
WOODRISE
ALLIANCE

INTRODUCTION

Based on the success of the international WOODRISE congress in Bordeaux in 2017, seven organizations from six different countries have committed to create a global network on innovation and research & development, to improve and promote mid to high-rise wood buildings.

October 12, 2018 is the official launch date of the WoodRise Alliance (WRA) during the meeting held at the Bordeaux City Hall. Ten new signatories joined the alliance.

In June 2019, the WoodRise Alliance has applied for membership in the GLOBAL ALLIANCE FOR BUILDING AND CONSTRUCTION (GABC). The GABC was launched at the COP21 in Paris on December 3, 2015, under the impetus of France and the United Nations Environment Program. Its objective is to bring together the building and construction industries, their stakeholders as well as countries, to raise awareness and facilitate the transition to low-carbon and energy-efficient construction.

The second physical meeting of the WoodRise Alliance was held on October 3, 2019, at Laval University in Quebec City. Five new signatories joined the Alliance, strengthening on this occasion the North American and Asian participation.

Despite the pandemic, the WoodRise Alliance was able to hold its third general meeting by videoconference on October 5, 2020, during which the members decided to organize regular thematic webinars and create a newsletter in order to strengthen the sense of belonging to the Alliance and contribute to its international recognition. On this occasion, two new Scandinavian members were welcomed. The forth general meeting of the WoodRise Alliance was held virtually on October 18, 2021 during the international WOODRISE Congress in Kyoto. On this occasion, a new Spanish member was welcomed.

The WRA currently has 24 official members representing 15 different countries with the following continental representation:

- Europe and European countries: 15
- North America: 4 (3 Canada and 1 USA)
- Asia: 4 (Japan 3 and China 1)
- South America: 1 Brazil

Three types of organizations are members of the WoodRise Alliance, with a balanced proportion between them:

- Universities and training organizations: 7
- Technical centers and public and private research institutes: 11
- Associations and professional groups: 6

The WoodRise Alliance and its members have set themselves the objective of contributing to the promotion and enhancement of wood construction, particularly in medium and high-rise buildings, by strengthening their technological collaborations through joint research and development projects and by making their work and results known at events such as WoodRise international congresses and conferences and WoodRise territorial meetings.

I invite you to discover the Alliance and its members.

