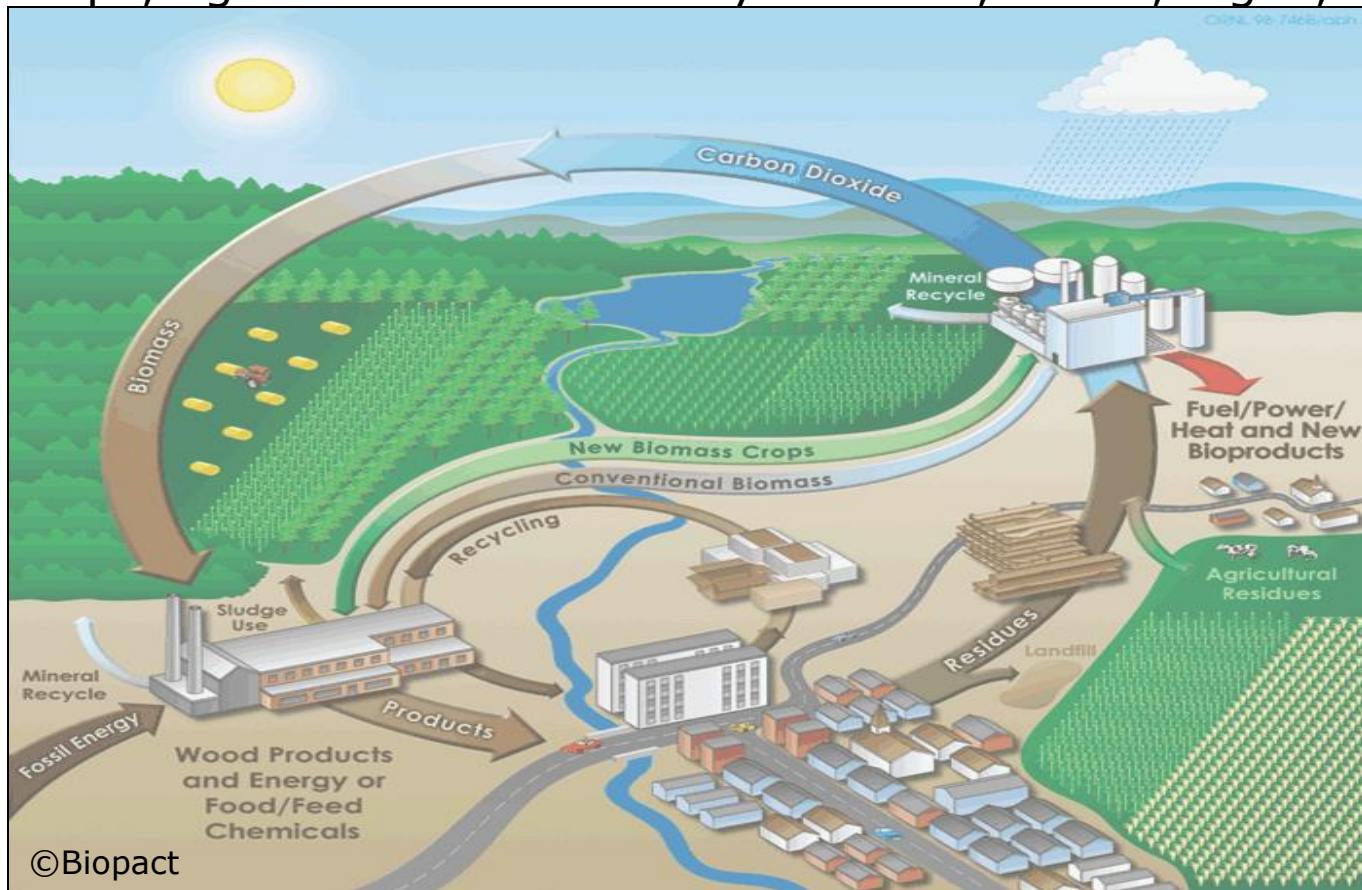
**Bioeconomy Observatory**

# The Biorefinery Concept



## A cascading approach: the Biorefinery Concept

Using biotechnology for converting a variety of renewable local raw materials (industrial crops, agricultural and forestry residues, waste, algae, etc.)...



...into a wide range of value-added products (green chemicals, bioplastics, 2<sup>nd</sup>/3<sup>rd</sup> generation biofuels,...).



## **Through policy interaction, stakeholder engagement and coherent investments in Research and Innovation, the Bioeconomy Strategy will...**

*Increase the resilience, sustainability and productivity of the food supply chain*

*Reduce dependence on fossil resources and addresses climate change*

*Foster European Industries competitiveness, creating growth and jobs*



# Thank you for your attention!

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