

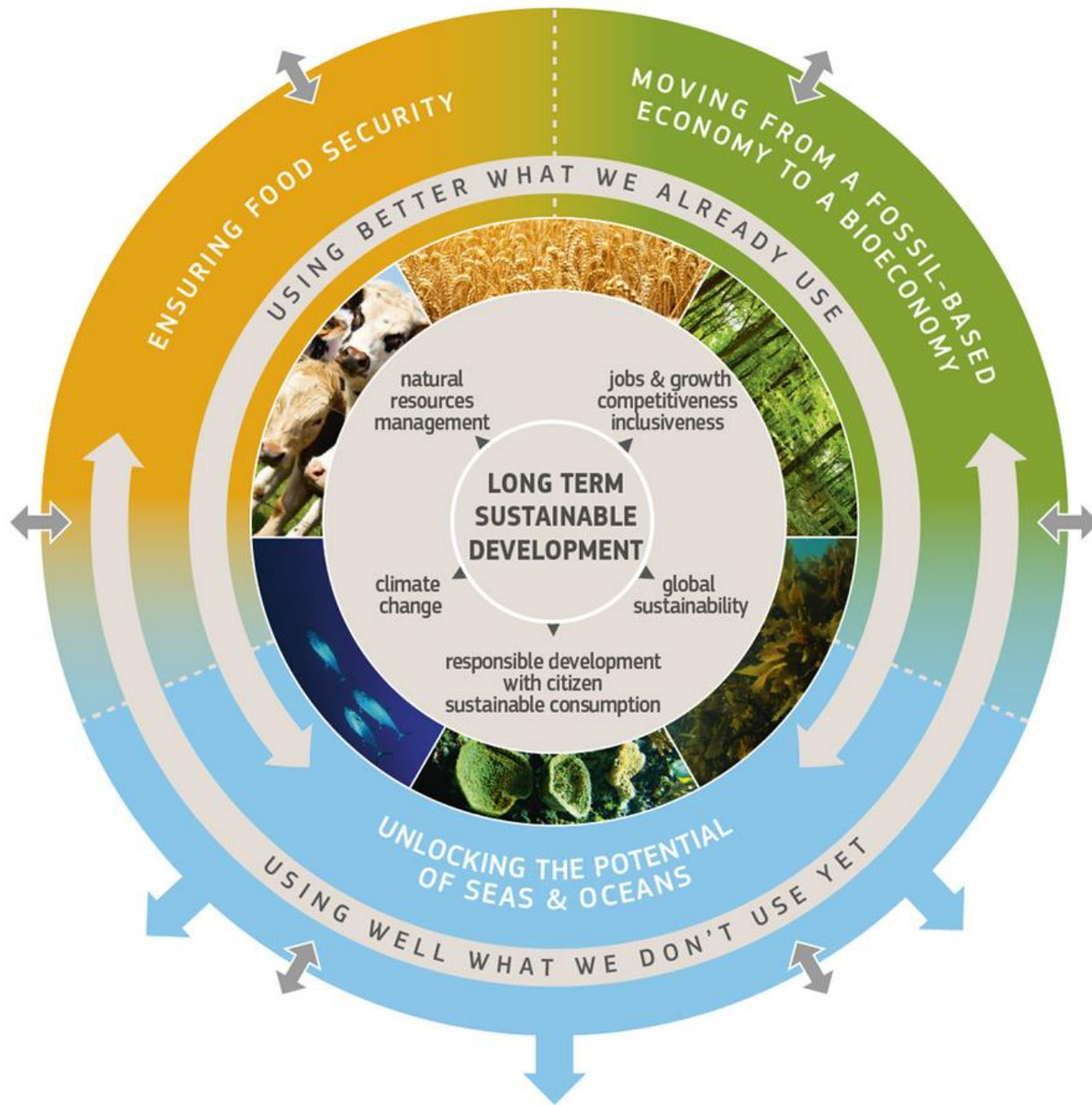


# A competitive bioeconomy for a sustainable future



How can we **enable** the **green transition**, spur economic growth and create new jobs locally, while making a **positive impact** on the environment and our health?

# How can we achieve it?



## Bioeconomy

uses renewable biological resources from land and sea, like crops, forests, fish, animals and micro-organisms, to produce food, materials and energy and accelerate progress towards a circular and low-carbon economy.

# How bioeconomy supports rural areas?



Bioeconomy contributes significantly to the regional development in Europe, and mainly in rural and coastal areas



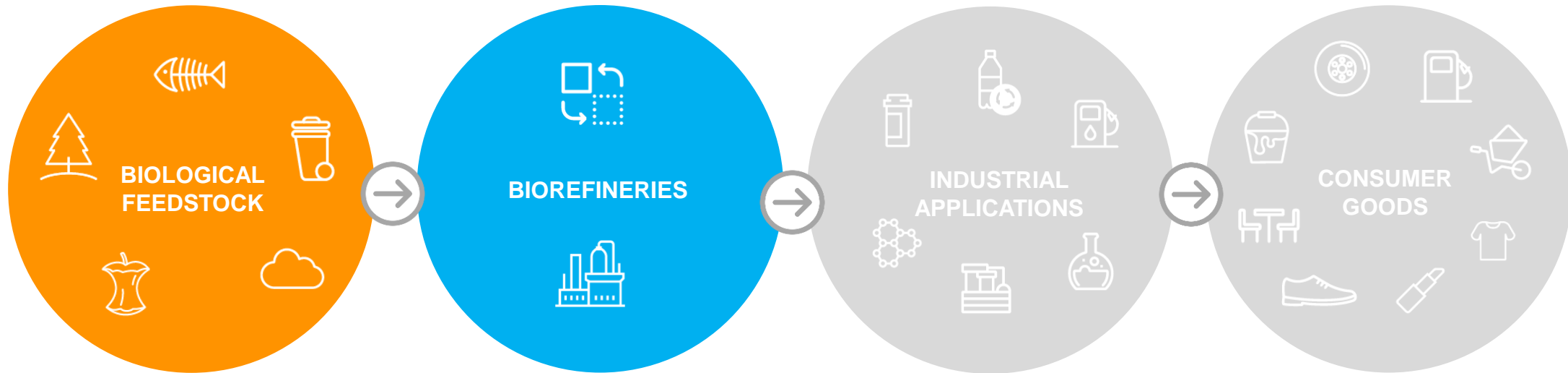
By creating synergies with regional initiatives to **boost their impact locally**



