



#### **BE-Rural Capacity building Workshop** Ana CUADRADO GALVÁN

**BBI JU Project Officer** 

25/10/2021



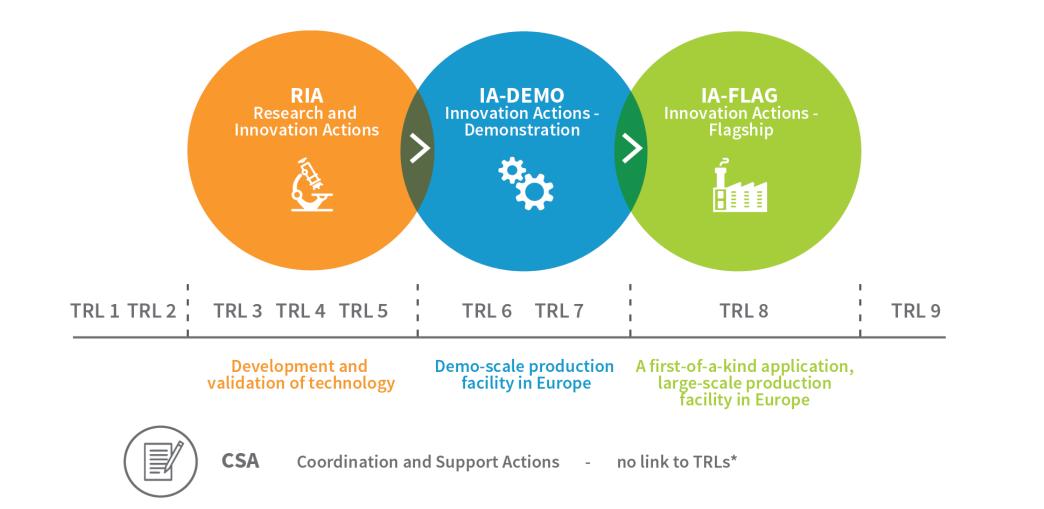
About BBI JU (2014 – 2020)

- <u>Public-Private Partnership (PPP)</u> between European Union & Bio-based Industries Consortium (BIC)
- EU body operating under Horizon 2020 rules
- Funding R&I projects from technology development to full scale





## **BBI JU types of actions**



\*TRL = Technology Readiness Levels



## **BBI JU Governance**



#### **Bio-based Industries Joint Undertaking (BBIJU)**

#### Governing Board (10 seats)

Responsible for the strategic orientation and the operations of the BBI JU and for the supervision of its activities

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#### **Executive Director**

Responsible for day-to-day management of the BBI JU in accordance with the decisions of the Governing Board

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#### **Programme Office**

Responsible for the management of the grant management lifecycle and for the implementation of specific activities to further consolidate BBI JU's vision and mission

#### **States Representatives Group**

(28 Member States + 10 Associated Countries)

Advisory body of the BBI JU, responsible for providing advice to the Governing Board on the programme progress and achievement of its targets

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#### **Scientific Committee**

#### (15 seats)

Advisory body of the BBI JU, responsible for providing scientific advice to the BBI JU, such as scientific priorities to be addressed

