

LUMBER – SUSTAINABLE CONSTRUCTION

The Nouvelle-Aquitaine Region, with the largest forest area of metropolitan France (2.8 million hectares), has exceptional resources to supply lumber to the construction industry. Wood has returned to the forefront in construction over the last 20 years, and offers significant advantages in the realm of energy performance for buildings, energy consumption on construction sites, reduction of greenhouse gas emissions, analysis of the life cycle of products as well as the recovery of local timber. The regional lumber industry, stimulated by Nouvelle-Aquitaine's appeal and supported by the public authorities in view of its potential for economic development, is growing and investing in innovation to take action for the climate and the sustainable city.



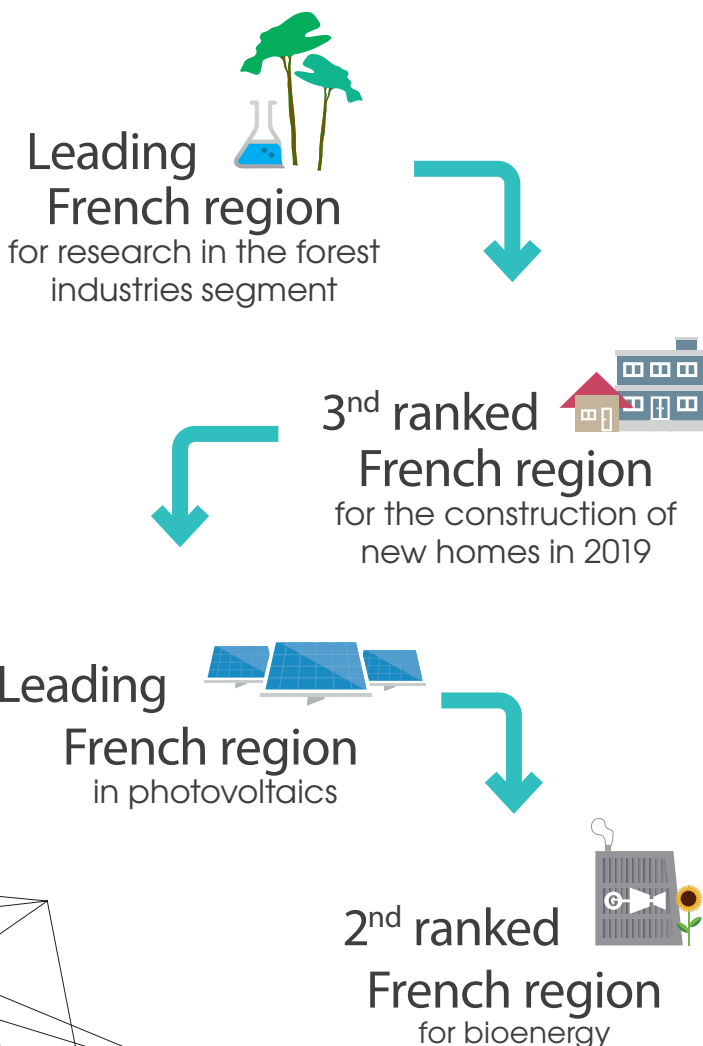
Innovative technology for intelligent buildings

- **Smart grid / smart city:** energy, management, storage, energy efficiency
- **Clean mobility:** charging stations, hydrogen
- **Digital:** connected habitat, Internet of things, smart energy, smart LED and OLED lighting
- **Silver Economy:** home automation and aging well at home
- **Virtual construction space / Domolandes science park:** one of 3 in France - 150 m² equipped with the most innovative tools of virtual immersion and 3D modeling (design, training)
- **Development of local natural resources and the use of new energy materials**
- **WOODRISE Project for high-rise wooden buildings combining bio-resources:** multi-partnership project to develop the market for wood-framed buildings over three stories.

> **HYPERION**, the first wood-framed high-rise built in France, in central Bordeaux, near the TGV high-speed train station (2 hours from Paris) - 7,000 m², 57 meters high on 18 floors

- **A low-carbon pilot business park**

> **PÔLE ATLANTECH**, the first low carbon business park in La Rochelle (27 hectares), a forerunner in Europe in sustainable development, low-impact mobility and green construction



Complexes and clusters

- **XYLOFUTUR**: competitiveness cluster for products and materials from managed forests
- **ODEYS**: sustainable construction and development cluster
- **Energy-Storage Cluster**: management of renewable energy, storage of energy for electricity grids, habitat and mobility
- **SOLTENA**: solutions for the Ecological Transition

Platforms in support of innovation and testing

- **XYLOFOREST**: research & innovation platform for plantation forests and wood products
- **FCBA**: technology Institute for forestry, cellulose, wood-construction, furniture
- **NOBATEK / INEF 4**: private technological research center / Institute for energy transition in sustainable development, rehabilitation and construction
- **TIPEE**: sustainable building technology platform
- **CANOE**: composites and advanced materials R&D center

Many highly active interprofessional organizations

- **FIBOIS Nouvelle-Aquitaine**: Forest-Wood-Paper Interprofession
- **FIBOIS Landes de Gascogne**: Maritime Pine Interprofession
- **FIB NA**: Federation of Wood Industries of Nouvelle-Aquitaine
- **SYSSO** (union of foresters of southwest France)

Prominent laboratories linked to forest industries and the use of wood in sustainable construction

