

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.**



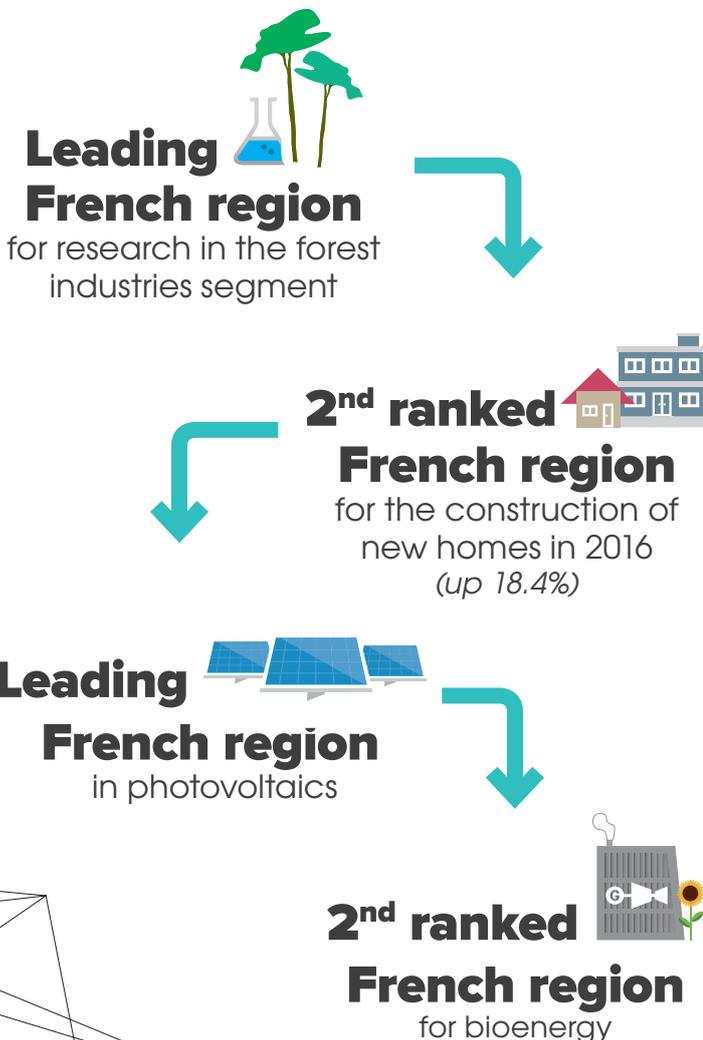
Innovative technology for intelligent buildings

- **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**
- **BAOBAB 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



Clusters

- **XYLOFUTUR**: competitiveness cluster for products and materials from managed forests
- **Eco-habitat Cluster**: innovative construction solutions
- **Energy-Storage Cluster**: management of renewable energy, storage of energy for electricity grids, habitat and mobility
- **CREAHD**: cluster for sustainable construction resources, environment, development & habitat
- **Eco-industries Cluster**: circular economy and energy transition skills center
- **Sysolia**: industrial solar-energy systems cluster

Platforms in support of innovation and testing

- **CANOE**: composites and advanced materials R&D center
- **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

Active interprofessional groups

- **BoisLim**: Limoges forest industries inter-professional group
- **CODEFA**: Aquitaine forest industries development committee
- **Futurobois, IFB 64, Interbois Périgord**: interprofessional groups of forestry-wood-paper industries in Poitou-Charentes, Pyrénées-Atlantiques and Dordogne

