

Annex 3: Plenary presentations and statements (Monday 3 March)

Annex 3.1: Opening remarks

Mr Jan Heino

Assistant Director-General
Forestry Department

Mr Chair, Excellencies, Distinguished Permanent Representatives to the FAO, Dear participants, colleagues, Good morning!

It is my pleasure and privilege to welcome you all to FAO and to this Technical Meeting of the National Correspondents to the Global Forest Resources Assessment 2010. I am very pleased to see so many familiar faces, but above all to see so many new ones. I hope to be able to talk with many of you during the week ahead of us.

No doubt, all of us in this meeting have high expectations of the world's forests. For us forests are important for a number of reasons. They are to provide raw materials and energy, maintain biological diversity, mitigate climate change, protect land and water resources, provide recreational facilities, improve air quality and help alleviate poverty.

At the same time, forests are affected by fire, air pollution, pest and invasive species – and are the primary targets in many countries for agricultural and urban expansion. Competing interests in the benefits offered by forest resources and forest lands are omnipresent and the need for a sound basis for analysis and conflict resolution has never been greater.

This requires on-going monitoring and assessment of trends that can measure progress in protecting, conserving and using forest resources in a wise and sustainable manner. FAO's Member Countries have entrusted the Forestry Department with the organization and promotion of this important task.

This year FAO celebrates the 60th anniversary of the publication of the results of its first Global Forest Resources Assessment – the Forest Resources of the World. This survey, which was started in 1946, was based on a questionnaire sent to all countries of which 101 responded, representing 66 percent of the world's forests.

As stated in the report, “a comprehensive inventory of the world's forests requires a truly international approach, entailing international acceptance of definitions as well as concerted and sustained efforts to encourage completion of adequate surveys of those forested areas for which reliable data are lacking.” I think we can all subscribe to these words today, 60 years later.

The Global Forest Resources Assessment 2010 - or FRA 2010 as we call it - will be the most comprehensive and reliable assessment yet. Most comprehensive because it will cover 235 countries and territories and will provide the basis for reporting on progress towards:

1. The Millennium Development Goals;
2. The Convention of Biological Diversity's target of achieving a “*significant reduction of the current rate of biodiversity loss at the global, regional and national level*” by 2010;

3. The Global Objectives on Forests of the Non-legally Binding Instrument on forests recently adopted by members of the United Nations Forum on Forests; and
4. The International Tropical Timber Organizations' Objective 2000.

It will also help countries report on land use and land use change for the United Nations Framework Convention on Climate Change and the Kyoto Protocol.

It will be the most reliable assessment ever, thanks to advances in technology and expanding global communications and to stronger support from countries and forest-related organizations. Within FAO, FRA 2010 will indeed be a cross-divisional and cross-departmental effort.

One of the innovative components of FRA 2010 is a new and ambitious global remote sensing survey which takes advantage of the latest technologies to provide better information on global forest change and the land uses that are replacing forests. You will hear more about this later today and on Thursday.

The support offered to FAO for FRA 2010 has been overwhelming.

One hundred and seventy five countries have responded to our request to nominate a National Correspondent to FRA 2010. I am very pleased to note that most of you, the National Correspondents, are here today. We have more than 220 registered participants from 165 countries and over 10 major forest-related organizations. This provides the FRA process with very strong links to countries and their national efforts to assess and monitor their forests and other wooded land.

We are all very much aware that the requests for information keep increasing. FAO is making strong efforts to help harmonize forest-related reporting with other organizations to avoid duplication of efforts and to reduce the reporting burden on countries. You will hear more about these efforts later today and during the rest of the week. However, we are also fully aware that the task laying ahead for the National Correspondents is not an easy one and we very, very much appreciate the substantial efforts and contributions made by each and everyone of you.

We recently completed a joint meeting of two of the FAO Regional Forestry Commissions: the Near East Forestry Commission and the African Forest and Wildlife Commission. One of the conclusions of this meeting was the following, and I quote:

“The Commissions agreed to provide their national correspondents to FRA 2010 and their teams with the support they needed to prepare the country reports and to participate in the remote sensing survey and any special studies that may cover their countries.”

I am sure the National Correspondents from these two regions are pleased to learn this. I hope we will receive similar commitments from the Heads of Forestry at the meetings of the remaining Regional Forestry Commissions this year. We, at FAO stand ready to provide any technical assistance needed to fulfil your important tasks.

I would also like to extend our gratitude to the large number of forest-related organizations who have helped shape FRA 2010 and who will either help FAO implement FRA 2010, provide complementary data through their own efforts or help further disseminate the knowledge generated through this process. In this respect, allow me to give recognition to the Expert Consultation held in Kotka, Finland in June 2006, to the many bilateral consultations and to the FRA Advisory group. The FRA process is a truly international partnership of individuals, countries and

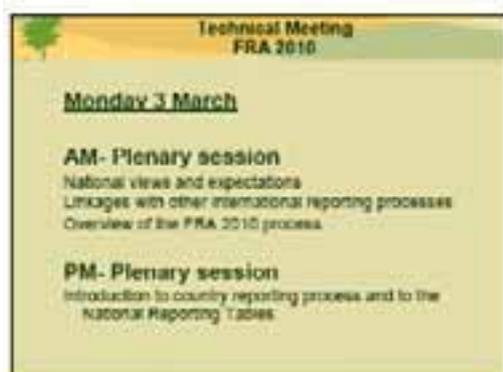
organizations. We express our gratitude to all of those participating in and contributing to this effort.

Last, but certainly not least, I would like to thank for the extra-budgetary funding provided to help carry out FRA 2010. Special thanks go to Australia, Finland, NASA, EU, GEF, the German Aerospace Centre and ITTO. We hope that even more partners and donors will join this process.

Colleagues, you have a challenging programme in front of you this week and over the next couple of years. However, I am personally convinced that given the strong support and the excellent collaboration which is already evident, FRA 2010 will be the best assessment ever.

Thank you.

Annex 3.2: Objective of the meeting and Agenda



Technical Meeting
FRA 2010

Wednesday 5 March

AM- Working groups
National Reporting Tables

PM- Free time (for most participants)
Compilation and analysis of working group reports

Technical Meeting
FRA 2010

Thursday 6 March

AM- Plenary session
Outcomes of the working groups
The FRA 2010 Remote Sensing Survey
Support to National Forest Assessments
XIII World Forestry Congress

PM- Working groups
Regional work planning

Technical Meeting
FRA 2010

Friday 7 March

AM- Plenary session
Short presentation on the outcomes of the Working groups

Potential special studies related to FRA 2010
Closing of the meeting

Annex 3.3: Statement from ITTO



Executive Director, ITTO Technical Meeting of the National Correspondents to the Global Forest Resources Assessment 2010

Mr. Jan Heino, FAO colleagues, ladies and gentlemen,

First of all, I very much regret not being able to present this statement in person to such an important meeting due to ITTO's heavy workload. ITTO will be represented at this meeting later in the week but I sincerely apologize for not being present for the opening session. I appreciate the kind offer of our friends in the FAO Forestry Department to have a brief written statement read on my behalf during the opening session of your meeting.

ITTO appreciates as much as anyone the huge amount of work that goes into the FRA and the importance to the global forest community of such a vital database on all types of forests. We have been users of the FRAs since ITTO came into existence in the late 1980s, and have been more closely involved in the process during the past decade as members of the FRA advisory group and (in a modest manner) as co-sponsors of some FRA related activities such as these meetings of national correspondents. We are pleased once again to be providing a small contribution to an FRA correspondents' meeting and hope that ITTO can further increase its involvement in the FRA 2010 process over the next few years.