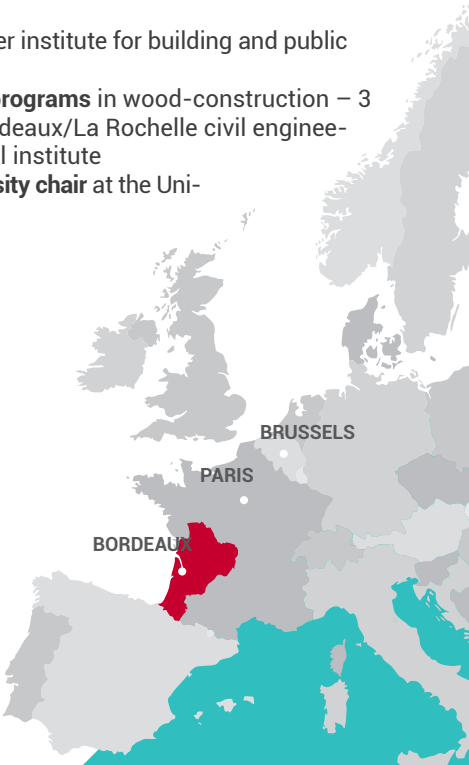
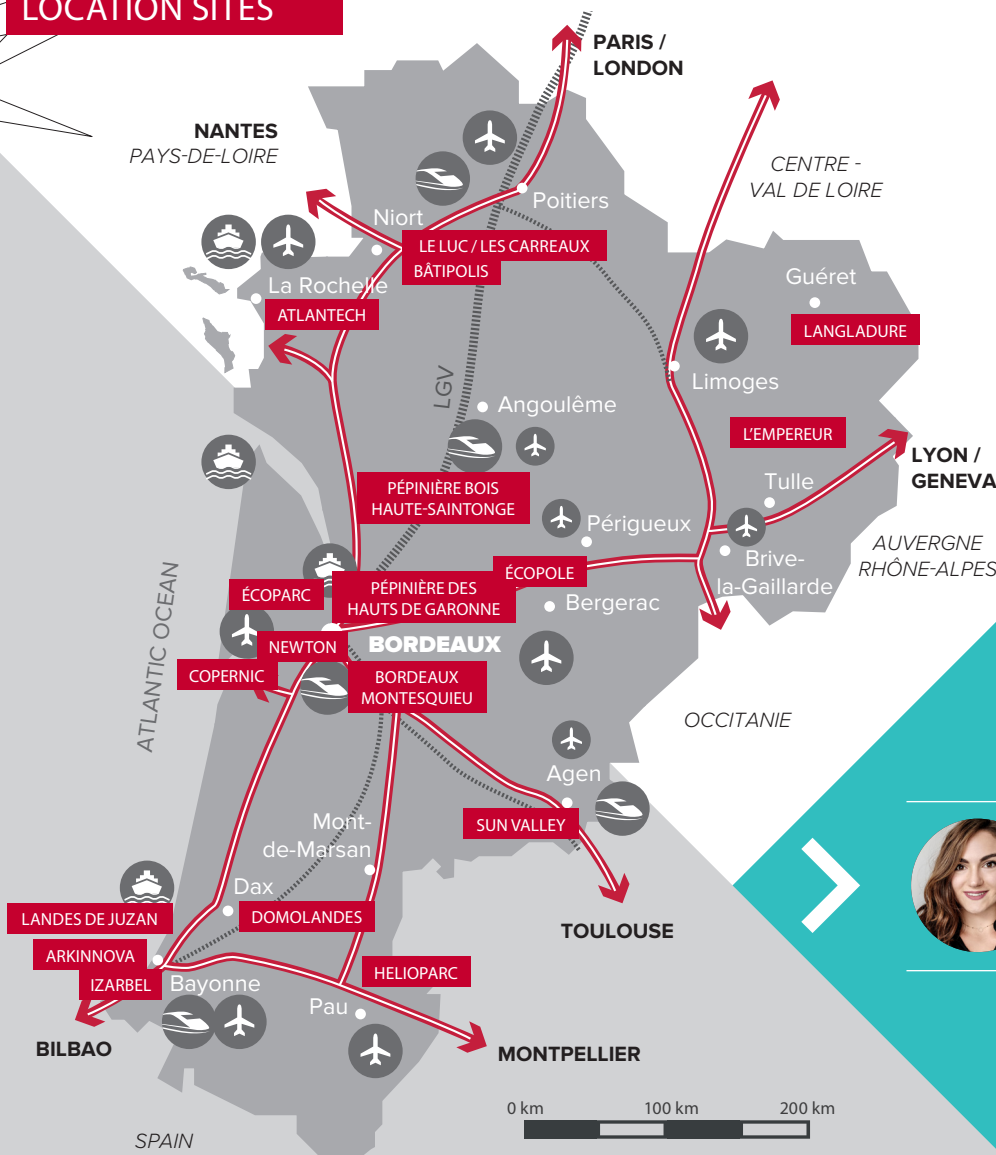
- **INRAE**: forestry research station Bordeaux
- **I2M**: Institute of Mechanics and Engineering
- **GEMH - GC&D**: heterogeneous materials engineering & durability of wooden structures
- **SIAME**: mechanical, energy and electrical engineering

Nationally recognized initial and continuing training institutions

Many training programs related to the wood from the CAP (professional aptitude level) to Doctorate.

- **2 campuses** for diplomas and qualifications in forestry-wood/sustainable construction and eco-rehabilitation
- **2 forest industries training centers** – Meymac/Bazas
- **14 XULOSUP Initiative of Excellence** training programs coordinated by the **Bordeaux Sciences Agro** engineering school in 5 areas of teaching, including forest industries, architecture and civil engineering
- **ENSAPBX**: national school of architecture and landscaping – Bordeaux
- **ISA BTP**: Aquitaine higher institute for building and public works
- **2 professional degree programs** in wood-construction – 3 year degrees at the Bordeaux/La Rochelle civil engineering university technical institute
- **Forest industries university chair** at the University of Limoges

MAJOR BUSINESS LOCATION SITES



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- Market information
- Search for real estate
- Introduction to qualified contacts
- Financial engineering



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