



European Network of Regions On Sustainable WOOD mobilisation

EAST EUROPE HUB ROADMAPS

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ROSEWOOD EAST EUROPE HUB STATE OF PLAY

Region	Forest surface (ha)	% of total country area	Yearly cutted wood
Croatia	2,8 mio.	47%	6,2 mio. m ³
Slovenia	1,2 mio.	58%	5 mio. m ³
Romania	8 mio.	37%	17,1 mio. m ³



ROSEWOOD ROADMAP EAST EUROPE HUB - SWOT

Strengths	Weaknesses	Opportunities	Threats
<ul style="list-style-type: none"> • Long tradition in wood production; • Long tradition of sustainable and close-to nature forest management; • High quality raw wood material presents high production capacity; • Forest owners' associations; • Existence of the framework of forest supporting organisations; • Long tradition of high school level and vocational level well embedded in wood processing and forestry education program; • Initiatives to fight climate change • Demand for high-quality products; 	<ul style="list-style-type: none"> • Fragmented forest property; • Low competitiveness of the wood processing industry; • Small number of business support centres dedicated to the SMEs in the wood sector; • Low participation of SMEs in national and international business cooperation structures; • Low level of RDI, technology transfer and cooperation between research and companies; • Lack of favourable national policies and lack of incentive schemes and subsidies; • Lack of professional knowledge of private forest owners in forest management; • Small companies usually have a low productivity: modern technology and equipment are used in a limited extent, and access to finance for these firms is also limited; 	<ul style="list-style-type: none"> • Development of Local forestry value-chains; • Development of regional business models for creation of value-chain; • Strengthening of forest owners' associations and cooperation activities with foresters; • Improved cooperation between industry and R&D; • Development of silvicultural policies towards creating local value-chains for smart and sustainable use of forest resources; • Development and modernisation of technology / mechanisation; • Implementation of modern techniques / practices and knowledge transfer; • Development of alternative sources of wood; • Social networks and digital facility for information sharing (study circles); • High demand for sustainably sourced eco products at developed global markets; • Raising awareness of local use of local resources / products; 	<ul style="list-style-type: none"> • Low level of exploitation of forests / Increase of non-farm forest owners; • Insufficient cooperation between forest stakeholders; • Extensive silvicultural planning insufficiently applied; • Climate change may affect availability of economically most important wood (e.g. oak, beech, fir); • Insufficient interest for investments in development and modernisation of technology; • Low level of awareness of stakeholders on climate change and the necessity to implement adaptation strategies; • Lack of interest of forestry professionals and private forest owners to participate in education / trainings; • International competition with producers from low labour costs countries; • Lack of readiness for cross-sectoral cooperation; Lack of understanding of ecosystem; • Low level of curriculum improvement



ROSEWOOD ROADMAP NEEDS' ANALYSIS

East Hub project partners **analysed forestry and wood industry stakeholders' needs** based on existing literature and studies complemented by questionnaire-based interviews (forest owners, foresters/ contractors and wood industry representatives).

The East Europe Hub Stakeholder Needs Analysis **identified problems related to insufficient availability of the raw wood material, lack of cooperation between stakeholders within forestry and wood industry value chain, insufficient knowledge and skills of human resources, insufficient use of modern tools and technologies** as main obstacles to development of forestry and wood industry.

ROSEWOOD network – a base for knowledge transfer for good solutions **to enhance and promote use of local wood and to establish and strengthen local value chains from the tree in the forest all the way to the final product with high added value.**

Local wood for local use proved once more to be precondition for strong local forestry value chains which ensure a strong local bioeconomy, contributing to a strong regional, national and European economy.