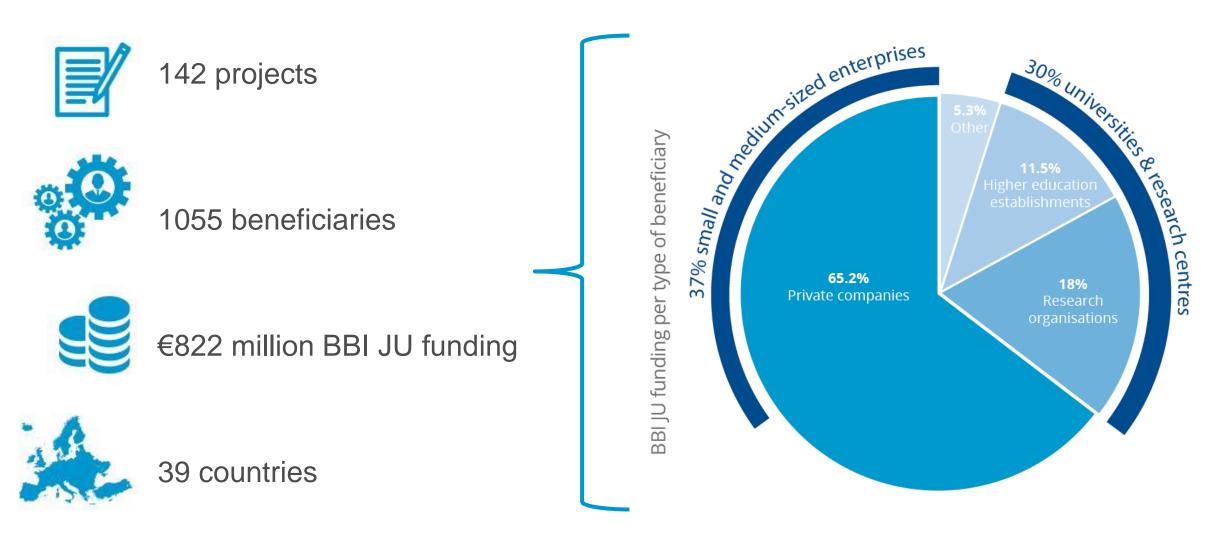
## **BBI JU implementation**







## BBI JU key figures Call 2014-20

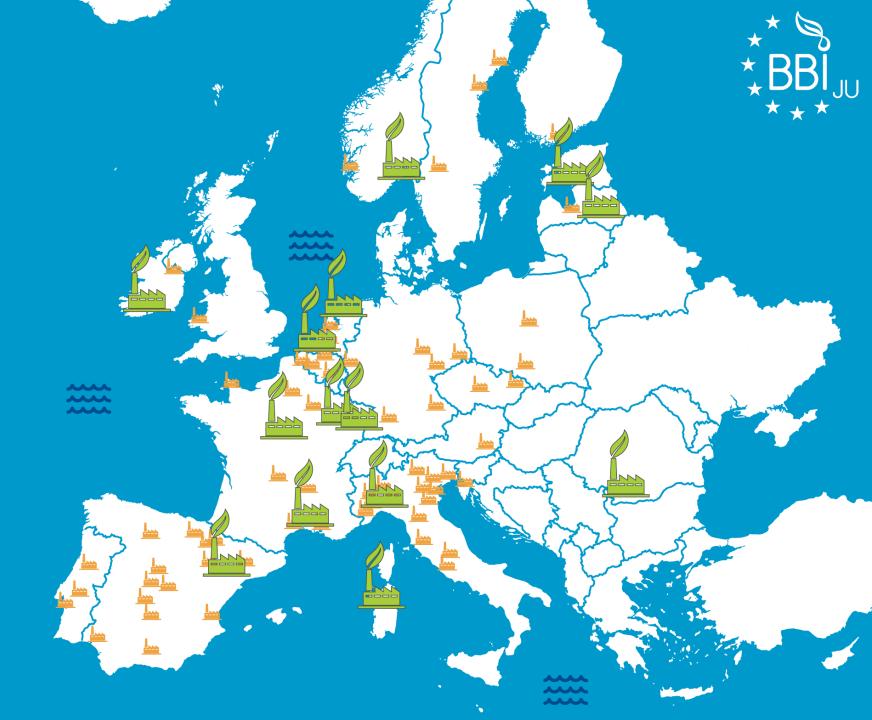


Demonstration plants are represented by the locations that receive the main investment in the project.



Flagship biorefinery





#### **BBI JU flagship projects**





## From BBI JU to CBE JU

BBI JU	
2014-2020	

#### • Bio-Based Industries Join Undertaking

- Part of Horizon 2020 programme
- €3.7 billion public-private initiative
- 142 projects, 1000+ unique beneficiaries across Europe & beyond
- Last BBI JU call for project proposals in 2020
- Horizon Europe: new EU R&I funding programme (2021-2027)

CBE JU\* 2021-2027

\*legislative proposal

- CBE JU Circular Bio-based Europe Joint Undertaking
- Part of Horizon Europe new EU R&I funding programme
- €2 billion public-private initiative building on the success of BBI JU
- Green light from the Commission in February 2021
- In legislative process at the European Parliament & Council
- Expected entry into force before end 2021





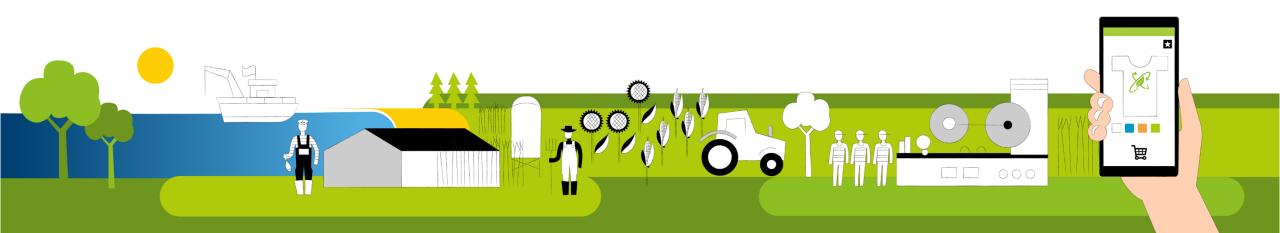
Joint Undertaking

# BBI JU projects in Latvia



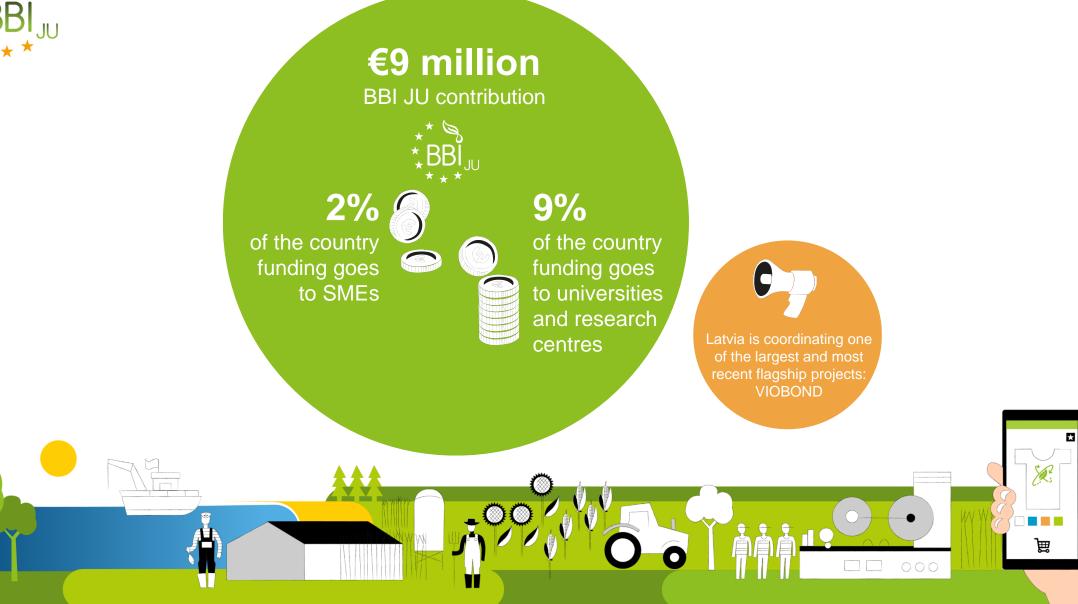
### Participation in BBI JU

Latvian beneficiaries are maximising the country's immense potential for the sustainable exploitation of forestry. For example, a first-of-its-kind biorefinery will be built in the country to produce green chemicals on an industrial scale. They will substitute hazardous fossil-based substances using the pulp industry's sidestreams.



