

Novitom is the first independent **full-service provider** that specialises in 3D micro-imaging powered by synchrotron technology. Novitom uses **advanced non-destructive 3D** techniques that go **way beyond conventional laboratory methods** to help customers develop performant materials, optimise industrial processes and increase speed to market.

A customer-focused service offer

- > **Cost-effective** services that truly match your needs
- > Access to unique **state-of-the-art** imaging technology
- > **Expertise** of a multi-disciplinary research team
- > **Reactivity & flexibility** of a small innovative company
- > **Partnership** approach
- > Assurance of full **confidentiality**



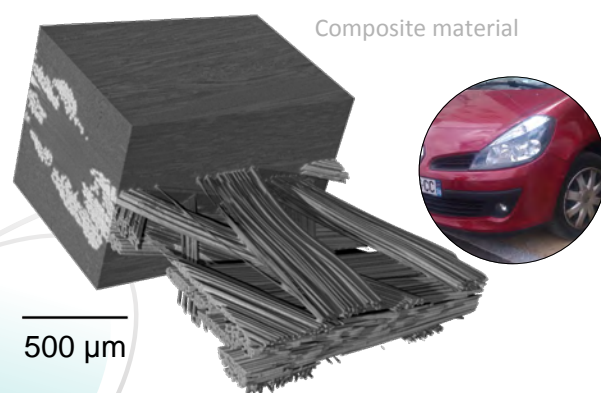
A wide range of applications

Agriculture & Food
Building Materials
Chemistry & Eco-industry
Composites, Plastics, Elastomers
Control & Metrology
Metallurgy
Mining & Minerals
Pharmaceuticals & Cosmetics
Packaging, Paper & Textile



SCAN

Visualise the internal architecture of your specimens with incredible levels of details thanks to our non-destructive, highly sensitive X-ray micro-tomographic imaging services.

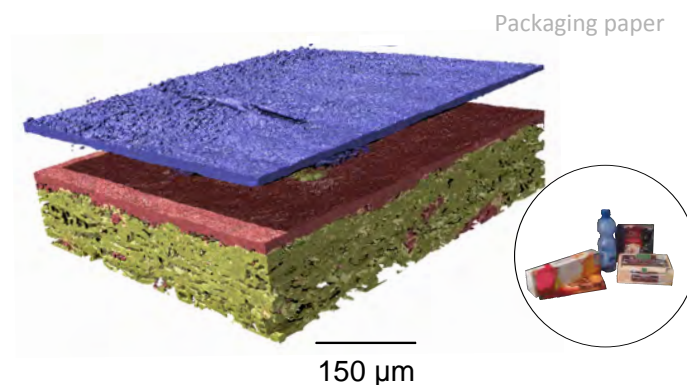


- > High performance 3D-digitisation
- > High resolution virtual slicing
- > 3D rendering of internal geometry
- > 3D movies



CONTROL

Virtually dissect your samples and obtain detailed structural, dimensional or chemical parameters for each of their components thanks to our advanced 3D data processing services.

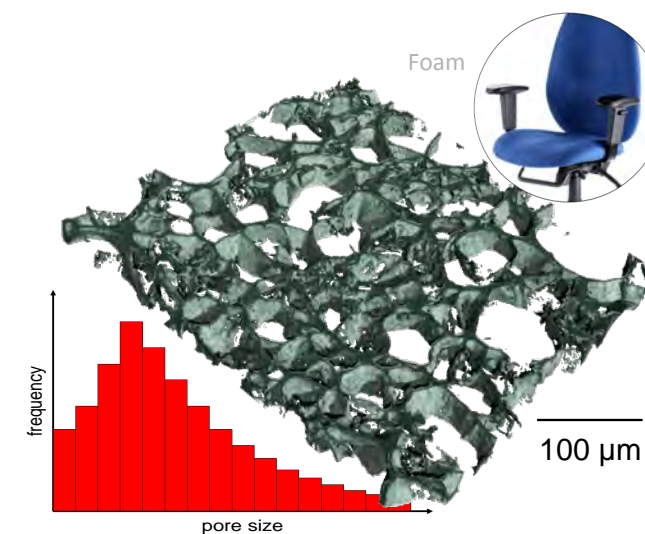


- > Dimensional micro-metrology of complex structures
- > Porosity and micro-defects
- > Identification of contaminants
- > Penetration depth of products
- > High screening capabilities
- > New metrology and control procedures



ANALYSE

You need a deeper insight into your microstructures. Our skilled team takes in charge the full 3D analytical procedure to provide the relevant statistical parameters that are the fingerprint of the elaboration processes.