ROSEWOOD ROADMAP NEEDS' ANALYSIS

CROATIA

Forests are mainly (76%) owned by state, while 581,770 hectares (24%) are owned by almost 500,000 private owners which indicates the size of private forestry properties. Most new forest owners are interested and willing to cooperate, manage forests and produce different forest products for the specific markets. Nevertheless, the **use of modern tools and technology is still inadequate as well as knowledge about how to deal with nature caused threats**. Hence, stronger as well as practical support on the field from advisory services and forest associations is needed. Forest owners exploit their forest for own needs and a small share is used for selling on the local or national market via public tenders or private owners initiatives. **The main need is the lack of capacities which could be overcome by stronger and more result-oriented advisory support and a more focused support from associations for joint production and marketing approaches**. These approaches should be tailored for specific niche markets related to new innovative products from private forests.



ROSEWOOD ROADMAP NEEDS' ANALYSIS

SLOVENIA

In Slovenia, **76% of forests are privately owned. Fragmented forest property, small size of average forest property (2.9 ha) and high number of private forest owners (PFOs) hamper professional work and optimal use of wood in private forests.** Establishment of PFOs associations and machinery rings are important steps towards strengthening of private forests management. However, the willingness for cooperation of PFOs is still insufficient, greatly influenced by forest property size, age and co-ownership. PFOs manage their forest mostly by themselves with help of family and contractors. The wood harvested from private forests is used for household consumption (construction, heating) or sold mainly to the local consumers. **The main identified issue PFOs are facing is low timber price, while on the other hand wood industry stakeholders consider prices of wood too high and not in line with its quality.** The current situation on wood market does not satisfy the needs of domestic wood industry for year-round and reliable wood supply in terms of quality and quantity. Therefore, **more knowledge about prices and timber market organization along with organisation of joint wood sale from private forest is needed.**



