

GFOI R&D Expert Workshop on Sensor interoperability and sensor complementarity

Workshop objectives

Ake Rosenqvist

R&D coordination support to the GFOI Office



GFOI R&D component

- The GFOI R&D component aims at improving remote sensing data inputs and derived forest information products to help enhance the functionality and accuracy of National Forest Monitoring Systems (NFMS).
- May serve UNFCCC greenhouse gas emissions reporting requirements, *as well as* supporting broader environmental monitoring needs.
- The R&D component incorporates R&D needs identified by
 - countries involved in GFOI
 - key GFOI partners such as the FAO and the World Bank,
 - research bodies supporting the further development of global forest monitoring programs.
- It covers focused R&D actions addressing *immediate needs* for NFMS, rather than more long-term, basic research activities in the forest monitoring domain.

- GFOI R&D Plan is under development – target: Late 2014
- No dedicated GFOI budget for R&D
- “Landscaping Study” ongoing on current science teams and projects that can address GFOI needs, levels of funding and identification of potential donors that would have interest to support key development.
- To kick-start R&D activities with limited means, a series of Expert workshops planned during 2014/2015 to capitalise and catalyse already ongoing research.

Series of workshops during 2014/2015 focused on selected Priority R&D Topics. Involving small number of key experts on the topics in question.

Objectives:

- Assessment of existing approaches and current state of the art for the topic in question;
- Identification of obstacles to operational (widespread) use;
- Development of action plan to progress development;
- Input/recommendations to CEOS space agencies (SDCG strategy for R&D)

- Expert workshop 1 – **Sensor interoperability/ complementarity**
Woods Hole, MA/USA, June 10-11 2014
- Expert workshop 2 – **Forest degradation**
Wageningen, Holland, Oct. 1-3, 2014
- Expert workshop 3 – **Above-ground biomass**
Brisbane, Australia, Feb. 2015
- GFOI Science Summit – Open meeting on key R&D issues
Venue TBD. Q3 2015

Sensor interoperability & complementarity

Workshop objectives

- Assessment of existing approaches to sensor interoperability/complementarity (for forestry);
- Identification of obstacles to operational (widespread) use;
- Development of action plan to progress development;
- Input and recommendations to CEOS space agencies

Terminology (used here)

Sensor Interoperability

*"Obtaining the **same** thematic results from **different** sensors"*

Sensor Complementarity

*"Obtaining **additional** thematic information through the (synergetic) use of **two or more different** sensors"*