

NOVAMONT AN INTEGRATED APPROACH TO BIOECONOMY AND BIOCHEMICALS

EUROPEAN PARLIAMENT
28 JUNE 2016, BRUXELLES



INFRASTRUCTURES IN THE LOCAL AREAS AS A KEY ELEMENT FOR BIOECONOMY: THE CONTRIBUTION OF NOVAMONT

Novamont has made pioneering investments in Italy re-activating many industrial sites, thanks to its proprietary technologies, thus giving to Italy a leadership in the bioplastics market and laying the foundations for the growth of biochemicals

Converting
decommissioned industrial sites thanks to innovative and proprietary technologies

PROPRIETARY TECHNOLOGIES



Development of **integrated Biorefineries** aimed at enhancing the peculiarities and the biodiversity of the local areas

LOCAL AREAS



Collaborations with the world of Agriculture, Research, Industry, Institutions & Associations, large-scale distribution (LOD), big brands

PARTNERSHIP WITH OTHER SECTORS



**NEW JOB OPPORTUNITIES – NEW VALUE CHAINS - NEW PRODUCTS – NEW PROJECTS –
NEW SOLUTIONS FOR NEW DEVELOPMENT MODELS,**

NOVAMONT: A KNOWLEDGE-BASED INDUSTRY

1996: RESEARCH CENTRE
2015: **170 MIO/€** TURNOVER
600 PEOPLE

25-YEAR R&D EXPERIENCE
> **6%** OF TURNOVER
20% OF EMPLOYEES
~ **1,000** PATENTS

INDUSTRY

R&D

HUMAN
CAPITAL

 PRODUCTION

 NOVAMONT location  Business network



Novamont
North America Inc.
Shelton, Connecticut (USA)

Novamont
France
Paris (France)

Novamont
Representative office
Bruxelles (Belgium)

Novamont
GmbH
Eschborn (Germany)

MORE THAN **300** TRAINING
PROGRAMMES SINCE 2000 IN
COLLABORATION WITH
LEADING R&D INSTITUTIONS

FROM NOVAMONT RESEARCH

IT BECOMES



Innovative family of bioplastics based on vegetable resources and polymers which are biodegradable and compostable



Created to find **solutions** for specific environmental problems and applications (e.g. separate collection of organic waste)

Use of **renewable raw materials** (low-input crops, scraps)

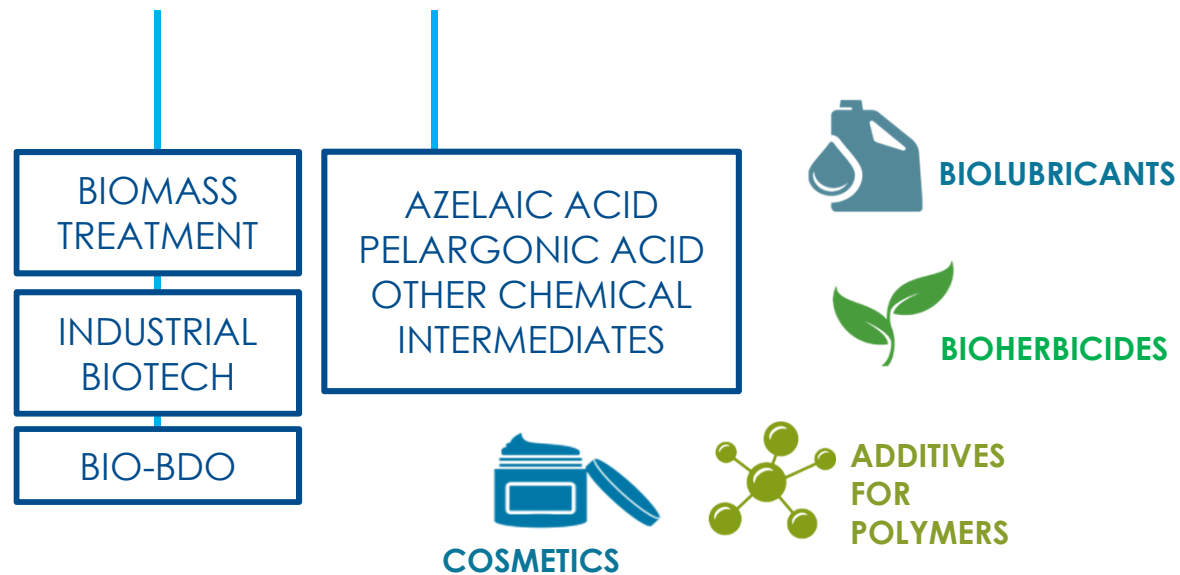
Biodegradable with the possibility of organic recovery, through **composting**

UPSTREAM INTEGRATION OF NOVAMONT'S TECHNOLOGIES

UPSTREAM INTEGRATION OF THE BIOPLASTICS VALUE CHAIN



CREATION OF BIOECONOMY INFRASTRUCTURES IN THE LOCAL AREAS



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Italian Locations
 Subsidiary companies



Novamont
Novara
 Headquarter and
 Research Centre



Mater-Biotech
Adria (RO)
 Flagship for bio-
 butanediol production
 through fermentation
 processes



Matrica
Porto Torres (SS)
 Flagship for azelaic
 and pelargonic acids,
 their esters, plasticisers,
 bioherbicides, basis for
 biolubricants

 Integrated agricultural
 value chain



Novamont
Terni
 Mater-Bi production

Sincro
Terni
 Reserach on
 intermediates from
 RRM



Mater-Biopolymer
Patrica (FR)
 Production of
 polyesters from
 vegetable oils



Novamont
Piana di M. Verna
 Biotechnology
 Research Centre

WHERE NEW BIOPRODUCTS CAN CONTRIBUTE TO THE QUALITY OF THE ENVIRONMENT ... and what do more



BIOPLASTICS: PROPRIETARY MATER-BI OF THIRD GENERATION (WITH AZELAIC ACID)

PLASTICIZERS FOR PVC AND OTHER POLYMERS AS REPLACEMENT OF PHTHALATES

MARINE AND INDUSTRIAL APPLICATIONS (HIGH LUBRICITY, BIODEGRADABILITY, LOW FLAMMABILITY)

PALM OIL FREE COMPONENTS FOR COSMETICS

OIL EXTENDERS FOR RUBBER

BIO-HERBICIDES FOR INTEGRATED AGRICULTURE

- Overall policy approach to develop bioeconomy: an important opportunity is the Circular Economy Package, Fertilizers Regulation, GPP
- Training programs involving private, public money/ Foundations (green jobs)
- Standards for innovation
- Measures to recognize the added value of the use of bio-based products in sectors where the environmental pollution is clearly a risk (i.e. biolubricants, bio-herbicides)

THANK YOU!

«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