



Bio-based Industries
Joint Undertaking

“Bio-based value chains: Challenges and opportunities for the farming sector and rural areas”

Ana Cuadrado Galván
BBI JU - Project Officer

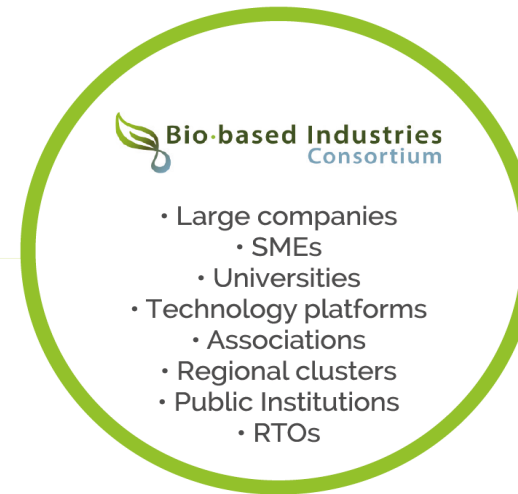


BBi JU: Public - Private Partnership

OBJECTIVE

Support the transition from a fossil-based to a bio-based economy.

Developing a sustainable and competitive bio-based sector in Europe



MISSION

Under Horizon 2020 rules, implement the Strategic Innovation and Research Agenda (SIRA)





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, ReInvent, 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
- **More efficient processing**
 - Promote a cascading use of biomass
 - Sustainable end-of-life
 - Development and deployment of innovative technologies
- **Production of new bio-based ingredients and products**
 - Bio-based ingredients and additives with enhanced nutritional value
 - Bio-based chemicals and products replacing hazardous fossil-based counterparts
- **Socio-economic impact**
 - Contribute to rural revitalization (abandoned or underutilized land)
 - Creation of jobs and growth of income of primary producers



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 valorize unexploited marginal land

(*) Expected data by 2020 as reported by project coordinators in KPI & Impact Questionnaire in 2018




Study on the participation of the agricultural sector in the BBI JU: Business Models, Challenges and Recommendations to enhance the impact on Rural Development


- The concept of bioeconomy is still new and unclear – the challenge of awareness raising, communication, and increasing the level of know-how.
- Policy coherence and consistency – the challenge of contradictory policy goals for various policy areas being converted into regulations with contradictory end-goals.
- Importance of market demand – the challenge of deficient market pull, both for final bio-based products, and for agricultural feedstock as input to the bio-based sector.
- Difficulties inherent in the initial steps of new bioeconomy activities – the challenge of overcoming difficulties in initiating new relations and new productions.
- The structure and characteristics of the agricultural sector – the challenge of innovating and being an entrepreneur when income is limited and your business is of limited size.
- The output of agricultural production is a bulk product – the challenge of adding value to your product as a farmer, and the challenge of taking on a different role in the value chain.




Thank you!


Contact us

 info@bbi.europa.eu

 www.bbi-europe.eu

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