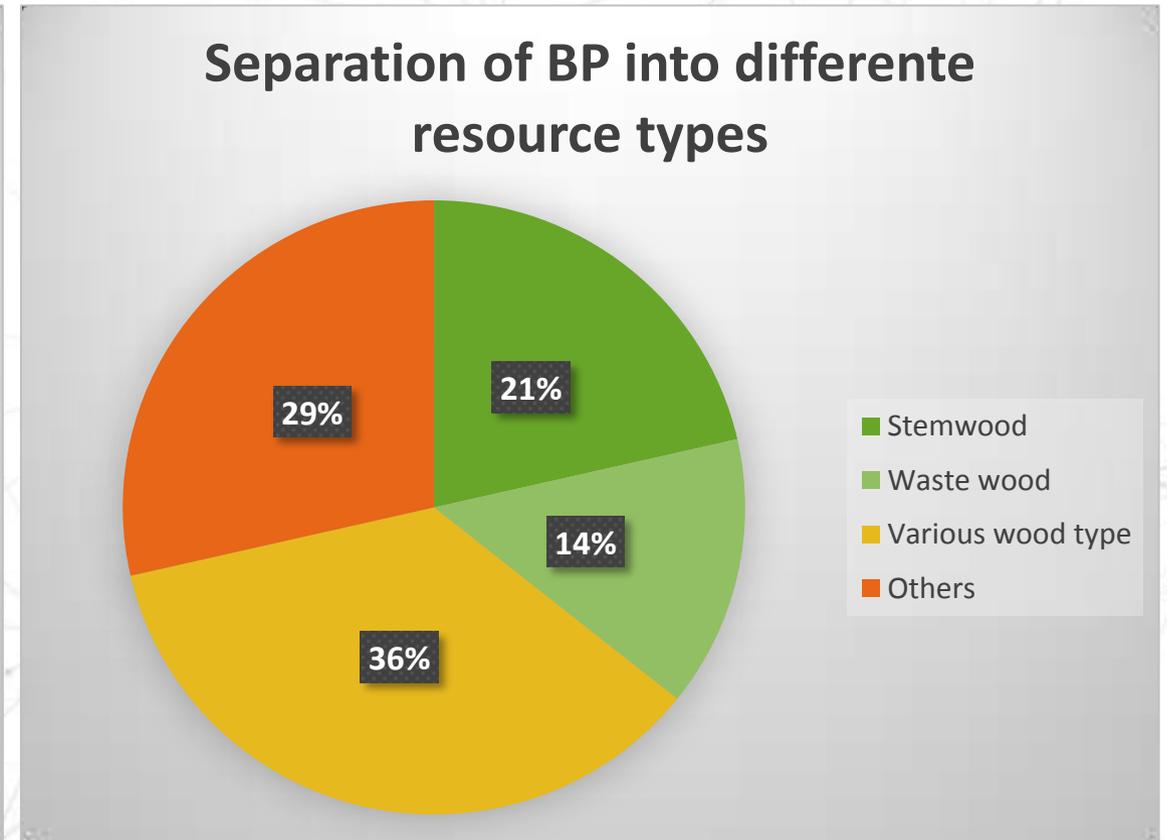
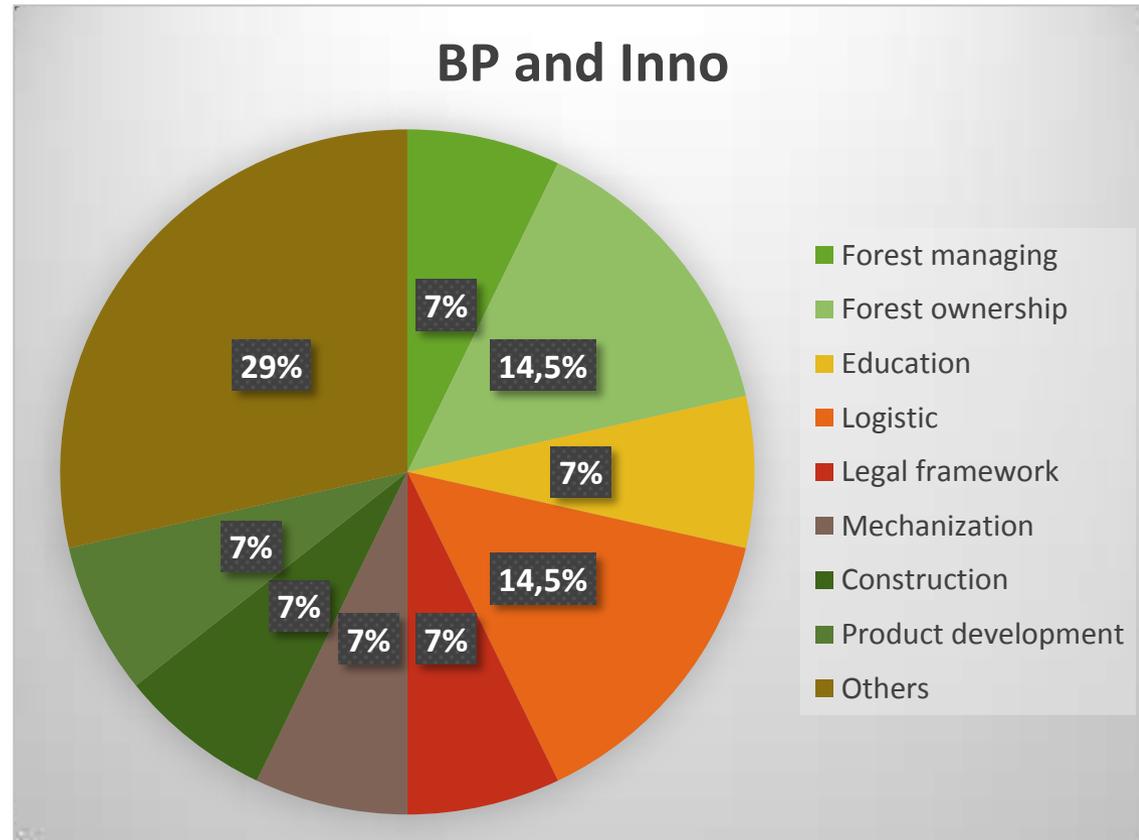
ROSEWOOD ROADMAP NEEDS' ANALYSIS