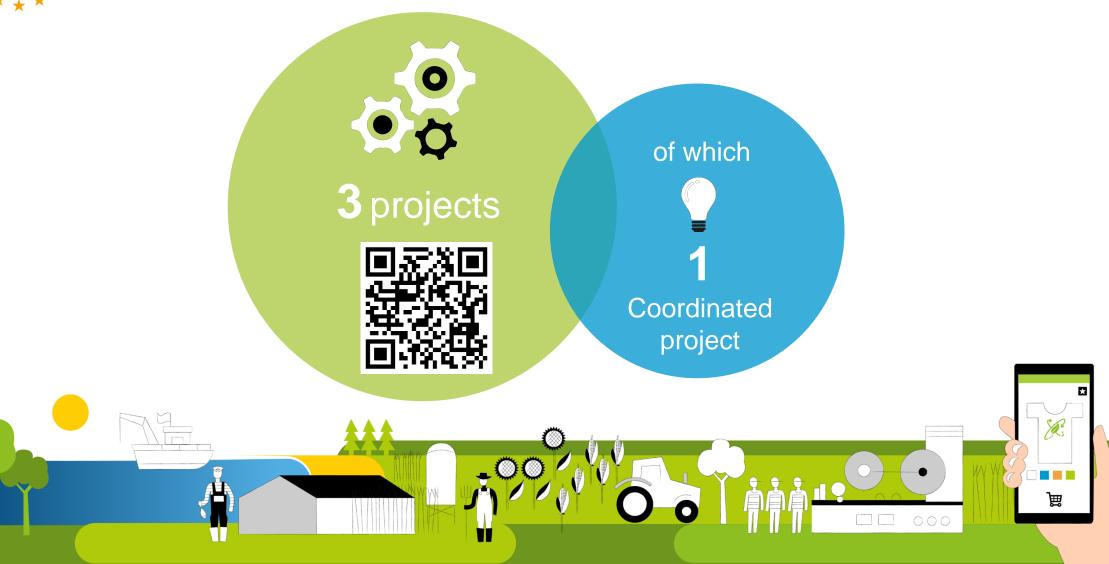


### **BBI JU funding in Latvia**





### **BBI JU-funded projects in Latvia**

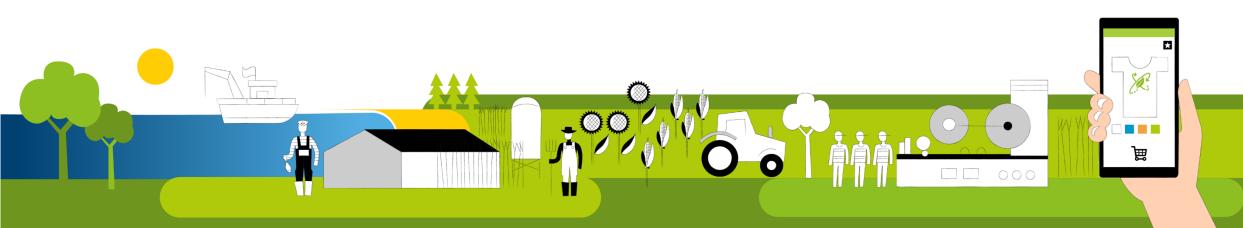






#### Applicants per call for proposals







## Examples of BBI JU projects in Latvia





**Relnvent** aims to develop sustainable and low-cost bio-based materials and fibres with enhanced properties and performance. These can replace the petroleum-based insulation and structural materials used in buildings and vehicles.



**US4GREENCHEM** developed a biorefinery concept to completely valorise lignocellulose, which is energy and cost-efficient and based solely on green technologies. The project combined enzyme treatment methods with effective ultrasound pre-treatment. The bio-based chemical industry then uses the substrate obtained from the lignocellulosic feedstock.





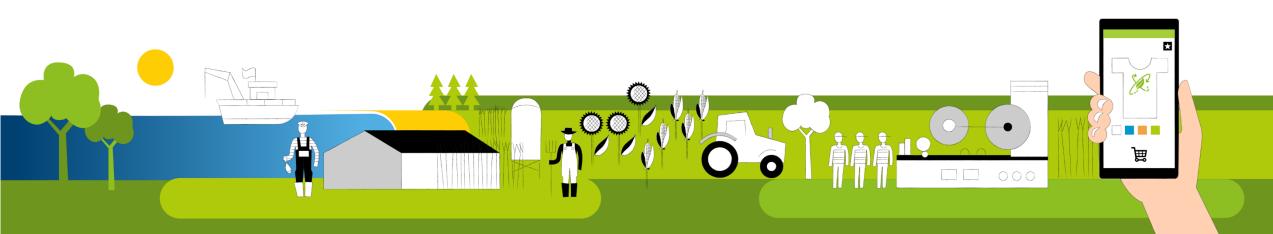
#### Bio-based Industries Joint Undertaking

# BBI JU projects in Romania



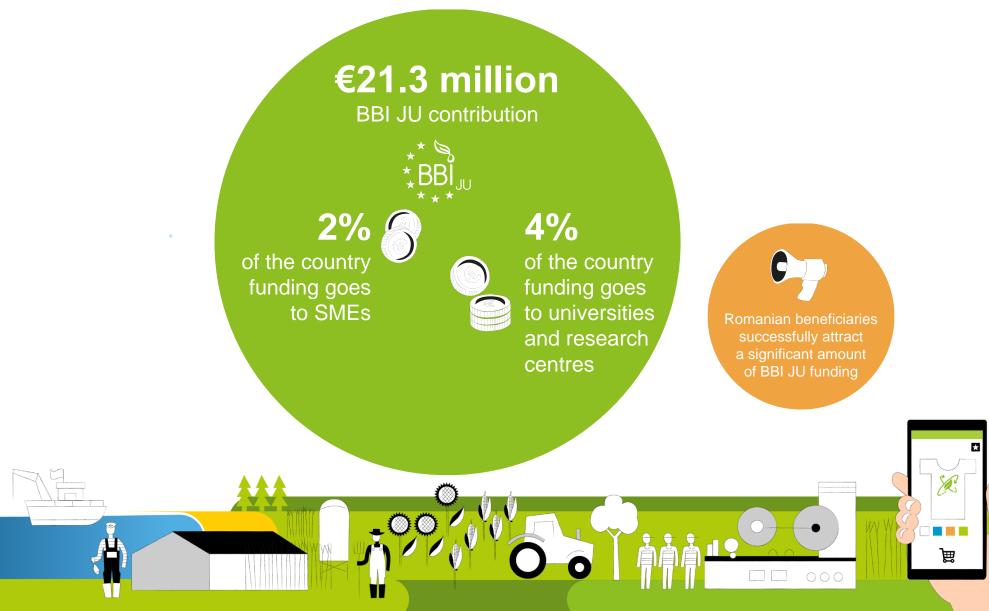
### Participation in BBI JU

Romania offers enormous potential for valorising agricultural sidestreams, an opportunity for the primary sector to benefit from the bioeconomy. The BBI JU-funded LIGNOFLAG first-of-its-kind biorefinery in Podari is an example of how the bio-based industries boost rural infrastructure, create new green jobs, and diversify the income of farmers, thus revitalising rural areas with sustainable industries.