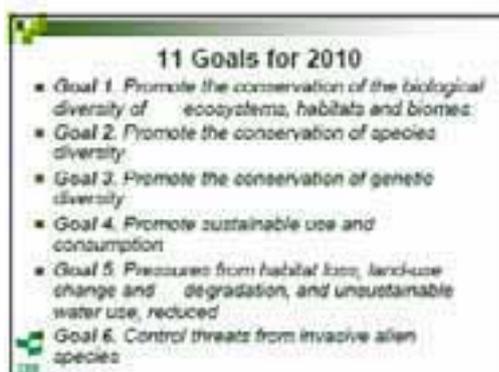
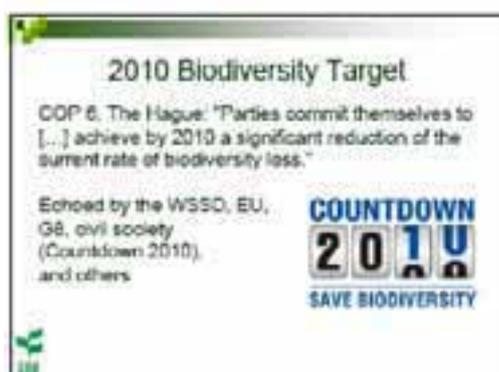
The assessment of forests and forest management is a key issue in the global arena today. Fora like CBD, UNFCCC, UNFF (not to mention national governments and our own organizations) are all clamoring for better, more comprehensive information on forests to help them meet their assorted mandates. The international community has been seeking a key, core set of forestry information for assessing forests and their management for almost as long as ITTO has existed. The evolving FRA is helping to meet these and other international forest information needs.

ITTO recently became familiar with the difficulties and costs involved in carrying out large-scale forest surveys, having assessed the status of tropical forest management in 2005. We are pleased to see that the proposals for the data tables for FRA 2010 include criteria and aspects for assessing SFM used in the ITTO study which should allow for greater synergies. ITTO has been asked to carry out a second such assessment for 2010 and preliminary funds have been pledged for this in our 2008-2009 Work Programme. We believe that the most effective way to carry out this work is in close collaboration with FAO and the FRA, and we will be consulting closely with our colleagues in the Forestry Department and interested participants at this meeting to further develop areas for collaboration.

ITTO and the FAO Forestry Department have developed an excellent collaborative relationship in recent years with a range of partnerships and cooperative activities that is too long to list here. A key factor in the establishment of this relationship has been the trust and goodwill that have built up at all levels of both Organizations. ITTO is extremely grateful to all of our colleagues in FAO for facilitating this, and to Mr. Jan Heino for actively promoting such collaboration.

Thank you again for the opportunity to address this important meeting. I wish you every success over the next week.

Annex 3.4: The 2010 Biodiversity Target: CBD Indicators and FRA 2010



2010 Headline Indicators related to forests

- Trends in extent of selected biomes, ecosystems, and habitats
- Trends in abundance and distribution of selected species
- Coverage of protected areas
- Change in status of threatened species
- Area of forest, agricultural and aquaculture ecosystems under sustainable management
- Ecological footprint and related concepts



2010 Headline Indicators related to forests (contd.)

- Trends in invasive alien species
- Connectivity / fragmentation of ecosystems
- Incidence of human-induced ecosystem failure
- Health and well-being of communities who depend directly on local ecosystem goods and services
- Biodiversity for food and medicine
- Indicator of the status of indigenous and traditional knowledge
- importance of working with ILCs and UNWPs



FRA 2010, including the global remote sensing survey, will be the main data source for the 2010 target with regard to forest ecosystems



The CBD National Reporting Process

3rd National Report: 15 May 2005, 137 received

4th National Report: March 30, 2009
Format: Narrative (with graphics, figures, tables, boxes and pictures)

Broad stakeholder participation at national level in development of national report.



Further information

www.cbd.int

R.B.I.

List of CBD National Focal Points

Area: 3rd National Report (covering data on forest biodiversity)

<CBD Decisions, e.g. Programme of Work on Forest Biodiversity and Programmes of Work on Protected Areas

-Publications: cross-sectional tool-kit for forest biodiversity; Rio Convention how to forest, etc.



Thank you. Gracias. Merci.



Annex 3.5: Reporting requirements of the LULUCF Sector under the UNFCCC and Kyoto Protocol

Reporting requirements of the LULUCF Sector under the UNFCCC and Kyoto Protocol

U.S. DEPARTMENT OF ENERGY
BUREAU OF ENERGY EFFICIENCY AND ENERGY DELIVERY

Global Climate Reporting Requirements (2003) Annex 3.5 Kyoto Protocol

Inventories under the UNFCCC

- Reported annually since 1997
- COP9 (2003) + Decision 13/CP.9
 - CRF for reporting the LULUCF sector
 - Annex 1 Parties should use the CRF (CRF) for LULUCF for preparing inventories under the UNFCCC, in 2005 and beyond
- At SBSTA 21 (Nov 2005), based on experiences on use of the CRF tables, tables reviewed
- Decision 14/CP.21 = revised LULUCF tables for inventory submissions due in and after 2007

Reporting Requirements – CRF for LULUCF

SECTOR 5

5A LULUCF, 5B C-LULUCF, 5C G-LULUCF, 5D N-LULUCF, 5E LULUCF, 5F G-LULUCF

5A-5C, 5D, 5E, 5F, 5G

Requirements for LULUCF sector - NIR

- Chapter 7 LULUCF (CRF Sector 5)
- Description of land-use definitions, land-use classification, methods, activity data and parameters used (transparency)
- Additional information on disaggregation of subdivisions
- Information on incomplete reporting, gaps, other irregularities (completeness, comparability)
- Reporting has links to Agriculture sector
- Information on land-double counting and omissions between the two sectors avoided
- Information on improvements planned

Reporting Requirements – Forest Land

- Increase national definitions of forest land and sub-categories in NIR
- Land converted to forest land: Report initial conversion status for 20 years. After 20 years, land years reported as forest land (excluding forest land)
- Non-CO₂ gases (N₂O, CH₄) reported for forest fertilization, forest fires and drainage of forest soils
- CO₂ emissions from logging on forest land (total amount extracted and/or otherwise applied (Fig 9.1))
- CO₂ emissions from forest fires can be reported either as C stock changes or emissions. Fires divided as controlled burning and wildfires
- Direct N₂O emissions from fertilizer applied to forest. If cannot report separately, all N₂O emissions from fertilization reported in agriculture sector

Reporting Requirements – Forest Land

- If estimates for land converted to forest land are provided as a total, then information on types of land conversion need to be divided
- Increases and decreases in C stocks in living biomass should be reported separately, except due to method, not possible to separate these
- Methodology and definitions should be the same throughout time series
- Trend of increment in forest growing stock, area information should be explained in NIR

Reporting Requirements – Cropland

- Pools to report as C stock changes: SOC and living biomass (terrestrial woody biomass). DOM not required for cropland remaining cropland
- CO₂ emissions from liming
- N₂O emissions from disturbance due to land converted to cropland
- Non-CO₂ emissions from biomass burning on land converted to cropland
- Biomass burning (field burning of Agriculture residues) on cropland remaining cropland reported in Agriculture sector.

Reporting Requirements – Grassland

- Pools to report as C stock changes: SOC and living biomass. DOM not required for grassland remaining grassland
- CO₂ emissions from liming
- CO₂ and non-CO₂ emissions from burning of grasslands outside the tropics
- CO₂ and non-CO₂ emissions from burning on land converted to grasslands.

Reporting Requirements – Cropland and Grassland

- Methodologies, AD and parameters under development for many countries
- If emissions or removals are significant, development of area specific activity data on management activities and land-use changes important for more accurate estimates
- Methodologies for mineral soils need data for period of 20 years or more.

Reporting LULUCF activities under the Kyoto Protocol

- Report emissions and removals of CO₂ and other GHG resulting from:
 - Article 3.2 activities – Afforestation, Reforestation and Deforestation
 - Article 3.4 activities – Forest management, Grazing land management and RevegetationDefectors of these activities to areas to declare LULUCF
- Information reported is supplementary to that reported under the Convention
- Parties to report annually during the commitment period. But annual reporting does not imply need for annual measurements

Reporting LULUCF activities under the Kyoto Protocol

- Decision 15/CP.10 adopted a set of CRF tables for reporting of LULUCF activities under Articles 3.2 and 3.4
- Parties submitted on voluntary basis this supplementary information (15 April 2007)
- Based on experiences of use, these CRF tables reviewed at SBSTA 27.

