Welcome

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Symposium on Wood Products Industries in Future Bio-economy Business
April 7-8, 2016, Sibelius Hall, Lahti, Finland
Balanced forest bioeconomy

- Customer and end product driven approach
- Maximizing the raw material value
- Total competitive ability, markets and business
- Key players
  - Pulping industry
  - Saw mill and plywood industry
  - New industrial symbioses
- "Main" products to large global and domestic markets
- Side streams to value added chemicals and specialities
Research needs

- **New product and service innovations – branding & standardization**
- **Quality driven raw material production and extraction**
  - Understanding the genetic background of quality attributes
  - Advanced breeding, in parallel with forest management
  - Logistics and digitalization
- **Volume business**
  - Quality, adaptability, value chains
  - Building with wood (BtoB)
  - Living with wood (BtoC)
  - Logistics industries
- **Speciality business**
  - Less conventional tree species (Salix, Larix, Populus etc.)
  - New functionalities for niche markets
Research needs (cont.)

- Development of biobased durability enhancement technologies
  - Natural protection, new protection agents
  - Superior technical modification

- Generation of new value chains and industrial symbioses
  - Saw and plywood mills + biorefineries

- Cascading use of wood and closed loops
  - Toward zero-waste and closed-loop chains
Key challenges for the industry

- From BtoB to BtoC
- Branding
- Global thinking
Boreal Green Bioeconomy at Luke

Biomass based products, service and business
- Solid wood products, building with wood
- Recreation, non-wood forest products
- Eco tourism, healing in the forest

Biomass production
- Genomics
- Precision farming and silviculture
- Abiotic and biotic stress management

Harvesting and logistics
- Digitalization and big data
- Harvesting and transport
- Human-machine interactions

Biorefinery technologies
- Distributed processes
- Fractionation
- Extraction technologies

Resource efficient planning and decision making
- Land use optimisation
- Sustainability, acceptability and biodiversity
- Closure of yield gaps

Programme manager: Prof. Antti Asikainen
Purpose of the next 2 days

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High-impact international symposium on the brilliant future of European wood products industries and society

Symposium highlights

- the importance of industries in wood products cluster in the European bio-economy (sawntimber, wood panels, furniture, wood construction, wood packaging, machine manufacturing, etc.)
- new opportunities for business, markets, products, services and wood design
- implications of and effects to EU-strategic processes
- networking at the European level between decision makers of wood products industries, society, policy and research funding
Thank you!