



ERIFORE

European Research Infrastructure
for Circular Forest Bioeconomy

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ERIFORE – European Research Infrastructure for Circular Forest Bioeconomy – is an infrastructure development project under the Horizon 2020 Framework Programme of the European Union. Our aim is to prepare a plan to establish an open access research infrastructure to facilitate the development of technologies enabling research and commercialization of new value added products from forest biomass.

The starting point for the ERIFORE project was to map Europe’s research and pilot plant facilities for advanced biobased products within and outside the project consortium. This extensive study reviewed current state-of-the-art of infrastructures for all steps in the value chain: from the forest biomass, processing, separation and purification up to conversion into products. Capability check and bottleneck analysis revealed that ERIFORE consortium consisting of 13 partners has a significant set of complementary capabilities in the form of knowledge, skills and infrastructure. The main research fields and technology areas related to forest biorefinery value chains are well covered by the partners, but there are also notable research and innovation facilities outside the ERIFORE consortium.

Watch the ERIFORE whiteboard video to learn more!

1. WE ARE STRONGER TOGETHER

2. OPENNESS BENEFITS EVERYBODY

3. TOMORROW'S NEEDS

4. INNOVATION
NEW VALUE CHAINS


5. EDUCATION

LET'S UNITE FOR A BETTER, MORE SUSTAINABLE FUTURE.

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 This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654371.

WWW.ERIFORE.EU
[@erifore_eu](https://twitter.com/erifore_eu)

Highlights of the first project year



The results of our research infrastructure mapping were presented during our first open workshop on 6th of September in Leuna, Germany. One purpose of this workshop was to collect stakeholders' views on future research and development needs.

Around 60 representatives from different research organizations, SMEs and industry took part in the afternoon session titled: *Forest-based biorefining value chains – how can we reach implementation.*

Several major trends, such as climate change, movement towards sustainable development and green thinking, will have an enormous impact on the use of forest biomass in the future. We have identified the most relevant Social, Technological, Economical, Environmental and Political (STEEP) trends for various technology areas and evaluated their impacts on future infrastructure development needs. We strongly believe that there is room for improvement of technologies and processes to produce versatile products from forest biomass. Value added use of side-streams and waste products will be of increased interest in the future.

The project has outlined some main opportunities to enhance the utilisation of open access research and innovation infrastructures:

- 1) improved awareness of the available capabilities and facilities,
- 2) better coordination and cooperation in use and development of the facilities, and
- 3) enhanced integration of relevant research fields and technology areas for the development of new biorefinery concepts.

ERIFORE 2nd Open Workshop

Save the date for our 2nd Open Workshop! The workshop will be held on 27th of March 2017 at [Tidningshuset](#) in Stockholm, Sweden.

Workshop invitation and registration will be published on [ERIFORE home page](#) soon.

Promotion of research integration and cooperation with supporting funding and policy activities, and coordination of the available capabilities and facilities are crucial to foster the development of scientific and technological advancements.



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Towards ERIFORE goals

Utilisation of forest biomass to new value added products require the combined understanding of the whole development chain, from biomass sourcing, composition, its deconstruction and further conversions to products. Future biorefinery concepts will go beyond of how biomass is used today. This is directly reflected in the infrastructure needs to realize excellent research, innovations and the most up-to-date education that are required for industrial renewal.

Our work will continue with foresighting the emerging concepts to be realized in 10 to 20 years in forest biorefinery. Case studies for selected new product development chains will be carried out to generate understanding on day-to-day operations and possible challenges in use of available open access distributed infrastructures. We will make plans to meet the future infrastructure needs, and propose business and governance models for collaboration arrangements. We will also review the availability of higher education within forest bioeconomy in European universities, and survey the needs for training. Outlines of our work towards the European Strategy Forum on Research Infrastructures (ESFRI) or other collaboration agreements will be discussed during our second Open Workshop.

Join our ERIFORE activities

On our [home page](#) you'll find more information on the ERIFORE project and its progress, including [Workshop presentations](#), raw material database and 13 public deliverable [reports](#). Join also our LinkedIn-group and follow ERIFORE activities on Twitter!



www.erifore.eu



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ERIFORE EU Project

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