

CBE JU IN YOUR COUNTRY

The numbers behind the CBE JU's
support for the circular bio-based
economy in Europe

JUNE 2023

Austria



Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

JOB CREATION

Main resources in CBE JU projects



FORESTRY RESIDUES

AGRO RESIDUES

MUNICIPAL WASTE



€19 million
CBE JU funding in Austria



SUSFERT

Company
RTDS Group

Products
Sustainable and multi-functional fertilisers.

Resource
Residues from agriculture and forestry

Benefit
The SUSFERT project will help Europe reduce rock phosphate imports for fertilisers and strengthen Europe's circular economy.

- Private companies
- Universities & research centres
- Other



Check all the projects in the country

Belgium



 **Demonstration plant**

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

JOB CREATION

Main resources in CBE JU projects



AGRO RESIDUES



FORESTRY RESIDUES



INDUSTRIAL SIDESTREAMS



€36 million
SME funding



Check all the projects in the country

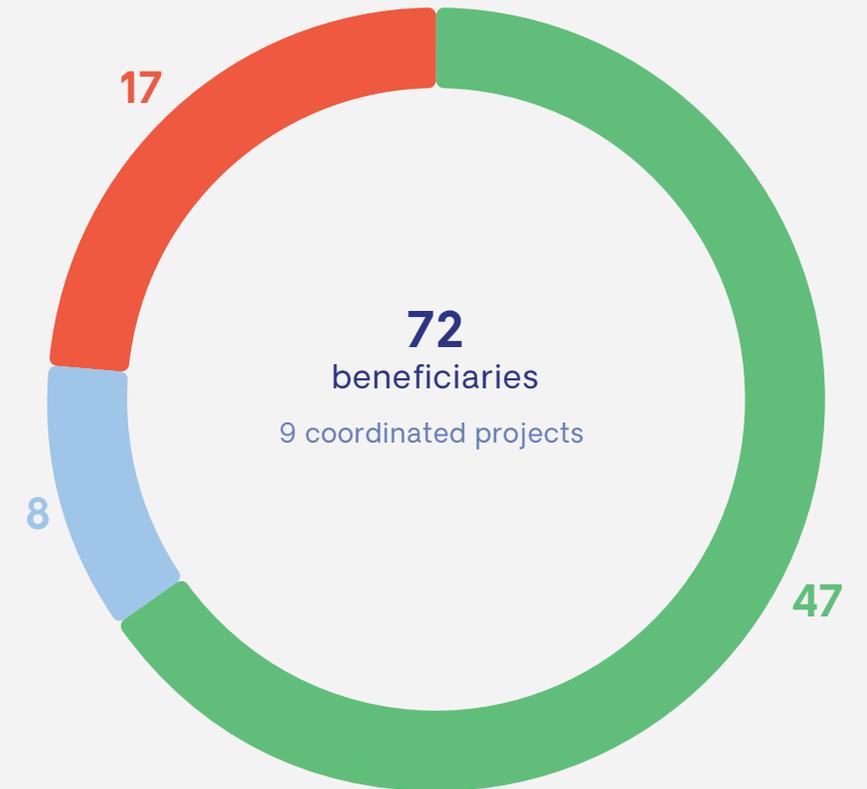
€63 million
CBE JU funding in Belgium



€22M

€17M

€24M



 Private companies

 Universities & research centres

 Other

Bulgaria



Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

JOB CREATION

Main resources in CBE JU projects



AGRO RESIDUES



€326K
SME funding



Check all the projects in the country

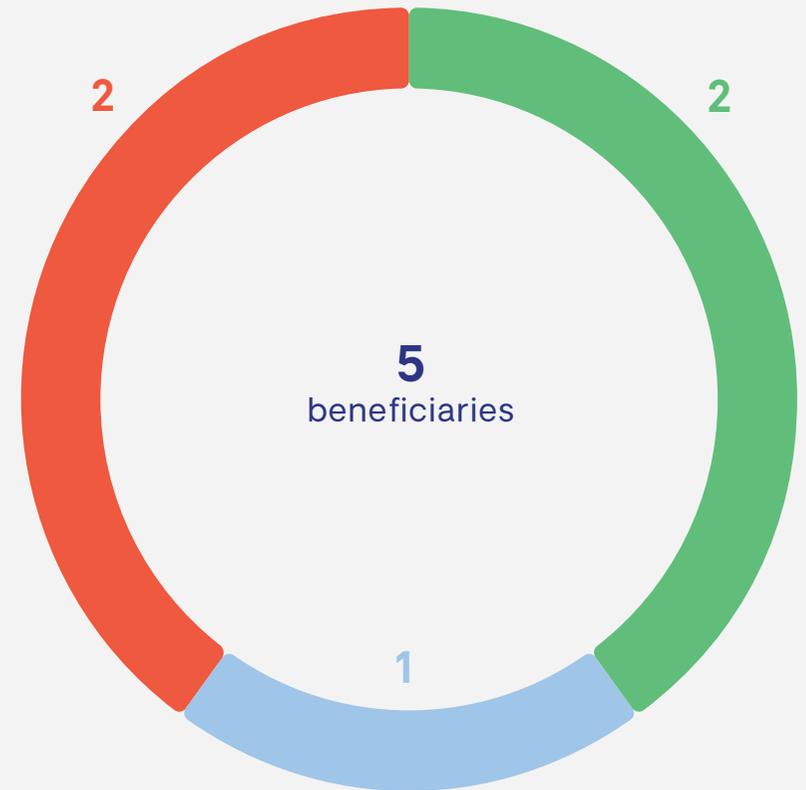
€451 thousand
CBE JU funding in Bulgaria