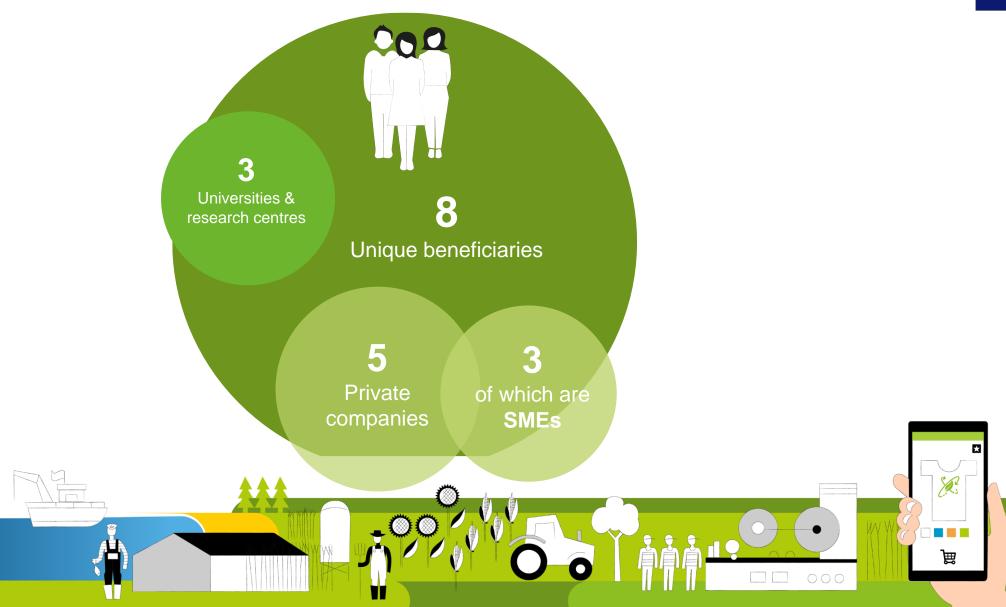
## **BBI JU funding in Romania**







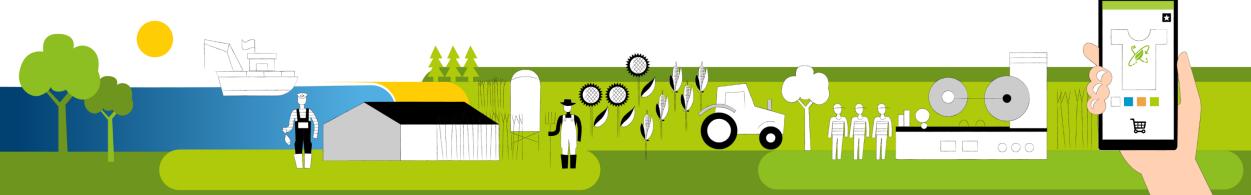
## **Participation**





### Applicants per call for proposals







## Examples of BBI JU projects in Romania





**LIGNOFLAG** is creating an integrated biorefinery that will transform agricultural residues provided by local farmers into liquid transportation fuel, heating power and fertiliser. The plant will generate green jobs and economic growth in rural areas without using agricultural land for production.



**EXCornsEED** is developing an innovative, environmentalfriendly approach for extracting and using the proteins and bioactive compounds from bioethanol and biodiesel refinery sidestreams and turning them into high-value commercial products, thus contributing to green and sustainable economic growth.



## Examples of BBI JU projects in Romania





By using non-GMO European-grown lupin beans to produce high value-added food, animal feed, and many consumer products, **LIBBIO** showed how to strengthen the European bioeconomy and reduce dependency on lupin import.



**NeoCel** has developed innovative processes for producing high-quality bio-based textiles. The project helped reduce the environmental impact and occupational health issues related to cellulose fibre production and promoted sustainable, good quality cellulosic fibres for the textile and fashion industries.