By **diversifying** the local economy

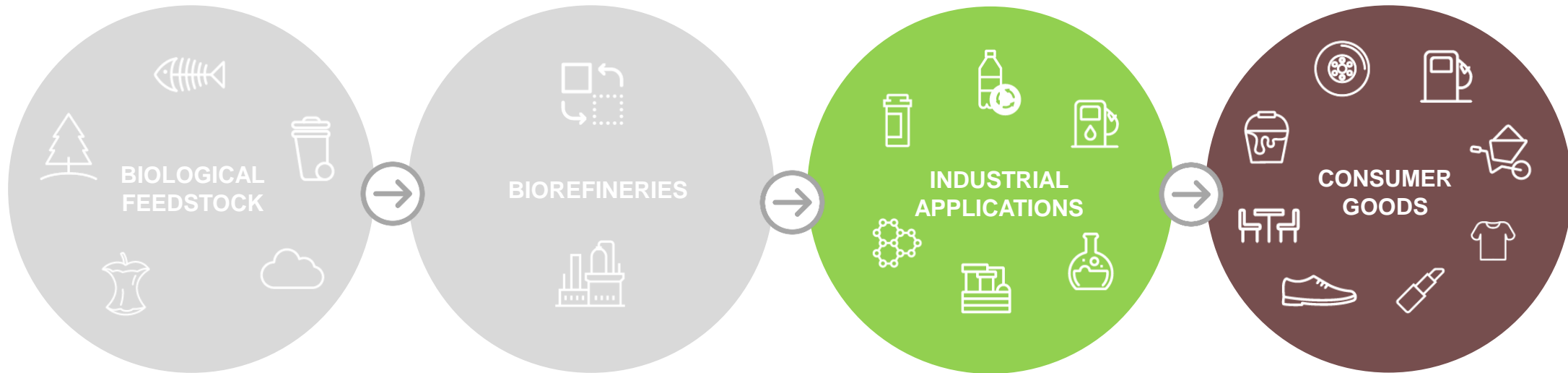
# How the Bioeconomy works?

**Biorefinery** = a refinery that converts biomass into products



# What are **bio-based products**?

**Bio-based products** = chemicals, materials, energy and products derived using biomass to replace their fossil-based versions



# A game changer in Europe

## The Circular Bio-based Europe Joint Undertaking a €2 billion public-private partnership

between the European Union and the Bio-based Industries Consortium (BIC)



Accelerate the **innovation** process and development of bio-based innovative solutions



Accelerate **market deployment** of the existing mature bio-based innovative solutions



Ensure a high level of **environmental performance** of bio-based industrial systems

# From research to business



**SMEs** have a key role to play in the European bioeconomy. But they need support to **scale up their technologies and access to the market.**

SMEs receive **37%** of the total BBI JU funding & represent **40%** of all beneficiaries and two-thirds of the private organisations taking part in projects.



**Universities and research centres** receive help to **bring crucial innovations** closer to the market.

Research organisations receive **30%** of all BBI JU funding and represent **25%** of all participations in projects.





# Expected socio-economic impact

## CREATING JOBS



**83%** of ongoing BBI JU-funded projects result in the creation of new skilled jobs

## FOSTERING COLLABORATIONS



**74%** of the projects increase the cooperation between academia and industry

## PROTECTING HEALTH



**44%** of BBI JU-funded projects produce healthier products than their fossil-based equivalents

## ATTRACTING INVESTMENTS



**€1.3 billion** of private investments will be leveraged by €250 million of BBI JU funding for the first 13 flagship projects

## BOOSTING INNOVATION



**81%** of projects create knowledge and come up with scientific breakthroughs

## ENABLING CHANGE



**61%** of the projects provide training and education in the bioeconomy

## SUPPORTING PRIMARY PRODUCERS



**32%** of projects help primary producers, such as European farmers

# Expected environmental impact

## REDUCING EMISSIONS



**58%** of ongoing projects will deliver bio-based alternatives to fossil-based products that will lower greenhouse gas emissions

## ENHANCING CIRCULARITY



**64%** of the projects will contribute waste reduction, reuse, and recycling, and reduce energy consumption

## SAVING ENERGY



**50%** of ongoing projects will reduce energy consumption

## FOSTERING SUSTAINABILITY



**35%** of projects will improve land use. Over one-third of projects will contribute to the sustainable management of natural resources and foster efficient water use

## PROTECTING BIODIVERSITY



**20%** of the projects funded by BBI JU safeguard and enhance biodiversity on agricultural land, while others protect it in water and forests



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