Reporting LULUCF activities under the Kyoto Protocol

- Supplementary information required:
- General information – definitions, description of base definitions such as national communication and sectoral consistency
 - Land-related information – clearly lands subject to 3.2 and 3.4 activities since 1990, spatial assessment and use, maps/databases to identify geographical locations
 - Activity specific information – methodologies used, uncertainty estimates, size of area of activity
 - Other information – key category analysis
 - Information related to Article 6 (Joint Implementation)

Reporting LULUCF activities under the Kyoto Protocol

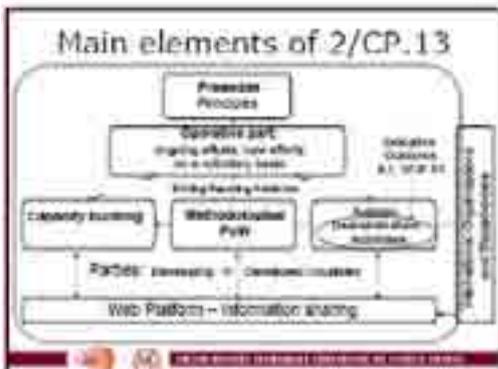
(3 bullet of the CBM for LULUCF under the Kyoto Protocol)

- Report on C stock changes in A&B, B&G, etc.; that would not affect MRD
- Report on C stock changes in other parts for each of the selected A&B&G 3.1 activity
- H-D emissions from E for biomass (A/R, F&L, harvest of organic/ mineral soils (F&L), disturbance associated with land use conversion to cropland)
- C activities from land application (at 3.1 and selected 3.2 activities)
- GHG emissions from biomass burning

RED: ... beyond Bali

Timeline of RED negotiations:

- 2005: Bali Action Plan (BAP) - including a process of 3 steps leading into a draft T remaining back at COP 13
- 2006: Bali Action Plan (BAP) - including a process of 3 steps leading into a draft T remaining back at COP 13
- 2007: Marrakech Accords (MA) - including a process of 3 steps leading into a draft T remaining back at COP 13
- 2008: Marrakech Accords (MA) - including a process of 3 steps leading into a draft T remaining back at COP 13
- 2009: 2/CP.13, 1/P.13 - including a process of 3 steps leading into a draft T remaining back at COP 13
- 2010: Marrakech Accords (MA) - including a process of 3 steps leading into a draft T remaining back at COP 13



Methodological Programme of Work

REDD

Submission by 21 March 2006, Parties views on methodological issues, inter alia:

- assessments of options to forest cover and associated carbon stocks and greenhouse gas emissions
- measures to manage due to sustainable management of the forest
- monitoring of reduction in emissions from deforestation, including reference emissions levels
- adaptation and measurement of reduction in emissions from forest degradation
- monitoring of national and operational operational involving development of systems
- criteria for assessing the effectiveness of actions, and criteria for evaluating errors

workshop on methodological issues after SBSTA2

Indicative guidance for demonstration activities (1/CP.13)

Indicators or systems of measures should be readily based, demonstrative, transparent, and verifiable, and validated consistently over time.

Use of the methodology described in MRD Good Practice Guidelines and the Inventory Reporting Guidelines for Non-Annex I is encouraged as a basis for assessing and verifying activities.

Priority activities from approved demonstration activities should be included in the list of national demonstration from demonstration and forest degradation.

International demonstration activities should be assessed after the inventory used for the demonstration, and assessed for consistent displacement of emissions.

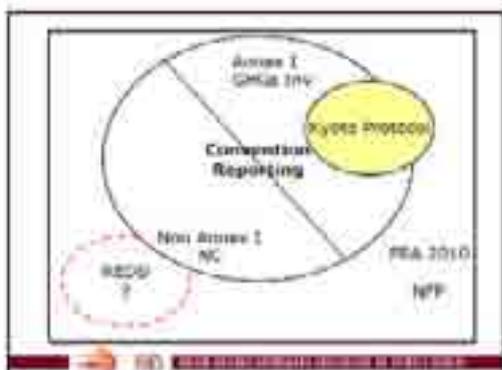
Indicators to determine or measure standing forest for demonstration activity should be based on national accounts, taking into account national circumstances.

Demonstration activities, when applied, should include a step towards the development of a global comparable, uniform, levels and indicators.

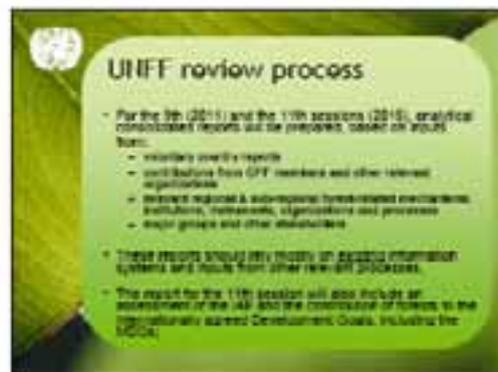
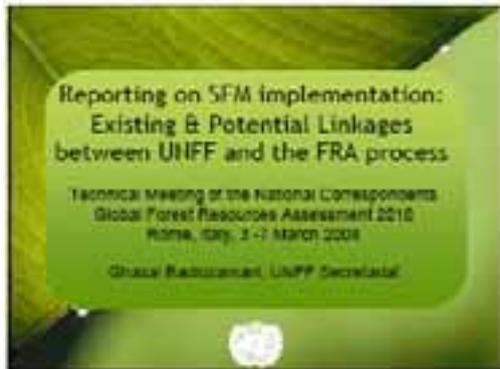
Demonstration activities should be consistent with sustainable forest management.

Type/level of monitoring activities should be reported and made available to the other parties.

Reporting on demonstration activities should include a description of the activities and their effectiveness, and how they relate other important indicators (e.g., forest health) where applicable.



Annex 3.6: Reporting on SFM implementation: Existing & potential linkages between UNFF and the FRA Process



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Potential steps to enhance linkages



- Selection of indicators from existing parameters
- Proposing indicators for areas not covered yet
- Fine-tuning reporting processes to fit emerging needs

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Global Objective on Forests

1. Reverse the loss of forest cover worldwide through SFM, including protection, restoration, afforestation and reforestation, and increase efforts to prevent forest degradation.



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Global Objective 1

Possible indicators:

- Reverse the loss of forest cover.
 - area, area change for forest and CWR, (T1), primary forest, planted forests (T4)
 - growing stock (T6), biomass (T7) and carbon stock (T8) and change
- Increase efforts to prevent forest degradation
 - characteristics of forest, change of characteristics (T4)
 - area of degraded forests (Special study)

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Global Objectives on Forests

2. Enhance forest-based economic, social and environmental benefits, including by improving the livelihoods of forest dependent people.



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Global Objective 2

- Economic
 - Area of forest designated for production (T6)
 - Species and change of removal of wood products (T1)
 - Removal of NWFP (T12)
 - Value and change of value of wood and NWFP removal (T1, T12)
- Social
 - Area of forests designated for social services (T8)
 - Employment in forestry (T18)
- Environmental
 - Area of forest designated for soil and water conservation (T3)
 - Area of forest designated for conservation of biodiversity (T3)

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Global Objectives on Forests

3. Increase significantly the area of protected forests worldwide & other areas of sustainably managed forests, as well as the proportion of forest products from sustainably managed forests.



Global Objective 3

Very few globally available indicators for this goal, some possible indicators:

- Area of sustainably managed forests (T3)
- Area of forests with designated functions (T3)
- Area of protected forests (T3)
- Proportion of products from sustainably managed forests (T7)

Global Objectives on Forests

4. Reverse the decline in ODA for SFM and mobilize significantly increased new and additional financial resources from all sources for the implementation of sustainable forest management.



