EEA comments on the discussion paper UNCEEA/5/9

"Integrating the Economic and the Ecosystem Approaches to the Environment in the Revised SEEA"

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The EEA supports the overall approach

- Proposal in line with EEA's orientation, responsibility within ESEA, position taken regarding Beyond GDP and the Stiglitz report...
- In line with the discussions of the Joint Seminar EEA/Management Board and Eurostat/DIMESA, Luxembourg, Nov. 24, 2009
- Ecosystem impacts as well as feedbacks at the economic and social well-being are still the missing link in the SEEA revision



The ecosystem issue

- Ecosystems are part of the current systemic crisis: short term benefits at the expenses of long term investment, unaccounted costs, un-assessed or concealed risks, forwarding of negative impacts to others – to present or/and future generations (incomplete prices of commodities, ecological debts)...
- The economy recognizes ecosystems only as <u>a collection of</u> (economic) resources, as free externalities and sometimes as unwanted costs (e.g. the Deepwater platform).
- Risks of misleading environmental-economic decisions when resources/services are taken one by one: e.g. from REDD to REDD+ and even ++ (to avoid "biological leakage"); e.g. new debates on biofuels in Europe (possible threats to biodiversity, soil conservation and food security).





The basic questions



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Policies should embrace altogether resource use and capital maintenance: man-made as well as ecosystem



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Ecosystem Asset Account Bio-C balance	Accounts & indexes : e.g.
 Opening stocks by ecosystem types Formation of bio-C (Net Ecosystem Production) 	Sector Accounts (MFA, Supply & Use, IOT, Hybrid, Expenditures)
 Withdrawals by activities Net transfers between ecosystems Returns from activities Imports/Exports Storage in the user system Consumption/combustion of bio-C 	 Withdrawal of bio-C Input-Output between sectors Returns of bio-C Imports/Exports Storage in the user system Consumption/combustion of bio-C
 Changes due to natural & multiple causes Change in situ bio-C storage Final stocks by ecosystem types 	Consumption of C / Emissions of CO ₂ CH ₄ Consumption/combustion of bio-C Combustion of fossil fuel CO₂/CH₄ emissions
 Ecosystem C-Productivity/Health Counts NPP trends NDVI perturbation by activities NDVI perturbation by hazards NDVI perturbation by climate change 	Carbon Offset Expenditures Carbon Offset Expenditures Carbon Offset Expenditures Carbon Offset Expenditures Vartual subsidies Virtual or Embedded C permits Virtual or Embedded C in Import-Export Virtual or Embedded C by products
 Landscape ecological potential Water availability (quantity*quality) Biodiversity 	European Environment Agency

Fast track implementation of ecosystem accounts in Europe by 2011/12

- Dual accounts of Ecosystems (EEA) and Economy (Eurostat)
- · Physical accounts firstly although exploration of sustainable benefits accounting
- 4 priority areas: Carbon [C], Land [L], Water [W] & Biodiversity [B] + embedded flows in international trade
- Deadline 2011/12 with intermediate delivery by Sept. 2010 (Post-Copenhagen, Biodiversity Year, CBD COP10), then Rio+20





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Make it happen

- 50% of the SEEA is not really the SEEA... there is a need to move...
- Coarse holistic ecosystem accounts are acceptable to start, relevance matters more than accuracy:
 - Key selected resources/ services: balanced quantitative accounts
 - Ecosystem health/state accounts based on weighted indexes, continuous ex post recording of degradation
- Make full use of existing information systems
 - Statistics... (agriculture, forestry, fishery, population, national accounts...)
 - Earth observation systems, satellite and in situ monitoring (GEOSS)
- Start top-down:
 - Priority to macro assessments, physical and monetary accounts
 - Extension of the macro framework on the basis of experiences in voluntary countries.
- Make distinction between:
 - Components, resources, which are additive one by one and can be addressed bottom up →
 possible addition of individual statistics, monitoring data...
 - Systems which are only partly additive, partly non-additive (combinations, interactions...), and in addition which are very complex... → diagnosis based on observable symptoms, top down approach as the starting point, enhanced with sampling.



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Issues for implementing ecosystem accounts

- Make a clear distinction between:
 - An interim accounting standard based on existing (although imperfect) data and knowledge and
 - Longer term research on ecological processes, ecological economics and data improvement
- Mobilize data and knowledge holders in international organisations, government agencies, NGOs, science...
- Possibility to agree on a very small set of priorities
- Manage the scale issues, interactions between global, national and local approaches
- Define clear articulations within SEEA and between SEEA (incl. ecosystems) and SNA, IPCC, future IPBES, MA, TEEB, EF...

