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InnoRenew CoE

University of Primorska



InnoRenew CoE Renewable Materials and Healthy Environments Research and Innovation Centre of Excellence

Funded by the Horizon 2020 Framework Programme of the European Union

H2020 WIDESPREAD-2-Teaming; #739574



Spreading Excellence and Widening Participation

- significant internal disparities in R&I performance
- pathway to economic growth and competitiveness → R&I
- efficiency of the national research and innovation systems
- stronger participation in H2020 + commitment low-performing Member States

Teaming

institution(s) + institution(s) → new or significant upgrade to a CoE

- European Commission + host country (region) government
- **improvement of their research and innovation systems and policies**
- alignment with host country (region) RIS3

The Renewable Materials and Healthy Environments Research and Innovation Centre of Excellence (InnoRenew CoE) project



InnoRenew CoE - non-for-profit private institute
independent organisational, operational, and management structure
Funds of European Commission (15 million) and Slovenian co-funding of the project (up to 30 million)



Biggest RDI project in Slovenia!

Contract of Establishment of InnoRenew CoE



November 29th, 2016

Founders:



Registration of InnoRenew CoE



February 15th, 2017



Founders:



Zavod za varstvo
kulturne dediščine Slovenije
Institute for the Protection of
Cultural Heritage of Slovenia



The Slovene registration number of the InnoRenew CoE: **7233817000**

Tax number of InnoRenew CoE: **65332547**

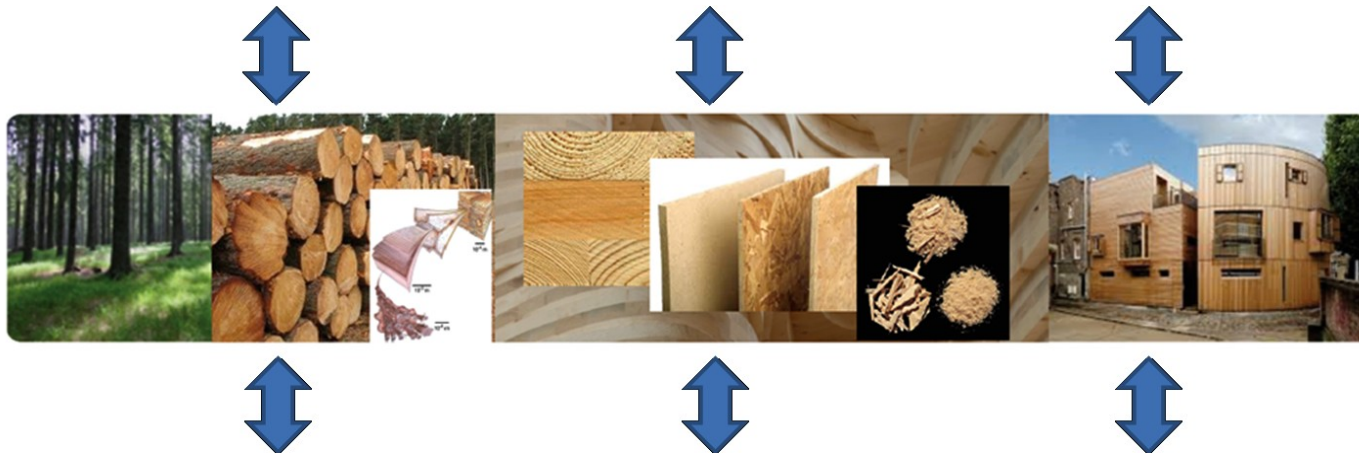


InnoRenew CoE - Main Objective



Develop, improve, and communicate innovative products, processes, services, business models and systems **for smart, sustainable and modern built environments** for all generations **through its research into renewable materials use.**

The InnoRenew CoE will produce innovative solutions to **fill the gap** between **tradition, skills and decreasing performance of the sector.**



