



IL RUOLO DELLE CATENE DEL VALORE NELLE FILIERE LOCALI

Kick-Start Workshop

IFL



11/12/2025, Trieste

PARTNERS



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CNTA



ItaliaForestaLegno





What is bioeconomy?

Examples from all over Europe

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Digestate and biochar

Increasing Yields and Quality of Agricultural Production

Biochar added to anaerobic digestate, joint maturation

- Improved nutrient bioavailability for plants and soil microorganisms
- Preserves fertility potential and functional diversity of soil microorganisms

→ Reduce dependence on industrial fertilisers

Application & first results

- R&I near village of Sloveč, Czech Republic
 - Yield increase, crop quality improved
- Annual total benefit of ca. 50 EUR/ha

Long-term increase in hectare yields

silage maize	3.14–6.71 %
winter wheat	3.44–9.91 %
winter rapeseed	10.68–14.90 %



T A
C R

Technology Agency of the Czech Republic

Agri-food case Flanders

Cheese whey: by-product of cheese production

- Production of 9 L whey per kg cheese
- Rich in proteins, minerals, lactose

Current valorization

- Cheese whey to ricotta cheese
- Small/medium cheese producers: pig feed
- Large cheese producers: powdering of whey for use in food applications



Agri-food case Flanders

Examples of alternative valorization

- Biological cheese whey bread
- Rice porridge in cake
- Soup
- Whey beer (Whey'coholic)
- Microbial fermentation for feed



Bio-based chemical industry

Production of microbial cellulose from food and agro waste streams



Waste sides-streams



Surface Chemistry



Cosmetics



Agriculture



Biobased &
Biodegradable products



Food &
Beverages



Fermentation



Sugar beet pulp valorisation

Adding sugar beet fibres to paper packaging

- Sugar beet pulp is side product of sugar production
- Currently low valorisation
- 20 % addition of sugar beet pulp to packaging paper
- Fully recyclable
- Reduction of ecological footprint



Pfeifer & Langen



Turing wastewater into products

Compostable packaging and bioplastics from potato processing water

- Problem: potato by-products and wastewater generate management costs and a negative impact
- Turn an environmental and economic problem into a strategic opportunity
- Waste streams are converted into starch, which is then transformed into biodegradable thermoplastics for packaging and agricultural mulching
- Reduction of Chemical Oxygen Demand (COD) of the water by 79 %
- Opening of new business line and diversification at UDAPA → improvement of competitiveness, sustainability positioning

From coffee grounds to leather

Production of bio-leather from coffee grounds

- Collection of organic waste from industrial coffee producers
- Mixing the coffee waste with bio-based thermoplastic granules (formula free of solvents, plasticizers and chemical dyes)
- Customized production (granule extrusion, sheet extrusion and pattern application)
- Selling B2B: over 100 products samples for applications in furniture, accessories, automotive and fashion

BIOSYNESS
100% MADE IN ITALY

Menu Cerca Notifiche

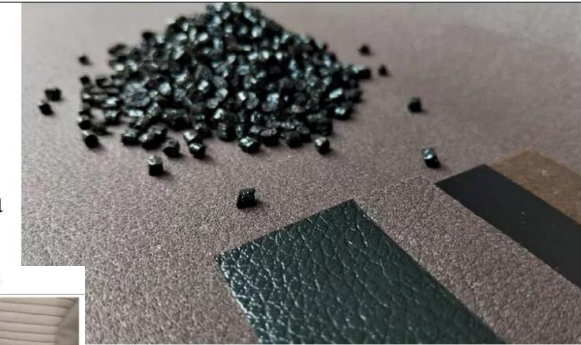
la Repubblica

ABBONATI R Accedi

Una pelle vegana dagli
scarti del caffè, che si ricicla

Cerca Notifiche

la Repubblica

Source: [la Repubblica](https://www.larepubblica.it)



What is BIOECONOMY GIANTS?

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In a nutshell



Work programme	HORIZON-JU-CBE-2024-CSA-01
Type of action	Coordination and Support Action (CSA)
Grant Agreement No	101213069
Start date	01 June 2025
Duration	30 Months
Budget	€ 3,999,466.25
Coordinator	Asociacion Cluster FOOD+i
No of partners	18 partners (8 EU countries)



	5 CLUSTERS & 1 NETWORK
	6 RTOS & 3 UNIVERSITIES
	3 SMEs

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The challenge



Primary producers need to **intensify their connection** to the bioeconomy value chain

- ❑ **Complex collaboration network** in the bioeconomy ecosystem
- ❑ **Interdisciplinary skills** required in the primary production sector
- ❑ **Limited funding** for capacity growth & market stimulation of bio-based products