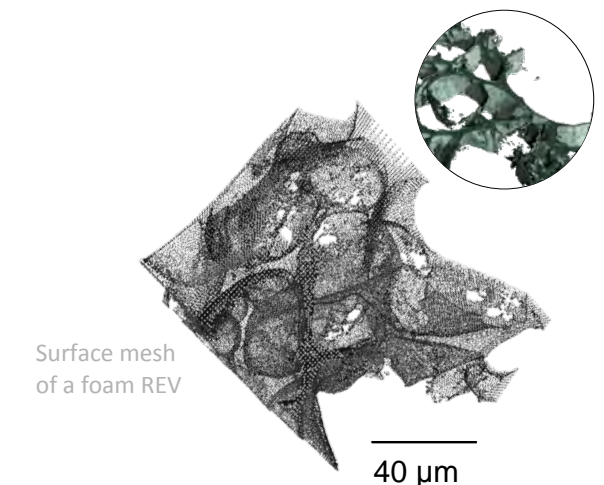


- > Pore shape and connectivity inside porous media
- > Particle size and distribution inside granular media
- > Fibre shape and orientation inside composites
- > Quality of adhesion and coating
- > Live process monitoring: mechanical stress, temperature, humidity



PREDICT

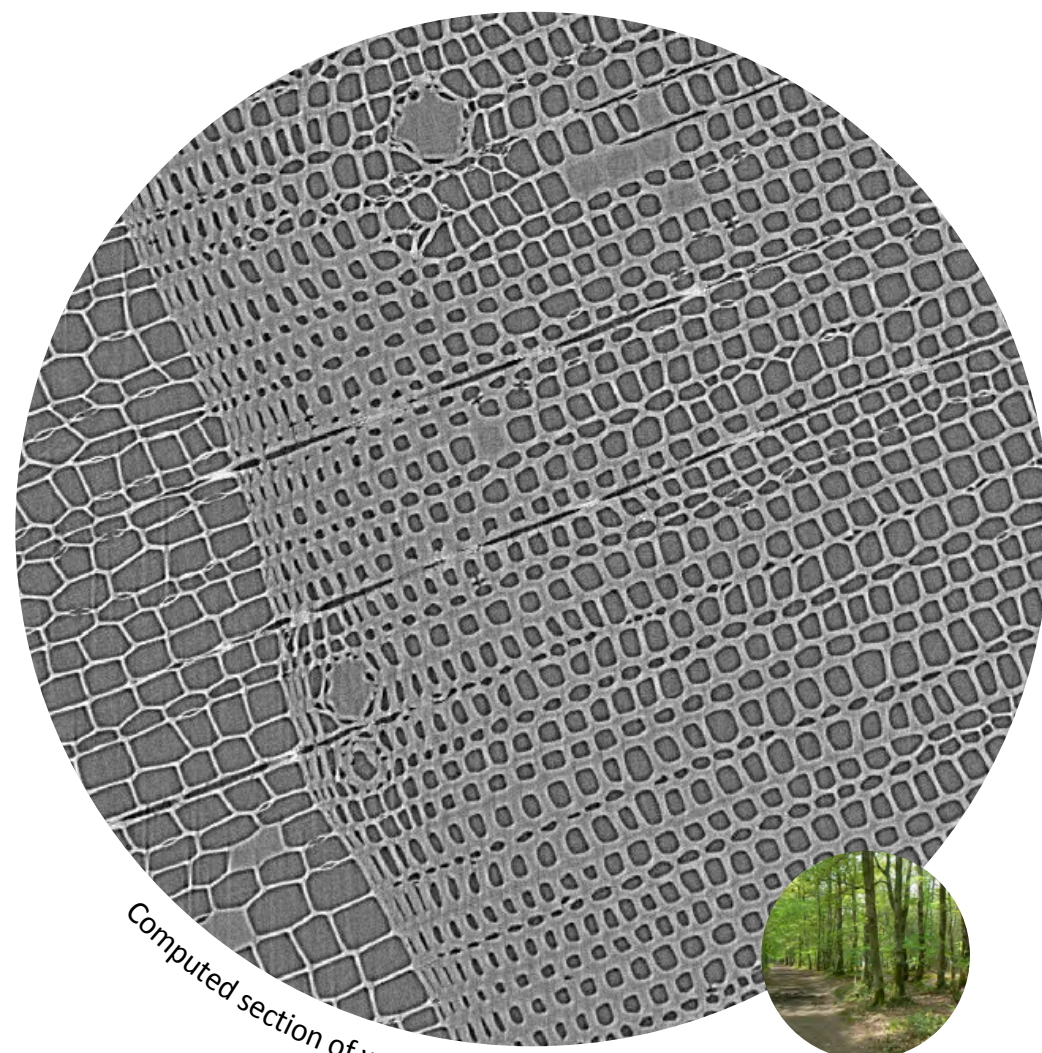
You need a global approach to optimise your materials properties and their manufacturing processes. Our experts can develop numerical modelling based on your samples' microstructure to help you predict their behaviour and reduce the number of tests.