€326K

€10K

€115K



Private companies

Universities & research centres

Other

Croatia



Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

INNOVATION

Main resources in CBE JU projects



FORESTRY RESIDUES

AGRO RESIDUES

MUNICIPAL WASTE

€6 million
CBE JU funding in Croatia

€5M

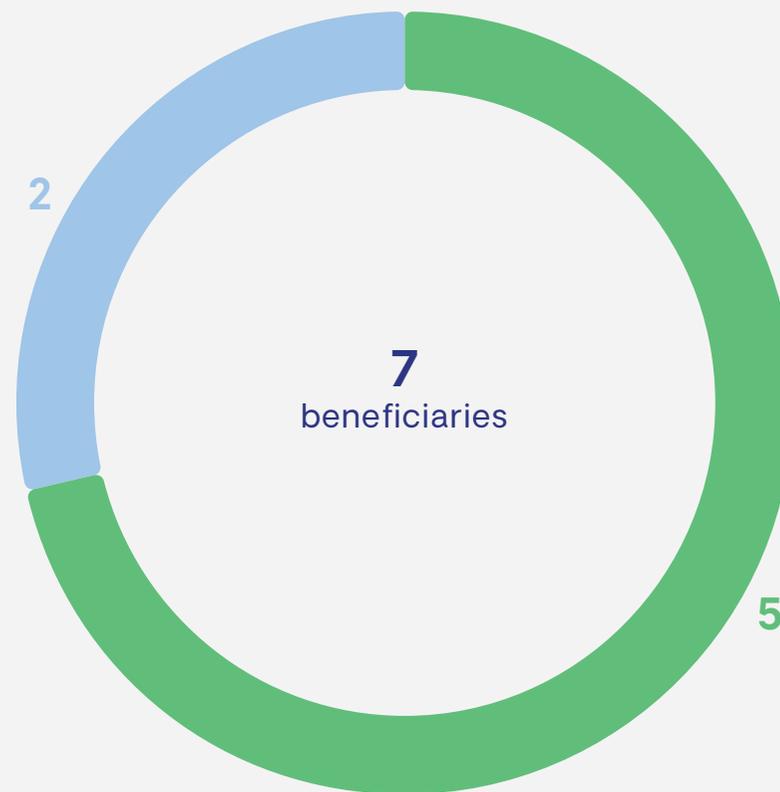
€1M



€5 million
SME funding



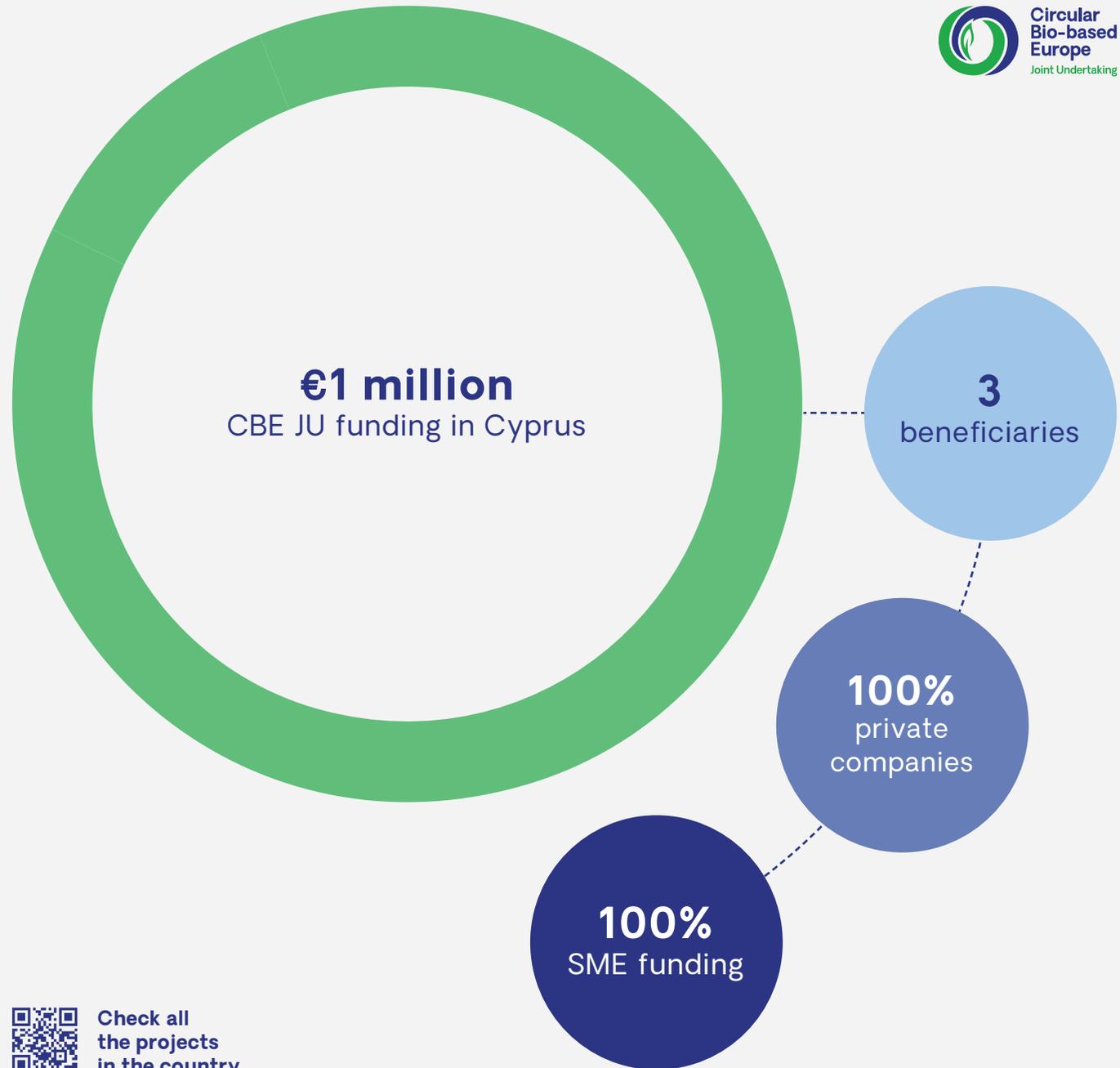
Check all the projects in the country



Private companies

Universities & research centres

Cyprus



Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

JOB CREATION

Main resources in CBE JU projects



AQUATIC:
ALGAE



AGRO
RESIDUES



Check all the projects in the country

Czechia



Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

INCOME DIVERSIFICATION

JOB CREATION

Main resources in CBE JU projects

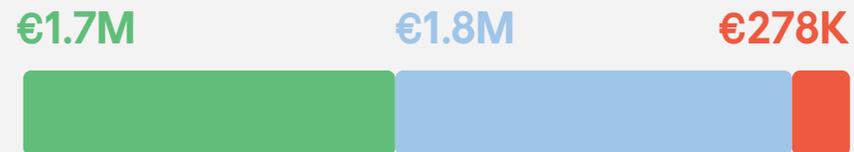


FORESTRY RESIDUES

AGRO RESIDUES

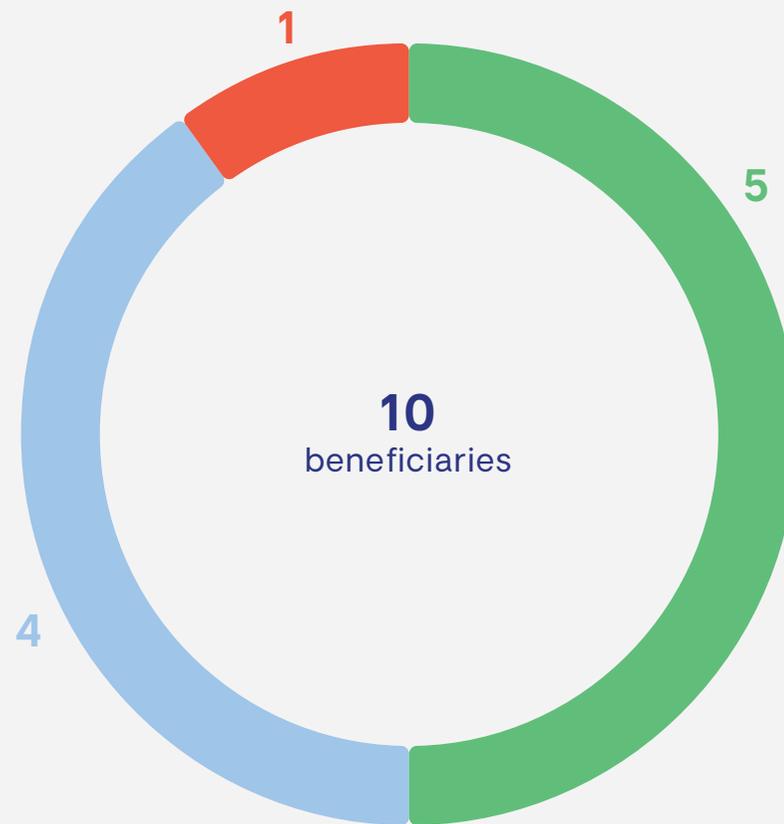
MUNICIPAL WASTE

€3.8 million
CBE JU funding in Czechia



€2 million
SME funding

Check all the projects in the country



Private companies Universities & research centres Other

Denmark



Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

JOB CREATION

Main resources in CBE JU projects



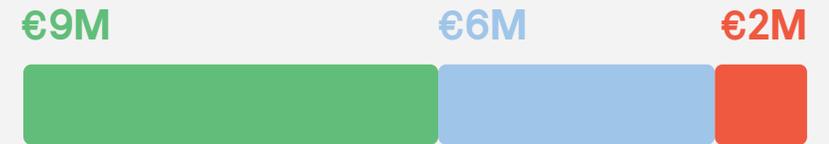
FORESTRY RESIDUES

AGRO RESIDUES

MUNICIPAL WASTE



€17 million CBE JU funding in Denmark



MACRO CASCADE

Company
Petferm

Products

Algae-based feed that boosts animal health.