Global Objective 4

- There are no globally available indicators for this goal
- Indicators needed for
 - Amount of ODA for forestry
 - Amount of new and additional resources for SFM

Possible Strategies

- Consider which of current FRA indicators could be used for Global Objectives
- Consider whether existing indicators used by other processes (ie MCPFE or Montreal Process) might be appropriate to use at global level

Challenges



Issue of qualitative assessment, description of "voluntary national measures, policies, actions or specific goals" related to the GOFs

- hyper-legal source (is it a policy, law, mp, strategy, Dp)
- time frame (if applicable)
- short description (general description, provisions relevant to GOF)
- experiences with implementation

Key messages

- No new additional reporting structures/processes/mechanisms
- National correspondents are invited to consider these issues in their work – these challenges are also opportunities
- An opportunity for the forest resources community to build on the political commitment embodied in the GOFs and NABU – by showcasing progress in these areas

Annex 3.7: UNECE and FRA: half a century of global-regional cooperation



Joint Forest Sector Questionnaire

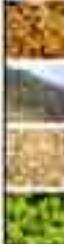
- An example of excellent global/regional cooperation for forest products markets (annual)
- Four organisations: ECE, FAO, Eurostat, ITTO
- One questionnaire and definitions
- Contacts and validation by one organisation only for each country
- Data shared (global level is FAOSTAT)
- Intersessional Working Group meets twice a year; absolutely necessary!



WFP
www.wfp.org

Next steps in Europe

- Learn from experience with State of Europe's Forests 2007, especially in policies and institutions, and monitoring GPM (= traffic lights =)
- Team of specialists meets in Vienna in May
- Seek consensus on emerging issues, (e.g. forest types) in good time
- Collect and validate data for European countries in 2004-2005
- Propose relevant information for bioenergy/climate change policy debate (potential wood supply)
- Mr. Komarov report: successor being chosen



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Questions, discussion?

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Annex 3.8: Statement from IUCN to launch of FRA 2010



IUCN welcomes this important and ambitious undertaking.

FRA 2010 will provide forest and other land-use practitioners and policy makers at the national and international levels with invaluable information on the distribution and extent of forests and on changes in forest area over time at regional, biome and global levels.

We particularly welcome the extent to which countries have been involved in the design and carrying out of the FRA programme.

The network of national correspondents, which is being brought together in support of this initiative, will if maintained and strengthened carry benefits beyond the FRA programme itself.

IUCN also appreciates the efforts of the FRA programme to take account of and contribute to the harmonization of reporting on forests with other organizations, work on which the FAO has demonstrated leadership within a joint initiative of the Collaborative Partnership on Forests.

Also welcome is the attention being given to making the FRA as relevant and useful as possible to important forest policy arenas such as the CBD and the UNFF.

IUCN looks forward to ongoing collaboration with the FAO and wishes the FAO and its many partners great success with this endeavour.

Stewart Maginnis
Head
Forest Conservation Programme
IUCN

Annex 3.9: FRA 2010 and GEO

FRA 2010 and GEO

Martin Herold
ESA Land Cover Office
Friedrich-Schiller University Jena (m.h@uni-jena.de)

GOFCC-GOLD

Global Observation of Forest and Land Cover Dynamics

esa

Group on Earth Observation (GEO)

- > Global Earth Observation System of Systems (GEOSS)
- > GEO will build on and add value to existing Earth-observation systems by coordinating their efforts, addressing critical gaps, supporting their interoperability, sharing information, reaching a common understanding of user requirements, and improving delivery of information to users (www.earthobservations.org)
- > GEO Secretariat at WMO, 4 committees
- > 2007-2009 work plan in place
- > Ministerial level summit in November 2007



Relevant task in the GEO 2007-09 Work Plan

- > AG-06-04 "Integrate international efforts on assessment and monitoring of forests and forest changes using a combination of ground and satellite information and internationally agreed standards"
- > Task lead: FAO, US (USFS, USDA, NASA), GOFCC-GOLD
- > Anticipated outcomes:
 - > Identification of key actors and agreement on objectives and approaches for a FRA 2010 global remote sensing survey
 - > An agreed methodology for the FRA 2010 Remote Sensing Survey (standards, methods, validation)
 - > A framework for linking statistical forest data, in situ forest observations, and satellite observations
 - > Capacity building workshops

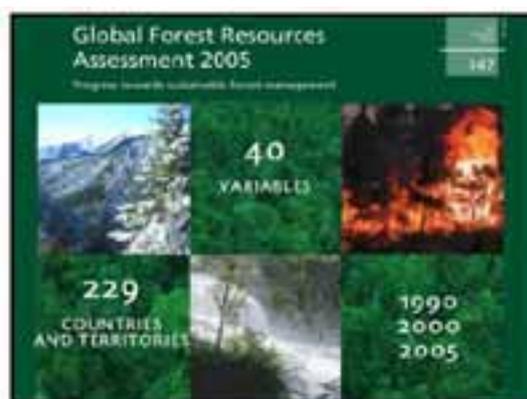
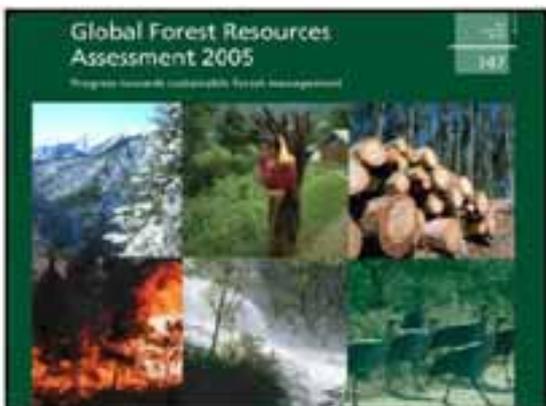
GEO and forest observations

- GEO has political momentum both internationally and nationally
- Develop international agreement on approaches & standards:
 - FRA 2010 Remote Sensing Survey (Task: AG-06-04)
- Awareness for terrestrial monitoring to improve forest monitoring:
 - Land cover important for all areas of societal benefit (Task: DA-07-02)
 - Reducing Emissions from Deforestation and Degradation
- Foster continuity & consistency for observations:
 - Archived data, mid-decade and decadal survey (Task: DA-07-02)
 - Integration with in-situ and statistical data
- Engage user communities previously not or less involved in Earth Observation:
 - "GEO community of practice for forest observations" (Task: US-06-02)
 - Capacity building efforts

Web resources

- GEO
 - <http://www.earthobservations.org>
- GOFCC-GOLD:
 - <http://www.fao.org/gtos/gofcc-gold/>
- GOFCC-GOLD land cover project office:
 - <http://www.gofcc-gold.uni-jena.de/>

Annex 3.10: Overview of the FRA 2010 process



FRA 2010

Guidance from Kotka V:

- Thematic elements of SFM
- Inputs to CBD Target 2010
- Global remote sensing survey
- National correspondents
- Harmonization of reporting

Guidance from COFO:

