

ABOUT MATERIA NOVA

Materia Nova is recognized as a technological accelerator of sustainable innovations in the field of new materials and processes.

The R&D center offers five different services:

- **Materials and Processes conception and innovation**
- **Equipment Design and Process Upscaling**
- **Analysis and Characterization**
- **Life Cycle Thinking**
- **Project Development and Management**

The approach of Materia Nova is based on an open and collaborative innovation.

From the understanding of the problems and requirements of our customers, we jointly select the best scientific and technical solutions which are then tested on a pilot-scale before industrialization. The development and the service provided are always unique and customized and give effective solutions as well as a major competitive advantage to our customers.

OUR TECHNOLOGIES AND SOLUTIONS

Our expertise in **surface coatings and treatments**, in **polymers and composites** and in **biotechnology** is fertile ground for:

- **developing new functional performances of materials,**
- **taking up the energy and environmental challenges of our society,**
- **protecting and promoting the health sector.**

OUR STRENGTHS

- A multidisciplinary team of experts
- A wide range of cutting-edge equipment
- An open and collaborative innovation strategy at national and international level
- Innovative projects for and with industrial companies
- Collaborations with R&D centers and universities worldwide
- A strong network of companies, spin offs and start-ups (B-SENS, ESIX and IONICS)

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Chèques-
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UMONS
Innovation
Center



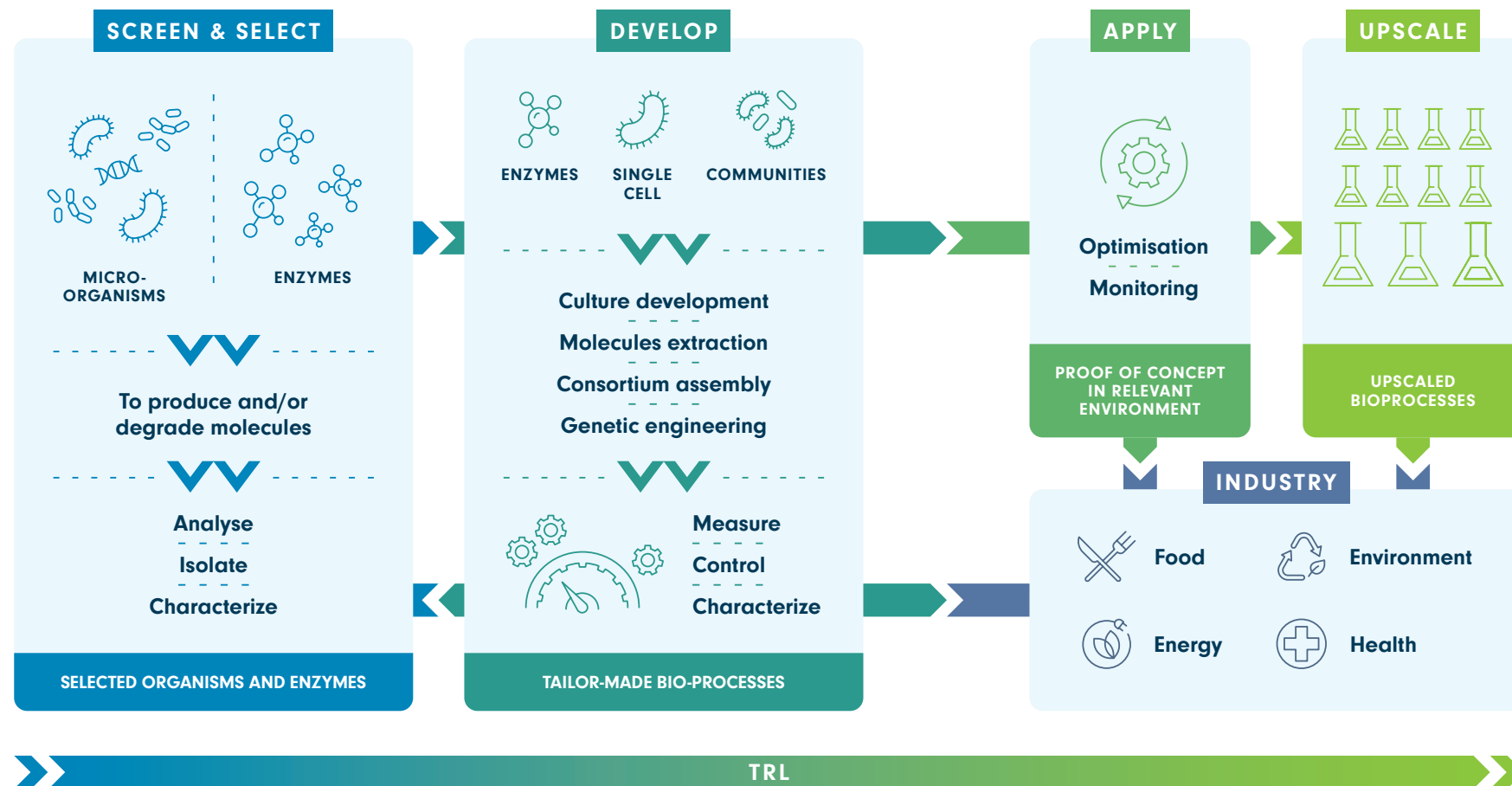
BIOTECHNOLOGY

MATERIA NOVA, THE TECHNOLOGICAL ACCELERATOR
TOWARDS A BIO-BASED ECONOMY

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Bio-based processes and products based on biocatalysis

Our mission is to exploit the biocatalytic capabilities of organisms towards a sustainable and bio-based economy. We are working hands in hands with you to develop tailor-made products, processes and detection methods while evaluating their environmental impacts.



APPLICATIONS

Food

- Biostimulants
- Bio based packaging
- Plant response testing

Energy

- Biofuels
- Biomethanation optimisation

Health

- Antimicrobial & antiviral molecules and testing
- Microbial detection & sensors
- Cytotoxicity testing
- Detergents and cleaning products

Environment

- Depollution processes
- Molecules production by re-/up-cycling
- Plastic biodegradation
- Ecotoxicity testing
- Biodegradation testing
- Rapid detection methods and sensors
- Antifouling