Resource
Algae

Benefit

This Danish-led project has developed a sustainable & circular production process to improve animal health. Seaweed cultivation can address global challenges like population growth, resource depletion and climate change.

- Private companies
- Universities & research centres
- Other



Check all the projects in the country

Estonia



 **First-of-its-kind industrial biorefinery**

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

RURAL DEVELOPMENT

Main resources in CBE JU projects

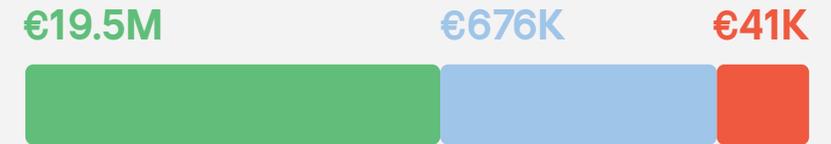


FORESTRY RESIDUES

AGRO RESIDUES



€20 million
CBE JU funding in Estonia



SWEETWOODS

Biorefinery location

Imavere, Järva County

Products

Novel chemicals that can be used to create sustainable bio-based products like insulation foams, burial urns, and protein-rich ingredients for food.

Company

Fibenol

Benefit

The SWEETWOODS industrial biorefinery replaces fossil-based chemicals, revolutionising manufacturing practices and leading the way towards a greener future in Europe.

Resource

Wood residues

 Private companies

 Universities & research centres

 Other



Check all the projects in the country

Faroe Islands



Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

Main resources in CBE JU projects



AQUATIC: ALGAE

€544 thousand
CBE JU funding in Faroe Islands



€544K



€544K
SME funding



Check all the projects in the country

Private companies

Finland



Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

JOB CREATION

Main resources in CBE JU projects



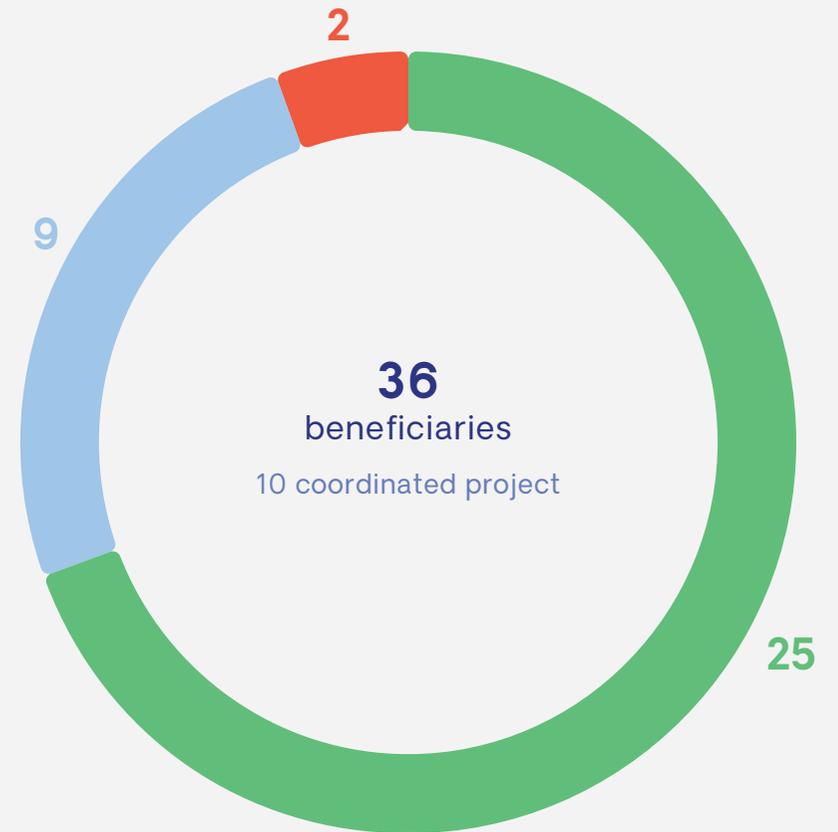
AGRO RESIDUES

FORESTRY RESIDUES



Check all the projects in the country

€33 million
CBE JU funding in Finland



Private companies

Universities & research centres

Other

France



First-of-its-kind industrial biorefinery

Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

JOB CREATION

Main resources in CBE JU projects



€85 million
SME funding

€117 million
CBE JU funding in France



FARMYNG

Biorefinery location
Poulainville,
Hauts-de-France

Company
YNSECT

Resource
Mealworms

Products
100% bio-based proteins for animal feed & food.

Benefit
The FARMYNG project uses mealworms to create sustainable proteins with minimal environmental impact. This approach reduces Europe's over-reliance on protein imports. YNSECT plans to expand the biorefinery concept to other locations.

- Private companies
- Universities & research centres
- Other

Check all the projects in the country

Germany



Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

JOB CREATION

Main resources in CBE JU projects



AGRO RESIDUES



FORESTRY RESIDUES

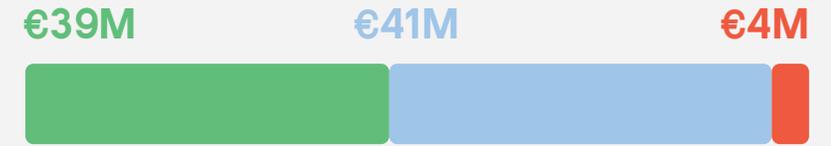


INDUSTRIAL SIDESTREAMS



€84 million CBE JU funding in Germany

€84 million CBE JU funding in Germany



BIOSMART

Resource

Crop residues

Products

Bio-based packaging with an oxygen sensor

Benefit

Compostable and recyclable BIOSMART packing solutions aim to extend food shelf life and reduce packaging waste.