ROMANIA

Regional and national policies related to the forest-based industry in Romania are often changing, unclear, or do not support development of the industry and the business. Consequently, **cooperation between the different actors of the industry is lacking. Cross-sectorial cooperation is very low and its importance is not recognised. The available experts and human resources in the forest-based industry face an enormous need for skilled workers and experts, due to poor quality of the vocational training and low salaries causing experts to emigrate. Development of new legislations and regulations is needed to create the vocational school system in line with the expectations and needs of the companies. Related to funding, there are some EU-funded and local funding programs, which are complicated to access. The Government does not recognise the importance on creating specific/ sector funding schemes. Research and development (R&D) actors, universities and research institutions are looking for methods and partnerships to approach SMEs to cooperate and create innovative products.**



ROSEWOOD BEST PRACTICES AND INNOVATIONS



ROSEWOOD BEST PRACTICES IN EAST EUROPE HUB

➤ Cascading use of wood, Spačva Ltd., Croatia

Wooden raw material is during production process fully utilized. In every processing step, one final product it is created, and potential of ash use as fertilizer is being researched.

➤ Forest owner cooperation Pohorje-Kozjak, Slovenia

Forest owner association (FOA) Pohorje-Kozjak is voluntary, non-profit and independent association of private forest owners established in 2007 with the main aim to increase the sustainable management of PFOs in accordance with law.

➤ Open Houses Slovenia, Slovenia

OHS is part of the international network Open House Worldwide, which operates in more than 35 cities around the world. The OHS is available to the general public, who can enter and test the buildings made of wood, get in contact with the owners and the experts.



ROSEWOOD BEST PRACTICES IN EAST EUROPE HUB

➤ Machinery ring Bled, Slovenia

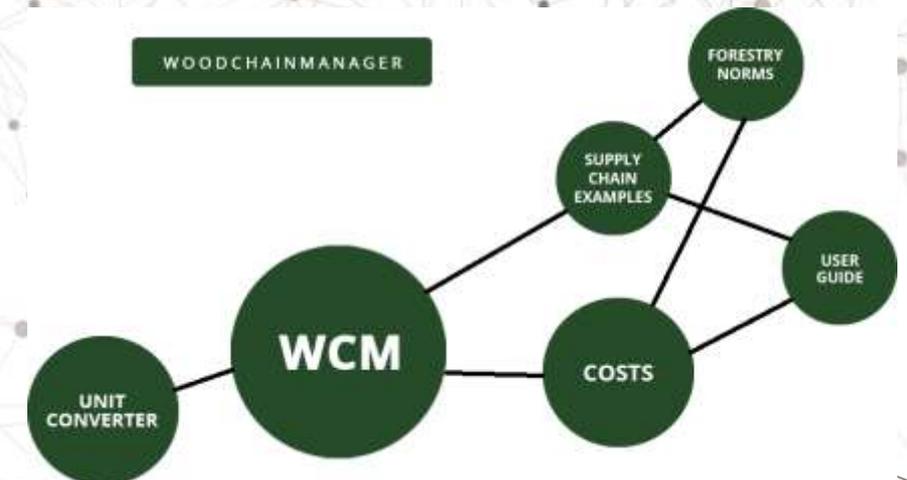
A machinery ring syndicate is a social organization that offers support services for farmers and forest owners which have access to high-quality hardware that cannot be afforded by individual owners. It is a form of the use of machines between farms based on mutual neighbourly assistance. Members are owners of agricultural and/or forestry machinery.

➤ Moj Gozdar, Slovenia

Platform MojGozdar (MyForester) enables the integration of all stakeholders in the forest-wood value chain, including providers of forestry services, users of services (forest owners, forest managers) and administrators of basic data bases about business entities. It is a transparent and objective web-based information system for assessing the suitability of contractors, who perform work in the forest.

➤ WoodChainManager, Slovenia

Web portal WoodChainManager offers different interactive tools suitable for the organization and optimization of forestry works.