- > Surface and volume meshing
- > Mechanical and rheological behaviour modelling
- > Test simulation
- > Process simulation

Cutting-edge imaging technologies

At the heart of Novitom's technologies is **synchrotron X-ray micro-tomography**. For a full characterisation of your samples, Novitom also uses synchrotron X-ray **nano-tomography**, **micro-diffraction**, **micro-fluorescence** and **laboratory micro-tomography**.



Computed section of wood - Resolution 0.5 μm



Contact

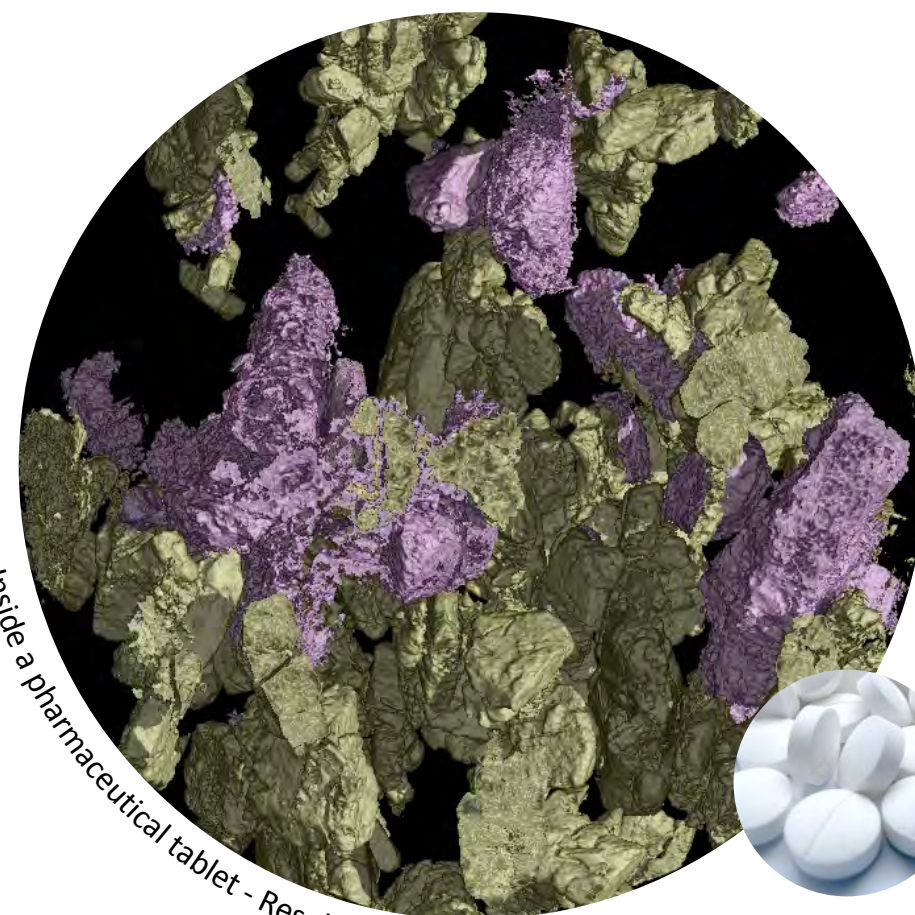
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Inside a pharmaceutical tablet - Resolution 1 μm



**A Service Company Dedicated to
Advanced Analytical and 3D Imaging**

R&D - Control - Metrology