



## What is FPS?

# Forests, their Products and Services

FPS has the mission to promote research along the whole forest-wood-chain by providing a platform for effectively coordinating nationally-funded research activities in the areas of forestry, wood technology, and pulp and paper.

## In Detail

The following examples illustrate actual research within this Domain. The scope of the Domain is not restricted to these activities.

- **Forestry Research** supports activities aiming at meeting the economic, environmental and social needs of present and future generations in a sustainable way. In the light of the current international forest dialogue, the DC FPS offers a forum for encouraging a scientific debate on ensuring a sustainable provision of forest products and services, such as wood and wood products, water and soil protection, climate regulation, bioenergy, rural development, recreation and public health, habitats for wildlife, landscape diversity, carbon sinks and reservoirs.
- **Forests and Environment** research activities focus on the protection of forests from pollution, abiotic and biotic hazards (fire, storms, pests and diseases..) in order to maintain their full multiple values and the important roles of forests in climate change mitigation and adaptation. In this context adequate importance is attached to the provision of timely, reliable and accurate information on forests and forest ecosystems as they are essential for public understanding and knowledge-based decision-making.
- **Wood technology** research aims at an increase of knowledge necessary for an enhanced and broader use of wood as a sustainable, energy efficient and renewable resource in existing (buildings, constructions etc) and new applications. With the objective to enhance competitiveness of wood and wood composites, DC FPS supports research activities focusing on the improvement of wood properties, the performance of timber and its indoor and outdoor usability.
- **Pulp and Paper** research contributes to increased knowledge of the physical, chemical and biological characteristics of the pulps and the resulting products. High priority is placed on optimising the level of utilisation of the resources and to improve both the sustainability of pulp and paper making and the competitiveness of paper products in particular in new applications. The research also enables the development of intelligent and efficient manufacturing processes, including reduced energy consumption.
- **Bioenergy from forests** research enhances our knowledge about how to use biomass from forests to meet the energy needs of present and future generations sustainably and without damaging the forest's ability to meet other needs. Biorefinery research develops the potential for the forest-based sector to extract higher value innovative products for changing markets and customer needs.
- At a cross-sector level, the DC FPS addresses issues such as sustainability assessment, life-cycle analysis, tourism, public health, energy production and recycling. Therefore, new ideas and interdisciplinary initiatives are welcome.

## Chair

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### Current COST Actions within the FPS Domain:

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- **FP0602** Biotechnology for Lignocellulose Biorefineries (BIOBIO)
- **FP0603** Forest Models for Research and Decision Support in Sustainable Forest Management
- **FP0701** Post-Fire Forest Management in Southern Europe
- **FP0702** Net-Acoustics for Timber based Lightweight Buildings and Elements
- **FP0703** Expected Climate Change and Options for European Silviculture (ECHOES)
- **FP0801** Established and Emerging Phytophthora: Increasing Threats to Woodland and Forest Ecosystems in Europe
- **FP0802** Experimental and Computational Micro-Characterisation Techniques in Wood Mechanics
- **FP0803** Belowground Carbon Turnover in European Forests
- **FP0804** Forest Management Decision Support Systems (FORSYS)
- **FP0901** Analytical Techniques for Biorefineries
- **FP0902** Development and Harmonization of New Operational Research and Assessment Procedures for Sustainable Forest Biomass Supply
- **FP0903** Climate change and Forest Mitigation and Adaptation in a Polluted Environment
- **FP0904** Thermo-Hydro-Mechanical Wood Behaviour and Processing
- **FP0905** Biosafety of Forest Transgenic Trees: Improving the Scientific Basis for Safe Tree Development and Implementation of EU Policy Directives
- **FP1001** USEWOOD: Improving Data and Information on the Potential Supply of Wood Resources - A European Approach from Multisource National Forest Inventories.
- **FP1002** Pathway Evaluation and pest Risk Management In Transport - PERMIT
- **FP1003** Impact of Renewable Materials in Packaging for Sustainability - Development of Renewable Fibre and Bio-Based Materials for New Packaging Applications
- **FP1004** Enhance mechanical properties of timber, engineered wood products and timber structures
- **FP1005** Fibre suspension flow modelling - a key for innovation and competitiveness in the pulp & paper industry
- **FP1006** Bringing new functions to wood through surface modification
- **FP1101** Assessment, Reinforcement and Monitoring of Timber Structures
- **FP1102** Determining Invasiveness And Risk Of Dothistroma (DIAROD)

The Domain Forests, their Products and Services concerned with complex processes which form the basis for present and potential capacity to provide renewable resources for human needs as well as environmental services.

### Success Stories

**COST Action E43** set out to harmonise the definitions and concepts of national forest inventories (NFI). Its achievements have been directly applied to international reporting processes, like the United Nations Forest Resource Assessment and the forest related Greenhouse Gas Reporting.

This Action also significantly contributed to preparing a European forest monitoring system.

### How to join a COST Action

Scientists interested in joining an ongoing COST Action should contact the Action Chair and the COST National Coordinator in their member country ([www.cost.eu/cnc](http://www.cost.eu/cnc)).

To propose a new Action, visit: [www.cost.eu/opencall](http://www.cost.eu/opencall). COST assesses new proposals two times a year.



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