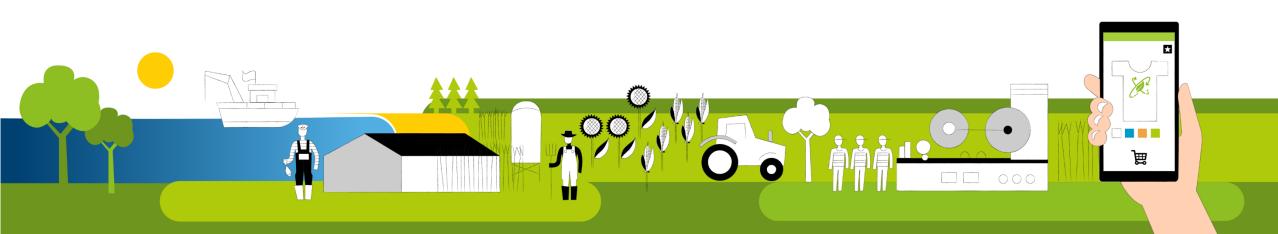
Bio-based Industries Joint Undertaking

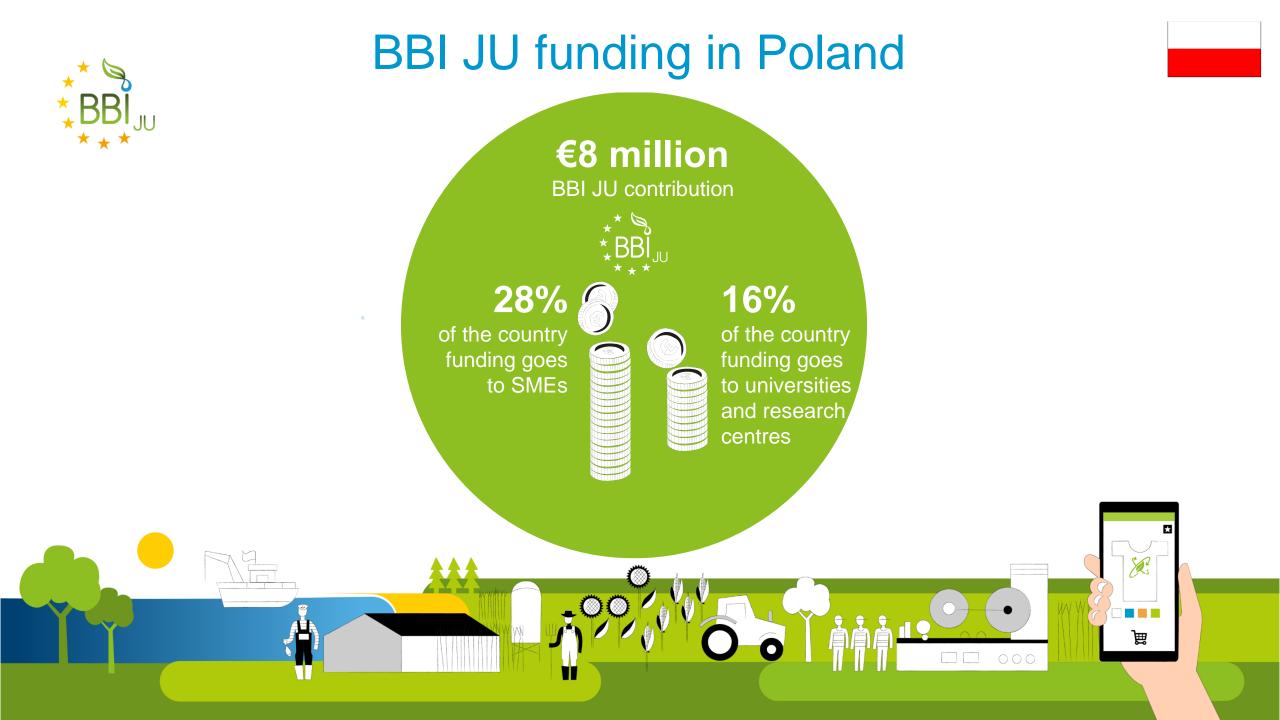
# BBI JU projects in Poland

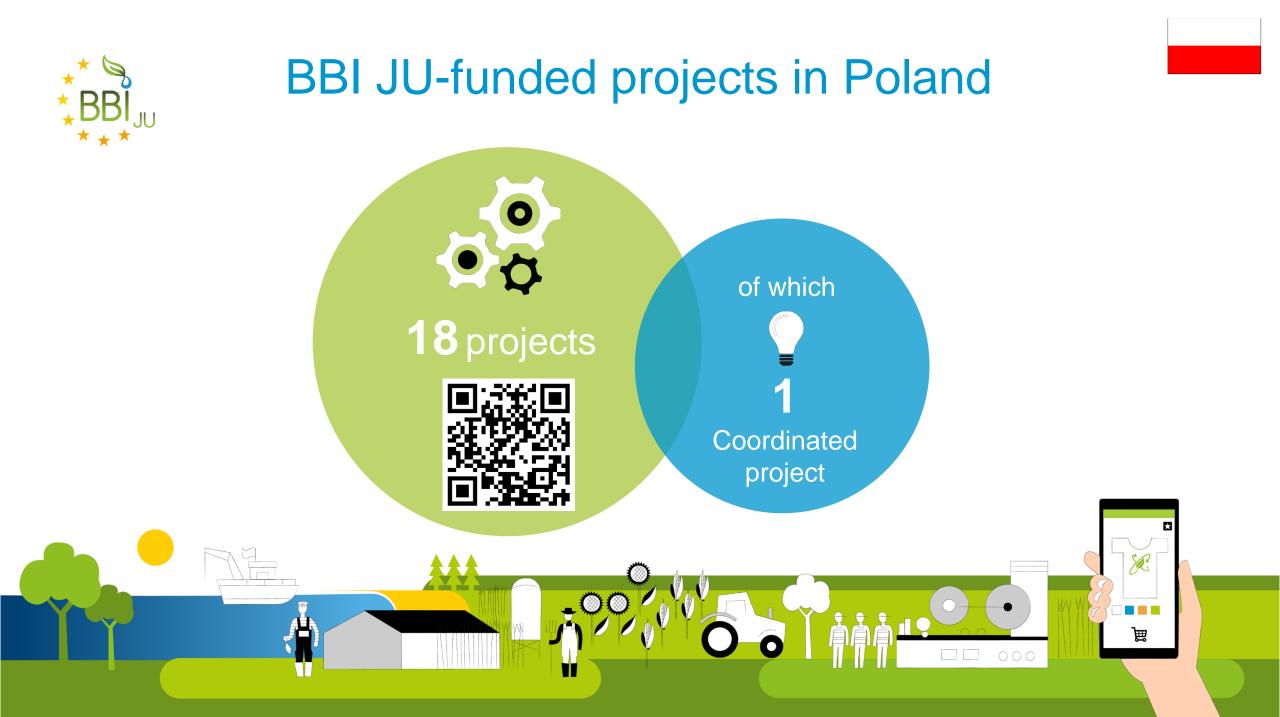


#### Participation in BBI JU

Bio-based industries have great potential in Poland, mostly linked to the exploitation of a wide variety of biomass. Polish beneficiaries in BBI JU projects focus mainly on innovation and demonstration of technologies and products. For example, the BIOMOTIVE project, coordinated by a Polish SME, processes forestry and agricultural residues into new sustainable materials for the automotive sector.









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#### Applicants per call for proposals





## Examples of BBI JU projects in Poland



**BIOMOTIVE** demonstrated the production of innovative and advanced bio-based materials for the automotive industry. Its demonstration plant has created new jobs while paving the way for additional investments in the bio-based economy in Eastern European countries.



**REFUCOAT** developed fully recyclable food packaging with enhanced properties and new functionalities. The new bio-based packaging improves fresh food preservation, reduces landfill waste, and has a more competitive process.



## Examples of BBI JU projects in Poland



**HYPERBIOCOAT** has examined existing technologies to develop biodegradable, low carbon footprint and healthy packaging derived from food processing by-products. This packaging meets consumer expectations and requirements of the demanding areas of food, cosmetic and medical device packaging.



HyperBioCoat

**BIOPEN** has driven a collaborative knowledge sharing programme within the bio-based industry by setting up an open innovation platform addressing strategic cross-cutting challenges. They brought together the expertise and promoted industry, researchers, and academia at the European and national levels.





