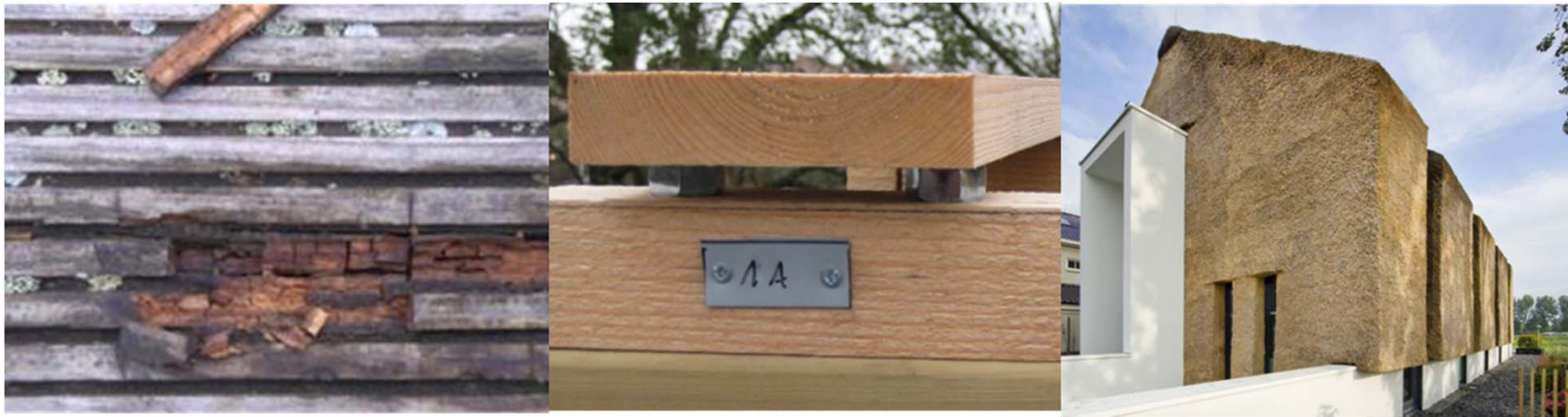


Ongoing R&D projects in COST member countries

January 2014



COST FP1303: Performance of bio-based building materials



Participating Group 1: **Material capability and enhancement**

Dr. Marius Aleinikovas, Institute of Forestry, Lithuanian Research Centre for Agriculture and Forestry

Participating Group 2: **Functionality and performance**

Mr. Benas Silinskas, Institute of Forestry, Lithuanian Research Centre for Agriculture and Forestry

Participating Group 3: **Adaptation and application**

Dr. Mindaugas Skema, Institute of Forestry, Lithuanian Research Centre for Agriculture and Forestry

Country

Research institute/uni/company

January 2014



Participating Group 1: **Material capability and enhancement**
previous activities

***1) COST E53 “Quality Control for Wood and Wood Products”
(2006-2010)***

2) Wood quality and forest fuel recourses in pine stands (2006-2010)

3) Quality changes in pine wood production chain (2004-2008)



COST FP1303: Performance of bio-based building materials

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Participating Group 2: **Functionality and performance**

Estimation of the internal rot influence on Norway spruce (*Picea abies* (L.) Karst.) wood properties 2012-2014

SNS project Larch wood potential for exterior use (2004-2005)

Evaluation of distribution of false heart in the wood of birch and preparation of recommendation (2003-2005)



COST FP1303: Performance of bio-based building materials

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Participating Group 3: **Adaptation and application**

„COST FP0603 Forest models for research and decision support in sustainable forest management.

COST E44. Wood Processing Strategy.

Modeling and estimating of underbrush dry biomass quantity in Lithuanian forest.



COST FP1303: Performance of bio-based building materials



Laboratory Timber use, quality and processing technologies (*Studentų st. , Akademija, Kaunas distr.*)