- Endorsement of Kotka V
- UNFF Global Objectives

Kotka V

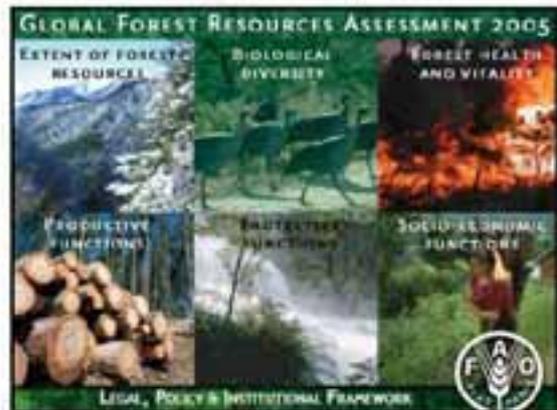


GLOBAL FOREST RESOURCES ASSESSMENT 2005

EXTENT OF FOREST & RESOURCES BIOLOGICAL DIVERSITY FOREST HEALTH AND VITALITY

PRODUCTIVE FUNCTIONS ECOSYSTEM FUNCTIONS SOCIO-ECONOMIC FUNCTIONS

LEGAL, POLICY & INSTITUTIONAL FRAMEWORK

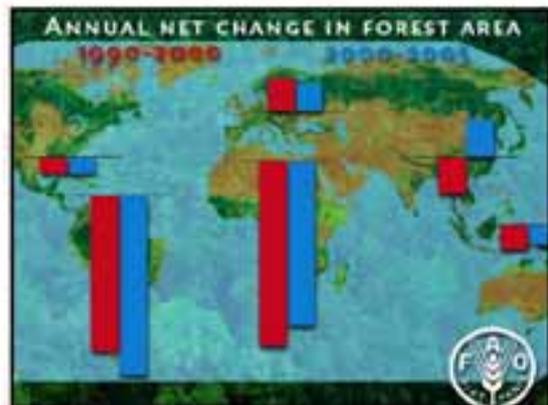
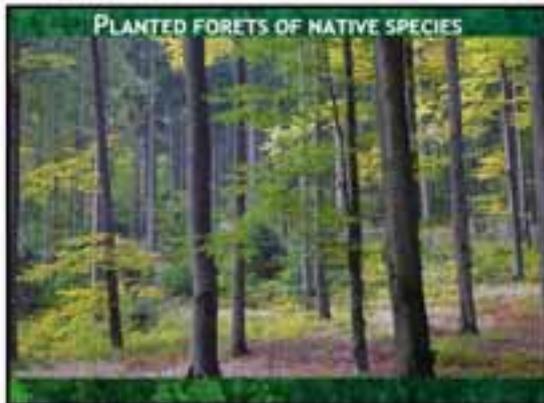


Meeting the needs of CBD (1)

Trends in:

1. The extent of selected biomes, ecosystems and habitats
2. Coverage of protected areas
3. Abundance & distribution of selected species
4. Status of threatened species



- Meeting the needs of CBD (2)**
5. Genetic diversity
 6. Invasive alien species
 7. Area of forest ecosystems under sustainable management
 8. Proportion of (wood) products derived from sustainable sources
 9. Connectivity/fragmentation of ecosystems
- CONVENTION ON BIOLOGICAL DIVERSITY
-

UNFF Global Objectives (1)

1. Reverse the loss of forest cover through sustainable forest management, protection, restoration, **afforestation** and **reforestation** and increase efforts to prevent **forest degradation**
2. Enhance forest-based economic, social and environmental benefits



UNFF Global Objectives (2)

3. Increase the area of protected forests and other areas of sustainably managed forests, as well as the proportion of forest products from sustainably managed forests
4. Reverse the decline in official development assistance and mobilize new and additional financial resources



FRA 2010

- Country reports
- Remote sensing survey
- Special studies
- External data providers





Country Reports

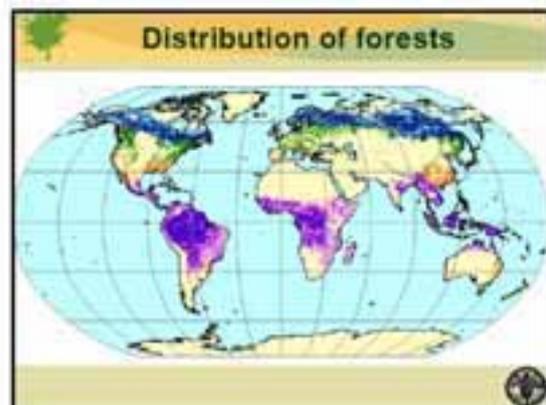
T 1	Extent of forest and other wooded land	T 10	Other disturbances affecting forest health and vitality
T 2	Forest ownership and management rights	T 11	Wood removal and value of removal
T 3	Forest designation and management	T 12	WFP removal and value of removal
T 4	Forest characteristics	T 13	Employment
T 5	Forest establishment and regeneration	T 14	Policy and legal framework
T 6	Growing stock	T 15	Institutional framework
T 7	Biomass stock	T 16	Education and research
T 8	Carbon stock	T 17	Public revenue collection and expenditure
T 9	Forest fires		

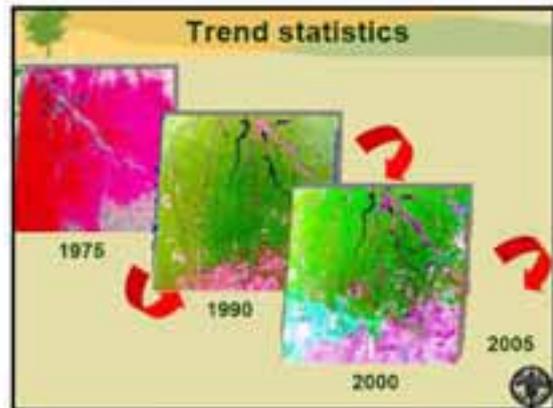
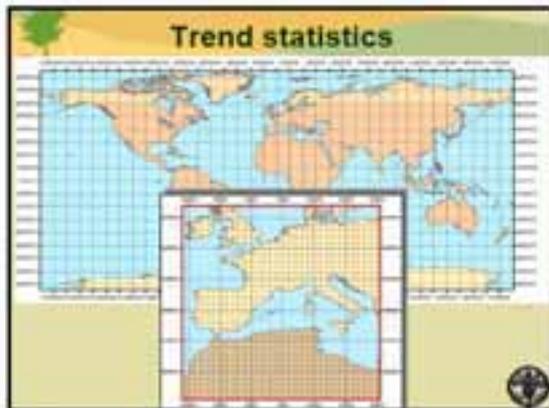


Remote sensing survey

- Distribution of forests
 - Trend statistics
- Regional, biome & global level





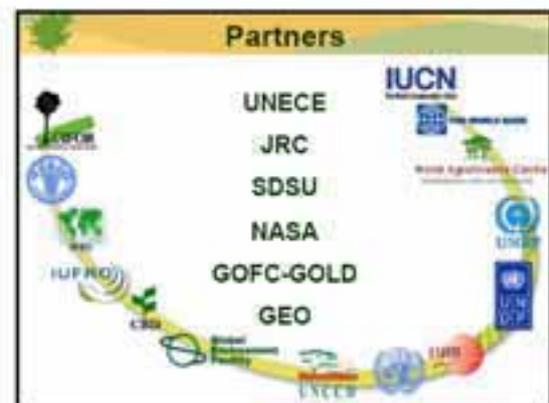


- ### Special studies
- Forest fragmentation and degradation
 - Forest genetic resources
 - Trees outside forests
 - Forest policies and institutions
 - Non-wood forest products
 - Forest employment and livelihoods

Partners

- 235 countries and territories
- 175 National Correspondents
- Regular contacts
- Regional networks

Two photographs showing people in a meeting or workshop setting. The top photo shows a group of people around a table, and the bottom photo shows a smaller group of people in a similar setting.