Frédéric Staat, FCBA
WoodRise Alliance General Coordinator

GLOBAL OVERVIEW OF MEMBERS

AMERICA

AWC*

FPInnovations
Laval University
University of Western Ontario

IPT*

FCBA*
Université de Bordeaux
CSTB*

TUM*

InnovaWood
EOS-OES*
CEI-Bois*

NTI*

BFH*
Lignum

RISE*

EUROPA

TECNALIA

INNORENEW

DTI*

VTT *

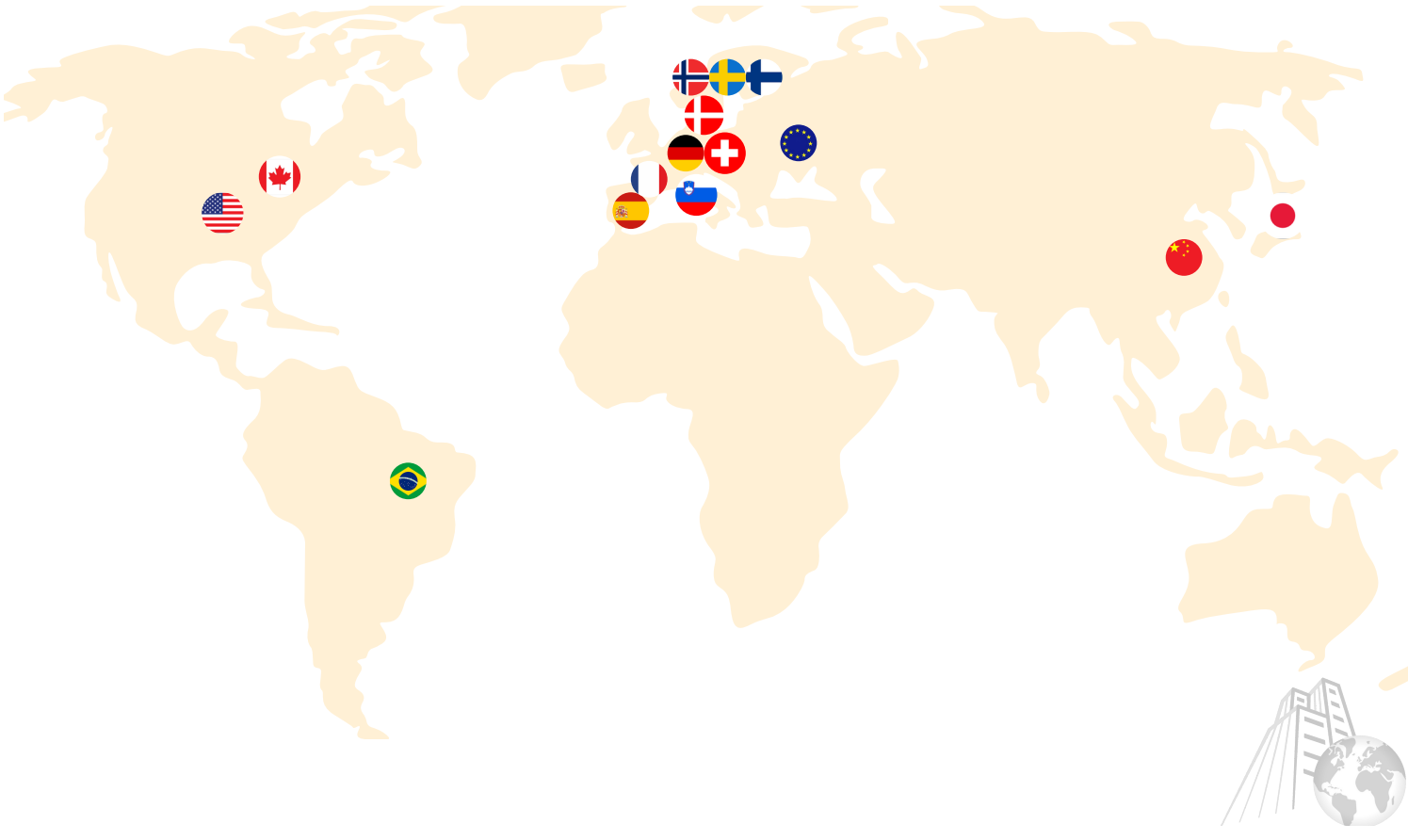
ASIA

BRI*
JIBH*
Kyoto University

Tongji University

- glossary

GLOBAL OVERVIEW OF MEMBERS ON A MAP



AWC

AMERICAN WOOD COUNCIL

Member of the alliance since 2019

PART OF THE WRA

The American Wood Council (AWC) is the voice of North American wood products manufacturing, an industry that provides over 450,000 men and women in the United States with family-wage jobs.

AWC represents 86 percent of the structural wood products industry, and members make products that are essential to everyday life from a renewable resource that absorbs and sequesters carbon. Staff experts develop state-of-the-art engineering data, technology, and standards for wood products to assure their safe and efficient design, as well as provide information on wood design, green building, and environmental regulations. AWC also advocates for balanced government policies that affect wood products.

JOINED THE WRA

AWC supports the utilization of wood products by developing and disseminating consensus design standards, comprehensive technical guidelines, and tools for wood design and construction, as well as providing education regarding their application.

In recent years, extensive research and significant standards development have been focused on mass timber and tall wood construction.

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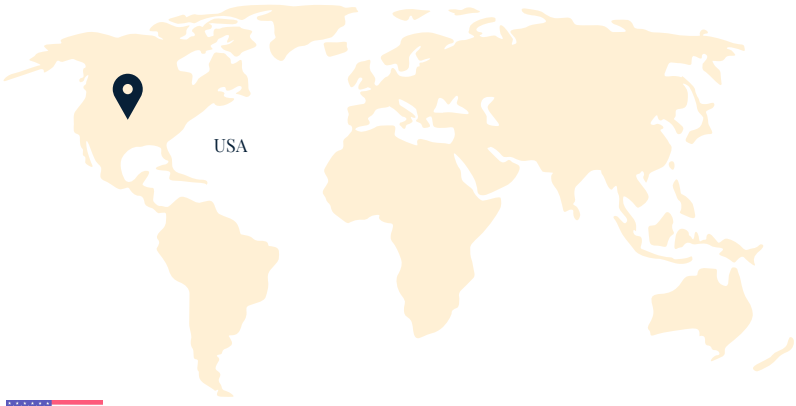

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BFH

BERN UNIVERSITY OF APPLIED SCIENCES
DEPARTMENT OF ARCHITECTURE, WOOD AND CIVIL ENGINEERING

Member of the alliance since 2018

PART OF THE WRA

Bern University of Applied Sciences (BFH) is an application-oriented university that was founded in 1997. It carries out R+D in close relation with commercial enterprises, public institutions, administrative bodies and the community. The BFH consists of seven departments and the Department of Architecture, Wood and Civil Engineering (AHB) involves in the WoodRise Alliance.

Our research and development activities link architecture, wood and civil engineering with each other and with other disciplines and are consistently oriented towards practical application. In close cooperation with our partners from industry and society, our researchers develop innovative solutions for new materials, for the optimisation of construction and production processes, and for sustainable settlements and buildings.

JOINED THE WRA

As a specialist in timber structures, AHB covers all disciplines from architectural design, structural engineering and earthquake protection, fire protection and building physics to materials science, digital engineering and digital manufacturing in an integrated approach. Our laboratories provide facilities for development and prototyping in our disciplines, as well as ISO/IEC 17025 accredited test methods for building materials and components. Our focused commitment makes WoodRise the ideal platform for our researchers, and our full range of capabilities makes AHB a unique research partner for the Alliance.

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BRI

BUILDING RESEARCH INSTITUTE

Founding member of the alliance in 2017

PART OF THE WRA

The Building Research Institute (BRI) is a National Research and Development Agency with over 70 years of history, which aims to bring sound and orderly development to housing, buildings and urban communities. For this purpose, it conducts technological investigation, testing, R&D (research and development) on housing, buildings, and urban planning, and training programs on seismology and earthquake engineering, as well as technical guidance and dissemination of their results. The BRI strives to maximize the results of R&D based on a fair and neutral perspective.

