

# Methodology for country reporting to FRA 2010

Örjan Jonsson

Global Forest Resources Assessment 2010  
Technical meeting – Rome, March 3-7, 2008



## Outline

1. Documentation of national data and data sources
  2. Analysis of national data
    - Calibration
    - Estimation and forecasting
    - Reclassification
- » » Output National data according to FRA Specifications and reporting years

## 1. National data and data sources

1. Identify potentially useful data sources
2. Evaluate: content, completeness, quality and compliance with FRA definitions
3. Documentation of data sources
4. Documentation of national definitions and original data

## 2. Analysis of national data

Calibration  
Estimation and forecasting  
Reclassification

## Example on calibration

| National class | 1000 hectares |
|----------------|---------------|
| Forest         | 7000          |
| Bushland       | 3000          |
| Agriculture    | 3000          |
| Swamp          | 850           |
| Urban land     | 100           |
| Other          | 850           |
| <b>TOTAL</b>   | <b>14800</b>  |

### Calculating the calibration factor

|                                  |         |
|----------------------------------|---------|
| Total land area (FAOSTAT)        | 15000   |
| Calibration factor (15000/14800) | 1.01351 |

### Calibrated national data

| National class | 1000 hectares |
|----------------|---------------|
| Forest         | 7095          |
| Bushland       | 3041          |
| Agriculture    | 3041          |
| Swamp          | 861           |
| Urban land     | 101           |
| Other          | 861           |
| <b>TOTAL</b>   | <b>15000</b>  |

## Estimation and forecasting

- Interpolation and/or extrapolation of data to requested reporting years (1990, 2000, 2005 and 2010)

### Example estimation and forecasting

| National class | National data |              | Estimated / forecasted data |              |              |              |
|----------------|---------------|--------------|-----------------------------|--------------|--------------|--------------|
|                | 1987          | 1999         | 1990                        | 2000         | 2005         | 2010         |
| Forest         | 7095          | 6900         | 7046                        | 6884         | 6803         | 6721         |
| Bushland       | 3041          | 3100         | 3056                        | 3105         | 3130         | 3154         |
| Agriculture    | 3041          | 3150         | 3068                        | 3159         | 3205         | 3250         |
| Swamp          | 861           | 850          | 858                         | 849          | 845          | 840          |
| Urban land     | 101           | 150          | 113                         | 154          | 175          | 195          |
| Other          | 861           | 850          | 858                         | 849          | 845          | 840          |
| <b>TOTAL</b>   | <b>15000</b>  | <b>15000</b> | <b>15000</b>                | <b>15000</b> | <b>15000</b> | <b>15000</b> |

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." not 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!

