

SIRA 2030 of the European Forest-based Sector targets, challenges and R&I needs

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BioEast as a driving force in the context of the European Green Deal

High-level conference on deploying sustainable circular bioeconomies in Central and Eastern Europe

TWG: Forestry Value Chain

20-21 February 2020

Permanent Representation of the Slovak Republic to the EU, Brussels

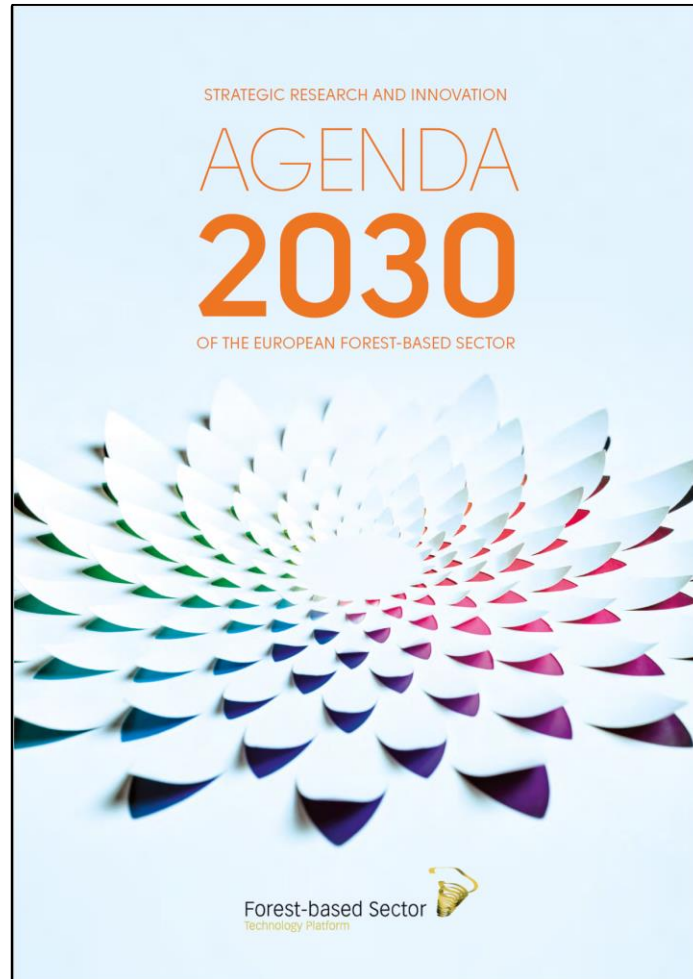
Forest-based Sector
Technology Platform



FTP and our 3rd generation

Strategic Research & Innovation Agenda

European Stakeholders



National stakeholder groups



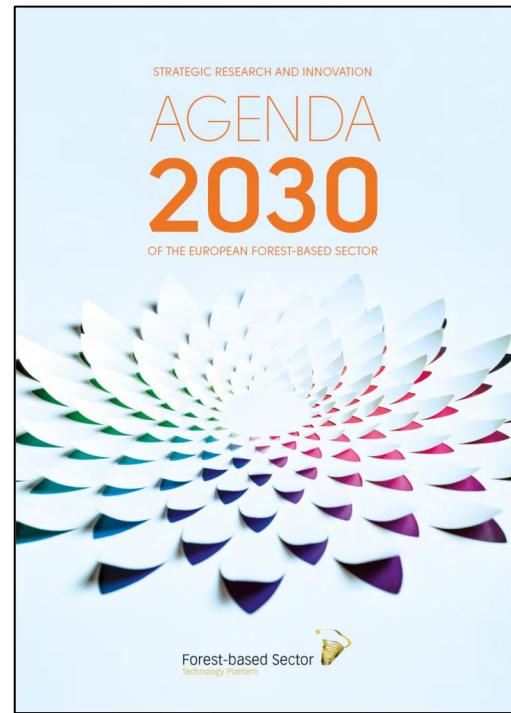
From Vision to Implementation

vision and targets

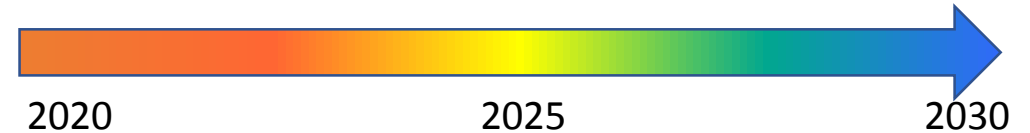


2018

challenges and activities



2019



Implementation phase

- Inspire Horizon Europe and national funding programmes
- Create opportunities for high-impact projects
- Encourage technology investments
- Measure progress

a timely vision for a **European Green Deal**



“Becoming the world’s first climate-neutral continent is the greatest challenge and opportunity of our times. It involves taking decisive action now. We will need to invest in innovation and research, redesign our economy and update our industrial policy.”

Ursula von der Leyen, President-elect of the European Commission

The FTP Vision 2040 has been agreed and approved across the European forest-based sector. Our sector speaks with one voice when it comes to research and innovation.

The heart of the vision can be explained as follows:
Forest volumes continue to increase across the EU.
Sustainable forest management ensures the resilience

- The sector is bustling with entrepreneurial activity that creates employment and enriches both rural and urban regions.

We, as a sector, prosper from satisfying people’s desire to live in greater harmony with nature and reduce their environmental footprint. Smart services and products designed for reuse, recycling and recovery contribute to

Inspire Horizon Europe and national funding programmes!

- We have a concise and intelligent long-term plan.
- We stand united, committed as a value-chain, when it comes to research & innovation

Use SIRA 2030 to show the European Commission and Member States that we mean business with research!

4 Towards a zero-waste,
circular society

Create opportunities for high-impact research projects!