JOINED THE WRA

Along with FCBA and FPInnovations, BRI supported the International Woodrise Congress in Bordeaux in 2017. As a member of Woodrise Alliance, it actively participates in meetings and discussions on R&D related to mid-and high-rise buildings.
The utilization of wood in mid-and high-rise buildings and large-scale buildings has also become a major policy issue in Japan. BRI, as a National Research and Development Agency, is committed to addressing this issue.
BRI happily welcomes all the participants to WOODRISE 2021 KYOTO.

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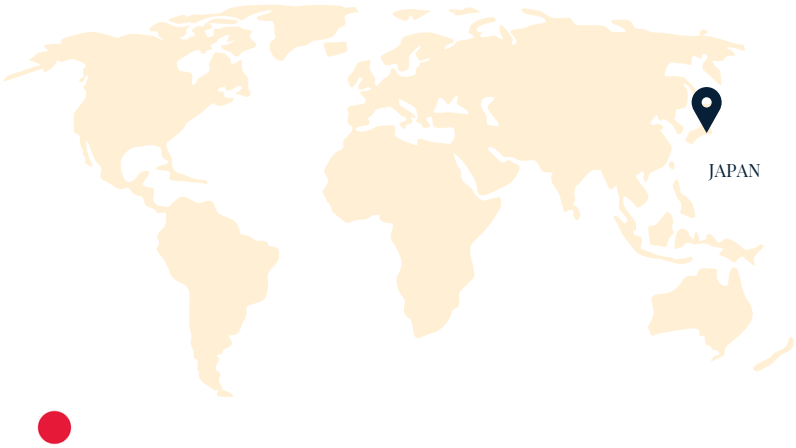

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CEI - BOIS

THE EUROPEAN CONFEDERATION OF WOODWORKING INDUSTRIES

Member of the alliance since 2018

PART OF THE WRA

The European Confederation of Woodworking Industries represents 20 European and National organisations from 14 countries and is the body backing the interests of the whole industrial European wood sector: more than 180.000 companies generating an annual turnover of 152 billion euros and employing 1 million workers in the EU.

JOINED THE WRA

CEI-Bois is a long-time advocator for the use of wood in construction and renovation (including prefabricated houses) and supporter of innovative wood-based materials and building concepts. Timber products and a large variety of wood-based materials are increasingly being used in carbon and energy efficient construction. In becoming part of the WOODRISE Alliance we look forward to partnering with other important actors across Europe in order to strengthen this important network on innovation and development and contribute to the promotion and development of low-carbon construction and timber buildings.

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CSTB

CENTRE SCIENTIFIQUE ET TECHNIQUE DU BÂTIMENT
(SCIENTIFIC AND TECHNICAL CENTER FOR BUILDING)

Member of the alliance since 2017

PART OF THE WRA

The mission of the Scientific and Technical Center for Building (CSTB) is to ensure the quality and safety of buildings. It brings together multidisciplinary skills to develop and share essential scientific and technical knowledge covering construction products and buildings, and their integration into neighborhoods and cities. It guides skateholders in the cycle of innovation from idea to market and supports the transformation of the construction sector in the context of the digital, environmental and energy transitions. The CSTB focuses on five key activities: research and expertise, evaluation, certification, testing and the dissemination of knowledge.

JOINED THE WRA

The CSTB takes a systemic approach to the socio-economic challenges of safety, health and comfort, the environment and energy as they apply to buildings, neighborhoods and cities, by concentrating its research efforts on priority areas. It also guides stakeholders in their digital transformation, to optimize their activities and products by implementing BIM and new technologies.

With this systemic approach in mind, CSTB decided to take part to the launching of the Woodrise Alliance in 2017 within a core group of 6 members in the beginning. The aim is to create and share a basis of international knowledges on high rise wooden buildings .

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DTI

DANISH TECHNOLOGICAL INSTITUTE

Member of the alliance since 2020

PART OF THE WRA

At DTI we offer consultancy and services within a wide range of business areas, e.g. Building and Construction. We have Denmark's largest concentration of knowledge regarding construction materials and contribute to ensuring that building materials used in the Danish construction industry are of both high quality as well as properly and efficiently applied, produced and maintained. One of our focus areas is wood and bio based materials and we offer expert knowledge within this area as well as advanced facilities for testing at materials- and components level, e.g. Physical and mechanical properties.

JOINED THE WRA

At DTI we expect that wood and bio materials will play an increasingly important part of the future in order to make products and materials more sustainable. We work on R&D and commercial projects to increase the use of wood and the knowledge of wood in Denmark as well internationally. We also facilitate networking groups and communities to connect people within the sector, that being stakeholder from the construction industry as well as people from knowledge- and research institutions. The goal is to share both knowledge, find solutions and generate value from working together.

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EOS - OES

EUROPEAN ORGANISATION OF THE SAWMILL INDUSTRY

Member of the alliance since 2018

PART OF THE WRA

Created in 1958, the European Organisation of the Sawmill Industry (EOS) is a Brussels-based non-profit association representing the interests of the European sawmilling sector on European and International level.