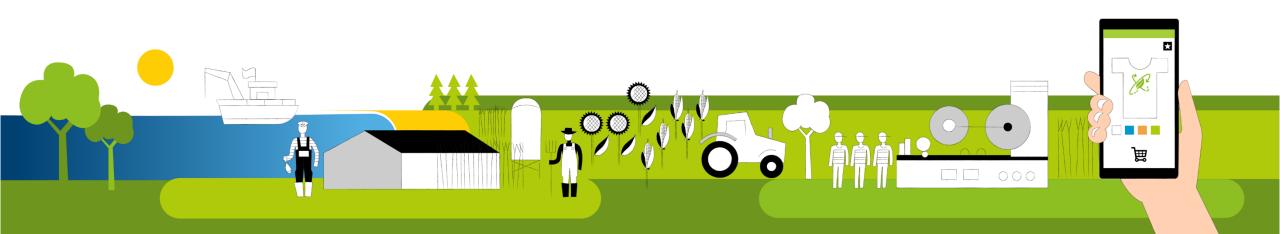
Bio-based Industries Joint Undertaking

# BBI JU projects in Bulgaria



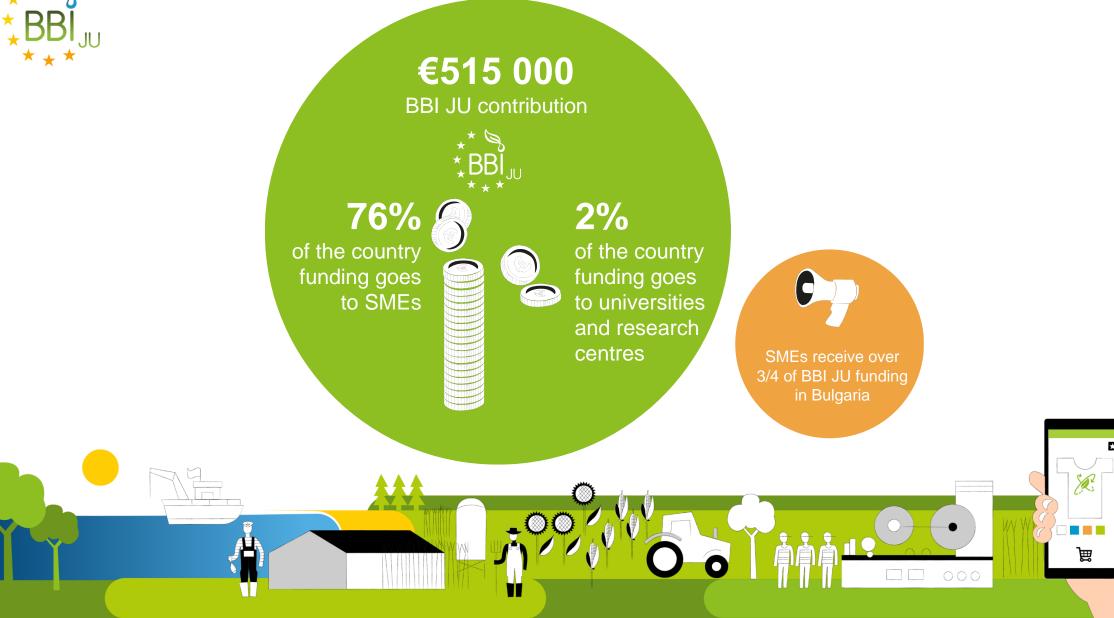
### Participation in BBI JU

The bio-based industries have the potential to revitalise regions and diversify farmers' income. Bulgarian partners in BBI JU projects mainly focus on dissemination and raising awareness about the bioeconomy. Bulgarian interest in BBI JU calls for proposals has steadily increased over the years and marked a record-high in Call 2020 with 29 participants.



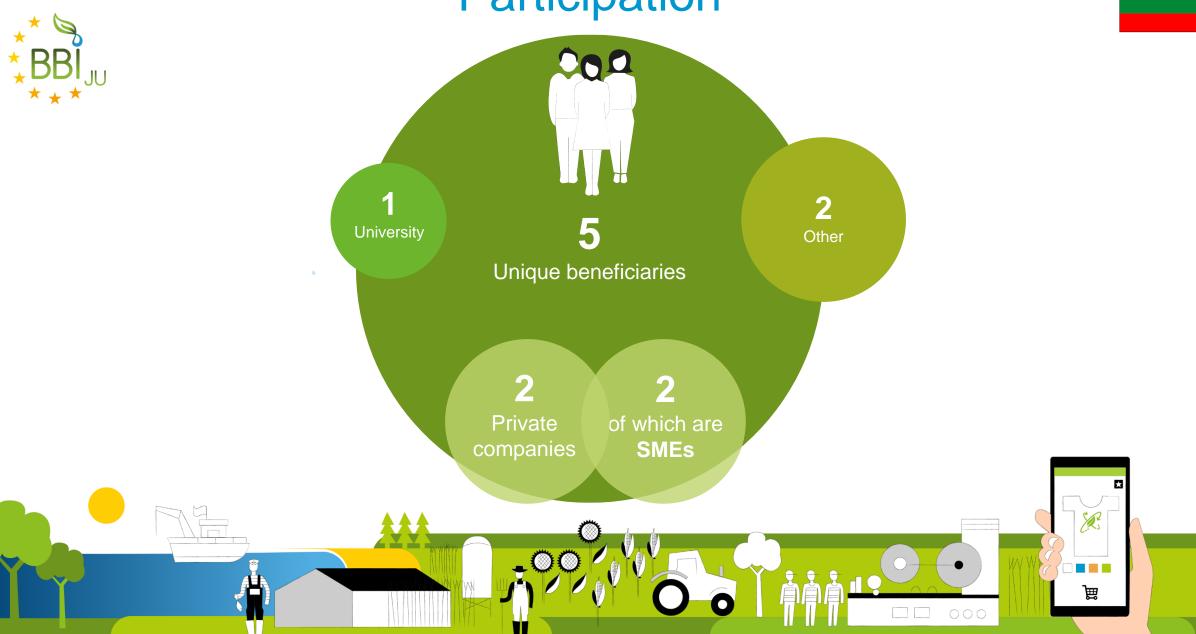


## **BBI JU funding in Bulgaria**











#### Applicants per call for proposals





## Examples of BBI JU projects in Bulgaria



AQUABIO PRO-FIT **AQUABIOPRO-FIT**'s main objective is to promote efficient utilisation of European aquaculture, fisheries and agriculture sidestreams in feeds and nutritional supplement products promoting fitness and health. To this end, the project will develop processing technologies to up-concentrate nutrients and bioactives and systematise existing knowledge and technologies on the field of organic nutritional supplements. The safety, bioactivity and acceptance of the developed ingredients and products will be documented through different studies.