Bending test machine



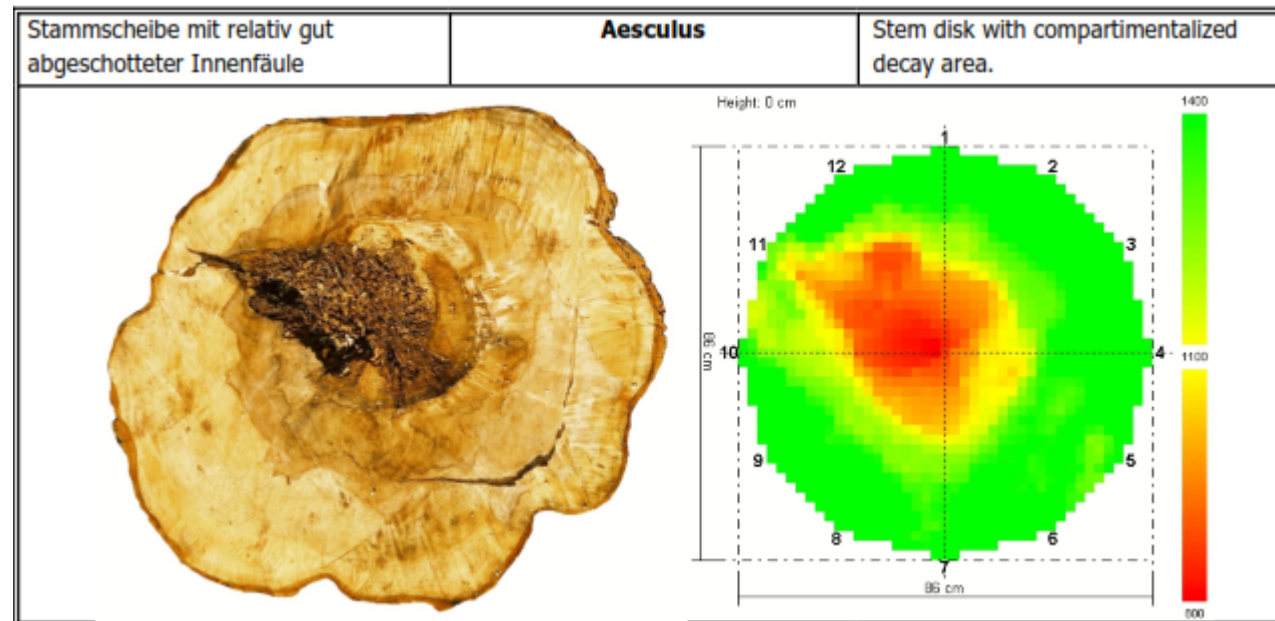
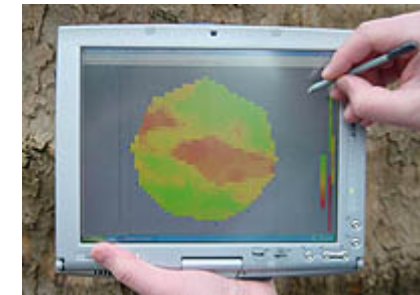
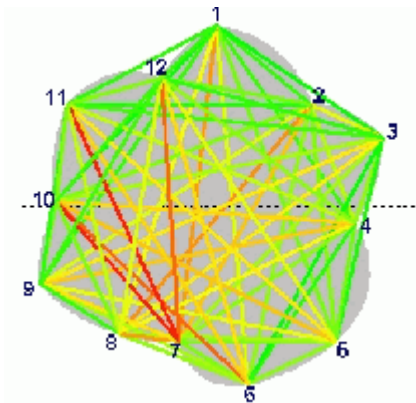
LIGNOSTATION™ is a compact, high-resolution system for preparing wood surfaces and recording the tree ring parameters and the wood density.

Specialist equipment

Laboratory Timber use, quality and processing technologies

(Studentų g., Akademija, Kauno raj.)

ARBOTOM - Impulse-tomograms and images of stem disks from measurements of different users.





Forest Protection and Game Management Department



Impuls Hammer testing



Insects (xylophagous) damage

Specialist equipment

January 2014



Bog Oak technology is based on the natural processes

has the black coloring throughout all the volume of the wood
heightened density up to 12% ,
better durability, and exclusive texture





Specialist equipment

January 2014

	Properties						Environmental				
	Natural Durability	Moisture / Sorption studies	Resistance to mould	Fire resistance / reaction to fire	Insect / termites / pests	Dimensional stability	Life cycle assessments	Whole Life evaluations	Product accreditation	Emission testing	Environmental product declaration
INSTITUTE											
Institute of Forestry, Lithuanian Research Centre for Agriculture and Forestry	+	+	+		+		+				
Kaunas University Of Technology	+	+	+			+			+	+	
Aleksandras Stulginskis University		+	+		+						



Specialist equipment

January 2014

INSTITUTE	Laboratory Tests						Field Tests				
	Natural Durability	Mould resistance	Insect / termites testing	Leaching / weathering	Sorption studies	Dimensional stability	In ground contact tests	Out of ground contact tests	Natural weathering	Surface performance / coatings	Moisture data logging
Institute of Forestry, Lithuanian Research Centre for Agriculture and Forestry	+	+	+		+		+	+	+		
Kaunas University Of Technology	+					+			+	+	
Aleksandras Stulginskis University		+									+