Through its member federations and associated members, EOS represents some 35,000 sawmills across Europe manufacturing sawn boards, timber frames, glulam, decking, flooring, joinery, fencing and several other wood products. Together they represent around 80% of the total European sawn wood output in a sector that has a turnover of around 35 billion EUR and employs about 250,000 people in the EU.

JOINED THE WRA

Wood is one of the most sustainable and environmentally favourable construction materials available and EOS strongly advocates for using wood in buildings, obviously when technically possible. EOS joined the WRA in order to futher promote the environmentally benefits of using wood in construction.

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FCBA

FORET CELLULOSE BOIS-CONSTRUCTION AMEUBLEMENT

Founding member of the alliance in 2017

PART OF THE WRA

FCBA is a technological institute, responsible for the forestry, wood, furniture and construction sectors. It promotes technical progress and innovation, contributes to the improvement of performance and quality assurance in the industry, by encouraging an integrated approach and implementation of synergies within the sector. Its activities are grouped around three main areas:
- Making its know-how and skills available to companies: technology transfer, consultancy, technical assistance, testing, training, information;
- Supporting the professions so that they can occupy a leading position on national, European and international markets: standardisation, certification, quality, advanced technologies;
- Acquiring, centralising, managing and disseminating scientific and technical information: research and development, economic, regulatory and technological watch, documentation.

JOINED THE WRA

Along with FPInnovations in Canada and also with the support of BRI in Japan, the Technological Institute FCBA was the pioneer of the Woodrise story with the organization of the first international Woodrise Congress in Bordeaux in 2017.
During this event FCBA took part to the launching of the Woodrise Alliance, an international R&D organisms group devoted to mid and high risen wooden buildings development. The Alliance was 6 members in the beginning, grew to 13 and now up to 24 members from all the continents and is animated by Frédéric Staat, Timber Industry and Construction at FCBA.
FCBA by strongly involving itself within the Woodrise Alliance contributes to the scientist program of Woodrise international events and participates to different R&D projects along with other Woodrise Alliance members.

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FPINNOVATIONS

Founding member of the alliance in 2017

PART OF THE WRA

FPInnovations is a private not-for-profit R&D organization that specializes in the creation of solutions that accelerate the growth of the Canadian forest sector and its affiliated industries to enhance their global competitiveness. FPInnovations develops solutions to increase the competitiveness of the Canadian wood products industry by improving manufacturing processes, developing transformative technologies for agile and flexible manufacturing, maintaining market acceptance, and developing new products and building systems.

JOINED THE WRA

With the FCBA, the technical wood research institute from France, FPInnovations was one of the main founders of the Woodrise Alliance. On September 14, 2017, during the first Woodrise international congress in Bordeaux, six research institutes and promotion centers met together to define and sign a Memorandum of Understanding (MOU) for multilateral cooperation for the international development of the use of wood and bio-based materials for the construction or renovation of zero-carbon, efficient and resilient multi-storey buildings. Since then, several other institutes and universities joined the Alliance. One of the first mandates of FPInnovations is to create constructive solutions that allow wood-based construction. By joining the International Woodrise Alliance, FPInnovations has then the great opportunity to collaborate with partners from all over the world that have the same objectives.

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INNORENEW COE

Member of the alliance since 2018

PART OF THE WRA

InnoRenew CoE is an independent research institute that was established in 2017.
Dedicated to research and innovation in the field of renewable materials and healthy built environments, its two key research areas are wood modification, which improves the functionality, durability, and life cycle of wood, and restorative environmental and ergonomic design (REED), which supports positive health impacts for building users and the environment.
The institute's team of experts combines knowledge from disciplines including architecture, construction, mechanical engineering, psychology, ergonomics, ICT and wood science as well as multidisciplinary knowledge about healthy living environments. This interdisciplinary approach to research and innovation allows the institute to develop novel solutions for sustainable construction.

JOINED THE WRA

InnoRenew CoE is rapidly achieving its vision to become a globally recognized research institution through its science, community engagement, policy advice and industry support. One of the institute's core competencies is taller timber buildings, which covers a wide range of research topics from dynamic response and acoustic properties to REED. As such, InnoRenew CoE can make significant contributions to this important structural typology, which will play a key role in the global transition to a more sustainable and renewable construction sector.

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INNOVAWOOD

Member of the alliance since 2018

PART OF THE WRA

InnovaWood, based in Belgium, is a major European network in the forestry, woodworking and furniture sector. The overall aim is to bring business benefit to the value chain by providing a forum for the member organisations and contribute to the competitive development of Europe's forest-based sector.
The network has more than 60 member organisations from 28 countries in Europe and overseas in the field of research, education, training and knowledge transfer that are active in the entire value chain from forestry and wood processing to construction, furniture and bioeconomy. InnovaWood provides a joint professional platform for its members to network and create partnerships, collaborations and policy advice with relevant stakeholder target groups.