- Private companies
- Universities & research centres
- Other



Check all the projects in the country

Greece



Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

JOB CREATION

Main resources in CBE JU projects



AGRO RESIDUES



FORESTRY RESIDUES



AQUATIC: ALGAE AND FISHERY RESIDUES

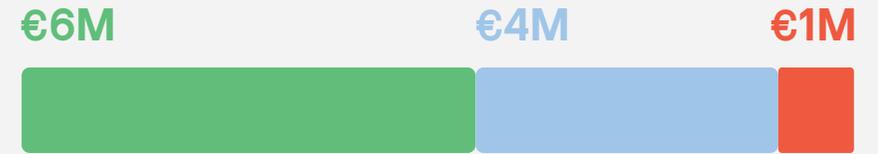


€7 million SME funding



Check all the projects in the country

€11 million CBE JU funding in Greece



Private companies

Universities & research centres

Other

Hungary



Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

JOB CREATION

Main resources in CBE JU projects



FORESTRY RESIDUES

AGRO RESIDUES

€788 thousand
CBE JU funding in Hungary



€786K

€2K



5
SME
participants

€786K
SME funding



7
beneficiaries

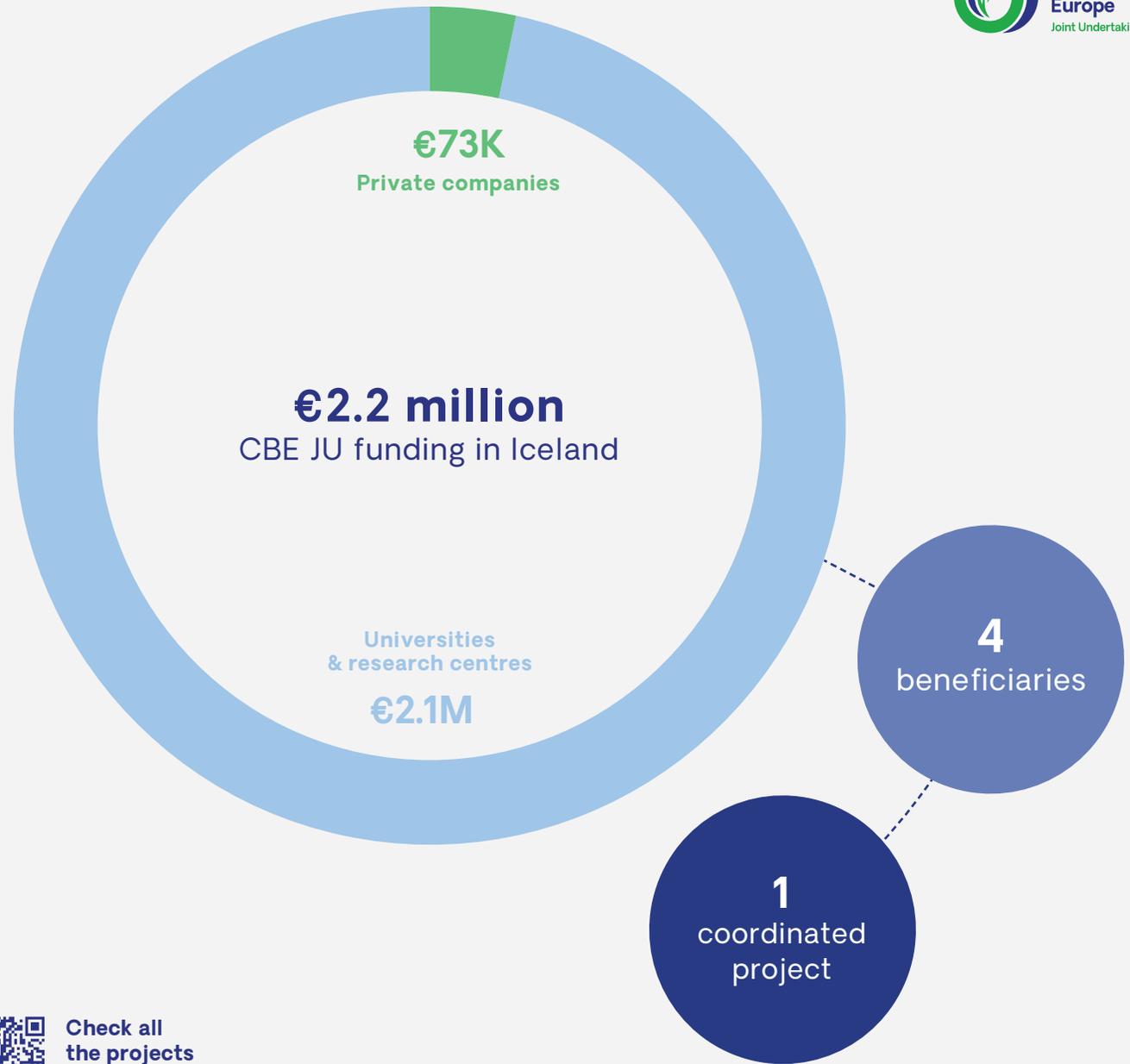
Private companies

Universities & research centres



Check all the projects in the country

Iceland



Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

Main resources in CBE JU projects



FORESTRY RESIDUES



AGRO RESIDUES



AQUATIC: ALGAE



Check all the projects in the country

Ireland



First-of-its-kind industrial biorefinery

Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

JOB CREATION

INNOVATION

Main resources in CBE JU projects



AGRO RESIDUES



MUNICIPAL WASTE

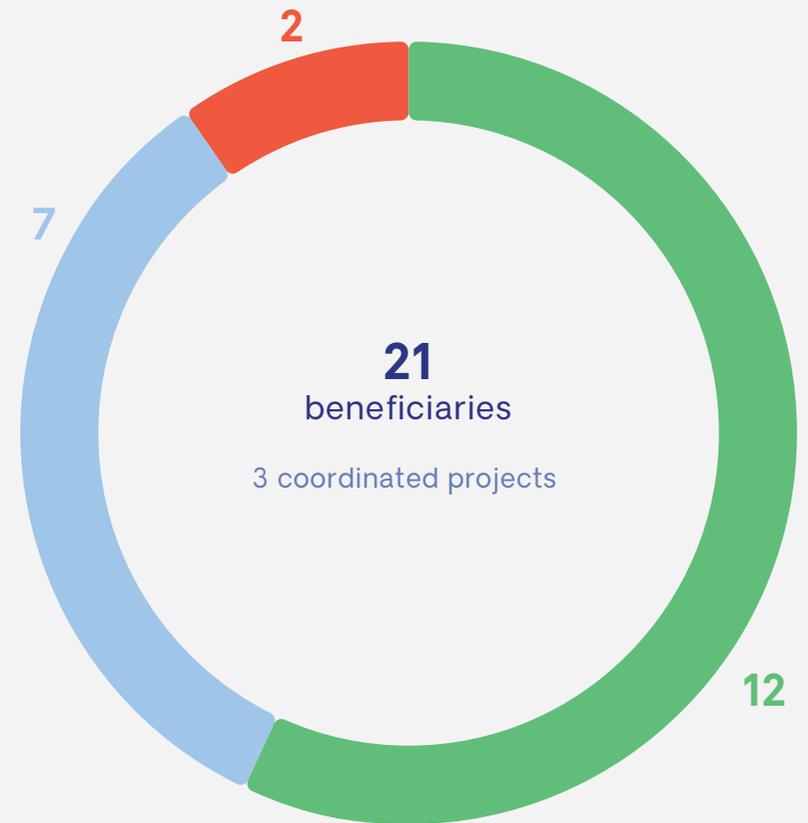


AQUATIC ALGAE



Check all the projects in the country

€27 million
CBE JU funding in Ireland



Private companies Universities & research centres Other

Israel



Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

Main resources in CBE JU projects



FORESTRY RESIDUES



AGRO RESIDUES

€3 million
CBE JU funding in Israel

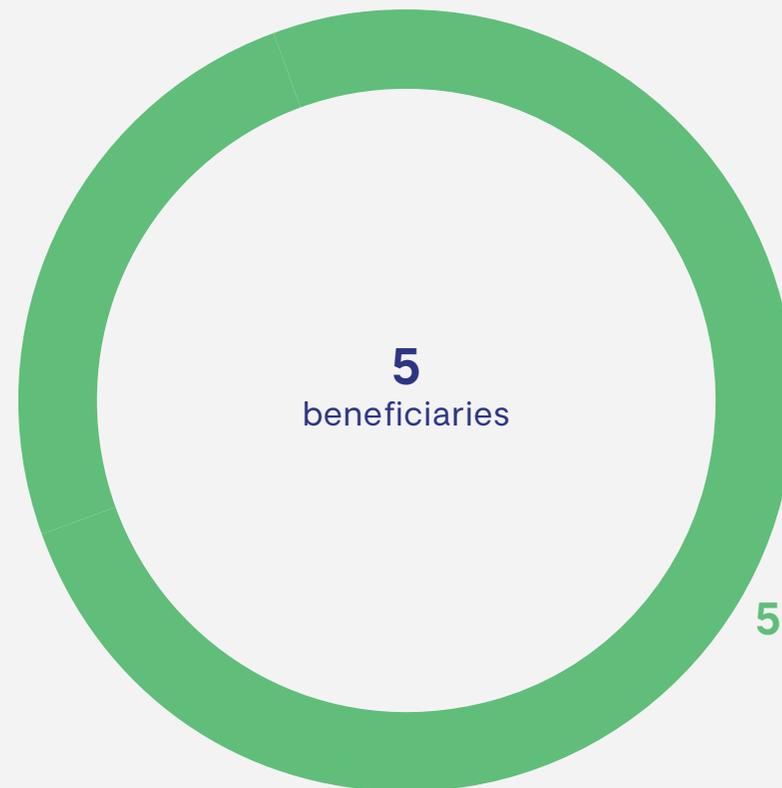


€3M



5
SME
participants

€3M
SME funding



5
beneficiaries

5



Check all the projects in the country

Private companies

Italy



First-of-its-kind industrial biorefinery

Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

REINDUSTRIALISATION

RURAL DEVELOPMENT

JOB CREATION

Main resources in CBE JU projects



€93 million
CBE JU funding in Italy



FIRST2RUN

Biorefinery location

Porto Torres, Sardinia

Company

Novamont

Resource

Cardoons grown on marginal lands

Products