Prominent laboratories

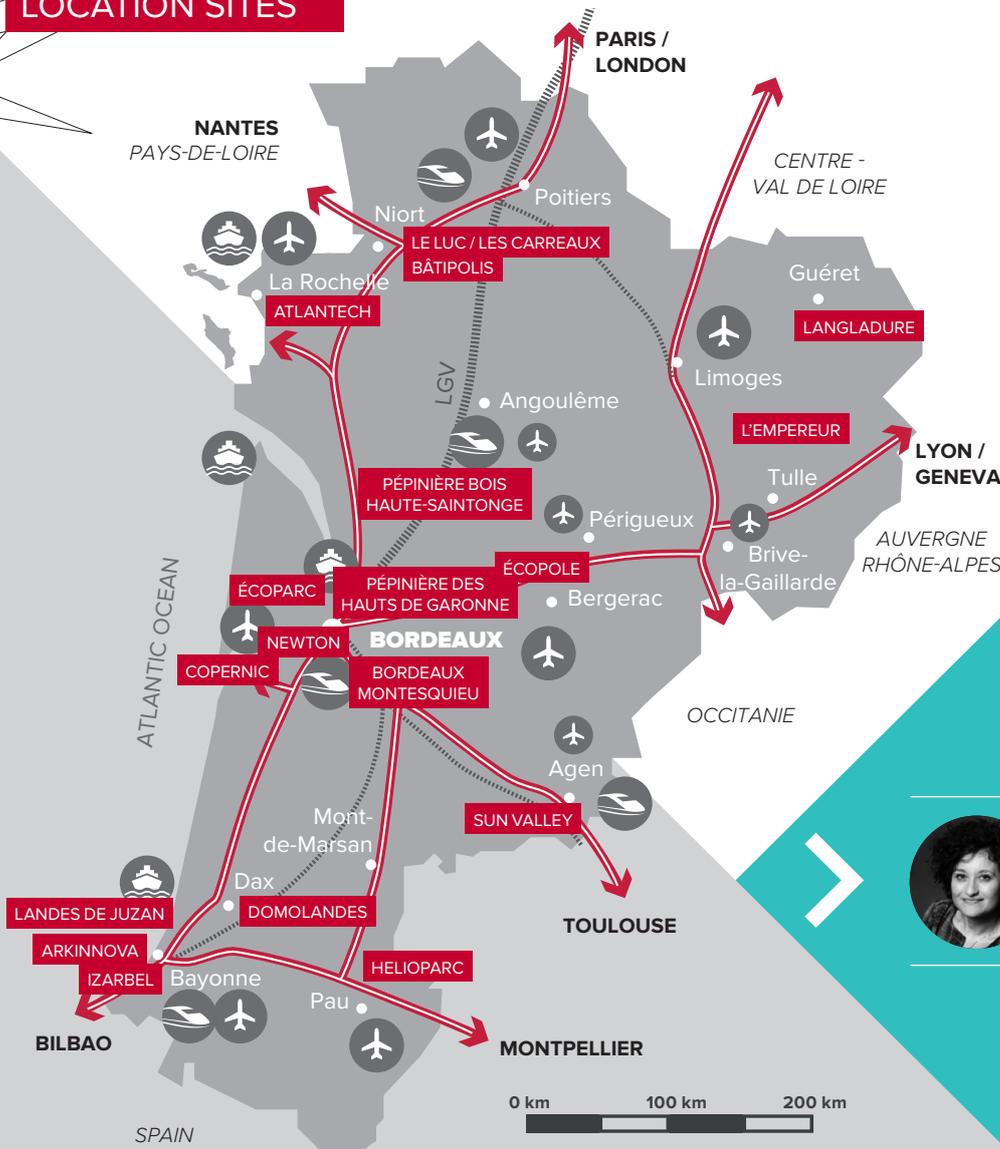
- **GEMH - GC&D**: heterogeneous materials engineering & durability of wooden structures
- **INRA Nouvelle-Aquitaine Bordeaux** forestry research station: agronomy, genetics, plant physiology and pathology, ecology, chemistry and physics of the environment
- **IRSTEA**: research in environmental and agricultural sciences and technologies
- **VALAGRO**: plant chemistry and renewal carbon

Nationally recognized training institutions

- **Building Rehabilitation** – Felletin Vocational School in building trades
- **2 forest industry training centers** – Meymac/Bazas
- **Forest industries university chair** at the University of Limoges
- **ENSAPBX**: national school of architecture and landscaping – University of Bordeaux
- **Professional degree programs** in wood-construction – civil engineering university technical institute Bordeaux/La Rochelle
- **Bois PE Plateform**: Egletons Training and Innovation Center
- **Bordeaux Sciences Agro**
- **University of Bordeaux « Forestry-Wood »**

+ numerous other vocational training programs in the wood industry

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- Introduction to qualified contacts
- Financial engineering



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