B Improving wood-based products, including engineered wood and composites

Products manufactured from solid wood, engineered wood (e.g. cross-laminated timber) or biobased composites, far outperform non-wood materials in terms of carbon-neutrality and in many physical properties, such as low weight and high insulating capabilities. These products are used in various wood-based building systems, but also in furniture, boat



Examples of research and innovation activities

- Improve long-term durability and outdoor performance of wood-based products by developing new and sustainable protective treatments and design solutions
- Research new, integrated smart functions such as photovoltaic and heat-conversion properties, and biosensors that provide provenance and traceability



Create opportunities for high-impact projects!

Moving the challenge from business to research

Specific Business Challenges

1. Ban on toxic wood-treatment chemicals
2. Weathering of wood products favours stone, plastic and tropical timber



Innovative Research activities

1. Enzymatic degradation of cellulose fibres creates nano-cellulose which is light, durable and stronger than steel



Specific Research Challenges

1. high viscosity of nano-cellulose suspension
2. Long-term behaviour of NFC-reinforced glues and coatings



Business opportunities

Nano-cellulose might be used in wood coatings to achieve;

1. super-durable wood products
2. Improved dimensional stability
3. Electronic-like properties on wood surface

Encourage technology investments...

A Developing industrial symbiosis

- Cross-sector cooperations!

C Adopting additive manufacturing technologies and new production methods

- Emerging technologies!

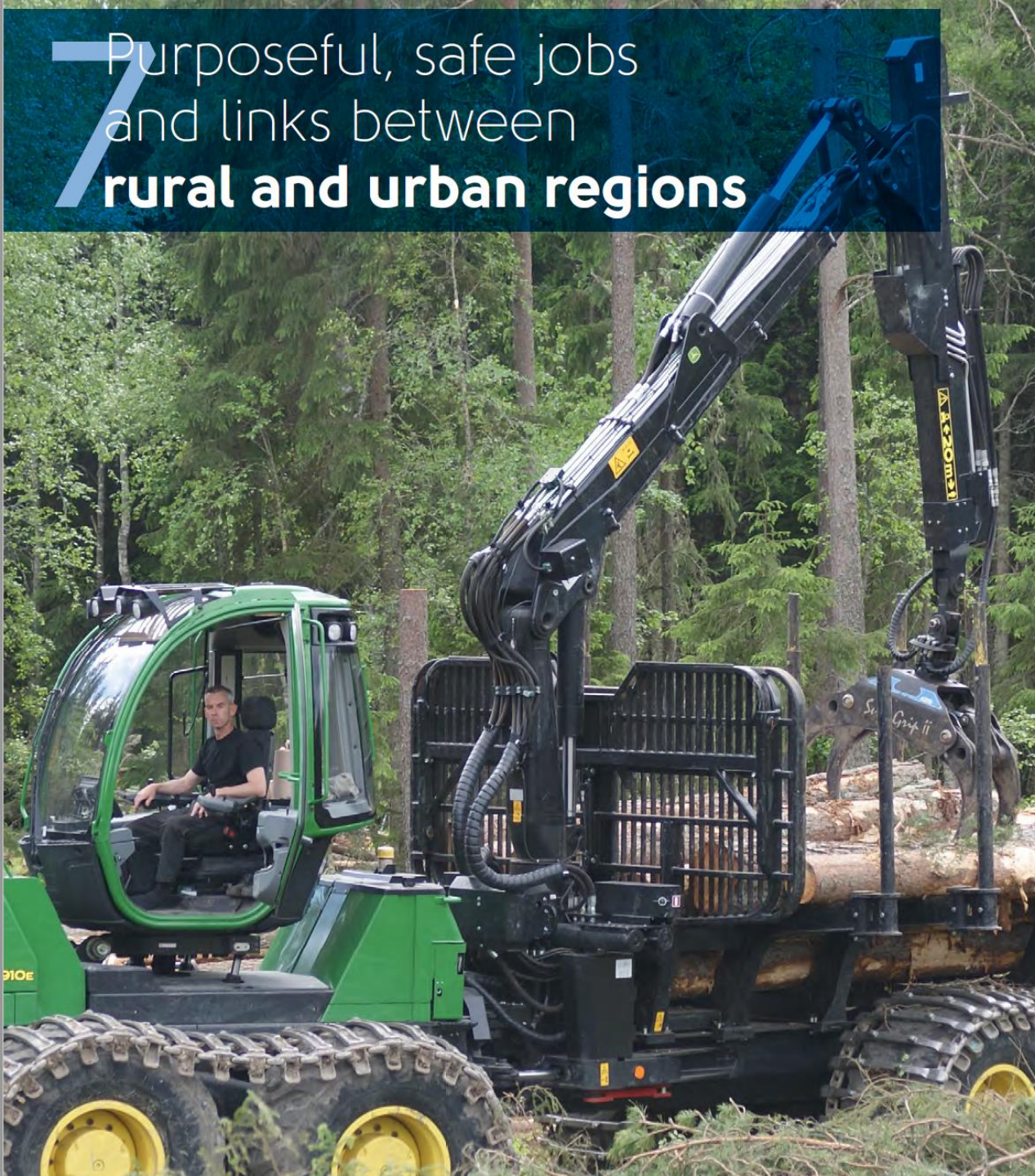
E Improving traceability and chain-of-custody throughout the value chain

- Strengthening our value-chain!

Diversification of production technologies and logistics



7 Purposeful, safe jobs
and links between
rural and urban regions



Measure progress



Which is your favourite Vision Target?

...And how can you help reaching it?

- Time to dream up and team up!



1 Sustainable forest management, biodiversity and **resilience to climate change**

Thank you for your attention

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Thank you for creating opportunities for R&D&I cooperation on a European level!

FTP Supporting Companies



FTP Shareholders