Bio-based compostable coffee pods.

Benefit

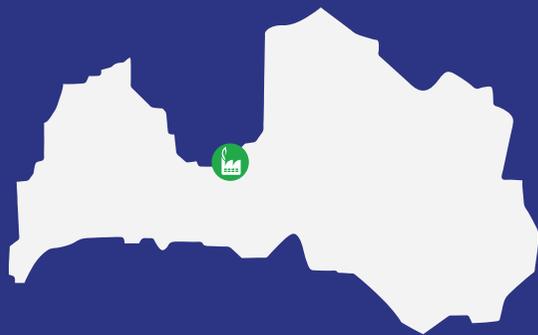
This Italian-led company developed bio-based solutions by collaborating with local farmers in Sardinia. Together, they turned cardoon plant oil into bio-based materials and products in this industrial biorefinery showing Italy's leadership in the bio-based sector.

- Private companies
- Universities & research centres
- Other



Check all the projects in the country

Latvia



 First-of-its-kind industrial biorefinery

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

INCOME DIVERSIFICATION

Main resources in CBE JU projects



AGRO RESIDUES



FORESTRY RESIDUES



1 SME participant

€221 125 SME funding

€9 million CBE JU funding in Latvia



€8M

€1M



VIOBOND

Biorefinery location

Riga

Products

Bio-based resins.

Company

Latvijas Finieris

Benefit

This industrial biorefinery showcases the feasibility and market potential of bio-based resins for eco-friendly wood panels and construction materials. The project could be replicated across Europe, highlighting Latvia's leadership in promoting greener construction materials.

Resource

Wood residues (lignin)

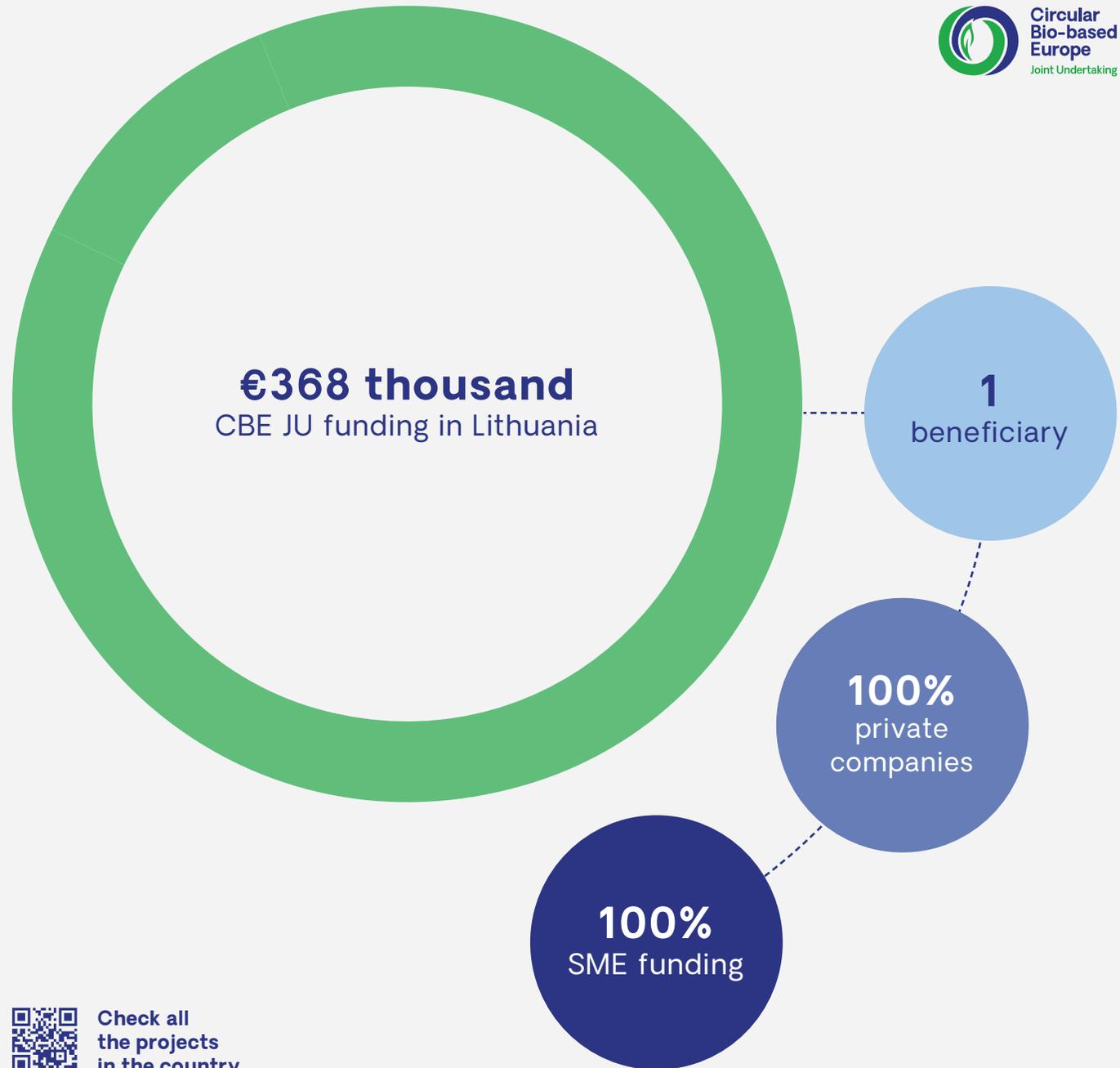
 Private companies

 Universities & research centres



Check all the projects in the country

Lithuania



Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

INCOME DIVERSIFICATION

Main resources in CBE JU projects



FORESTRY RESIDUES



AGRO RESIDUES

Luxembourg



€632 thousand
CBE JU funding in Luxembourg

1
beneficiary

100%
universities
& research
centres

Opportunities for the bioeconomy

Socio-economic
benefits

INNOVATION

Main resources
in CBE JU
projects



FORESTRY
RESIDUES



Check all
the projects
in the country

The Netherlands



First-of-its-kind industrial biorefinery

Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

Main resources in CBE JU projects



FORESTRY RESIDUES

AGRO RESIDUES

AQUATIC: ALGAE AND FISHERY RESIDUES



€32 million
SME funding

€86 million
CBE JU funding in the Netherlands



PEFEERENCE

Biorefinery location
Delfzijl,
Groningen

Company
Avantium

Resource
Crop residues

Products

Bio-based & recyclable material for beer bottles.

