

# Norwegian Institute of Wood Technology - Treteknisk

Wood from forest to market!

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Managing director

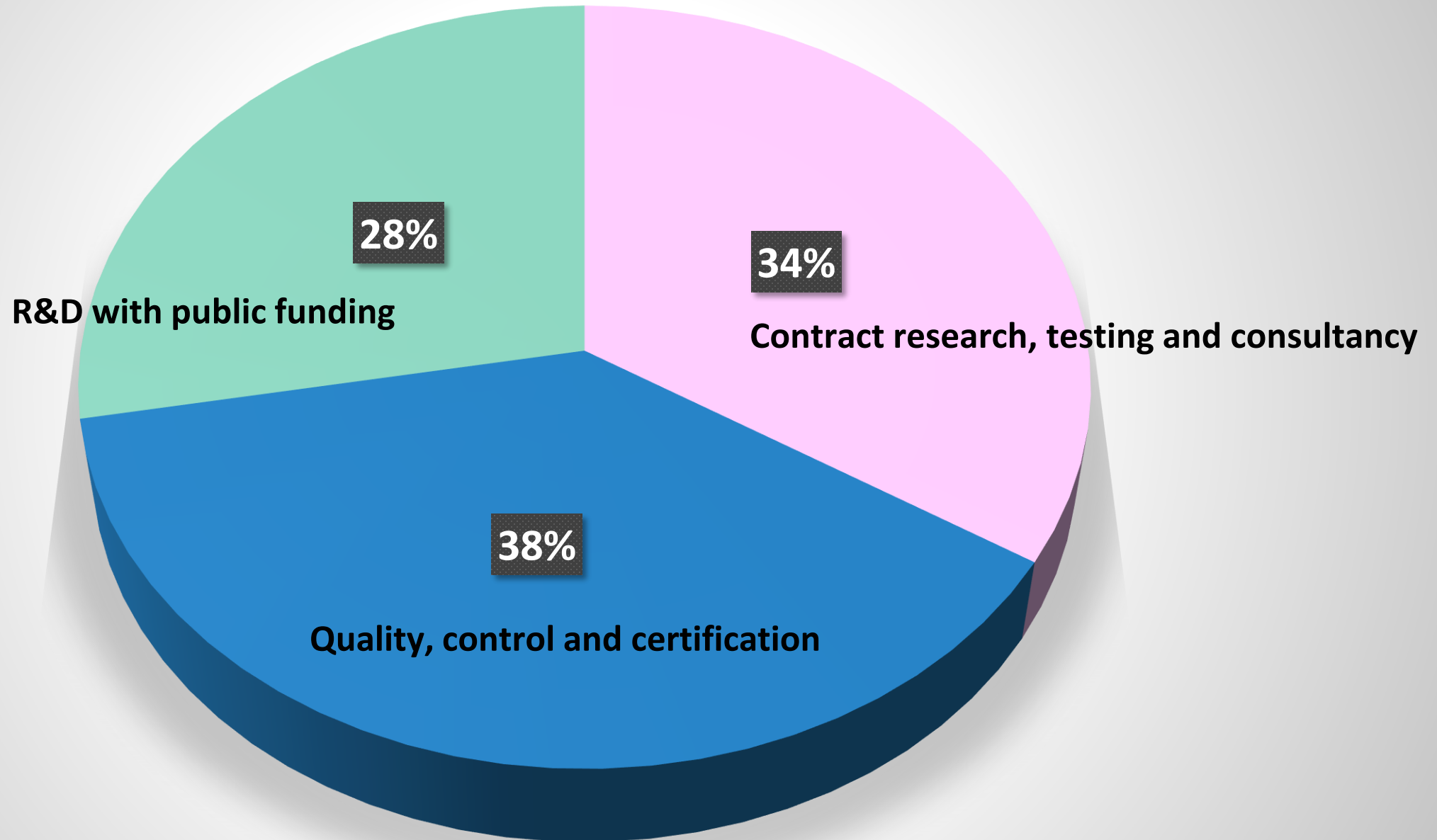


# Norwegian Institute of Wood Technology

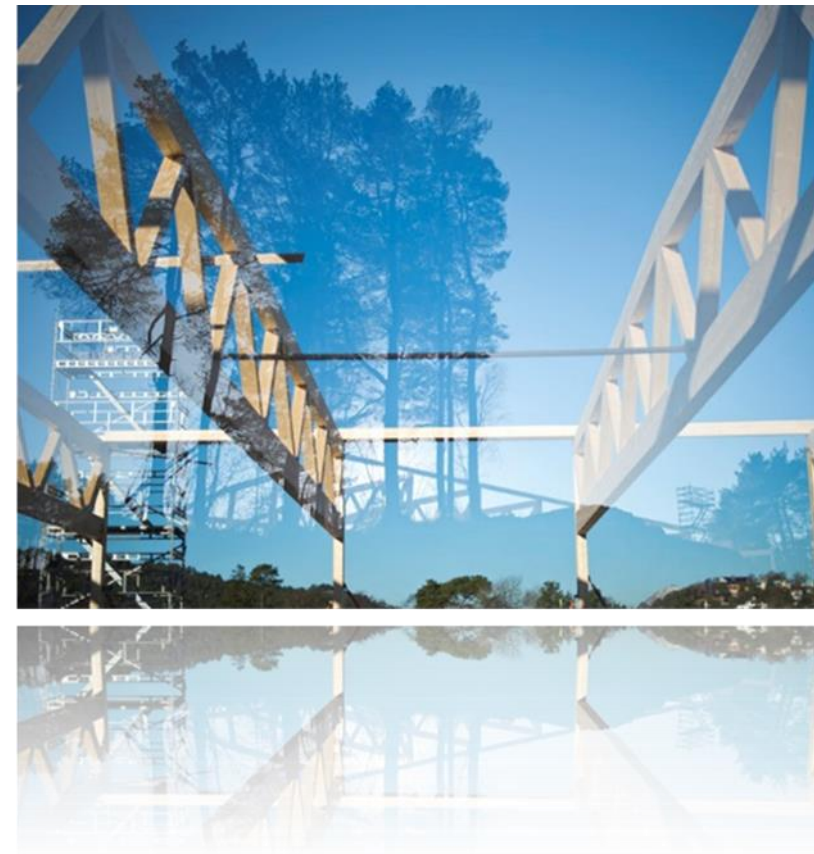
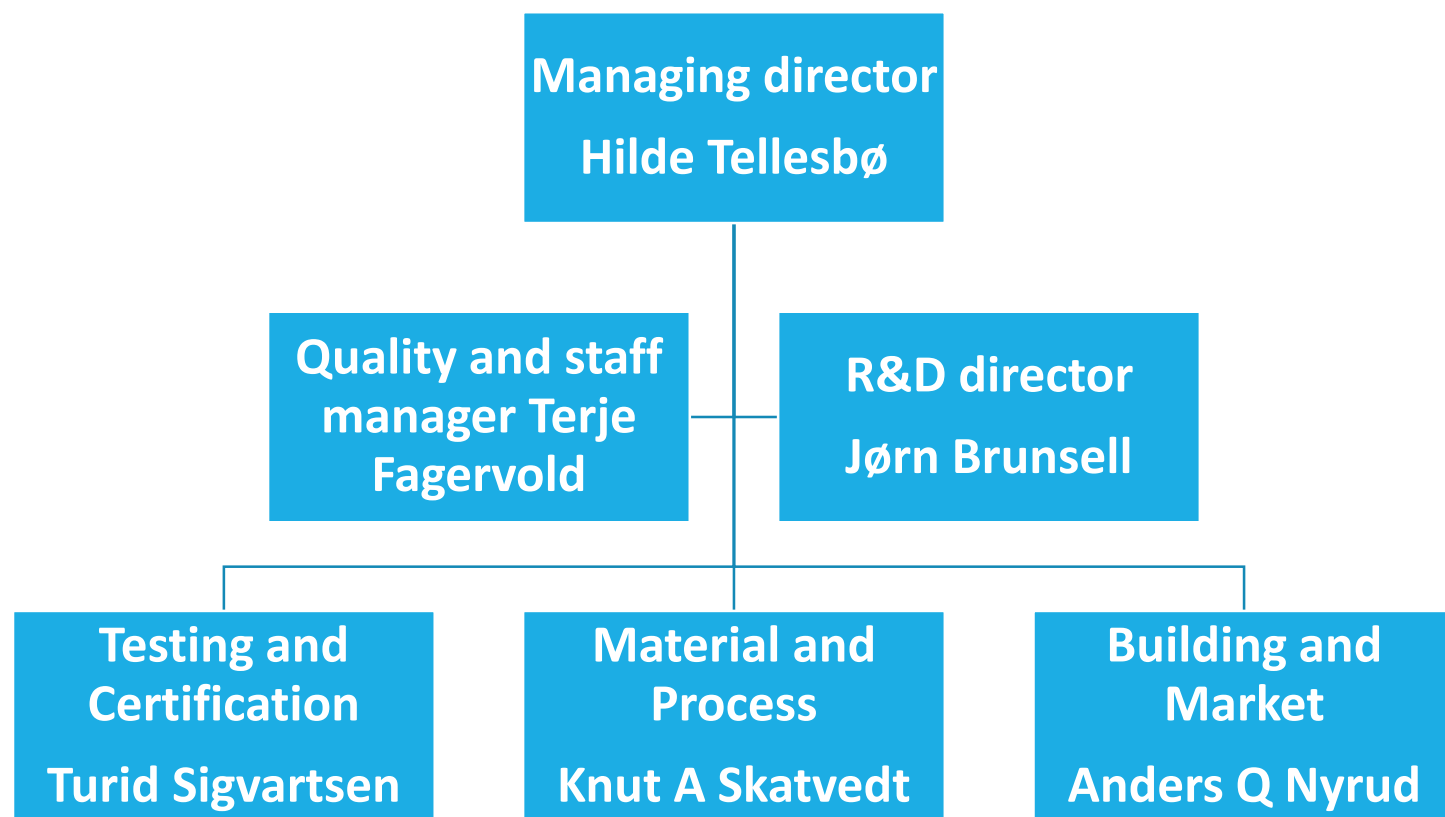
- R&D centre for the Norwegian wood industry
- Private research organization
- Established 1949
- Yearly income app. 45 mill. NOK
- No basic public funding
- 35 employees
- 136 members
  - Wood processing industry (sawmills)
  - Wood preservative industry
  - Coating industry
  - Adhesion industry
  - Suppliers of machines and equipment
  - Consultants



