

# WG Ecosystem Change

Rob Jongman, Alterra Wageningen UR,  
rob.jongman@wur.nl

# Members of the WG

- Michael Keller, NEON, USA,
- Roger Sayre USGS, USA,
- Doug Muchoney USGS, USA,
- Christopher Anderson, LTER Chile
- Heitor Coutinho, Embrapa Solos, Brazil,
- Delphine Takem, Transformation Reef, Cameroon.
- Jane Bemigisha, World Conservation Society, Uganda,
- Melanie Luck-Vogel, CSIR, South Africa
- Bob Bunce Alterra, Wageningen UR, the Netherlands,
- Marc Metzger, University of Edinburgh, UK,
- Philip Roche, CEMAGREF,
- Li Xiuzhen, East China Normal University,
- Sun Kee Hong, Island University, South Korea,
- B.R. Ramesh, French Institute Pondicherry, India,
- Richard Hobbs, University of western Australia,

# The process

- Draft paper with ideas
- Enquiry on the draft and request for additional items sent to the members
- Responses from Africa, Asia and Europe
- Integrated in the final draft
- Sent to the members
- Renewed reaction received, to be integrated

<http://www.ebone.wur.nl>

# Relevant aspects

- Harmonisation of monitoring change systems and data quality.
- Ecosystem extent and ecosystem classification at global, continental, regional and local scales.
- Common approaches for field monitoring
- Identification of the most desirable imagery and its associated resolution, frequency, and accuracy
- Barriers and opportunities to exchange data: Intellectual Property Rights, confidentiality and data ownership.
- Upscaling and downscaling between national, continental and global reporting.

# Activities

- Harmonisation of LTER systems on monitoring change in ecosystem functioning.
- Global Ecosystem classification as integration tool (with GEO EC-06-01)
- Common approaches for field monitoring
  - Harmonisation of definitions
  - Common denominators for data
- Identification of best EO-imagery
- Property rights, confidentiality and data ownership

<http://www.ebone.wur.nl>

# Who can do this job

- For every task potential parties have been indicated
- Most tasks require global coverage (all continents)
- Parties can be agencies, research groups and NGO's
- Asilomar meeting can help

# Coordination

- Coordination is needed with all WG's
- Especially needed with WG2, WG6, WG7 and WG8

# Finances and time scale

- Global ecosystem classification is already in progress within the EBONE project.
- LTER Systems on monitoring change in ecosystem functioning depends on ILTER, LTER Europe and NEON. Costs and time to be identified by ILTER and NEON coordinators.
- Ecosystem extent and comparability through ecosystem classification at global, continental, regional and local scales. Costs will be the organisation of a global working group with representatives from different continents. The action will take at least 2-3 years.
- Common approaches for field monitoring This will require s global working group of experts in the field from all continents and major global organisations. Time is 3-4 years and includes field testing
- The role of Intellectual Property Rights, confidentiality and data ownership is an action that requires identification of the major data owners and the legislation, rules and guidelines To be done for both earth observation and field based data. This will take at least 3-4 years by an international group with experts in the field from all continents