- ### Next steps
- 2008: Launch FRA 2010 (3-7 March)
 - 2008-2009: Regional workshops (country reports and remote sensing) and bulk of work for countries
 - 2010: Release of Key Findings; Report preparation & dissemination
 - 2011: Final report from global remote sensing survey

Conclusions

1. Long tradition
2. Strong mandate
3. Global network of dedicated experts
4. 2010 and 2011: Important dates
5. Many challenges = many opportunities

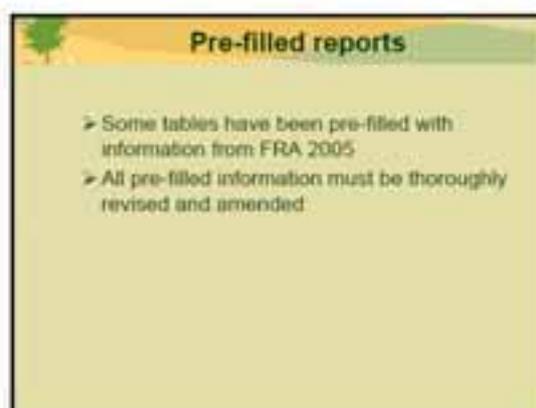
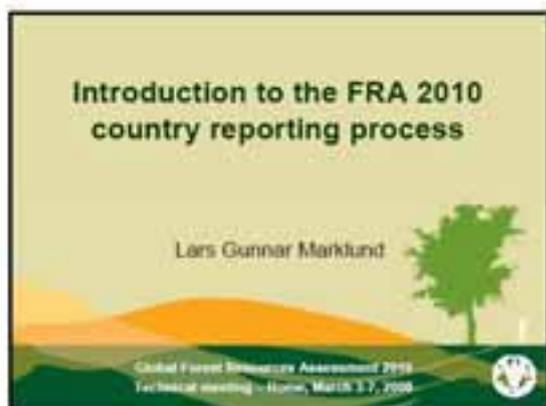


THANK YOU!

www.fao.org/forestry/fra2010



Annex 3.11: Introduction to the FRA 2010 Reporting Process

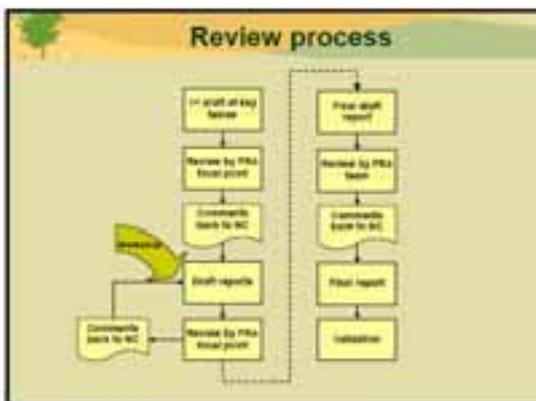


National Correspondents

- Coordinate elaboration of the country report and responsible for ensuring a timely delivery of the report
- Focal point for communications with FAO on FRA related matters
- Participate in workshops related to FRA
- Disseminate information within your country

FRA focal points

Africa	Laura Russo
Asia	Monica Garzuglia
Latin America and the Caribbean	Lars Gunnar Marklund
Europe	UNECE / Orjan Jonsson
the Pacific	Orjan Jonsson
Russian-speaking countries	Arvydas Lebedys



Getting started...

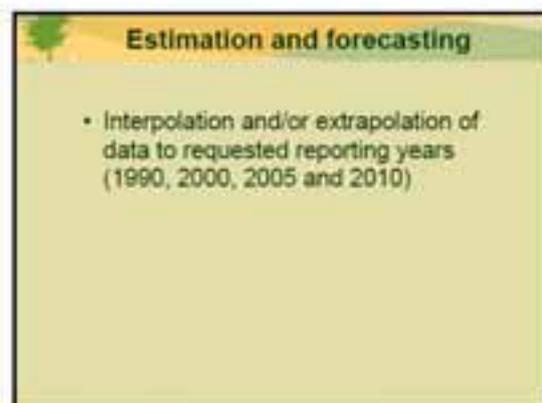
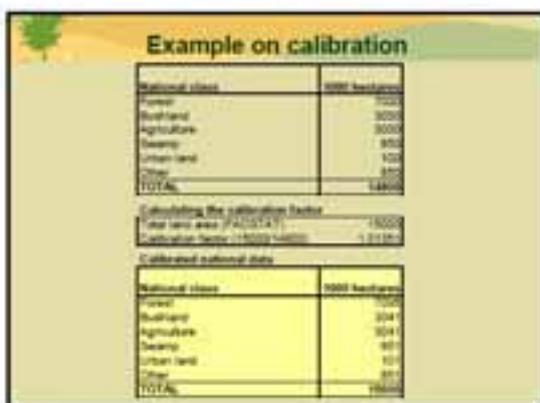
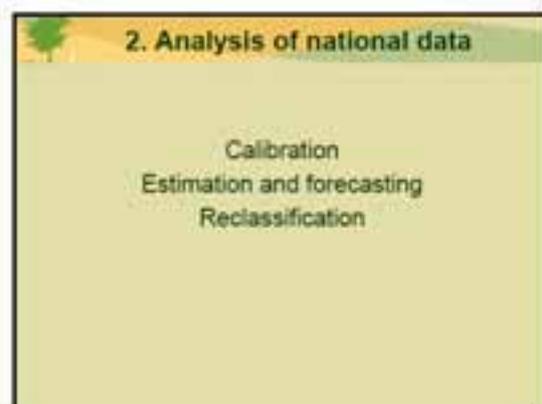
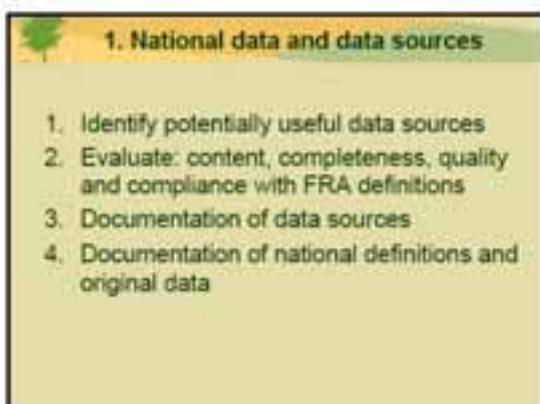
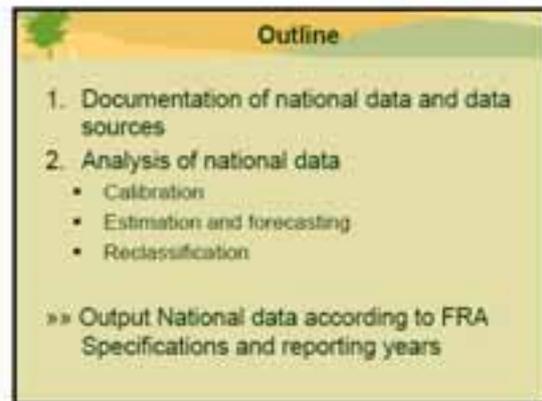
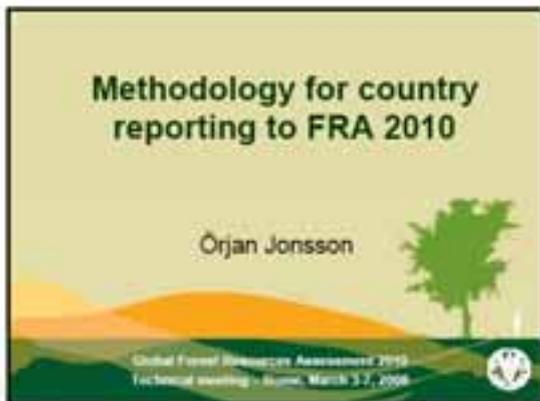
- Start early
- Organize the team
- Identify and locate focal points for other reporting processes
- Start with the key tables (T1, T3a, T4a, T6) and send in a draft report with these tables as soon as possible
- Consult with FRA focal point if in doubt or if you need advice

Time schedule for country reporting

- Launch – beginning of March 2008
- Regional workshops – remainder of 2008
- Deadline for submission of country reports – end of March 2009
- Validation request – mid 2009
- 2010 – country reports published on the Web

Thank you!

