



# NOVITOM

Advanced Analytical and 3D-imaging Services

Without any staining or marking, non-destructive  
Ultimate analysis of polymer-based materials

## Composites & Plastics

- Food and Agro-products
- Metallurgy & Ceramics
- Cosmetics
- Oil & Mining
- Pharmaceuticals
- Tissues and biomaterials
- Wood, Paper & Textiles



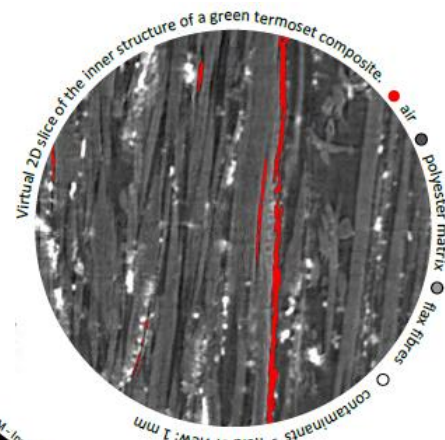
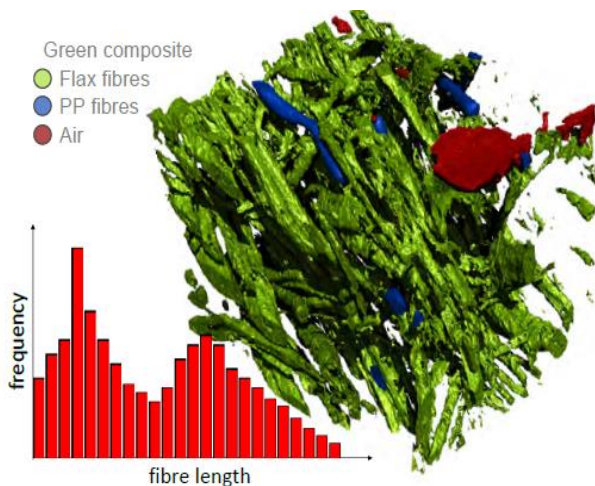
### Scan

- Composites: all types incl. carbon/carbon
- Reinforced elastomers
- Plastic pieces
- Polymer foams
- Polymer fibres
- Polymer resin, gels
- Filtration media
- Packaging and Conditioning



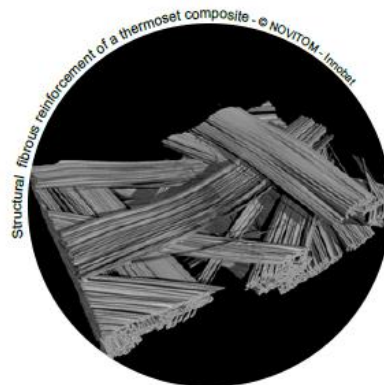
### Analyse

- Granulometry and distribution of fillers and additives
- Fibre orientation and connectivity
- Quality of impregnation of matrix reinforcement
- Failure analysis (cracks, voids, delamination)
- Coating, interfaces, adhesion
- Micro-metrology of complex pieces
- Local orientation of chains
- Crystallinity degree of semi-crystalline polymers
- Microscopic effects of aging, fatigue, friction, treatments
- Real time *in situ* monitoring: temperature, mechanical stress, water swelling, impregnation



### Control

- Micro-structural parameters
- Interfaces, coatings, fillers
- Quality of impregnation
- Detection of cracks, defects
- 3D porosity
- Identification of contaminants
- Manufacturing processes



### Predict

- Mechanical and physical properties
- Multi-scale behaviour
- Micro-mechanical interactions
- Forming process parameters
- Causes of failures

**NOVITOM** is the first full-service provider to specialise in 3D micro-imaging and micro-analyses powered by synchrotron technology. Novitom's innovative techniques go way beyond standard laboratory methods and use advanced non-destructive characterization tools to reveal the inner micro-structure of materials and products, with an exceptional level of quality and detail.

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