ROSEWOOD BEST PRACTICES IN EAST EUROPE HUB

➤ ID:WOOD, Slovenia

IDWOOD aims to promote and foster innovation and competitiveness of SMEs in the wood sector in the SEE area by sharing and transferring technical and organizational know-how to enable local support organizations to address structural deficits of SMEs and enhance innovation potentials.

➤ „Wood is beautiful”, Slovenia

Action plan “Wood is beautiful” is an operational document for increasing the competitiveness of the entire forest-wood value chain. The document defines wood as a strategic raw material of Slovenia, which has a lot of unexploited potential. The action plan sets out the objectives, measures, indicators and deadlines for intensifying forest management and for the revitalization and development of wood processing and the energy use of its residues.

➤ Timber auction, Slovenia

Forest owner’s association organises timber auctions once a year for 12 years. Wood of exceptional quality of various tree species can be sold at the timber auction. Trees that have high quality timber and are suitable for felling need to be identified with the help of local forester.

The logo for ID:WOOD features the text "ID:WOOD" in a bold, black, sans-serif font. A green, curved swoosh underline is positioned above the "D" and "O" characters, extending to the right.

ROSEWOOD BEST PRACTICES IN EAST EUROPE HUB

➤ ReWin, Slovenia

The main goal of the ReWin project is the development and commercialization of wooden windows made of old, discarded wood, with special emphasis on wooden beams. M SORA company developed a prototype of a timber window ReWin made of disposed timber windows which were even 50 years old.



➤ Wood as primary construction material, Romania

Since Harghita County is rich in wood source, the main aim of this policy is to encourage and promote the use of wood in constructions first of all at the level of public buildings but to enlarge it on business and household level.



➤ Wood Recycling, Romania

EGGER Romania invested in resource saving technology and included recycling in the process. They process waste wood from furniture, pallets, wooden packaging materials, construction and demolition, that meets the requirements of the applicable directives and inspection systems.



ROSEWOOD BEST PRACTICES IN EAST EUROPE HUB

➤ TimFlow, Romania

The application started in April 2017, the number of registered users grew 60% in the first two months following the update, and the number of transports checked on the platform surpassed the 3,000 mark – a growth of 75%. In 2017 over the first six months in operation, Timflow has recorded real-life data from all the trucks delivering logs to the first company implementing the traceability system.

➤ Collection and use of urban wood waste, Romania

TEGA company operates in the urban public services area, initiated a large campaign for wood residue collection in cities and villages at the county level in Covasna County. TEGA uses wood chips as fuel in its heating plant and provide heating for its workshops, office buildings. The idea was to collect the wood residues from the green areas. The collected wood residues (i.e. forest sanitation, gardening cuttings and cleaning operations) are chopped and crushed and can be delivered for energy production.



TIMFLOW
Wood Tracking



ROSEWOOD INTERESTING BEST PRACTICES FOR EAST EUROPE HUB

➤ **PASSFOR (Plan for Socioeconomic Activation of the Forest Sector)**

The forest sector promotes socioeconomic activity (contributes to the diversification of economic activity at rural areas; increases the number of employments related to forest activity, improves the incomes of the working people in the forest sector; increases the size of the forest property and attain economically efficient surfaces for a sustainable forest management).

➤ **Rolling silviculture planning (annually)**

Optimization of forest management, silvicultural planning and different working processes.

➤ **Joint ownership, forest consolidation**

Bigger forest estates with easier access to forest property, more cost-efficiency in harvesting, easier management, tax relief.



ROSEWOOD INTERESTING BEST PRACTICES FOR EAST EUROPE HUB

➤ **KomSilva – Joint Project: Development and Use of communication and consulting assistance for private and communal forests for addressing forest owners and to intensify public relations in forestry**
Improvement of forest management through development and use of communication and consulting assistance.

➤ **#WOODVETIA – Campaign for more Swiss wood**

Emphasized importance of the local wood mobilisation and the benefits of a sustainable forest management as an important issue to improve the wood mobilisation in long-term a foresting the wood value-chain.

