

Mathym receives financial support from the French government and the Auvergne-Rhône-Alpes Region to promote and scale-up its new nano-zirconia

- **Mathym discovered a unique and innovative manufacturing process for transparent zirconia dispersions**
- **First results generated by the R&D team open the way to various applications in the medical, chemical and photonics fields**
- **The support granted through the PIA 3 vehicle of BPI will help mature Mathym's product positioning and scalability before entering the industrialization phase scheduled in 2020**

Champagne au Mont d'Or, January 7, 2019

Mathym's R&D department discovered an innovative path to synthesize nanoparticles of zirconia consisting in a one-step, mild pressure and temperature, and cost-effective process.

Thanks to its high versatility, this path can generate nanoparticles with a wide range of dimensions (from 3 to 30 nm), morphologies (spheres, crosses, other anisotropic particles) and crystalline structures (monoclinic or tetragonal). The nanoparticles dispersions obtained can reach very high solid contents (80wt.%) while preserving unprecedented transmittance properties. Based on these unique results, Mathym filed a patent application in the end of 2018.

Critical properties sought in nano-zirconia are mostly combinations of specific mechanical properties, high refractive index and transparency. Orthopedic, dental, lighting, chemical sectors provide the main industrial opportunities for nano-zirconia.

"Thanks to the innovative mindset of the R&D department of Mathym, we now have a strong asset to expand our activity out of niche markets. Should the results and perspectives be confirmed in 2019, Mathym will take a further step forward", stated Julien Alberici, CEO of Mathym.

Support from the French State and The Auvergne-Rhône-Alpes Region – 260 000€ in the form of repayable advance - will significantly help Mathym position its new nano-zirconia on the most suited markets, assess markets benefits and volumes prior to entering the scale-up phase scheduled in the second half of 2019.

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 achievements and first manufacturing processes industrialization making Mathym an innovative industrial player in the field of nanomaterials development.

More information on www.mathym.com

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