Basic Objectives



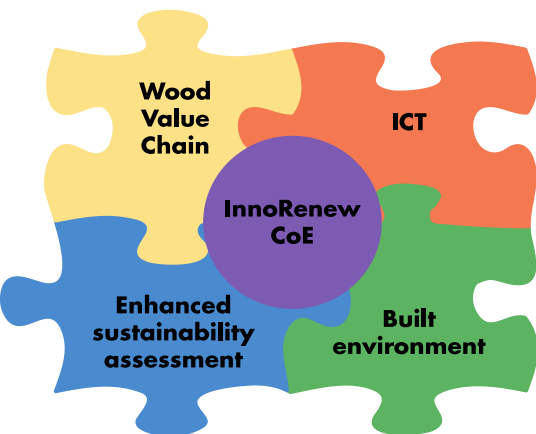
- Focus on improving the **quality and relevance** of scientific work related to *renewable materials*
- Work closely with **businesses and the public**
- Develop **new products, technologies, and services**
- Improve **industrial adoption of innovation**
- Improve the **acceptance and utilization** of fundamental and applied science in industry
- Provide **research, training**, and other support for professionals and the public
- Expand professional **expertise and public knowledge** about *renewable materials*
- Enhance **international cooperation and mobility**



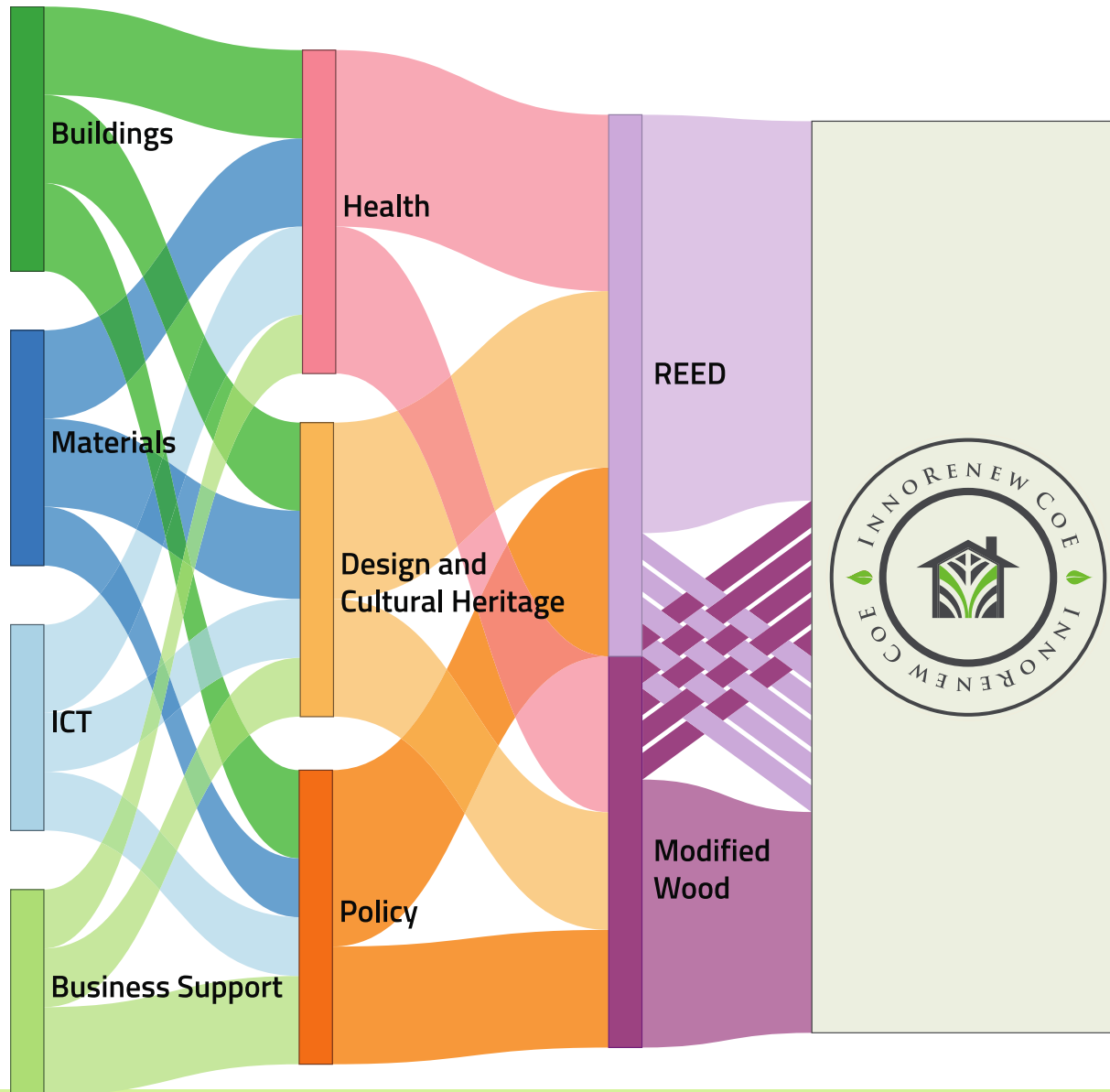
Excellence of InnoRenew CoE



The **key distinguishing technologies** and activities of the InnoRenew CoE are the development of new **wood modification treatments** and optimization of existing treatments to create **new, efficient materials and products** for applications in buildings and products designed within the **restorative environmental and ergonomic design** (REED) paradigm



InnoRenew CoE RDI Plan



Interdependent research:
renewable materials,
sustainable building,