Annex 3.12: Methodology for country reporting



Example estimation and forecasting

National class	National data		Estimated / forecasted data			
	1987	1990	1990	2000	2005	2010
Forest	708	800	798	834	825	872
Bushland	2047	2100	2088	2120	2130	2154
Agriculture	2047	2100	2088	2109	2205	2200
Swamp	481	480	480	540	645	640
Urban land	121	150	113	154	175	189
Other	481	480	480	540	645	640
TOTAL	10000	10000	10000	10000	10000	10000

In this example:
linear interpolation for 1990 and linear extrapolation for 2000, 2005 and 2010

Reclassification

- Transform data according to national classes to correspond to FRA 2010 categories
- Reclassification matrix

Example on reclassification

National class	FRA 2010 Categories			Total
	Forest	OWL	Other land	
Forest	100%			100%
Bushland	20%	80%		100%
Agriculture			100%	100%
Swamp			100%	100%
Urban land			100%	100%
Other			100%	100%

Analysis of national data

Suggested order of application

1. Calibration
2. Estimation and forecasting
3. Reclassification

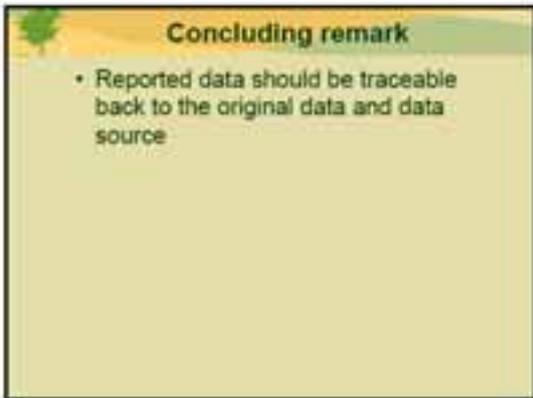
» Ensures documentation of trends according to the national classes

Missing or incomplete data

No field must be left blank
Expert estimates
Use "n.a." got available

Comment fields

1. Comments related to data and definitions
2. Comments on reported trend
3. Other general comments



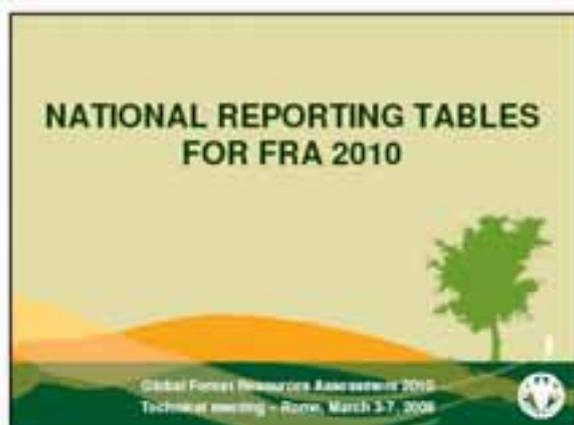
Concluding remark

- Reported data should be traceable back to the original data and data source



Thank you!

Annex 3.13: National Reporting Tables for FRA 2010



Reporting tables

T 1	Extent of forest and other wooded land	T 10	Other disturbances affecting forest health and vitality
T 2	Forest ownership and management rights	T 11	Wood removals and value of removals
T 3	Forest designation and management	T 12	WFP removals and value of removals
T 4	Forest characteristics	T 13	Employment
T 5	Forest establishment and reforestation	T 14	Policy and legal framework
T 6	Growing stock	T 15	Institutional framework
T 7	Biomass stock	T 16	Education and research
T 8	Carbon stock	T 17	Public revenue collection and expenditure
T 9	Forest fires		

T1 Extent of Forest and Other wooded land

Rationale:

- Core table for FRA 2010
- Important for assessing state and trends of forest resources
- Widely used in various international reporting processes and conventions

Reporting

- No changes in relation to FRA 2005
- Pre-filled country reports 1990, 2000 & 2005
- Data sources
 - National forest inventory data
 - Forest maps
 - Vegetations and land use maps

T1 Extent of Forest and Other wooded land

FRA categories	Area (1000 hectares)			
	1990	2000	2005	2010
Forest				
Other wooded land				
Other land				
...of which with tree cover				
Inland water bodies				
TOTAL				

T2 Forest ownership and management rights

Rationale:

- Control over and rights to use the forest resources
- Policy, institutional and management issues

Reporting

- Changes in relation to FRA 2005
 - Ownership now refers to the forest resource (the trees) and not the land
 - Private ownership has been further sub-divided into several sub-categories
 - Information on management rights of public forests has been added
- Two parts
 - ownership
 - management rights

T2a Forest ownership

FRA 2010 Categories	Forest area (2000 hectares)		
	1990	2000	2005
Public ownership			
Private ownership			
...of which owned by individuals			
...of which owned by private business entities and institutions			
...of which owned by local communities			
...of which owned by indigenous / tribal communities			
Other types of ownership			
TOTAL			

T2b Holder of management rights of public forests

FRA Categories	Forest area (1000 hectares)		
	1990	2000	2005
Public Administration			
Individuals			
Private corporations and institutions			
Communities			
Other			
TOTAL			

T3 Forest designation and management

Rationale:

- Information on how the forests are intended to be managed
- Relates to reporting to other organizations and arrangements (CBD, UNFF, MCPFE, ITTO, etc.)
- Essential for planning and monitoring of impacts of policy measures

Reporting

- Changes in relation to FRA 2005
 - Only covers forest area
 - "Total area with function" has been removed
 - A table on "special categories of designation and management" has been added (T3b)
- T3a – Primary Designated Function is prefilled for 1990, 2000 and 2005.

T3a Primary designated function

FRA categories	Forest area (2000 hectares)			
	1990	2000	2005	2010
Production				
Protection of soil and water				
Conservation of biodiversity				
Social services				
Multiple use				
Other (specify)				
Na / Unknown				
TOTAL				

T3b Designation and management

FRA categories	Forest area (1000 hectares)			
	1990	2000	2005	2010
Area of permanent forest estate				
Forest area within protected areas				
Forest area under sustainable forest management				
Forest area with management plan				

T4 Forest characteristics

Rationale:

- Degree of human impact
- Monitor forest ecosystems

Reporting

- Changes in relation to FRA 2005
 - Planted forest instead of Plantations
 - Modified natural and Semi-natural merged into Other naturally regenerated forest
 - A table with specific categories of forest types added (T4b)
- T4a – Characteristics – area of primary forest is prefilled for 1990, 2000 and 2005

T4a Characteristics

FRA categories	Forest area (1000 hectares)			
	1990	2000	2005	2010
Primary forest				
Other naturally regenerated forest				
...of which of introduced species				
Planted forest				
...of which of introduced species				
TOTAL				

T4b Special categories

FRA categories	Area (1000 hectares)			
	1990	2000	2005	2010
Rubber plantations (Forest)				
Mangroves (Forest and OWL)				
Bamboo (Forest and OWL)				

T5 Forest establishment and reforestation

Rationale:

- Monitor progress towards SFM
- Global objectives on forests (UNFF)

T5 Forest establishment and reforestation

FRA categories	Annual forest establishment (ha/year)			...of which of introduced species (ha/year)		
	1990	2000	2007	1990	2000	2007
Afforestation						
Reforestation						
...of which on areas previously planted						
Net area expansion of forest						

- ### T6 Growing stock T7 Biomass stock T8 Carbon stock
- Strongly interrelated
 - Consistence between tables
 - Consistence between reporting to FRA and to UNFCCC and the Kyoto Protocol

- ### T6 Growing stock
- Rationale:
- Productive capacity of the forests
 - Planning and monitoring sustainable use
 - Basis for biomass and carbon estimates

- ### Reporting
- Commercial Growing stock replaced with Growing stock of commercial species
 - Three parts
 - Total growing stock and growing stock of commercial species
 - Composition of growing stock
 - Specification of thresholds
 - Trends – need for better information on growing stock per hectare

T6a Growing stock

FRA categories	Volume (million cubic meters over bark)							
	Forest				Other wooded land			
	1990	2000	2005	2010	1990	2000	2005	2010
Total growing stock								
...of which coniferous								
...of which broadleaved								
Growing stock of commercial species								

T6b Growing stock of the 10 most common species

FRA category/Species name			Growing stock in forest (million m ³ over bark)		
Rank	Scientific name	Common name	1990	2000	2007
1 st					
2 nd					
3 rd					
...					
10 th					
Remaining					
TOTAL					