JOINED THE WRA

InnovaWood represents a common voice for promoting wider impacts from innovative uses of wood in line with the major policies of the EU. Connected to many platforms, R&I projects and advisory groups, InnovaWood communicates this message effectively towards decision-makers in policy and industry.
Together with the major European federations of the wood sector, InnovaWood has founded "Wood Sector Alliance for the New European Bauhaus" (Wood4Bauhaus), which is an official partner of the New European Bauhaus of the European Commission. The Alliance puts the spotlight on the urgently needed transformation of the building sector into a circular model using nature-based materials such as wood: buildings need to be turned from a carbon source into a carbon sink to counteract the escalating climate crisis. Innovawood supports the wood innovation community to become a key part of this big transformative movement.

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IPT

INSTITUTE FOR TECHNOLOGICAL RESEARCH OF SAO PAULO STATE

Founding member of the alliance in 2017

PART OF THE WRA

IPT is one of the largest research institutes in Brazil, a state-owned research company from the government of Sao Paulo state. We work basically in Innovation, R&D, technological services, metrological support, information and education in technology. IPT provides solutions and technological services aimed at increasing the competitiveness of companies and promoting quality of life. There are eight business units : Bionanomanufacture, Advanced Materials, Energy, Building and Housing, Cities, Infrastructure and Environment, Digital technologies, Normative and Metrological Technologies and Technological Education. Our wood expertise belongs to the Technology and Performance of Construction Systems Laboratory.

JOINED THE WRA

The current Brazilian scenario has an important challenge of leveraging the implantation of new technologies for the production of wood structures for sustainable buildings, combining the performance of the material with technical requirements to guarantee safety, durability and comfort in wooden constructions. IPT is able to test and certify most of this requirements . IPT is also engaged in new actions to develop ambitious innovations so that timber construction can be used successfully.
Despite the well-known advantages of wood as a renewable material, carbon source, several cycles of use, incentive to increase forested areas and diversity of application of technologies, the expansion of its use still faces challenges of prejudice and ignorance, especially for the construction market.

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JIBH

JAPAN INTERNATIONAL ASSOCIATION FOR THE INDUSTRY OF BUILDING AND HOUSING

Member of the alliance since 2019

PART OF THE WRA

The JIBH collects and exchanges a wide range of information with related countries in order to cooperate as an industry for the purpose of developing the building and housing industry in other countries that are closely related to Japan. The purpose is to promote exchanges, foster a healthy relationship in the building and housing industry with other countries, and promote friendship and goodwill with the countries concerned.
There are 53 members as of April, 2021 such as home manufacturers, general contractors, developers, architectural products manufacturers, related associations, etc.
To achieve the abovementioned goal, the JIBH conducts various activities. As a part of our activities, we have hold the WOODRISE 2021 KYOTO and WOODRISE 2021+1(plus one).

JOINED THE WRA

Japan has a long history of constructing wooden buildings, but faces significant challenges in using wood for high-rise and large-scale buildings. The aim of Woodrise to explore the future potential for the development of mid-rise and high-rise wooden buildings and Japanese policy with a purpose of developing wooden architecture match perfectly. We considered that it would deepen the relationship in WRA when we join WRA following BRI and Kyoto University. That is why the JIBH is in the WRA.
We have hold WOODRISE 2021 KYOTO. We would like to contribute to Woodrise through providing this congress which will gather extensive information and knowledge about advanced wooden building technologies in different countries and facilitate international exchanges.

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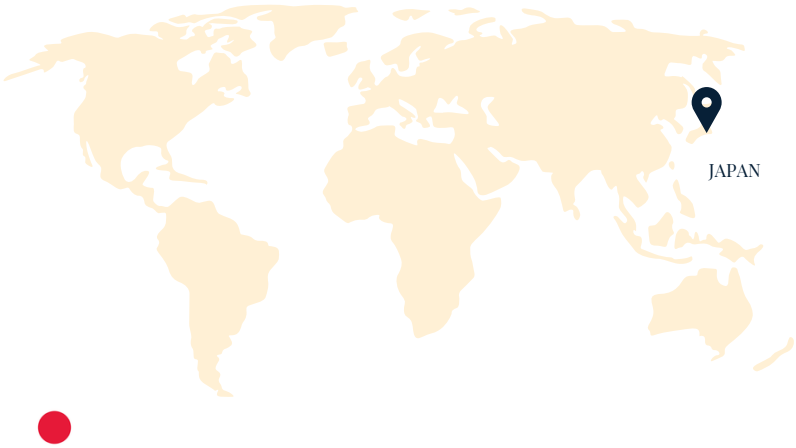

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KYOTO UNIVERSITY

RESEARCH INSTITUTE FOR SUSTAINABLE HUMANOSPHERE (RISH)

Member of the alliance since 2019

PART OF THE WRA

The Research Institute for Sustainable Humanosphere was established as an internal entity at Kyoto University in 2004, when Japanese national universities were incorporated. RISH defines "humanosphere" as the collection of spheres that support and interact with human activities, encompassing the human living environment, the forest sphere, the atmosphere, and the space environment. We continue to pursue a comprehensive understanding of the current situation in the humanosphere to establish science and technology that are indispensable for sustainable development and that contribute to the betterment of society.
RISH research activity is spread all over the world. In addition to conducting many international collaborative programs, we open our inter-university research facilities, databases, and projects to the international community.

