Joint Session of the UNECE Timber Committee (TC) and Society of Wood Science and Technology (SWST) International Convention

October 11–14, 2010 • October 15, 2010 Industry Tour *(optional)* organized by SWST
15 October, UNECE Timber Committee and FAO European Forestry Commission Bureaux meeting

“*Innovative Wood Products are the Future*”

Timber Committee Chair - Branko Glavonić, University of Belgrade, Serbia
Society of Wood Science and Technology Chair - Susan E. Anagnost, SUNY College of Environmental Science and Forestry, USA

Session Moderators: Susan E. Anagnost, SUNY College of Environmental Science and Forestry, USA; Ed Pepke, UNECE Trade and Timber Division, Switzerland
Mandate agreed to by the 56 countries of the UNECE region

Joint UNECE/FAO Secretariat

UNECE TIMBER COMMITTEE
Society of Wood Science and Technology
Innovation for structural change recovery

Forest Products

Annual Market Review

2009-2010
Structural Change

Innovation
Problem

Solution
Change driven by at least four factors:

- Downturn in global economy
Change driven by at least four factors:

- Downturn in global economy
- Climate change / wood energy
Change driven by at least four factors:

- Downturn in global economy
- Climate change / wood energy
- Increasing interest in green construction
Change driven by at least four factors:

- Downturn in global economy
- Climate change / wood energy
- Increasing interest in green construction
- International attention to sustainable wood production and legality
Housing Starts in the UNECE Region, 2005-2009

Source: Pepke (2010)

Consumption* of Forest Products in the UNECE Region, 2005-2009

* Consumption measured in roundwood volume equivalents.

Source: UNECE/FAO Timber Database as reported by Pepke (2010)
Change driven by at least four factors:

- Downturn in global economy
- Climate change / wood energy
- Increasing interest in green construction
- International attention to sustainable wood production and legality
Global Production of Fuel Pellets, 2000-2010

Source: Hillring et al. (2008).
Bioenergy
There should be win-win opportunities for establishment of energy crops that promote both economic and environmental stability.
Recognition of HWP in carbon protocols is vitally important!
Green Building
Life Cycle Assessment
**Life Cycle Inventory**

1. **Materials**
   - Forest Management (Regeneration)
   - Raw Material Acquisition (Harvest)
   - Product Manufacturing
   - Building Construction
   - Use/Maintenance
   - Recycle/Waste Management

2. **Energy**
   - Forest Management (Transportation)
   - Use/Maintenance (Transportation)

3. **Water**
   - Forest Management (Transportation)

**Impact Assessment**
- Ecosystem Health
- Human Health
- Resource Depletion
- Social Health

**Initiation**
- Purpose and Scope
- System Boundaries
- Data Categories
- Review Process

**Improvement Assessment**
- Extend product life
- Eval substitute matls
- Enhance use/maint.
- Red. energy consumpt.
- Improve processes
- Imp. waste mgmt.
Forest and Wood Certification
Certification?
Nanotechnology could transform the forest products industry in virtually all aspects – ranging from production of raw materials, to new applications for composite and paper products, to new generations of functional nanoscale lignocellulosics.
Listening, discussion, and informed debate have always been a formula for generation of creative new ideas and identification of common purpose.
Thank You For Your Attention!