Benefit

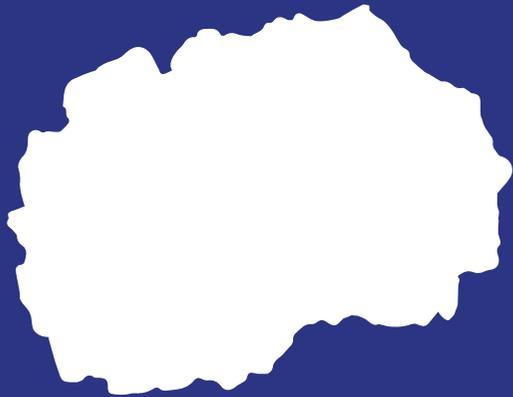
The Netherlands produces a sustainable material to make beer bottles with a lower carbon footprint, while maintaining the beer quality. Carlsberg has successfully tested a prototype bottle developed in the PEFEERENCE project, which is supporting the transition to sustainable solutions for the beverage and other industries.

- Private companies
- Universities & research centres
- Other



Check all the projects in the country

North Macedonia



Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

Main resources in CBE JU projects



AGRO RESIDUES



MUNICIPAL WASTE

€182 thousand
CBE JU funding in North Macedonia



€182K



€182K
SME funding



1



Check all the projects in the country

Private companies

Norway



First-of-its-kind industrial biorefinery

Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

Main resources in CBE JU projects



FORESTRY RESIDUES

AGRO RESIDUES

AQUATIC: ALGAE



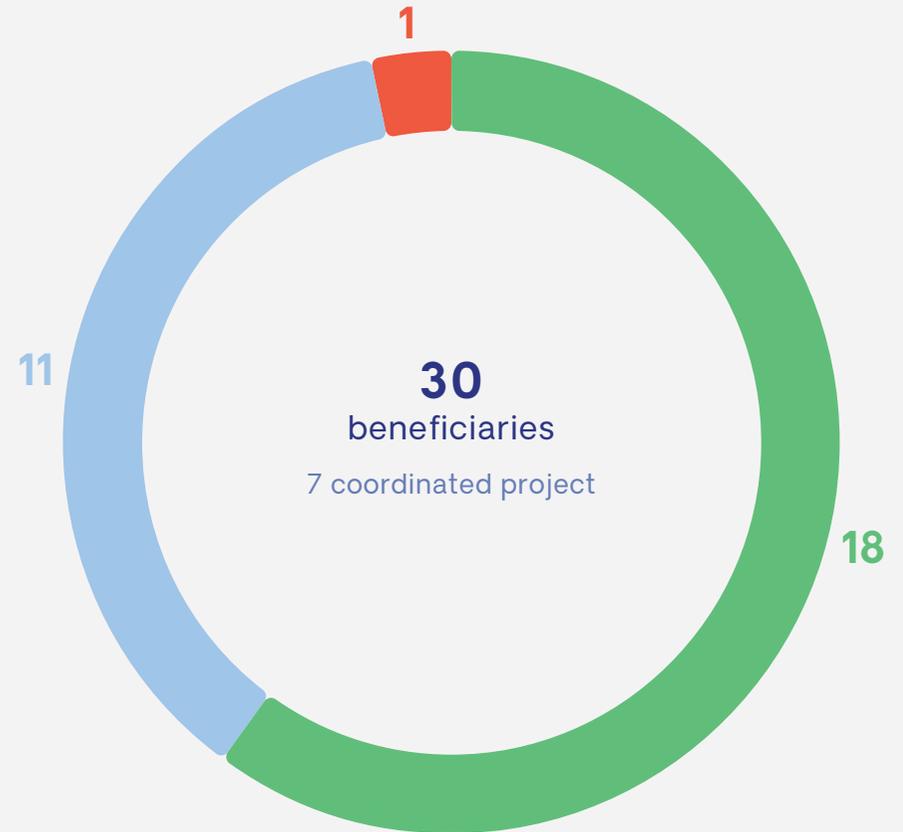
Check all the projects in the country

€42 million
CBE JU funding in Norway



€32M

€10M €150K



Private companies

Universities & research centres

Other

Poland



 Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

INCOME DIVERSIFICATION

RURAL DEVELOPMENT

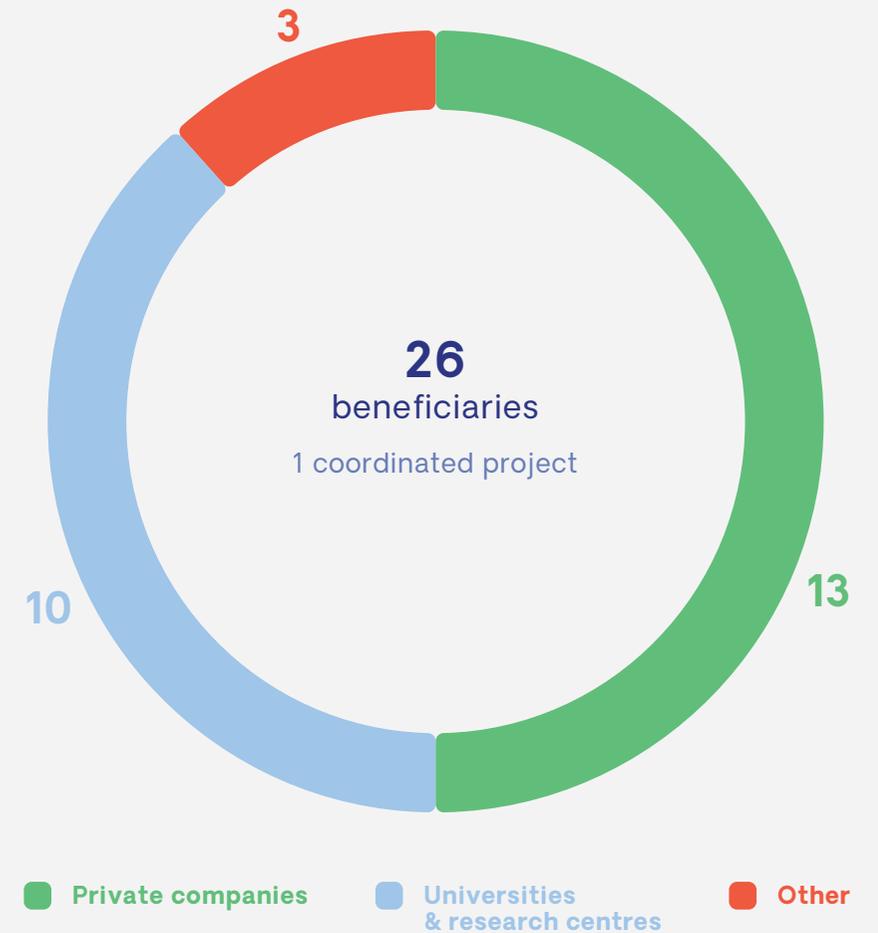
JOB CREATION

Main resources in CBE JU projects



 Check all the projects in the country

€9 million
CBE JU funding in Poland



Portugal



 Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

JOB CREATION

INNOVATION

Main resources in CBE JU projects



AGRO RESIDUES



FORESTRY RESIDUES



AQUATIC: ALGAE



€9 million
SME funding



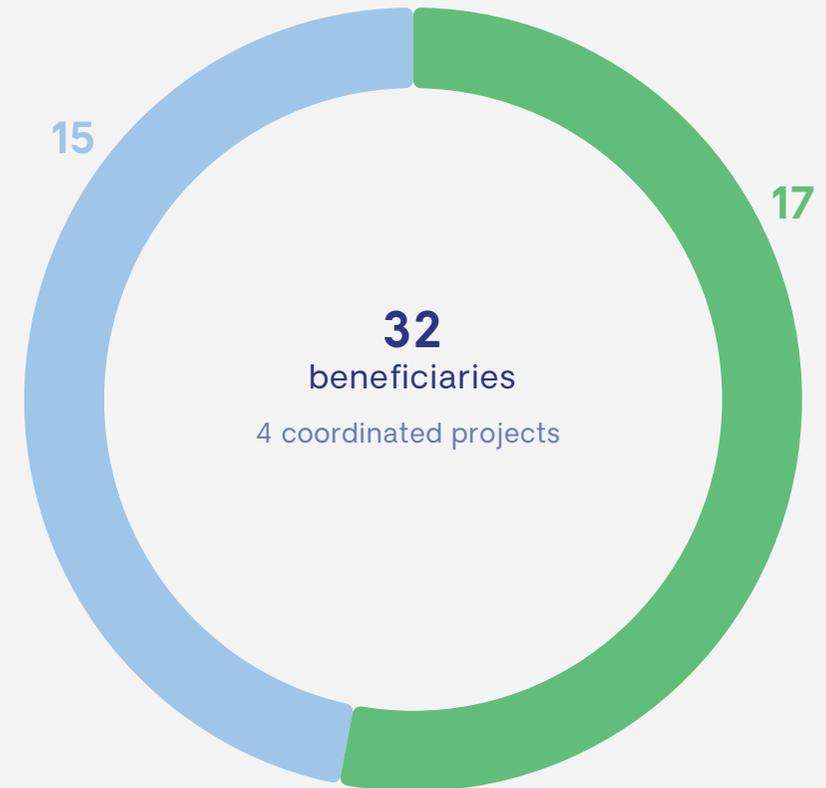
Check all the projects in the country

€16 million
CBE JU funding in Portugal



€9M

€7M



 Private companies

 Universities & research centres

Romania



First-of-its-kind industrial biorefinery

Opportunities for the bioeconomy

Socio-economic benefits

INCOME DIVERSIFICATION

RURAL DEVELOPMENT

JOB CREATION

Main resources in CBE JU projects



FORESTRY RESIDUES

AGRO RESIDUES