JOINED THE WRA

RISH expands its Joint Usage/Research Center activities in line with its four missions and mission 4 aims to develop a sustainable, renewable and cooperative human living environment by constructing a novel social system based on wood-based resources. To create harmony between nature and human activities, this mission focuses on human habitation by examining biologically-based and sustainable materials, the architectural function of structures and the human habitability of these structures. Technologies with low environmental impacts are possible if the structure and function of these bio-resources is well understood. WRA activities directly relate to the architectural function of structures.

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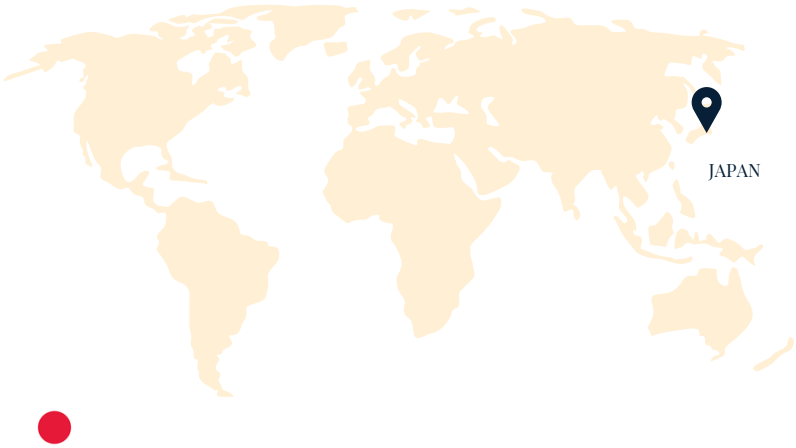

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LAVAL UNIVERSITY

Member of the alliance since 2019

PART OF THE WRA

The Industrial Research Chair on Eco-responsible Wood Construction (CIRCERB) at Laval University is a multidisciplinary and integrated academic platform, partnered to an industry consortium (25 partners), whose efforts cover the entire construction value creation network, in order to develop eco-responsible solutions, using wood-based materials to reduce the ecological footprint of buildings.

The research program is organized under 3 main themes: Design (Design, Environment), Build (Materials, Building systems, Construction) and Operate (durability, Efficiency).
It is a broad and multidisciplinary approach of wood building construction.

JOINED THE WRA

At CIRCERB, we strongly support any initiative that leads to a better knowledge on wood building construction especially in an open source philosophy.

WoodRise Alliance allows to network and share with dedicated scientists and researchers around the world. Such initiative support the development of this industry and will, at some point, make a difference in terms of environmental impact.

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LIGNUM

Founding member of the alliance in 2017

PART OF THE WRA

Lignum Genève is the Geneva section of the leading organization of the swiss forest and wood industry.

It brings together all the important associations and organizations in the sector: research and educational institutions, public corporations and a large number of architects and engineers.

JOINED THE WRA

Lignum Genève is a founding member of the WoodRise Alliance. Some of the leading international organization dealing with environment and climate protection are located in Geneva. Lignum Genève is opened to the rest of the world.

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NTI

NORWEGIAN INSTITUTE OF WOOD TECHNOLOGY

Member of the alliance since 2020

PART OF THE WRA

Norwegian Institute of Wood Technology (NTI) is the R&D center for the sawmill and timber industry in Norway.

Our main tasks are research and development projects, quality control, quality documentation, laboratory tests and dissemination of knowledge from R&D to the Norwegian wood industry.
We have 123 member companies representing sawmilling, woodworking, glulam, roof truss and timber frame industry, as well as related industry.

JOINED THE WRA

NTI is a part of WRA to learn and share knowledge on building with wood in tall urban buildings to contribute to a more sustainable building industry.
NTI has for decades been involved on this subject in Norway, being the R&D centre for the timber industry in Norway since 1949.

NTI has worked with timber design, sustainability, and optimal use of wood in different figurations in buildings, both in interior and exterior products. NTI has also worked internationally with these issues, now lately in the Horizon 2020 project Build-in-Wood.

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RISE

RESEARCH INSTITUTES OF SWEDEN

Member of the alliance since 2018

PART OF THE WRA

Through our international collaboration programmes with industry, academia and the public sector, we ensure business competitiveness and contribute to a sustainable society. Our 2,800 employees support all types of innovation processes and work side-by-side in a variety of fields and we are organised into five divisions and six business and innovation areas. RISE is an independent, state-owned institute, which offers unique expertise and over 100 testbeds and demonstration environments for future-proof technologies, products and services. Our laboratories are well equipped and accredited for several tests and inspection methods. RISE is a, so called, notified body which means that we can perform testing and certification for CE markings.

JOINED THE WRA

RISE is working to strengthen the wood working sector and especially to help the construction sector to tackle the environmental and societal challenges that we are facing around the globe.

RISE possess in-depth expertise in wood technology and wood construction. We know wood in all its forms and have experience of working with all from raw material and processes to the development and projection towards a finished product or building. We also perform research on how wood can replace fossil materials in the future.

By working together and sharing ideas and experiences in the field of wood building technology within the WRA, we believe that we can help the industry to innovate and contribute to a sustainable society.