www.bbi.europa.eu/projects/aquabiopro-fit





#### Examples of BBI JU projects in Bulgaria



**CELEBio** - Central Europe LEaders in Bioeconomy project strengthened the environment for bio-based businesses in eight countries of Central, Eastern and South-Eastern Europe that, according to the EU Innovation Scoreboard, are 'moderate or modest innovators' and that register scarcer interest for the activities and opportunities offered by BIC and BBI JU.

This goal was pursued by compiling and sharing fact-based information as well as by promoting networking among stakeholders in a broader regional and continental scope. Through the elaboration of evidence-based Action Plans for each of the targeted countries, as well as through the dissemination of information on the opportunities offered by BBI JU, the project team ses the grounds for further action in support of the uptake of bio-based technologies and facilitates matchmaking between stakeholders in research and industry.

www.celebio.eu/



### Examples of BBI JU projects in Bulgaria



**MPowerBIO** project seeks feedback from clusters, SMEs and investors on the challenges facing sourcing investments. It will build an online platform with digital tools for assessing investment readiness and provide training with ten 'train the trainer' events for 90 clusters across the bioeconomy, covering most of Europe, supported by an online platform. MPowerBIO will ensure that clusters become self-supporting, with the ability to maintain these skills within their own organisations. Ultimately, the project will be replicable to other areas.

Within this, it seeks to increase private investment in the bio-based sector by encouraging effective cooperation between SMEs and potential investors, enhance communication and dialogue between all stakeholders to help stimulate cooperation and partnerships, as well as to provide an economic boost for rural areas.