# Income from projects 2015



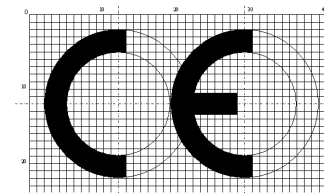
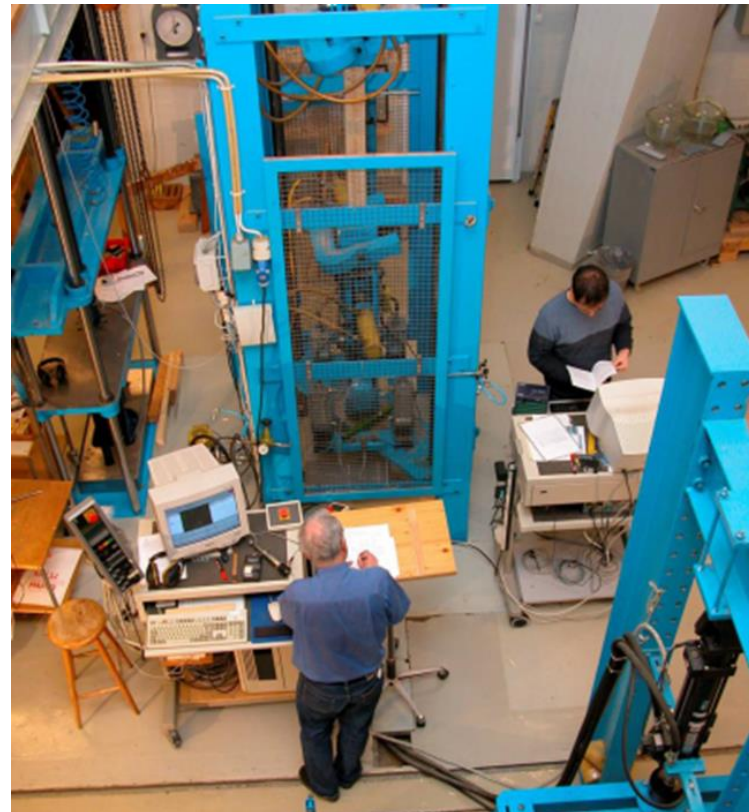
# Treteknisk organisation





# Testing and certification

- Accredited according to NS-EN 17065
- Appointed as notified body for CE-marking:
  - Glued laminated timber, EN 14080
  - Roof trussels, EN 14250
  - Structural timber EN 14081
  - Fingerjointed structural timber
  - Wood based panels EN 14915
  - Wood flooring EN 14342
- Approved as RCO and TTO for JAS-certification
  - Glued laminated timber
  - Structural timber
  - CLT
- TRADA certification UK
- PEFC certification