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TECNALIA

Member of the alliance since 2018

PART OF THE WRA

TECNALIA is a leading Research and Technological Development Centre in Europe, whose mission is to transform technology into GDP to improve people's quality of life, by creating business opportunities for companies, being member of BRTA (Basque Research and Technology Alliance).
We work with an increasingly strategic business relationship model based on trust, collaboration, and a shared technological approach, whereby our main scopes of action are: digital transformation, advanced manufacturing, energy transition, sustainable mobility, health, and the urban ecosystem.
TECNALIA is made up of 1,446 experts from 29 different countries are spread across 23 offices. We are the first private Spanish organisation in contracting, participation, and leadership in the European Commission's Horizon 2020 programme and we are ranked second in European patent applications.

Building Technologies Division of Tecnalia is devoted to transform the construction sector into a more efficient, competitive and sustainable sector, by means of the design and development of materials and products with new or better properties and functionalities, while contributing to their carbon footprint reduction, the digital transformation of the processes and the development of technological solutions for energy efficient and friendly buildings and cities.

JOINED THE WRA

One of the objectives is to maximize the use of timber for the construction sector. Tecnalia is interested in innovation and product development with this material

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TONGJI UNIVERSITY

Member of the alliance since 2018

PART OF THE WRA

Tongji University, one of China's earliest national key universities, is a prestigious institution of higher education that is directly under the Ministry of Education (MOE). Already in its second centenary, the University has grown into a comprehensive and research-intensive university with distinctive features and an international reputation.

The University has 10 academic disciplines of engineering, science, medicine, management, economics, philosophy, humanities, law, education, and arts.

On timber structure engineering, Tongji University is the first scientific research institution in China that started the research of modern timber structure technology and carried out engineering project practice.

JOINED THE WRA

Since 2000, Tongji University has been dedicated to the research of modern timber structure technology, mainly focusing on seismic performance of multi story and high rise timber structures, large span timber structures, timber hybrid structures, connection innovation, etc., and the team has also participated in the design and consluting for a large number of timber projects in China.

In 2018 in Bordeaux, Tongji University was invited and joined Woodrise Aliance.

In collaboration with the partners of the WRA, Tongji University will contribute its achievement in timber structure research, as well as its experience in multi-storey and large span timber and hybrid structures in China.

CONTACT

https://www.tongji.edu.cn

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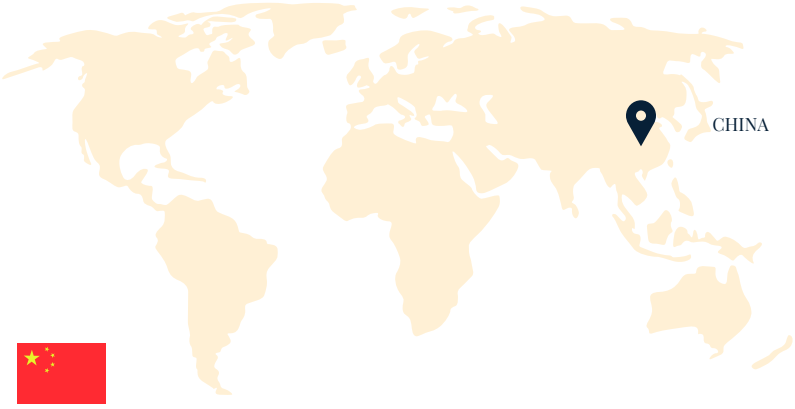
WHERE ?



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TUM

TECHNICAL UNIVERSITY OF MUNICH, CHAIR OF TIMBER STRUCTURES AND BUILDING CONSTRUCTION

Member of the alliance since 2018

PART OF THE WRA

The Technical University of Munich (TUM) is characterized by a unique profile with its core domains natural sciences, engineering, life sciences and medicine. The institutional strategy is focused on strengthening the excellence of disciplinary core competences in research, teaching and learning, but is also targeted towards the promotion of ground-breaking, interdisciplinary research. The Chair of Timber Structures and Building Construction is member in MPA BAU. The aim and task of the MPA BAU of TUM is to develop basic principles and suggestions for research and further development, to serve teaching and to carry out routine tests as a service for the construction industry and authorities. Further tasks are the new development of test methods for questions for which standardized test procedures are not sufficient, as well as problem solutions for the further development and reuse of building materials. Further tasks include participation in national and international standards committees and technical committees and in the accreditation of testing laboratories.

JOINED THE WRA

The Chair of Timber Structures and Building Construction is at the forefront of research into mid and high-rise load-bearing structures, innovative methods of construction, new construction products, improved fire protection, resource conservation, and increased durability in multi-storey timber building and tall wooden buildings. It is one of the leading institutes in timber construction research not only in Europe but world wide. Together with his international network amongst other leading universities in wood science and timber construction (e.g. UBC Vancouver, Aalto University, TU Vienna, ETH Zürich, Tongji University) - he is running an international PhD network to support capacity building and exchange of know how. In addition to the scientific exchange and strong teaching activities, the interdisciplinary cooperation and the transfer into construction business is promoted and lived through the practical experience of the leading staff of senior researchers as well as the environment of the TUM Entrepreneurship initiative. Finally, the success is reflected in an increasing number of third-party funds and a large number of publications, prizes and awards.

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UNIVERSITÉ DE BORDEAUX

Member of the alliance since 2018

PART OF THE WRA

The University de Bordeaux is ranked among the top French universities for the quality of its education and research.
A multidisciplinary, research-focused, international institution, it leads an ambitious development program with its partners to further promote Bordeaux as a "Campus of Excellence".

