



# NOVITOM

Advanced Analytical and 3D-imaging Services

**Food and Agro-products**

Composites & Plastics

Cosmetics

Metallurgy & Ceramics

Oil & Mining

Pharmaceuticals

Tissues and biomaterials

Wood, Paper & Textiles

**Without any staining or marking, non-destructive  
Ultimate analysis of agro-products and food**



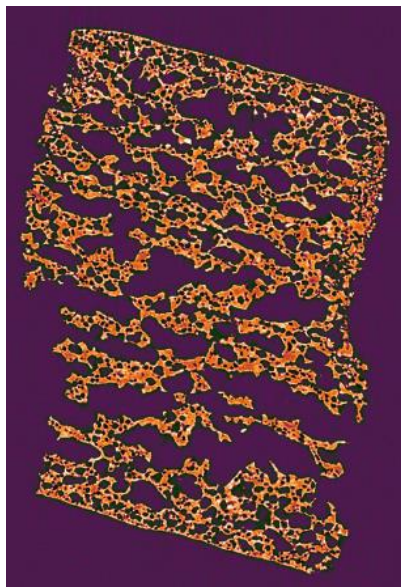
## Scan

- Milk-based products
- Fats and oils
- Fruits and vegetables
- Meat
- Bread, cookies, pasta
- Cereals, seeds
- Packaging

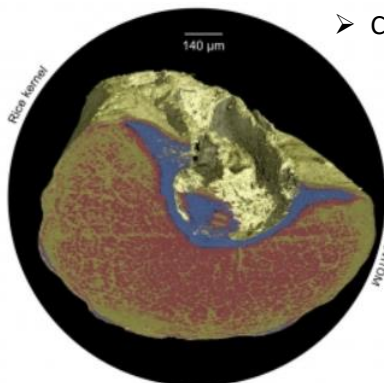


## Analyse

- Molecular organizations
- Chemical imaging (surface or volume)
- 3D organization of ingredients in final products
- 3D micro-texture of natural products
- Architecture of foams and emulsions
- Porosity, Compactness, Homogeneity
- Grain milling and processing
- Transformation of biomass
- Mechanical behaviour and rheology
- Monitoring of forming and cooking processes
- Coating and micro-encapsulation



3D view of cookie



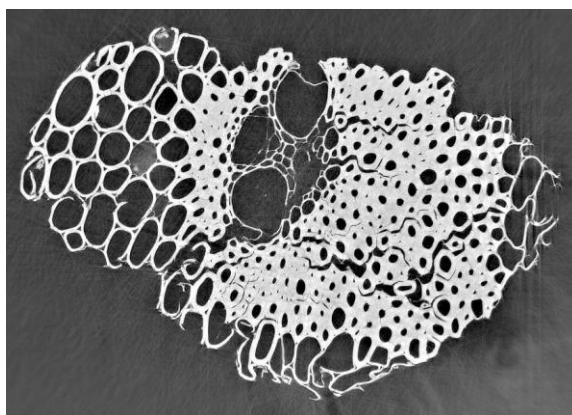
## Predict

- Behaviour under thermal treatment
- Behaviour under mechanical treatment
- Stability of semi-solids
- Impact of ageing



## Control

- Segregation of phases
- Diffusion in products
- Crop quality
- Food processing
- Food safety
- Food preservation
- Contaminants
- Stability during storage
- Packaging efficacy



Virtual section of sugarcane bagasse

**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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