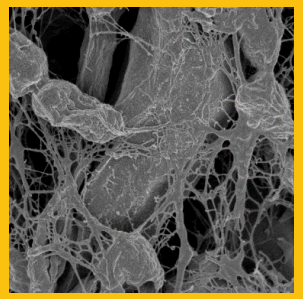
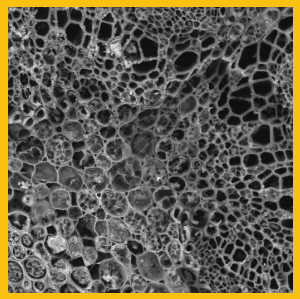
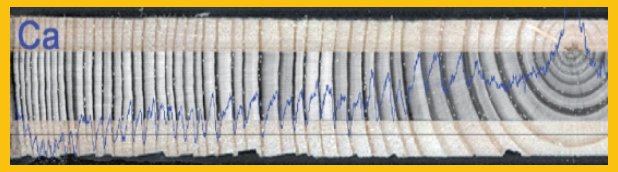
SILVATECH develops collaborations with a network of private and public research partners:

- CIRAD
- CNRS
- IRD
- ONF
- IFN
- FCBA
- IRSTEA
- CEA
- Universities
- Companies

SILVATECH services and developments are opened to a large regional, national and international research community.



For more informations, applications, please contact:

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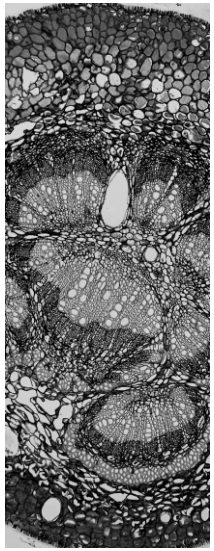
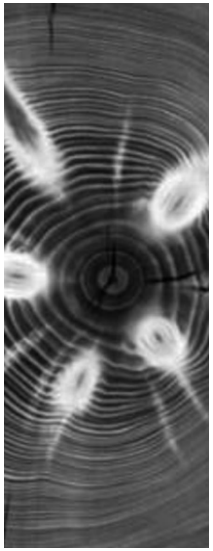
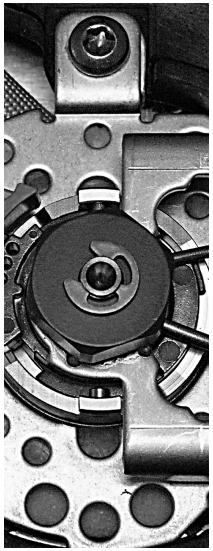
WOOD and FOREST ECOSYSTEM technological Facility

Silva TECH

Flyer design: C.Mola - February 2020
Do not throw on public roads.

SILVATECH is an infrastructure dedicated to the analysis of samples derived from different parts of the ecosystem (trees and wood, water, soil), ranging from the molecular scale up to a forest stand scale.

SILVATECH offers a broad range of technologies and methods, the original combination of which enables the structures, properties and biological functions of the living tree within its ecosystem to be deciphered through to the use of wood as a material.
SILVATECH offers expertise and a methodological development capability for scientific programmes relating to functional ecology, ecophysiology, biogeochemistry and wood sciences.

SILVATECH is integrated into the research units SILVA, BEF, IAM and LERMAB, supported by INRA, Lorraine University and AgroParisTech.

3 interconnected and complementary clusters

• Chemistry-Isotopy cluster

- Isotopy
(EA/GA-IRMS, Pyr-IRMS, IC/GC-IRMS, water laser, ICP-MS)
- Mineral chemistry
(EA, ICP-OES, ICP-MS)
- Organic chemistry
(IC-IC, IC, LC-MS/MS, GC-MS, MALDI-TOF)

• Microscopies-Imaging cluster

- High resolution imaging
(MEB FEG HD –VP, MEB W VP, Confocal laser scanning microscopy)
- Mineral X-ray microanalysis
(EDS, FDS, µfluoresence)
- Histology and photonic microscopy
(laser microdissection, quantitative anatomy)

• X-Ray Imaging cluster

- Computed tomography scanner
- ITRAX
- Micro-densitometry
- X-ray diffractation

In addition, clusters can rely on well-equiped open units and preparation workshops.