

THE STATUS OF ECOSYSTEM SERVICE ASSESSMENT

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Thus far....

- Respective ES leaders contacted each LCC
 - Goal was to start this interaction
 - Identify what's possible
- Gathered data on ES modelling capacity
 - Regulatory services
 - Biodiversity
 - Cultural services
 - Carbon
 - Biomass
 - Water (in process)
- Draft findings came in last week

Biomass

- Maarten Nieuwenhuis & Eva-Maria Nordström, Ireland & Sweden
- One country missing
- Evaluated DSS capacity to handle assortments
 - Roundwood, sawlogs, pulpwood, firewood, residues, stumps, biomass, etc.
- Most DSS are capable in this regard
 - Planned updates to fill the gaps

Biodiversity

- Adam Felton, Matts Lindbladh, & Miguel Bugalho, Sweden & Portugal
- All countries responded
- Suggested methodology appears feasible
 - Biodiversity goals sourced from federal/regional Gov., ENGOs, FSC
 - Tree species composition, forest structures, etc. available
- But, majority cannot model deadwood
- (Bonus) Potential use of indicator species in some countries

Cultural services

- Marjanke Hoogstra & Geerten Hengeveld, The Netherlands
- One country missing
- The approach is feasible, and readily applied for many criteria
 - E.g. tree species composition, structural diversity, tree size/age
- But, some questions regarding e.g.
 - Landscape scale patterns (distance to...)
 - Aspects involving user values (recreational opportunities)
 - Deadwood
- Variety of pathways available to address different capabilities

Regulatory services

- José Borges, Portugal
- One country missing
- Wildfire, windstorms, pests, snowstorms droughts
 - Likelihood and damages caused by catastrophic events
- Suggested methodology appears feasible across LCCs
 - But, very different DSS capabilities
- Expert knowledge required to determine suitable indicators of disturbance

Carbon

- Kevin Black, Ireland
- Three countries missing
- In general, a very basic capacity among CSAs
 - Primarily rely on above ground biomass
- However, problems with key areas
 - Many CSAs / DSS missing below ground biomass, deadwood
 - Large variety of approaches
 - e.g. different definitions for C pools, system boundaries, temporal resolutions
- Harmonization of approaches suggested (e.g. use Canadian CBM)
 - Most countries open to suggestion, but three yet to answer...

Possible next steps

1. ES leaders & LCCs, discuss key gaps in DSS capacity for prioritized improvement (e.g. deadwood, spatial issues)
 - What would we (ALTERFOR) like to do?
2. Each ES leader / CSL to identify the preferred & feasible modeling approach / output for each ES to be assessed
 - What can we do?
3. Together, aim for overlap (approach, criteria, indicators) where beneficial among ES, and among CSA (harmonization)
 - What will we do?
4. ES leaders have to continue their communications with LCCs

Thanks for listening