Overview

Michael Obersteiner and Géraldine Bocquého
Ecosystems Services and Management Program
Overview

- Ecosystems Services & Management Program (ESM)
- Water Program (WAT)
- Evolution & Ecology Program (EEP)
Research Plan: F&W Research Clusters

- Climate change
- Food, water, and agriculture
- Fisheries
- Ecosystems
- Water
Societal Benefit Areas

- Energy
- Biodiversity
- Climate
- Disasters
- Ecosystem
- Agriculture
- Health
- Water
- Weather

Planetary Boundaries

- Climate change
- Ocean acidification
- Land-use change
- Freshwater use
- Stratospheric ozone depletion
- Photochemical oxidant formation
- Marine and coastal damage
- Human-induced introduction of invasive species
- Eutrophication
- Freshwater depletion
- Nutrient losses
- Agricultural productivity declines
- Global biodiversity changes
- Global climate change

Global Transformation Drivers

Methods of Integrated Modeling

Five ESM Pillars along the new RP

- Ecosystems Functioning
- Bio Technologies
- Economics of Ecosystems Services
- Land Use Systems
- Global Earth Observations
Goals

Goal 1 Avoid “REDD Hot Air”

- **Target1:** Establish a voluntary mechanism between REDD-PAC countries within two years to ensure transparency, coordination and learning for REDD+ assessment.

- A set of tool kits that perform REDD+ impact assessment to be shared internationally and optionally be used domestically for policy planning.
Course of action

Two work packages

- **WP1: Project coordination and strategy**
  =provide management support and build the REDD-PAC assessment strategy
  - WP1.1: Coordination and management
  - WP1.2: Assessment strategy

- **WP2: Global, regional and national REDD+/CBD assessment**
  =quantitative global, regional and national REDD+/CBD assessment
  - WP2.1: Driver and policy definition
  - WP2.2: Modeling
  - WP2.3: Impact assessment
Course of action

**WP1: Project coordination and strategy**

**WP1.1: Coordination and management (IIASA)**

Management team at IIASA: M. Obersteiner, F. Kraxner, G. Bocquého

November 2011

<table>
<thead>
<tr>
<th>WP</th>
<th>Name</th>
<th>Y1</th>
<th>Y2</th>
<th>Y3</th>
<th>Y4</th>
<th>Y</th>
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</thead>
<tbody>
<tr>
<td>WP 1</td>
<td><strong>Project Coordination and Strategy</strong></td>
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<td>WP 1.1</td>
<td><strong>Project Coordination and Management</strong></td>
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<td>T.1.1.1</td>
<td>Day-to-day consortium coordination and project management</td>
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<td>REDD-PAC research school</td>
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Course of action

**WP1: Project coordination and strategy**

**WP1.2: Assessment strategy (IIASA)**

Based on existing tools and identification of gaps

<table>
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<tr>
<th>WP 1.2</th>
<th>Assessment Strategy</th>
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<tbody>
<tr>
<td>T.1.2.1</td>
<td>Fast-track development of assessment strategy</td>
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<tr>
<td>D.1.2.1</td>
<td>Assessment strategy report</td>
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<tr>
<td>T.1.2.2</td>
<td>Strategy review and evaluation</td>
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<tr>
<td>D.1.2.2</td>
<td>Overall assessment strategy evaluation report</td>
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</table>

Diagram showing timeline for WP1.2 with Y1, Y2, Y3, Y4, and Y indicating year segments Q1 to Q4 for each year.
Course of action

WP2: Global, regional and national REDD+/CBD assessment

WP2.1: Driver and policy definition (partners)

Operational crowd-sourcing platforms for relevant spatial data
Baseline and policy scenarios
Course of action

**WP2: Global, regional and national REDD+/CBD assessment**

**WP2.2: Modeling (IIASA)**

Preparation of input data, model development, and documentation

<table>
<thead>
<tr>
<th>WP 2.2</th>
<th>REDD+/CBD Modeling</th>
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<tbody>
<tr>
<td>T.2.2.1</td>
<td>Preparation of input data, coding, interfaces</td>
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<tr>
<td>D.2.2.1</td>
<td>Launch of integrated model cluster</td>
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<tr>
<td>T.2.2.2</td>
<td>Operational modelling</td>
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<td>D.2.2.2</td>
<td>Technical description of model cluster</td>
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![Timeline diagram showing quarterly milestones from Q1 to Q4 across years Y1 to Y4.](chart.png)
Course of action

WP2: Global, regional and national REDD+/CBD assessment

WP2.3: Impact assessment (partners)

Impact of policy scenarios and policy-relevant conclusions

<table>
<thead>
<tr>
<th>WP 2.3</th>
<th>Impact Assessment of REDD+/CBD Policies</th>
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<td>T.2.3.1</td>
<td>Impact assessment of REDD+/CBD policy options</td>
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<tr>
<td>D.2.3.1</td>
<td>Impact assessment report of REDD+/CBD policies</td>
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<td>T.2.3.2</td>
<td>Recommendations for institutional framework building</td>
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<td>D.2.3.2</td>
<td>Policy paper on institutional requirements</td>
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Deliverables

11 deliverables, the three first ones were initially due to be submitted by the end of the 1st quarter of the 1st year (August)

- Assessment strategy report (WP1.2)
- Model-ready driver data description and policy portfolio (WP2.1)
- Integrated model cluster (WP2.2)
Thank you for your attention

Questions...