Ecomondo 2026

Breaking down silos: industries and local areas for innovation

Catia Bastioli– Novamont CEO

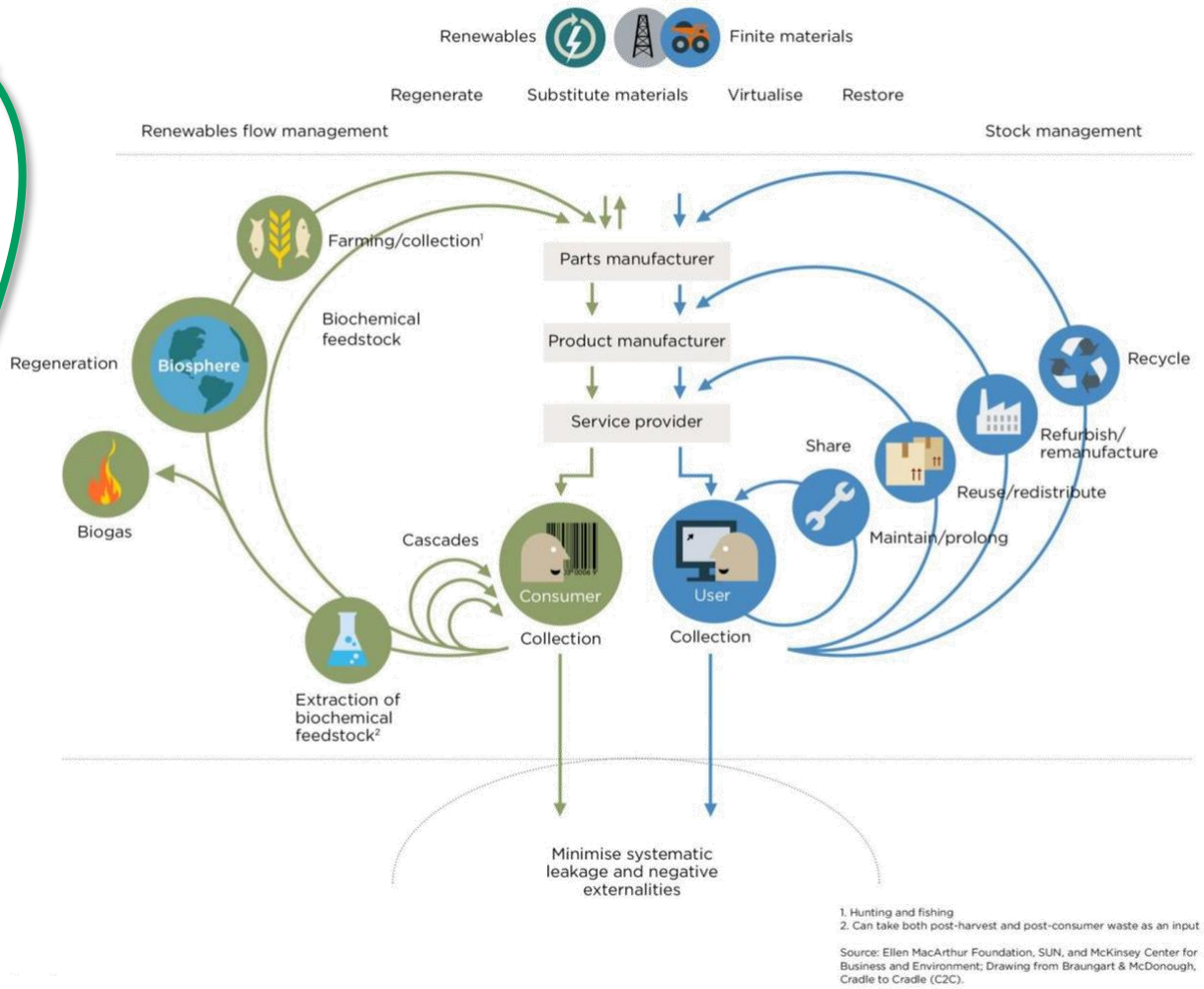
Circularity: two complementary material cycles

BIOLOGICAL CYCLE

Regenerate natural systems

Biological materials return safely to nature, helping regenerate soils and ecosystems.

