





THE FRENCH OPEN INNOVATION PLATFORM FOR CHEMISTRY AND ENVIRONMENT

AXEL'ONE FOR STARTUPS, SMEs, INDUSTRY AND ACADEMIC LABORATORIES pooling tools, expertise and services for innovation projects







> 200 researchers

16 SMEs

40 collaborative projects

9000 m² 3 sites

4,7 M€ turnover



3 KEY TECHNOLOGIES DEDICATED TO CLEAN PROCESSES AND INNOVATIVE MATERIALS



SMART PROCESS



CATALYSIS



ADVANCED MATERIALS



DIGITAL & DATA SIENCE

- Tools and expertise for collaborative projects
- TRL from 2 to 7 Fundamental Research and Scale-up
- Several pilot lines referenced at EPPN
- Already involved in 3 NMBP projects for process up scaling



Domaine d'expertise

=> Appel H2020 visés

CE-SC5-24-2020 Improving the sorting, separation and recycling of composite and

multi-layer materials

CE-SC5-28-2020 Develop and pilot circular systems in plastics, textiles and furniture sectors

CE-BIOTEC-09-2020 Upcycling Bio Plastics for packing food and drinks

CE-SC5-07-2020

Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

Polymer-based materials:

Process intensification

Process intensification, reactive extrusion, 3D printing, characterization

Technology offering by Axel'One

On line Analysis for R&D and industrial production: Gases, liquids, solids

⇒ Thematics

Matériaux et procédés avancés de fabrication (pilier 2) Economie circulaire (défi 5)





OUR EXPERTISE TROUGHOUT SOME OF OUR PROJECTS

Catalysts up-scaling thanks to Axel'One tools

- MOF production (17 kg) by ATEX spray drying PRODIA (NMBP)
- Hybrid silica production (1 kg) HCCAT (NMBP)









Collaborative work on industrial analysis

- Hydrogenation study on Axel'One's analytic pilot and development of online spectroscopy analysis
- On-line analysis (viscosity, Raman, SRS...) for polycondensation monitoring







Access to a 3D printing prototype tool

- Open Source 3D printer (Soft, hardware, Materials) with a room heated up to 250°C.
- Project of new printing head for pellets.

Advanced materials processing & shaping tools

- Process intensification : formulation and dispersion of active molecules
- Continuous process development : extraction of active ingredients from biomass giving access to new products





AN INDEPENDENT ASSOCIATION WITH 10 FOUNDING MEMBERS (PRIVATE & PUBLIC)























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