

## The DISCOVER project led by Mathym has been selected in the 25th FUI call for projects

- The DISCOVER project aims to develop metal colloids used as catalysts
- The main purpose of this project is to generate more active catalysts than those currently used in the industry in order to reduce their consumption level
- The consortium is composed of Mathym, Elkem Silicones, Novasep and two academic entities (CNRS-CPE Lyon)

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The DISCOVER project intends to develop and industrialize novel ways of synthesis for metal colloids used as catalysts in the silicones (colloidal platinum) and in active pharmaceutical ingredients industries (colloidal palladium). Those two critical metals are essential for, respectively, the manufacture of silicone coatings and elastomers and of particular organic molecules.

The main purpose of this project is to develop more active metal catalysts than those currently used in the industry to reduce the consumption of these critical metals. When the project completes, by using these new catalysts, industrial actors will reduce their environmental footprint, reduce their exposure to platinum and palladium prices fluctuations and maintain then develop industrial employment in the Auvergne-Rhône-Alpes area.

With a global budget of 2 million EUR including 1 million EURO grant, and a duration of 42 months, the DISCOVER project, labeled by the Axelera cluster, is led by Mathym and involves two academic laboratories (CNRS- CPE Lyon) as well as two industrial users, Elkem Silicones and Novasep.

Within the consortium, Mathym is in charge of the industrialization of the manufacturing processes as well as the project management. The academic laboratories will take responsibility for the optimization, characterization and transfer of the manufacturing processes as well as the mechanistic analysis of the catalyst operation. Eventually, Elkem Silicones and Novasep will experiment and validate the use of the catalysts in the intended applications.

### **Mathym**

*Mathym is a nanotechnology company specialized in the development, manufacturing and commercialization of innovative inorganic nano-dispersions. Mathym is active in the fields of the biomedical, 3D-printing, ceramics and catalysts industries. Two financing rounds, business partnering and staffing with talented people allowed R&D programs achievement and first manufacturing processes industrialization making Mathym an innovative industrial player in the field of nanomaterials development.*

More information on [www.mathym.com](http://www.mathym.com)

Contact: Julien Alberici, CEO, [julien.alberici@mathym.com](mailto:julien.alberici@mathym.com)