



Bio-based Industries
Joint Undertaking

BBI JU contribution to the agri-based sector

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 @zikaee

Supporting rural business success across Europe - Brussels, 24.10.2019

 **Bio-based Industries**
Consortium





BBI JU was part of the EU Bioeconomy Strategy in 2012

Mission

Under Horizon 2020 rules, implement the Strategic Innovation and Research Agenda (SIRA) developed by the European Bio-based Industries Consortium (BIC) and endorsed by the European Commission (EC)

European public-private partnership (iPPP) aims at:

De-risk investments

Reach **critical mass**

Organize the value chains

Implementation

Trigger + Keep + Attract
investments

Mobilising effect

Structuring effect



BBI JU: Public Private Partnership





BBI JU objectives

Develop sustainable and competitive bio-based industries in Europe, based on advanced biorefineries that source their biomass sustainably by:

- 1. Demonstrating new technologies** to fill the gap in value chains
- 2. Developing business models** integrating all economic actors along the value chain

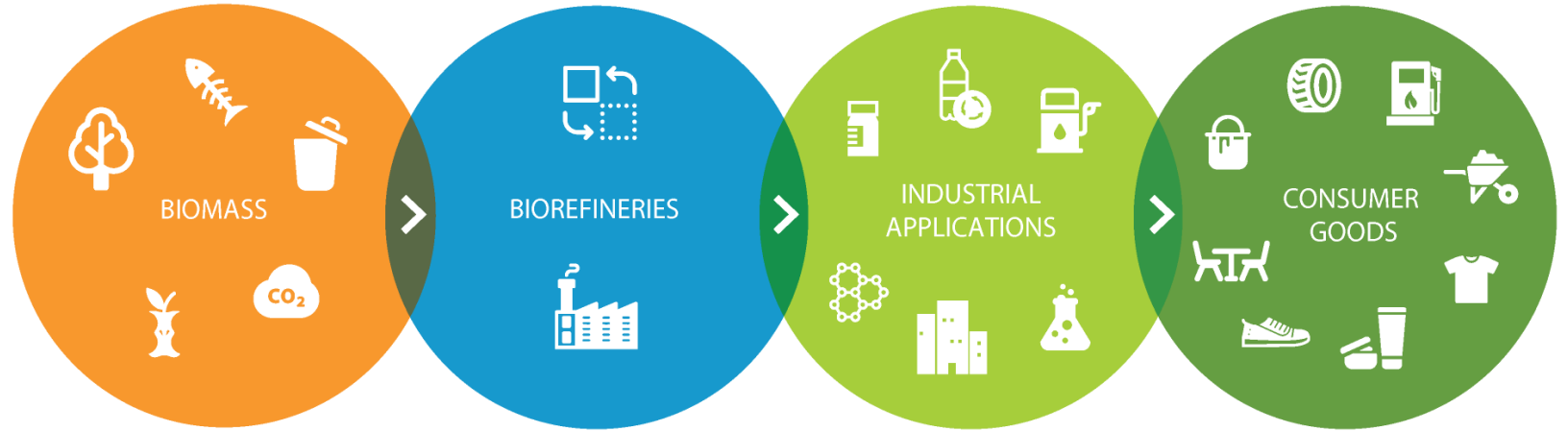
400.000 skilled jobs by 2020
rising to 700.000 skilled jobs by 2030



80% of which will be in rural areas



BBI JU Impact



By 2030

- 50% greenhouse gas emissions
- 20% biomass supply
- 25% mobilization of unused sources
- 30% replacement of petroleum-based products
- 10 times more bio-based materials



Output: a balanced project portfolio

Origin of the main source of feedstock

Calls 2014 + 2015 + 2016 + 2017 + 2018

		Per Type of Action		
Origin of feedstock		RIA	DEMO	FLAGSHIP
Per SO1 Feedstock	Agri-based	Carbosurf, PROMINENT, LIBBIO, HYPERBIOCOAT, Zelcor, BIOrescue, EnzOx2, InDIRECT, BioBarr, SSUCHY, ReSolve, BIOSMART, ECOXY, REFUCOAT, POLYBIOSKIN NEWPACK, Pro-Enrich, Prolific, EXCornsEED, VIPRISCAR iFermenter, USABLE PACKAGING, ECOAT	Pulp2Value, AgriMax, Funguschain, GreenProtein, LIPES, GRACE, OPTISOCEM, BIOMOTIVE SUSFERT, RelInvent, EFFECTIVE INGREEN	FIRST2RUN, LIGNOFLAG, BIOSKOH AgriChemWhey, PEFerence, FARMYNG, PLENITUDE
	Forest based	SmartLi, Greenlight, PROVIDES, US4GREENCHEM NeoCel, LIBRE, TECH4EFFECT, EFFORTE, SHERPACK SusBind, WoodZymes, UNRAVEL, GRETE, SElectiveLi, CelluWiz, SMARTBOX	ValChem, BIOFOREVER, GreenSolRes, PULPACKTION, FRESH, LigniOx Dendromass4Europe SYLFEEED, EUCALIVA, VEHICLE	EXILVA SWEETWOODS
	Bio-waste and CO ₂	NewFert, AFTERLIFE, PERCAL, BARBARA, BIOntop, MANDALA	EMBRACED, URBIOFIN, DEMETER, Biowaste, B-FERST, DEEP PURPLE, VAMOS	
	Aquatic Biomass	MACROCASCADE, BIOSEA, ABACUS, MAGNIFICENT, VALUEMAG, AQUABIOPROFIT, WASEABI	SpiralG	
Per SO4 Market uptake	SO4	Policy, regulations and standardization	Consumer awareness of the benefits of the bio-based products	Knowledge gathering and networking
	CSA	STAR4BBI	BioCannDo, BIOWAYS BIOBRIDGES	BIOPEN, Pilots4U, RoadToBio ICT-BIOCHAIN CELEBio, UrBIOfuture, LIFT



BBI JU contribution to the agri-based sector

In which way?

