

SCAR FOREST

Strategic Working Group on Forests and Forestry Research and Innovation

BIOEAST conference, Brussels 21.2.2020

Taneli Kolström





SCAR FOREST Mandate

 SCAR FOREST mandate has been initiated in 2011, established in 2013, reviewed in 2016 until mid-2019, finally reviewed in 2019 until mid 2022

SCAR FOREST missions are to:

- Strengthen transnational research and cooperation in forests and forestry (climate change, biodiversity, bioeconomy)
- Promote research-based systems and value-chain approaches with consideration of other sectors and regions in the world
- Advise on R&I support to the implementation of MS and EU strategies

SCAR FOREST activities

- Support, develop and improve networking actions
- Contribute to define priorities for R&I framework programs
- Broaden the scope of cooperation (agricultural issues and global challenges)
- Stay tuned to developments in public policies



SCAR FORESTRY team

Participants:

- Member states: AT, BE, CZ, DE, EE, ES, FI, FR, GR, HU, IE, IT, LV, LT, NO, PL, SE, SK, UK, ...
- Oberservers: EFI, FTP, INNOVAWOOD, IUFRO, FORESTVALUE (EU DG AGRI)

Coordinating group

- Taneli Kolström, Luke, FI, Chair (taneli.kolstrom@luke.fi)
- Vera Steinberg, Ble, DE (Vera.Steinberg@ble.de)
- Kalliopi Radoglou, Duth, GR (kradoglo@fmenr.duth.gr)
- Tomas Bucha, SK (<u>bucha@nlcsk.org</u>) BIOEAST
- Annabell Amm, Ecofor, FR (annabelle.amm@gip-ecofor.org

Recent reports







Coming in near future: Study on digitalisation and automation in the forest-based sector.

https://scar-europe.org/index.php/forest-documents



Assessment of forest-related ERA-Nets and Cost Actions



	COST actions	ERA-Nets
Period	From 1990	From 2004
Number of projects	137	159
Average funding	2/3 M€/year	8 M/year
Domains Forestry Wood Paper Novel products Other (biodiversity)	37% 27% 12% 4% 20%	33% 19% 4% 21% 23%
Leading countries	Rather balanced	DE, FI, SE, FR UK, NO, AT, DK, IT, ES

- COST activities decreasing in forestry
- **COST Horizon succes rate 37%** (Ferrao, 20.2.2020)

https://scar-europe.org/index.pp/forest-documents



Study on digitalisation and automation in the forest-based sector – preliminary results

- Importance of information and communication technology (ICT) and automation (incl. robotisation), both in forest management (including the provision of ecosystem services) and the forest-based sector
- Feeling that there is less research and innovation activities in these

sectors than in the agro-food sector, but tools

- of multi-source forest inventories and projections
- To improve the marketing of wood,
- To increase the performance of logging operations
- To provide a traceability of resources
- To better know and valorise ecosystem services
- To support industrial processess.
- Final version ready in near future



Study on digitalisation and automation in the forest-based sector – main messages

- Great role of the forest-based sector as an ecosystem, in terms both bioeconomy and ecology
- Research and Innovation are crucial to play this role
- Digital revolution: key factor for competitivity and effectivenses in playing this role
- Adaptation of forests to climate change needs big data and their smart use
- Forest owners and managers are much concerned
- Useful to optimize complex value chains
- Useful for market transparency







Context of the forest-based sector

- The forest-based sector is essential worldwide for societes because it provides many goods and services and is concerned by many of the SDGs.
- It is **highly concerned by major, increasing and different issues** on climate change, biodiversity, illegal timber logging, deforestation, social expectations, new opportunities due to the development of bioeconomy and ICTs.
- Wood is a renewable, energy-efficient, natural resource with multiple properties: aesthetic, insulating ,acoustic, mechanical, chemical, ...
- The length of forest cycles underlies the need for sustainable forest management that
 is challenged by increasing uncertaintities undel global change
- Fragmentation of the forest-based sector (multiple owners, SMEs), forest-related policies (BD, agriculture, climate, energy and circular bioeconomy; sustainable development, forests and timbers,...) and research and innovation.



Context of the forest-based sector

This fragmented context pushes to:

- Unite forces and cooperate in research and innovation partnerships
- Analyse issues systemically, holistically
- Make the forest-based sector more visible

Gobal changes reinforce these needs:

- BD has become a clear global challenge (UNFCCC, IPBES)
 - With tropical deforestation and forest degradation,
 - With ecologically-friendly forest transition and management, often increasing BD
- Climate warming demands resilience (adaptation to mitigation)
- Circular bioeconomy with wood as a major renewable resource





THANK YOU For your attention

Dr Taneli Kolström taneli.kolstrom@luke.fi