business support, and
ICT

Core research themes
Health, Design and
Cultural Heritage, and
Policy

➔ **new, advanced
knowledge in
REED and
modified wood**





REED combines restorative environmental design (RED) with ergonomic interventions in buildings and products.

RED is a combination of expanded sustainable building methods with building practices that **benefit occupant health.**





WOOD MODIFICATION

Environmental impacts of modification processes need to be **balanced** against benefits such as: service life extension, functionalisation, reduced maintenance, suitability for upcycling, reuse, material cascading, and final disposal with recovery of the intrinsic solar energy stored in the material

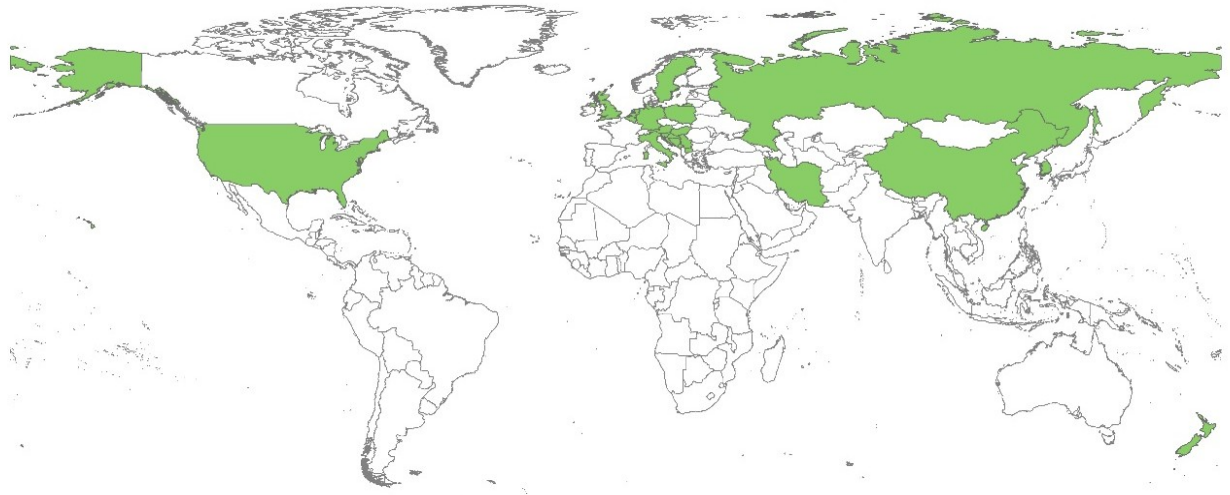
Living laboratory Innovative Renewable Material Uses Living Laboratory



Objective: discuss the project, develop creative and innovative new ideas, provide critical feedback, value chain development, user-led innovation

A **public-private-people** relationship with stakeholders:

- *R&D institutions*
- *Associations*
- *SMEs & Large co*
- *Municipalities*
- *Government bodi*
- *Citizens*