www.bbi.europa.eu/projects/MPowerBIO







# **BBI JU projects in North Macedonia**

Joint Undertaking

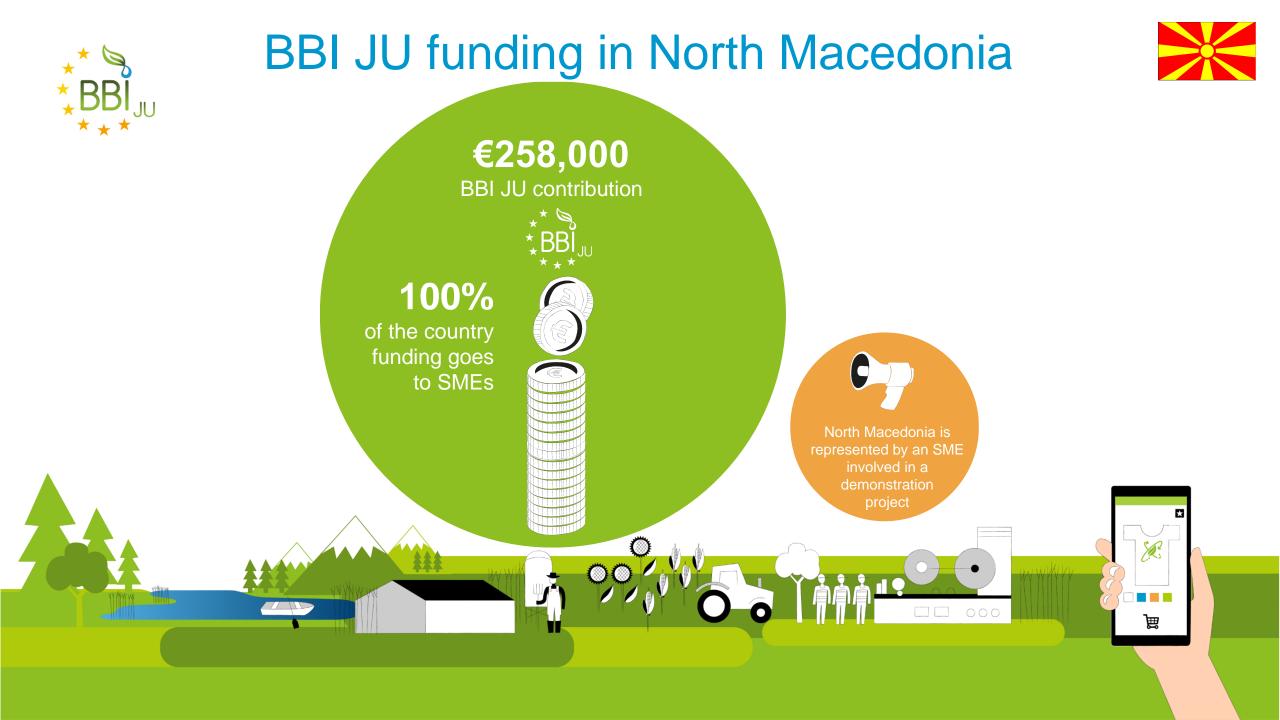




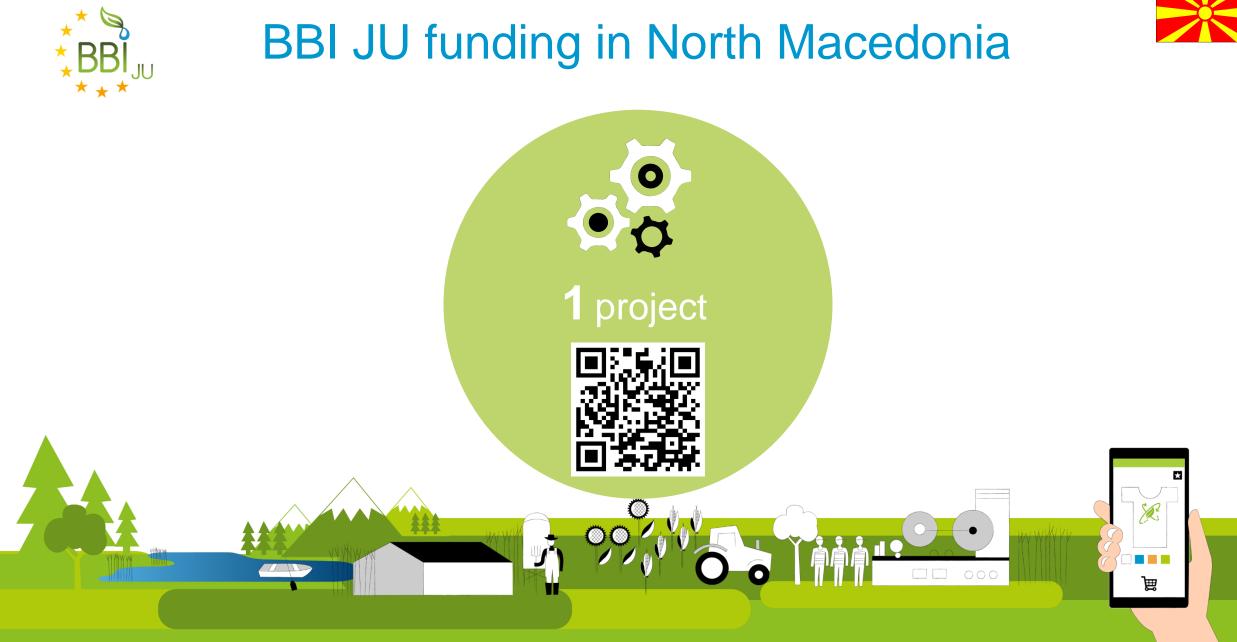
#### Participation in BBI JU

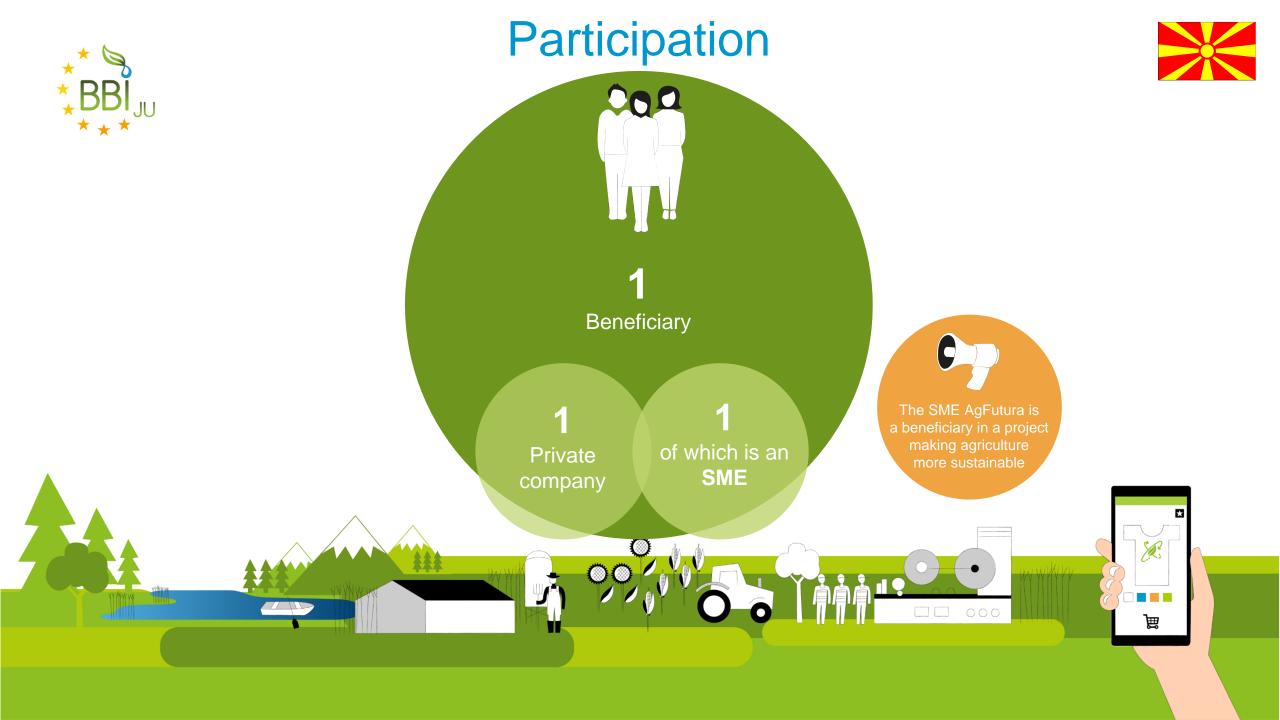
North Macedonia is represented in the BBI JU initiative by the SME AgFutura Technologies, a beneficiary in the B-FERST project. Through this project, the small business contributes to the development of new bio-based fertilisers and integrates the conversion of farming waste into agriculture management plans, thus making the sector more sustainable.









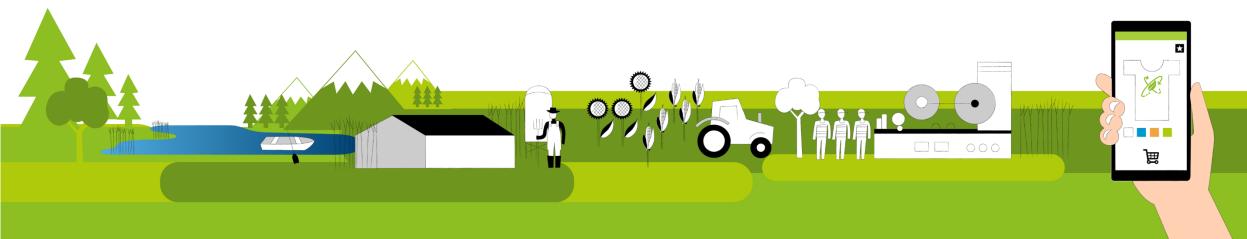




#### Applicants per call for proposals









#### Examples of BBI JU projects in North Macedonia





The **B-FERST** project will address the challenges linked to sustainable agriculture. It will propose a more efficient and circular use of resources in the farming sector by developing tailor-made bio-based fertilisers to improve the quality and fertility of soils.





- <u>COUNTRY INFOGRAPHICS</u>
- BBI JU PROJECTS
- BBI JU PARTNERING PLATFORM



#### **Contact us**



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