



UNIVERSITÀ DEL PIEMONTE ORIENTALE



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MULTI-site
organic-inorganic
HYbrid CATalysts
for MULTI-step
chemical processes



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www.multi2hycat.eu

THE PROJECT

MULTI2HYCAT (MULTI-site organic-inorganic HYbrid CATalysts for MULTI-step chemical processes) is a research & innovation project funded by the EU Horizon 2020 programme, coordinated by the University of Piemonte Orientale Amedeo Avogadro. Its goal is to design, obtain proof of concept, upscale and obtain industrial validation in a pre-pilot reactor of a new class of hierarchically-porous organic-inorganic hybrid materials to be used as active catalysts in multi-step asymmetric catalytic processes.

BENEFITS

The MULTI2HYCAT solutions will bring relevant impacts at different levels, such as:

- a) Innovation and Advance of Knowledge: the novel materials will be the result of breakthrough innovations in multisite catalyst design, computational modelling, process intensification;
- b) Global markets & competitiveness: the project aims at boosting green and sustainable economic growth, strengthening the competitiveness and growth of EU companies;
- c) Environment and resource efficiency: MULTI2HYCAT intends to impact the carbon footprint and eco-toxicity of several industrial processes where catalysts play a role, including pharmaceutical and chemical industries, via either a smart redesign or the eco-conception of new processes involving cascade reactions.