€21 million
CBE JU funding in Romania



€1 million
SME funding



LIGNOFLAG

Biorefinery location

Podari,
Dolj County

Company

Clariant

Resource

Straw

Products

Bio-based ethanol & fertilisers.

Benefit

LIGNOFLAG has established the world's first industrial biorefinery to produce bio-based ethanol from non-food resources. The project is making ethanol from straw and reducing its carbon footprint by up to 95%. This contributes to cutting the EU's dependence on oil imports.

Private companies

Universities & research centres

Other



Check all the projects in the country

Serbia



Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

JOB CREATION

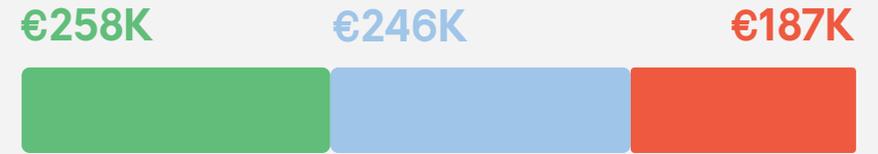
Main resources in CBE JU projects



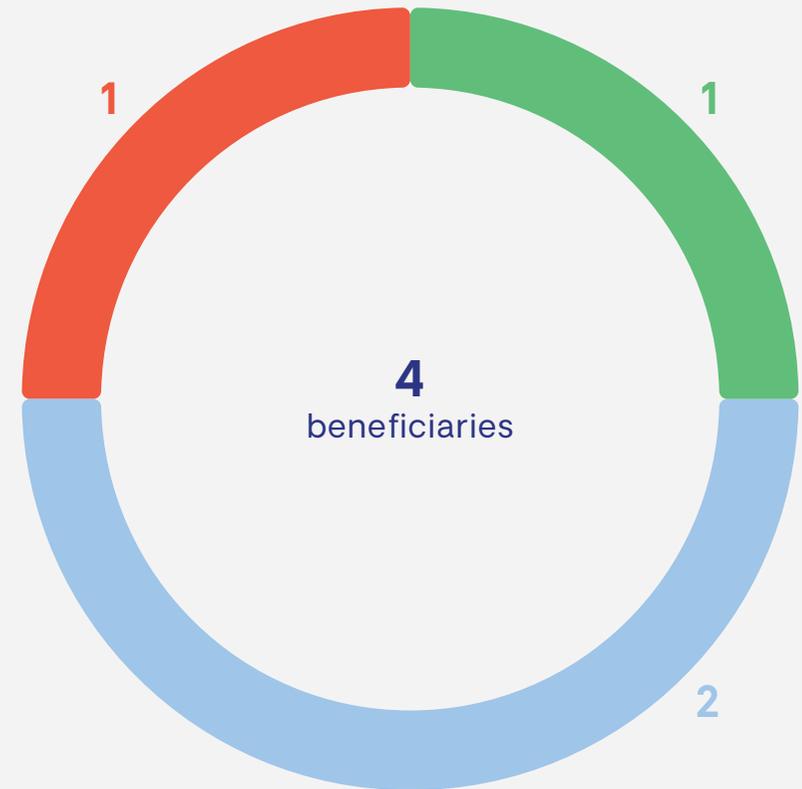
FORESTRY RESIDUES

AGRO RESIDUES

€691 thousand
CBE JU funding in Serbia



Check all the projects in the country



Private companies Universities & research centres Other

Slovakia



Opportunities for the bioeconomy

Socio-economic benefits

INCOME DIVERSIFICATION

RURAL DEVELOPMENT

JOB CREATION

Main resources in CBE JU projects



FORESTRY RESIDUES

AGRO RESIDUES

€2 million
CBE JU funding in Slovakia

€1,4M

€603K



€398K
SME funding



Check all the projects in the country



Private companies

Universities & research centres

Slovenia



Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

JOB CREATION

Main resources in CBE JU projects



FORESTRY RESIDUES

AGRO RESIDUES

AQUATIC



€5 million
CBE JU funding in Slovenia



EFFECTIVE

Biorefinery location
Ljubljana

Company
Aquafil

Resource
Waste from sugar production and sustainably sourced vegetable oils

Products
Bio-based nylon.

Benefit
Aquafil leads the way in sustainable textiles; its bio-based nylon reduces CO₂ emissions by over 20% and can be used in different applications, such as carpets and sportswear. The material is versatile and has a sustainable end-of-life while maintaining high textile quality. The project strongly focused on circularity, recycling and composting of the developed bio-based materials.