Circular bioeconomy operates here



TECHNICAL CYCLE

Preserve material value

Keep technical materials in use for as long as possible through reuse and recycling.

NOVAMONT

An integrated platform for systemic innovation

Innovation becomes transformative when it goes beyond a single product or a single technology and becomes a system

Integrated biorefinery

Novara
HQ and research centre

Rivalta Scrivia
Research centre

Bottrighe di Adria
Bio-BDO

Terni
Mater-Bi, Origo-Bi, Matrol-Bi

Porto Torres
Azelaic and pelargonic acids, C5-C9, heavy tails, glycerin

Patrica
Mater-Bi, Origo-Bi, Bio-THF

Piana di Monte Verna
Biotechnology research centre



Biorefinery
From renewable raw materials to new biochemicals



Integrated agricultural value chain

Biochemicals

- Azelaic and pelargonic acids
- Fatty acids C5–C9
- Heavy tails
- Glycerin
- Bio-BDO
- Bio-THF

Products and applications

- **Bioplastics:** Mater-Bi
- **Biostimulants:** VEGOR-BI
- **Crop protection:** AGER-BI
- **Biolubricants:** MATROL-BI
- **Cosmetic ingredients:** CELUS-BI

A connected ecosystem

Farmers — Composters — Brand owners — Converters — Local administrations — Municipalities — Retail — Institutions and networks — Universities and research — Industries and associations

Continuous research and innovation

A simple compostable bag helped change everyday habits

Italy as a model for organic waste collection in Europe



Europe: 60 M ton of organic waste to be recovered

A value chain for quality compost

250 Composting plants

66 Integrated aerobic/ anaerobic plants

28 Anaerobic digestion plants

Collection in Italy

2007: **2.5** million tonnes → 2024: **>7.7** million tonnes

Food waste collected separately

Italy **72%** | Europe **26%**

Italy is first in Europe for the recycling of food waste, also thanks to the bioplastics and biochemicals supply chain

Sources: ISPRA Rapporto rifiuti urbani 2025; Municipal Waste Report 2024. ZWE/BIC, Bio-waste generation in the EU, 2024. Plastic Consult for Assobioplastiche, 2023.
72% and 26%: share of food waste potential intercepted.

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From by-product valorisation to value for Made in Italy

Solutions that are already available and integrated throughout supply chains can have a significant—rather than merely niche—impact on productivity, quality, autonomy, and agricultural income..

VALUE CHAINS AND MARKETS	TECHNOLOGIES INTEGRATION	VALUE FOR FARMERS
PROCESSING TOMATO **5,84 Mt** Production 2025 **78.695 ha**	**MATER-BI** Family of bioplastics for packaging and agricultural mulching. Certified as soil improvers (Regulation EU 2019/1009). **AGER-BI** Pelargonic acid-based bioherbicide featuring an enhanced proprietary formulation.	**Less input and water, higher yield, processing efficiency and income**
FOURTH AND FIFTH RANGE **€1,0–1,2 mld** Italian Market **182,6 M kg** Retail sales	**MATROL-BI** Family of biolubricants for tractors, agricultural machinery and other applications. **VEGOR-BI** Plant biostimulant developed through a proprietary process.	**More cycles/year* × higher yield/cycle × longer shelf life + compost to soil**
WHEAT **5,95 Mt** Production 2025 **~1 Mt** imports		**Higher yield, higher grain weight and protein content**

OUR PROPOSAL TO SUPPLY CHAINS/REGIONS: LET'S IMPLEMENT TOOLS THAT ALLOW US TO JOINTLY TEST POTENTIAL IN THE FIELD SHARING ECONOMIC ADVANTAGES

Fonte pomodoro: ANICAV (Associazione Nazionale Industriali Conserve Alimentari Vegetali), CS-ANICAV-fine-campagna-2025.pdf
Fonte quarta e quinta gamma: Distribuzione Moderna, IV e V gamma, l'assortimento favorisce la crescita
Fonte Frumento: ISTAT, Produzioni agricole e zootecniche – Anno 2025 – Istat

“The challenge of our millennium is in the balance between the technical means that humanity possesses and the wisdom in how we will make use of them”.

Umberto Colombo

Thank you for your attention!

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