MEET THE SPECIALISTS:

Team of Specialists on Forest Sector Outlook

Mart-Jan Schelhaas, Leader (Netherlands)
Jeffrey Prestemon, Vice Leader (United States)
Paolo Camin, Vice Leader (Switzerland)
Three ECE Subregion Outlooks

• European

• Russian

• North American
EUROPEAN
European Forest Sector Outlook Study

• Scenarios still under development
  • Reference cases for global markets may be worked out by North American modeling team
• Policy scenarios to be determined
• Meeting in Brussels in September, 2015, where we defined policy issues
• Resources still need to be finally mobilized, though some have been promised
RUSSIAN FEDERATION
Russian Forest Sector Outlook Study

• Meeting in Moscow in December of 2016
  • Some results of initial reference scenario possibilities provided

• Modeling framework still under consideration
NORTH AMERICAN
North American Forest Sector Outlook Study

• Will be carried out by Prestemon and Prakash Nepal, in consultation with the FSOS ToS and, to the extent possible, Canadian counterparts

• Will model the world, by country, with a focus on the US and Canada

• Five IIASA Shared Socioeconomic Pathways (SSPs) will be modeled

• Planted forests component envisioned; research underway

• Climate change aspects still under development
  • RCP 4.5, 8.5
Representative Concentration Pathways

- Based on GHG radiative forcing
  - 2011 radiative forcing is about 2.3 W/m²
  - 2011 GHG concentration was about 430 ppm of CO₂ equivalent
- RCPs considered in the IPCC 5th Assessment

<table>
<thead>
<tr>
<th>GHG Forcing (W/m²)</th>
<th>GHG Concentration (PPM of CO₂ Equivalent)</th>
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<tbody>
<tr>
<td>2.6</td>
<td>430-480</td>
</tr>
<tr>
<td>4.5</td>
<td>580-720</td>
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<tr>
<td>6.0</td>
<td>720-1000</td>
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<tr>
<td>8.5</td>
<td>&gt; 1000</td>
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<thead>
<tr>
<th>SSP</th>
<th>Mitigation Challenges</th>
<th>Adaptation Challenges</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSP1 – Sustainability</td>
<td>Low</td>
<td>Low</td>
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<tr>
<td>SSP2 – Middle Road</td>
<td>Medium</td>
<td>Medium</td>
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<tr>
<td>SSP3 – Regional Rivalry</td>
<td>High</td>
<td>High</td>
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<tr>
<td>SSP4 – Inequality</td>
<td>Low</td>
<td>High</td>
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<tr>
<td>SSP5 – Fossil Fueled</td>
<td>High</td>
<td>Low</td>
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</tbody>
</table>
World Population

World Population by IIASA SSP, 2010 to 2100
World GDP
Income per capita
Income per capita convergence across countries
North American Forest Sector Outlook Study

• Scenarios Considered (beyond 5 IIASA SSPs)
  
  • Paris Agreement Implications
  
  • Wood Use in Construction
  
  • Increased trade barriers
Q&A

Jeffrey PRESTEMON
USDA Forest Service
09 October 2017, Warsaw