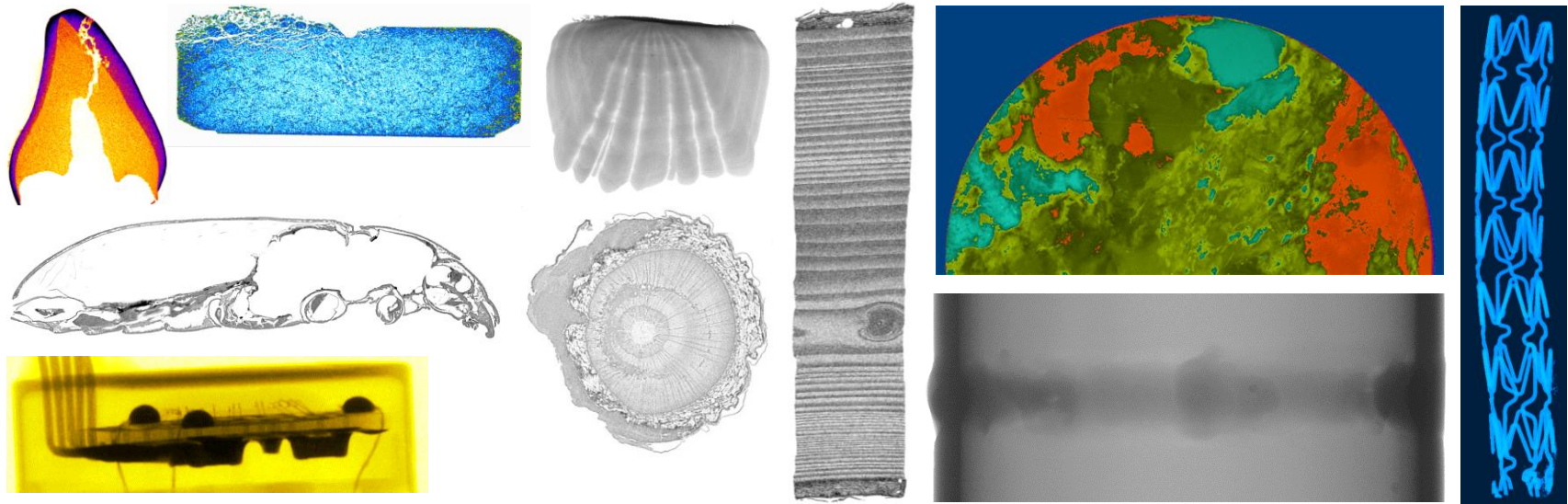


Tomolab

Advancing X-ray tomography laboratory for supporting the reform of local R&D&I operations



The aim is to get a **modern X-ray tomography device** with good penetration power and diverse range of sample sizes. This strengthens the **continuity of imaging and analysis** services in the region of Eastern Finland. Tomography supports particularly the imaging of **biological and biomedical** samples, composites, 3D printing, and **metallic** samples. One can analyse, for example, **structure and morphology**, cracks, pores, and direction and size distribution of fibers. **3D visualization** can be exploited in quality control, damage investigations, modelling, and in **augmented reality**.

Strategic aims are to **develop the infrastructure and know-how** for research, development and education in the University of Eastern Finland, and strengthen the entire research ecosystem related to high-level **imaging for health science** and science located in Savilahti, Kuopio.

Tomolab project is related to the development of the **3D-printing environment** in Pohjois-Savo, the structure research of samples in the **Microsurgery Center of Finland**, and the study of foodstuff and plant diseases in the **Natural Resources Institute of Finland**.

Project period 1.5.2019 – 30.4.2021