T6c Specification of threshold values

Item	Value	Complementary information
Minimum diameter (cm) at breast height of trees included in growing stock (D)		
Minimum diameter (cm) at the top end of stem for calculation of growing stock (C)		
Minimum diameter (cm) of branches included in growing stock (W)		
Volume refers to "above ground" (AG) or "above canopy" (AC)		

T7 Biomass stock

Rationale:

- > Basis for estimating carbon and emissions
- > Wood energy

- ### Reporting
- > Same categories and definitions as IPCC
 - > Default conversion factors from 2006 IPCC Guidelines – improved since FRA 2005
 - > General methodological aspects
 - Biomass conversion and expansion factors
 - No default values for dead wood

T7 Biomass stock

FRA categories	Biomass (million metric tonnes area-dry weight)							
	Forest				Other wooded land			
	1990	2000	2005	2010	1990	2000	2005	2010
Above-ground biomass								
Below-ground biomass								
Dead wood								
TOTAL								

- ### T8 Carbon stock
- Rationale:**
- > Monitor greenhouse gas emissions
 - > REDD

- ### Reporting
- > National data, when available
 - > Apply default carbon fraction from 2006 IPCC Guidelines (0.47)

T8 Carbon stock

FRA Category	Carbon (Million metric tonnes)				
	Forest				OML
	1990	2000	2007	2010	...
Carbon in above-ground biomass					
Carbon in below-ground biomass					
Sub-total: Living biomass					
Carbon in dead wood					
Carbon in litter					
Sub-total: Dead wood and litter					
Soil carbon					
TOTAL					

T9 (Forest) fires

Rationale:

- Planning & monitoring of fire management measures
- Climate change & carbon emission calculations

Reporting

- New table
- Two parts
 - area and number of fires
 - proportion wildfire / planned fire
- Thematic study "Fire management – global assessment 2006"
- Five-year average for reporting

T9a Area and number of fires

FRA category	Annual average for 5-year period					
	1990		2000		2007	
	1000 ha	# of fires	1000 ha	# of fires	1000 ha	# of fires
Total area affected by fire						
... of which on forest						
... of which on other wooded land						
... of which on other land						

T9b Proportion of planned fires and wildfires in forest

FRA category	Proportion of forest area affected by fire (%)		
	1990	2000	2007
Wildfire			
Planned fire			

T10 Other disturbances affecting forest health and vitality

Rationale:

- Forest health and vitality
- Control and mitigate impact

Reporting

- Three parts
 - Disturbances
 - Major outbreaks of insects and diseases
 - Woody invasive species

T10a Disturbances

FRA categories	Affected forest area (1000 hectares)		
	1990	2000	2008
Disturbance by insects			
Disturbance by disease			
Disturbance by other biotic agents			
Disturbance caused by abiotic factors			
Total area affected by disturbances			

T10b Major outbreaks of insects and diseases affecting forest health and vitality

Description / name	Tree species or groups affected (scientific name)	Year(s) of latest outbreak	Area affected (1000 ha)	Biological agent, code (year)
Disturbance 1				
Disturbance 2				
Disturbance 3				
...				
Disturbance 10				

T10c Area of forest affected by woody invasive species

Scientific name of woody invasive species	Forest area affected 2005 (1000 hectares)
Sp. 1	
Sp. 2	
Sp. 3	
Sp. 4	
Sp. 5	
Total forest area affected by woody invasive species	

T11 Wood removals and value of removals

Rationale:

- Contribution of forest sector to the national economy

Reporting

- Removals ≠ felling
- Joint Forest Sector Questionnaire (JFSQ) (EUROSTAT / FAO / ITTO / UNECE)
- Volume over bark (o.b.)
- Five-year average

T11 Wood removals

FRA category	Industrial roundwood removals			Woodfuel removals		
	1990	2000	2007	1990	2000	2007
Total volume (1000 m ³ d.b.h.)						
... of which from forest						
Unit value (local currency / m ³ d.b.h.)						
Total value (1000 local currency)						

Name of local currency: 1990, 2000 & 2007



T12 Non-wood forest products removals and value of removals

Rationale:

- Show the importance of NWFPs, both for economy and livelihood of rural people

- ### Reporting
- FRA 2005 table redesigned (Quantity and value of 10 most important NWFPs)
 - Data availability an issue
 - Focus on commercial products
 - Only removals from forest

T12 Non-wood forest products removals and value of removals

Rank	Name of product / Key species	Unit	NWFP removals 2007		NWFP category
			Quantity	Value (1990 local cur.)	
1 st					
2 nd					
...					
10 th					
All other plant products					
All other animal products					
TOTAL					

- ### T13 Employment
- Rationale:**
- Socio-economic importance
 - Government policies
 - Industry development
 - etc.

Reporting

- Changes in relation to FRA 2005
 - Self-employment included in primary production of goods
 - "Management of protected areas" has replaced "Provision of services"
- Compatible with national labour statistics

T13 Employment

FRA categories	Employment (1000 years FTE)		
	1990	2000	2005
Employment in primary production of goods			
...of which paid employment			
...of which self-employment			
Employment in management of protected areas			

T14 Policy and legal framework

Rationale:

- Fundamental basis for SFM
- Integration of forest sector into society

Reporting

- New table in FRA 2010
- Yes/No questions with some complementary information
- nfp-updates
- FAOLEX (<http://faolex.fao.org>)

T14a Policies and Laws (2008)

Forest policy statement with national scope	Yes/No
If Yes above, provide: <u>Year of endorsement</u> and <u>Reference to document</u>	
National forest programme (nfp)	Yes/No
If Yes above, provide: <u>Name of nfp</u> , <u>Current status</u> , and <u>Reference to document</u>	
Law (act or code) on forest with national scope	Yes/No
If Yes above, provide: <u>Year of enactment</u> , <u>Year of latest amendment</u> and <u>Reference to document</u>	
Sub-national forest policy statement	Yes/No
If Yes above, indicate: <u>number of regions/states/provinces with forest policy statements</u>	
Sub-national laws (acts or codes) on forest	Yes/No
If Yes above, indicate: <u>number of regions/states/provinces with laws on forests</u>	

T15 Institutional framework

Rationale:

- institutions responsible for
 - Policy formulation and implementation
 - Law enforcement
- Technical capacities of institutions

T15a Institutions

FRA category	2008
Ministry responsible for forest policy formulation	
Level of subordination of Head of Forestry with in the Ministry	Subordination to Minister 1 st level 2 nd level 3 rd or lower level
Other public forest agencies at national level	
Institution(s) responsible for forest law enforcement	

T15b Human resources

FRA categories	Human resources within public forest institutions					
	2000		2007		2008	
	#	% Female	#	% Female	#	% Female
Total staff						
...of which with university degree or equivalent						

T16 Education and research

Rationale:

- Capacity for education and research
- ↓
- Capacity to implement SFM

T16 Education and research

FRA categories	Graduates of studies in forest-related education					
	2000		2007		2008	
	#	% Female	#	% Female	#	% Female
Doctor's degree (PhD) or equivalent						
Bachelor's degree (BSc) or equivalent						
Technical institutions' diploma						
FRA categories	Professionals working in publicly funded forest research centres					
	2000		2007		2008	
	#	% Female	#	% Female	#	% Female
Doctor's degree (PhD)						
Master's degree (MSc) or equivalent						
Bachelor's degree (BSc) or equivalent						

T17 Public revenue collection and expenditure

Rationale:

- Forest sector contribution to government finances
- Government support to the forest sector

Reporting

- New table in FRA 2010
- Two parts
 - government revenues
 - government expenditures

T17 Public revenues and expenditures

TRA category	Revenues (1000 local currency)		
	2005	2006	
Forest revenues			
TRA category	Expenditures (1000 local currency)		
	Domestic	External	Total
Operational expenditure			
Transfer payments			
Total public expenditure			

- Reforestation
- Afforestation
- Forest inventory and/or planning
- Conservation of forest biodiversity
- Protection of soil and water
- Forest stand improvement
- Establishment or maintenance of protected areas
- Other, specify below

Thank you for your attention!