# National control schemes

- ❑ Strength Grading Inspection
- ❑ Preservative Treated Wood
- ❑ Industrially coated cladding
- ❑ Glued, end-jointed materials for load bearing constructions (Fingerjoints)
- ❑ The Timber Industry's Fire Control
- ❑ Control Scheme for Log Houses



# Building and market

## New solutions

- Innovation – new solutions (construction, market and economy)
- Must be made available, documented and presented
- The consultants consultants







## Logging and documentation

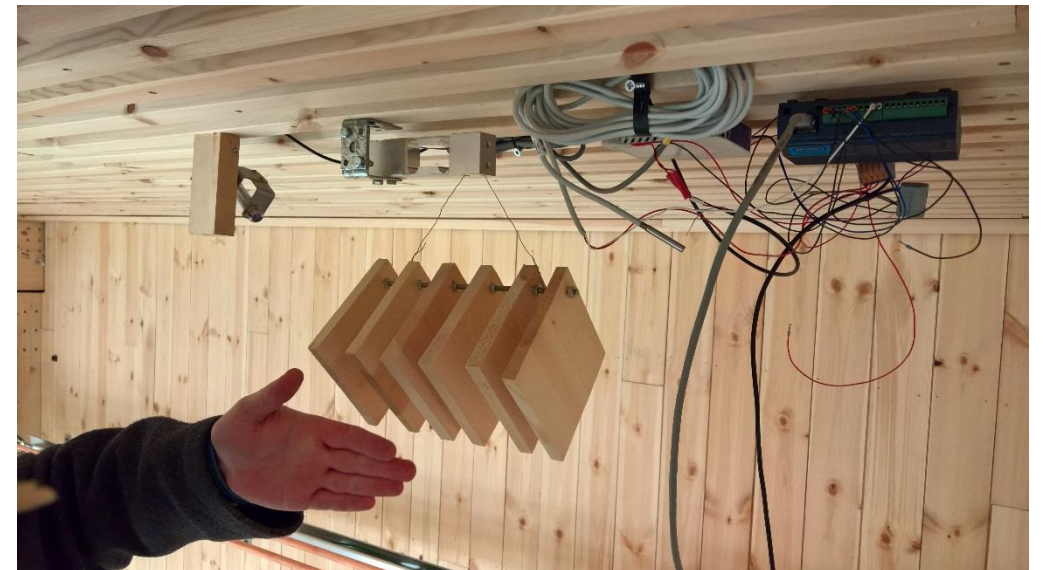
**Energy consumption and air tightness**



**Sound properties in pilot buildings**

**Moisture recording – Hygroscopic moisture**

**Treteknisk box**





# How do use of wood influence peoples well being and health?

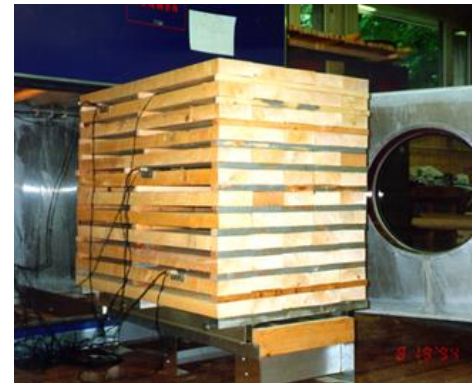
- People do appreciate the use of natural building materials in the indoor environment  
→ Wood is experienced as a natural material
- Natural elements do have positive psychological effects
- Use of wood indoor has probably a stress reduction effect; documented in Norway and Canada



**Treteknisk do research on the connections between energy, moist, emissions and experiences regarding use of wood!**

# Material and Process

- Condition evaluations – material knowledge
- Product development
- Process optimization
  - Wood mechanical production
  - Drying
  - Energy and energy management
  - Sorting
  - Modifications
- Surface treatment, wood production and conservation
- Gluing
- Environment- and product-documentation



Treteknisk has unique material knowledge and production and process knowledge!

# Sustainability

- Environmental documentation – EPD
  - LCA
- PEFC
  - Treteknisk has license to do third part verification of products made from sustainable forest





# Other

- Training courses:
  - Drying
  - Wood technology and sorting
  - Maintenance
  - Wood protection
  - Etc...
  -
- The theory part of certificate of apprenticeship

