



Partnership of  
European Regions  
SUSTAINABLE  
BUILDINGS

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**DIGIPOLIS**



# CALLS FOR WOOD BUILDING

- 1. Horizon 2020 Pillar: Societal Challenges**  
**TOPIC : Sustainable wood value chains**  
**Topic identifier: LC-RUR-11-2019-2020**  
**Work Programme Year: H2020-2018-2020**
- 2. ForestValue - Innovating forest-based bioeconomy**  
**JOINT CALL FOR RESEARCH PROPOSALS**  
**ERA-NET Co-fund on innovative forest-based bioeconomy**

# 1. **TOPIC : Sustainable wood value chains**

## **Topic identifier:LC-RUR-11-2019-2020**

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/lc-rur-11-2019-2020.html>

Scenarios likely to keep the global warming below 2°C (Paris Agreement goal) would entail a substantial reduction of anthropogenic GHG emissions, through far-reaching changes to energy systems, land use and associated value chains.

The second consumer-driven factor of GHG emissions is the construction sector (ca. 15%), implying a significant role for forest-based products.

### **A. [2019] Building with wood:**

Proposals shall develop and test new technologies and environmental friendly solutions for the use of wood-based materials in the (re)construction and/or retrofitting of buildings.

- Explore options for building with wood in combination with composite/hybrid materials
- Linkages with other nature-based solutions
- Use of ICT
- Consider LCA and carbon accounting
- ‘Environmental documentation’ (i.e. standards and construction codes)
- Performance standards
- Public policies and regulations
- Consumer perception and engagement/co-creation=>Quattro helix.

<http://figbc.fi/en/building-performance-indicators/>

- Activities could include limited research and shall produce plans and arrangements or designs for new, altered or improved products, processes or services.
- May include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.
- Proposals shall **ensure that relevant actors** (researchers, citizens, policy makers from urban/rural areas, businesses, architects, site-managers, etc.) **work together during the whole research and innovation process in order to better align the process and its outcomes with the societal values, needs and expectations.**

## 2. ForestValue - Innovating forest-based bioeconomy JOINT CALL FOR RESEARCH PROPOSALS

[https://forestvalue.org/wp-content/uploads/2017/11/ForestValue\\_Call\\_Flyer\\_171107.pdf](https://forestvalue.org/wp-content/uploads/2017/11/ForestValue_Call_Flyer_171107.pdf)

17th October 2017	Official launch of the Call for Proposals
15th November 2017	Partnering webinar
23rd January 2018; 13:00 CET	Deadline for submitting pre-proposals



# **SCOPE / THEMATIC AREAS OF THE CALL**

Currently **underutilised potential** in the forest-based sector shall be used to develop novel ideas and create new markets.

**The co-funded joint transnational call** will address the whole forest-based value chain in two areas:

- A. Innovative sustainable management of multifunctional forests***
- B. Innovative industrial production and processing technologies, products, concepts and services***

## ***B. Innovative industrial production and processing technologies, products, concepts and services focusing at:***

- Circular use of forest-based products, side streams and waste within a circular bio-economy.
- Energy and resource efficient processes (e.g. by utilizing side stream woody biomass for energy)
- Extraction, separation and fractionation of wood components for innovative added value green chemicals, components and other value-added products and their new functionalities from wood, wood-based hybrids & composites
- Management concepts for lean timber construction and other building solutions (new & retrofitted; multi-storey & industrial buildings) including the utilization of soft and hardwood resources



- Consequential full life cycle environmental, social and economic impacts of wood and wood construction
- Efficient use of raw materials and other resources taking into account large scale raw material use alterations (e.g. by additional users (biorefinery))
- Quality assessment of wood resources for different uses; also taking into account raw material properties induced by future alterations of species mix resulting under the predicted effects of climate change
- Value-added use of forest-based products for dynamically changing societal needs (e.g. new materials or systems for timber constructions)

As these topics covering the whole forest value chain are cross-cutting, applicants are encouraged to make **best use of interdisciplinary systems approaches**, and to take a look at improving the impact and integration of social research and economics in this sector.