69 from 22 countries



InnoRenew CoE - hiring

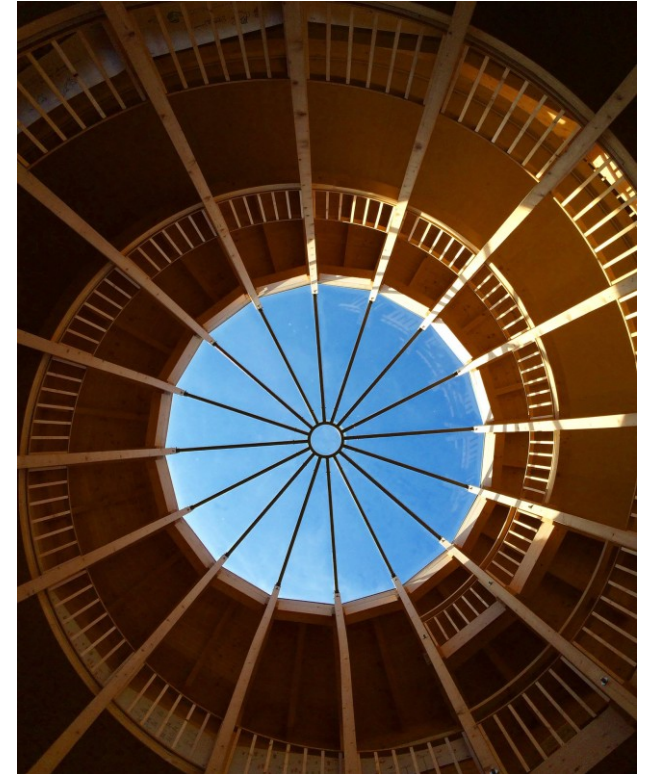


Job openings in the fields:

- wood science,
- civil engineering,
- computer science,
- chemistry,
- health,
- business, and beyond

5 research groups:

- 1. Human Health in the Built Environment**
- 2. Wood modification**
- 3. Sustainable building with renewable materials**
- 4. Renewable materials composites**
- 5. Information and computer technologies**
 - Research group leader
 - Researchers,
 - Assistant researchers, and
 - Technicians



Why InnoRenew CoE?



1. Work with global experts in the fields of:

- *Wood modification*
- *Environmental impact assessment*
- *Human health*
- *Information technology*
- *Business innovation*

2. The option for permanent positions

3. Great location - The location and connections to other cities

4. Excellent support with administrative tasks related to moving to Slovenia

5. Support with transfer of retirement benefits from previous employments

6. Procedural language of InnoRenew CoE – English

7. Family-friendly work environment



To support EU level priorities, and boost the performance of underperforming countries.

Exploiting the potential of Europe's **talent pool** by maximising and spreading the **benefits of research and innovation** across the Union is vital for Europe's competitiveness and its ability to address societal challenges in the future!

Slovenia is an attractive place for research and innovation!

Addresses critical features of EU policy and progress

*The relatively large number of policies related to the **forest-based sector** demonstrates its **economic importance and its relevance** to the EU goals of **climate protection and sustainability**.*

RDI activities are crucial for supporting the innovation processes of the forest-based sector necessary for achieving these goals.

- *EU Growth Strategy 2020: A Bioeconomy for Europe*
- *Resource Efficient Europe*
- *Circular Economy Strategy*
- *Smart cities and communities*

What EU policy can do for InnoRenew CoE!

InnoRenew CoE provides benefits for more than one member state

*The InnoRenew CoE will provide the **critical mass of Europe-wide knowledge** needed to achieve the objectives of the project and the call.*

The networking, multi-disciplinary collaboration, exchange of knowledge, scientific excellence, as well as the expertise of the advanced partner and partners, involvement in Living Lab, open access dissemination, and promotion will result in significant scientific, economic, and social impacts.

Opportunities for advanced partner!

*The InnoRenew CoE is expected to significantly contribute to the goal of Smart Specialization Strategy of Slovenia to **increase the added value and exports of companies** (15% by 2023), by **inter-sectorial research and innovation, networking and integration of the wood value chain** in the design of homes and working environments of the future.*

Continuous support from the Slovenian government!

Thank you!



Photo: Mike Burnard

You are welcome to get in touch!

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WWW.INNORENEW.EU