The solution

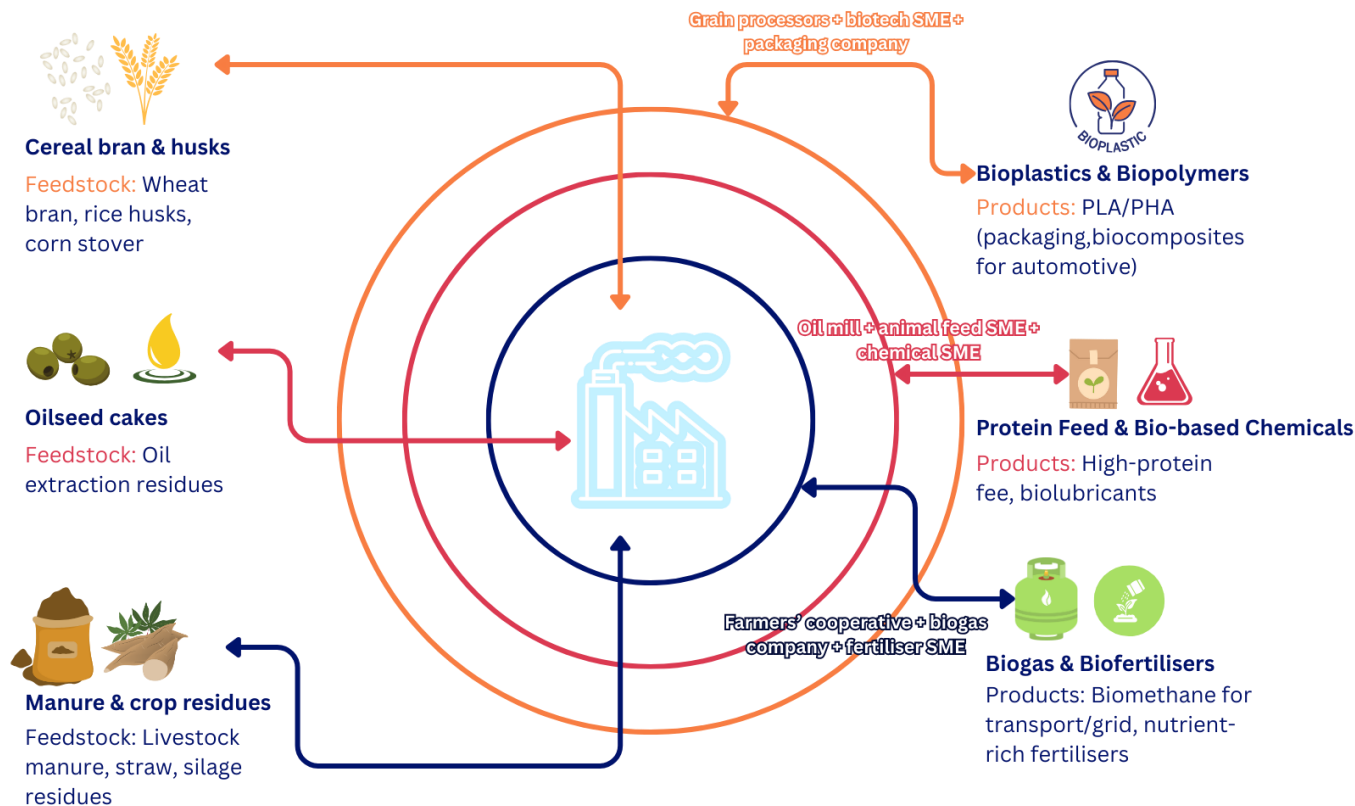
BIOECONOMY GIANTS addresses these challenges by promoting **cooperative and circular bio-based business models (CCBBMs)** and fostering new forms of collaboration between **rural actors and bio-based industries**.



Empower farmers & foresters as key bioeconomy stakeholders

From Waste to Value: Building CCBMs

Potential business models based on agriculture side-streams



- Bioplastics & biopolymers from cereal bran & husks
- Protein feed & bio-based chemicals from oilseed cakes
- Biogas & biofertilisers from manure & crop residues

Expected results

More than 9 forms of cooperation for efficient utilisation of untapped secondary biomass

Strengthened capacity of more than 20 value networks such clusters of primary producers

More than 200 trained and upskilled primary producers and bio-based ecosystem

More than 40 sustainable and circular value chains

More than 40 innovative business and governance models adopted

More than 30 new high-added value bio-based products and services piloted and scaled up

Policy recommendation and a replicability guide



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Value Proposition

Trailored training

Direct funding

- travel vouchers for primary producers: Bioeconomy bootcamp
→ Conditions will be published by June 2026
- up to 70 k EUR for max. 4 consortia

Decision-support tools



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Kick-Start Workshop

Outlook for today

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Aims for today

Kick-Start Workshop

- Create a common understanding of bioeconomy and circular economy
- Identify regional challenges and enablers for bioeconomy innovations
- Foster collaboration among participants (primary producers, technology providers)
- Initiate the implementation of CCBMs



Agenda

12:00	Start und <u>Willkommenskaffee</u>	
12:10	Vorstellungsrunde und <u>Projektvorstellung</u>	Tatjana Schwabe-Marković Markus Müller
12:40	Workshop Stufe 1: Identifizierung	Relevante Seitenströme Innovative Technologien Barrieren und Erfolgsfaktoren
13:25	Workshop Stufe 2: Konkretisierung	Priorisierung Verknüpfen relevanter Seitenströme mit Innovationstechnologien
13:40	Workshop Stufe 3: Validierung und Umsetzung	Aufzeigen von Umsetzungspfaden Nächste Schritte
14:00	Gemeinsamer Mittagssnack	Netzwerken untereinander
14:30	Start Strukturwandel-Safari	Separate Anmeldung erforderlich

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