At Universite de Bordeaux, research topics on wood address all the phases of the wood products life (from the grain to the end of life), and multiple use ways (building and structure, chemistry until biomass and thermal aspects). I2M Institute of Mechanics and Engineering search on wood products, processes and structures topics.

JOINED THE WRA

I2M, Institute of Mechanical Engineering, is a key actor in wood research and mechanics on the campus and at a national level with competences on multi-scales simulations and experimentation. I2M has a strong expertise on patrimonial building analysis and rehabilitation, damage and reliability for large structures, and fire behavior of wood structures.
Thermal performances of building, circular economy and materials flux, but also life cycle assessment, are complementary research topics applied in building and construction.

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VTT

TECHNICAL RESEARCH CENTRE OF FINLAND

Member of the alliance since 2017

PART OF THE WRA

VTT Technical Research Centre of Finland Ltd (VTT), is a state owned and controlled non-profit limited liability company established by law. As an impartial non-profit Research and Technology Organisation (RTO) and with the national mandate and mission to support economic competitiveness, societal development and innovation, VTT carries out research and innovation activities for the needs of industry and knowledge-based society. VTT is organised around three main areas: Knowledge intensive products and services, Smart industry and energy systems, and Solutions for natural resources and environment.
However, all VTT activities are characterised by genuine trans-disciplinary and cross-sectoral approaches and the daily project work is planned and implemented within multi-year, coordinated programmes.

JOINED THE WRA

VTT has taken part to the WoodRise Alliance launching event in 2017 in Bordeaux, which is an international R&D organisms that fosters the wooden building research and innovation actions.

VTT participates to several EU and international projects on promoting forest-based circular Bioeconomy.

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GLOSSARY

AWC : American wood council

BFH : Bern University of Applied Sciences
BRI : Building research Institute

CEI-Bois : Confederation européenne des industries du bois
CSTB : Centre scientifique et technique du bâtiment

DTI : Danish Technological Institute

EOS-OES : European organisation of the sawmill industry

FCBA : Forêt bois Cellulose et Ameublement
FPInnovations

INNORENEW
InnovaWood
IPT : Instituto de Pesquisas tecnológicas

JIBH : Japan International Association for the Industry of Building and Housing

Kyoto University

Laval University
Lignum

NTI : Norvegian Institute of Wood Technology

RISE : Research Institutes of Sweden

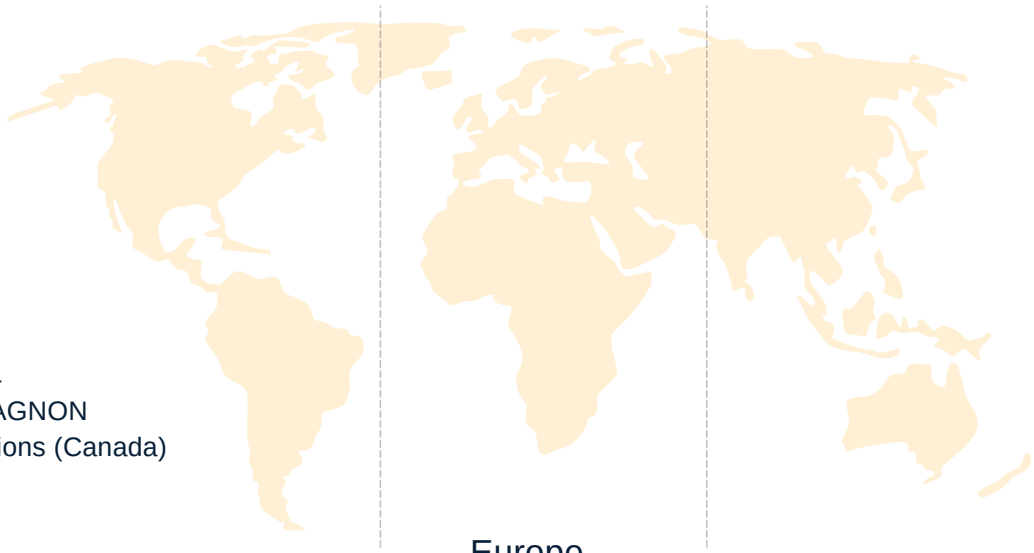
TECNALIA
Tongji University
TUM : Technical University of Munich

Université de Bordeaux
University of Western Ontario

VTT Technical Research centre of Finland

TERRITORIAL CONTACTS

If you would like more information about the alliance, please contact us taking into account the different time zones, namely



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FPInnovations (Canada)

Asia
Koji KATAYAMA
BRI (Japan)

Europe
Jean-Luc KOUYOUMJI
FCBA (France)

WOODRISE

ALLIANCE

Communication and data-sharing means

https://woodrise.org/woodrise-alliance/

Woodrise International:
https://www.linkedin.com/groups/12100769/

Playlist « Woodrise Alliance »:
https://www.youtube.com/channel/UCT3-GBvsNXyVMRuNQ78FFIA

Open workspace for all partners:
https://extranets.fcba.fr/WoodriseAlliance/SitePages/Home.aspx