- Private companies
- Universities & research centres
- Other



Check all the projects in the country

Spain



First-of-its-kind industrial biorefinery

Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

JOB CREATION

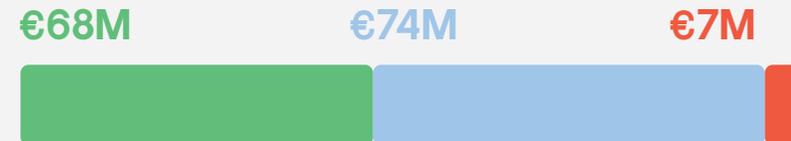
INNOVATION

Main resources in CBE JU projects



€65 million
SME funding

€149 million
CBE JU funding in Spain



CIRCULAR BIOCARBON

Biorefinery location

Zaragoza, Aragon

Company

Urbaser

Resource

Organic fraction of municipal solid waste

Products

Bio-based materials for use in night vision cameras and telecommunication devices, among other applications.

Benefit

These sustainable materials will not only offer cutting-edge technology, but they will also contribute to reducing waste going to landfill and waste incineration.

Private companies

Universities & research centres

Other



Check all the projects in the country

Sweden



Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

Main resources in CBE JU projects



FORESTRY RESIDUES AGRO RESIDUES AQUATIC: FISHERY RESIDUES

€18 million
CBE JU funding in Sweden



SUSBIND

Company
IKEA

Products
Innovative bio-based binders.

Resource
Crop residues

Benefit
IKEA in Sweden has successfully produced furniture with innovative and sustainable bio-based glues. These adhesives have a lower carbon footprint and improved performance properties, highlighting Sweden's commitment to a circular bio-based economy and sustainable innovation.

- Private companies
- Universities & research centres
- Other



Check all the projects in the country

Switzerland



Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

Main resources in CBE JU projects



AGRO RESIDUES FORESTRY RESIDUES INDUSTRIAL SIDESTREAMS

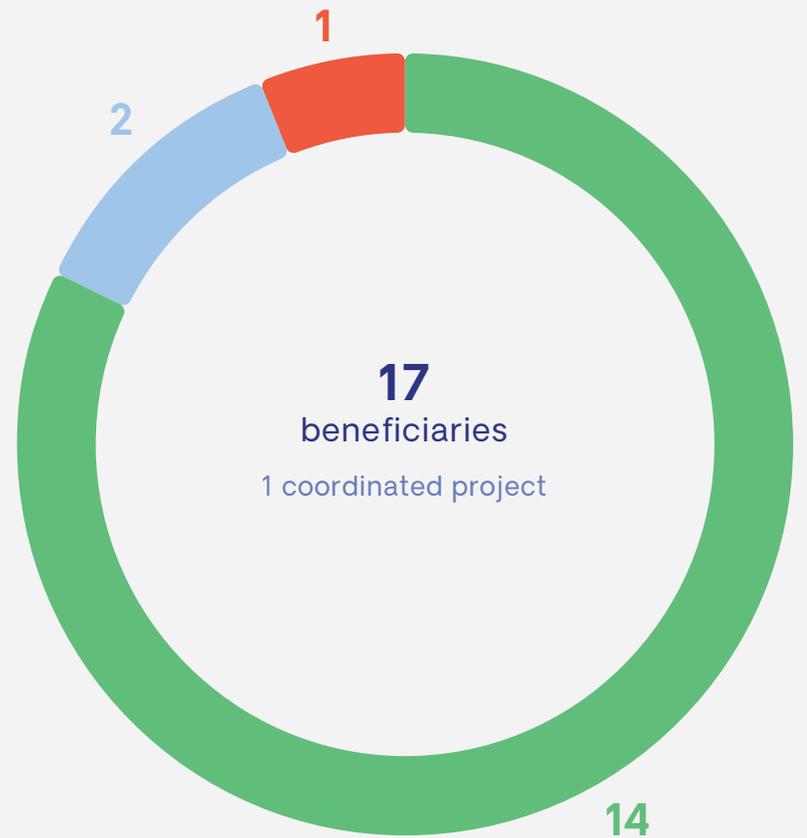
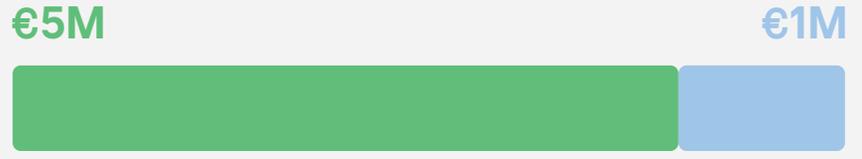


€3 million SME funding



Check all the projects in the country

€6 million CBE JU funding in Switzerland



Private companies Universities & research centres Other

Turkey



Opportunities for the bioeconomy

Socio-economic benefits

RURAL DEVELOPMENT

Main resources in CBE JU projects

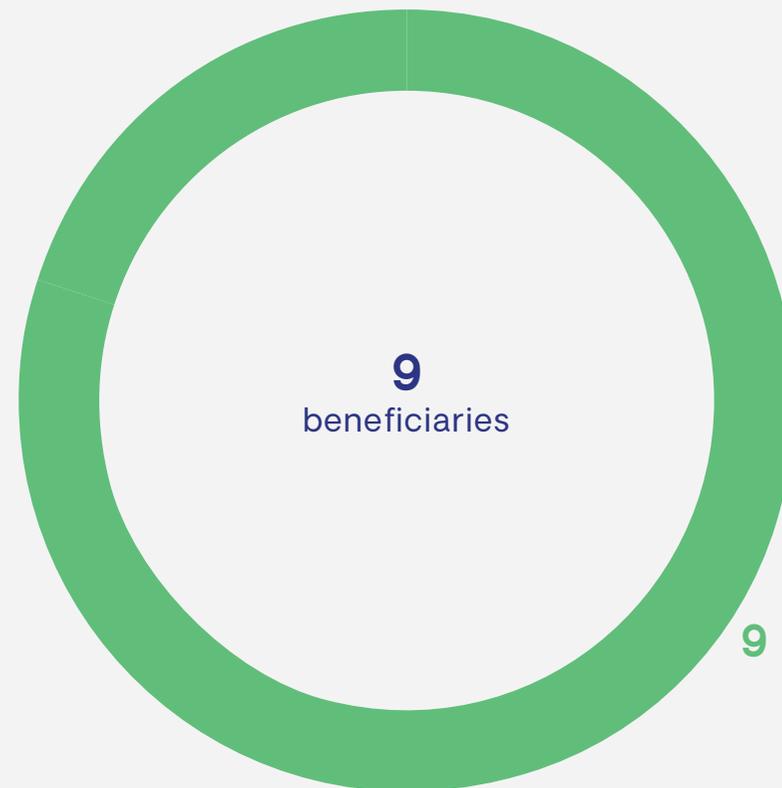


FORESTRY RESIDUES

AGRO RESIDUES

€845 thousand
CBE JU funding in Turkey

€845K



Private companies



Check all the projects in the country

United Kingdom



Demonstration plant

Opportunities for the bioeconomy

Socio-economic benefits

INNOVATION

Main resources in CBE JU projects



FORESTRY RESIDUES

AGRO RESIDUES

MUNICIPAL WASTE



Check all the projects in the country

€35 million

CBE JU funding in United Kingdom



€22M

€12M

€1M



Private companies

Universities & research centres

Other