Integration of new value chains and creation new cross-sector interconnections

- Structuring effect and mobilization of actors across the whole value chain
- Integrate of food and non-food value chains for an optimized use of natural resources
- Create cross-sector interconnections with sectors traditionally non bio-based (e.g. automotive)

Sustainable sourcing of biomass

- Valorise agricultural residues and side-streams from agro-food sector
- Sustainable cultivation

More efficient processing

- Promote a cascading use of biomass
- Sustainable end-of-life
- Development and deployment of innovative technologies

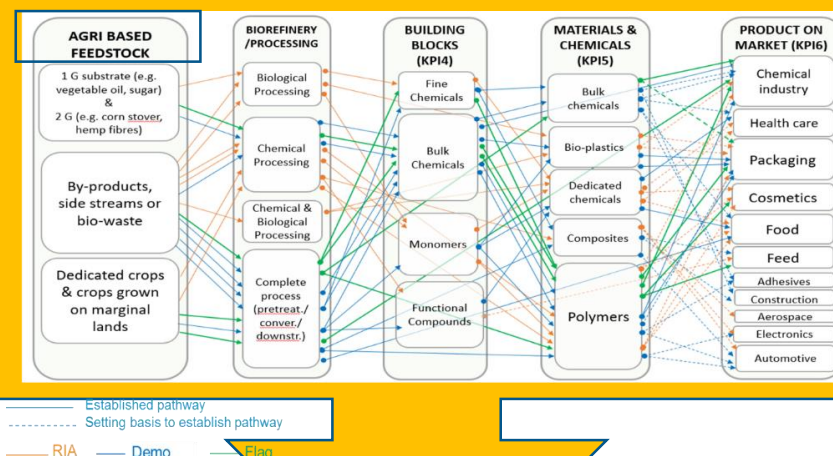
BBI JU contribution to the agricultural sector

New bio-based value chains

BBI new value chains:

- Non-linear
- Integrate food and non-food value chains
- Valorisation of food processing industries
- Diversity of applications of agri-based VCs
- Enormous potential and opportunities for agricultural sector

> 100 new bio-based value chains



Target 2020: 10

SIRA 2014 (BIC)
'linear' value chain
1 feedstock, 1 product

1 feedstock → Non-food VC → 1 product



BBI JU contribution to the agricultural sector

Impact on primary producers and rural development

- > **25 %** of BBI JU projects report to contribute to:
 - Growth of income of primary producers (farmers, forest owners,...)
 - Help primary producers to diversify their income sources
 - Contain primary producers as beneficiaries
- > **40 %** of the projects contribute to the creation of jobs in rural areas
- > **15 %** of the projects valorise unexploited marginal land

BBI JU Stakeholder Forum 2019

Register by 25 November!



4 December 2019



The Egg, Brussels



stakeholderforum.bbi.europa.eu



600+ attendees expected



100 projects exhibiting



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BBI JU Stakeholder Forum 2019

4 December 2019


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Thank you!


Contact us

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 www.bbi-europe.eu

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 Bio-based Industries Joint Undertaking

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Rural Business Innovation Awards

**Bio-based value chains category:
the nominees**



This project has received funding from the European Union's Horizon 2020 research and Innovation programme under grant agreement N°773621.



Bio-on Italy

Naturally biodegradable bioplastics

- Fully **bio-based** and **100% biodegradable** bioplastics
- Natural and **environmentally-friendly** production process
- New **value creation** for agricultural by-products and waste
- Booster for the **bioeconomy** creating new direct and indirect **skilled job opportunities**

bio-on



Learn more



bit.do/bioon



Bio Oils Huelva Spain

Sustainable biodiesel from residual oils

- Patented process for producing **biodiesel** from residual oils
- Sustainable production and product with reduced emissions
- Strong growth and **scale up potential**

BioOils
Huelva S.L.



Learn more



bit.do/biooils



DMINOR Belgium

Renewables made profitable

- Pharmaceutical innovations tailored to **improve biogas production efficiency**
- Delivering a **quick return on investment** and high profitability for agri-food businesses
- Improved potential for this circular and renewable energy source



Learn more



bit.do/dminor



Fiusis Italy

Clean energy from agricultural prunings

- Unique micro-cogeneration plant (1 Megawatt electric) producing “clean” heat and electricity from olive tree prunings
- **Circular economic business model** that turns agricultural waste into a source of energy
- **New job opportunities** in an area with the highest unemployment rates in Europe



Learn more



bit.do/fiusis



Ocean Rainforest Denmark



SUSTAINABLE NORDIC SEAWEED

Carbon negative superfood

- Scalable and survivable macro-algae cultivation rig
- Mitigates the effects of climate change by absorbing CO2
- Sustainable alternative for food and feed
- Creates jobs with a short supply chain benefitting local economies



Learn more



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Pomacle Bazancourt France

Open source biomass platform

- Industrial scale biorefinery (4 Mt biomass/year) created by a group of local farmers
- Production of biomaterials and biofuels
- 8 companies and open innovation platform approach
- Over 2000 direct and indirect jobs created



Learn more



bit.do/pomaclebazancourt