➤ **Case BioA refinery concept – Fertilizers from side flows of wood-based industry and ashes of wood-based power plants** - Implemented concept of new fertilizer production using circular economy methods.
Implementation of good example of circular economy and cascade use of wood.

➤ **MOTI / “Mobile Timber Cruise”**

Digitalization of the Forest stand inventory and forest operation planning (determining the most important dendrometer indicators).



OVERVIEW OF EAST EUROPE HUB ACTIVITIES

WS1 BUSINESS IDEA CREATION

14.03.2019.

LJUBLJANA, Slovenia

- East Europe Hub ROSEWOOD project partners organised **Business idea creation workshop**
- **18 experts participated** – representatives of Zagreb Forestry Faculty, Local Development Agency Skrad, Croatian Forests Ltd, Romanian Cluster Association, Business Pulse Ltd Romania, Croatian Ministry of Agriculture, Public institution for management of protected areas of VSC Croatia, Slovenian Chamber of Commerce and Industry, Biotechnical Faculty of Ljubljana University, M Sora Ltd Slovenia, Slovenian National Institute of Chemistry;
- **Workshop results: 11 business ideas created**
- **4 business ideas pre-selected for business model development**
(Wood up – spin of companies; Clean recycled wood - Develop sorting system for identification of old/used wood; Intelligent green wooden



houses; From garbage to the new product;

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WS2 BUSINESS MODEL DEVELOPMENT 11.04.2019.

BRASOV, Romania

- East Europe Hub ROSEWOOD project partners organised **Business model development workshop**
- **18 experts participated** – representatives of *Croatian Forests Ltd, Romanian Cluster Association, Business Pulse Ltd Romania, Ministry of Agriculture, Croatia, Public Institution for management of protected areas of VSC, Croatia, University of Ljubljana, Biotechnical Faculty, Department of Wood Science and Technology, Slovenia, Lag Prespa, Resen, Macedonia, Green Energy Cluster, Romania, Mondoimpex Ltd, Romania, University of Sopron/Transylvanian Furniture Cluster, Hungary, Transylvania University of Brasov, Romania, Clusterul Lemnului Bucovina, Romania, Bulgarian Furniture Cluster/Ligna Group Bulgaria*
- **Workshop results: 4 business models developed; From waste to the new product business idea selected for further development;**



RECOMMENDATIONS FROM THE ROADMAPS

The sustainable use of resources needs to be accomplished based on the **improvements of human resource skills and knowledge** that are accompanied by intensified activities related to networking and collaboration of the stakeholders.

Forest management and silvicultural interventions should be based on transparent data. The quality of the data could be improved by applying 3D forest visualization, combining actual forest data, GIS and game technology for implementing forestry actions and observing results, and for combining forestry operations.

The implementation of collaborative forest management through frameworks and platforms might enhance stakeholders' cooperation. **Benefits of joint ownerships, may result in easier, more cost-efficient management and tax relief. Further, joint approaches might provide access to technology modernisation throughout the forestry and wood industry value-chain.**



RECOMMENDATIONS FROM THE ROADMAPS

Socio-economic activation plans would promote socioeconomic activities, leading to a **diversification of economic activities in rural areas, more jobs may be created in the forestry sector securing the incomes from forestry.**

By implementing best practices and innovations from other regions (South, North and Central Hub) and adapting them to the regional context offers potentials for overall improvement and development of the East Europe forestry and wood industry sectors.

The ROSEWOOD network serves as a platform for initiation of collaboration between regional stakeholders with other Hubs' stakeholders which are implementing recommended practices. This joint approach could be used on regional inter-Hub level for a long-term exchange of knowledge and technology in the wood mobilisation sector - **to enhance and promote use of local wood and to establish and strengthen local value-chains from the tree in the forest all the way to the final product with high added value.**



**THANK YOU FOR
YOUR ATTENTION!**



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