


# Integration of NFI and MRV in PNG

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Promoting and Strengthening  
Multi-purpose National Forest Inventory System  
In the Asia Pacific region in connection with climate change

## Integration of NFI and MRV in Papua New Guinea


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### 1. Current Situation of Deforestation and Degradation


- **Change of Forest Area (1,000ha)**  
– 1990: 31,523    2000: 30,133    2008: ?    2010: 28,726
- ⊗ **Main causes of Change**
  1. Timber harvesting (commercial)
  2. Shifting agriculture
  3. Forest clearance for commercial agriculture
- **Change of Designated functions of Forest (1,000ha)>**

– year	1990	2000	2008	2010
– Production	3,994	7,474	?	7,132
– Protection	0	0	?	0
– Conservation	409	1,376	?	1,312
– Social services	0	0	?	0



### 1. Current Situation of Deforestation and Degradation

- **Change of Growing Stock (m<sup>3</sup>/ha)**  
– 1990: 0.03    2000: 0.03    2008: ?    2010: 0.03
- ⊗ **Main causes of Change**
  1. Similar to previous slide
  2. Floods
- **Change of Carbon Stock (million tons)\***  
– 1990: 2,536.8    2000: 2,422.5    2008: ?    2010: 2,306.2
- ⊗ **Main causes of Change**
  1. Similar to previous slide
  2. Above-ground and below biomass




### 2. Strategy to reduce Deforestation and Degradation

- **Strengthening Forest Policies**
  - **Establishment of long-term Planning**
    - ex: Produced a Forestry and Climate Change Framework for Action – 7 Principles:
      - > Ownership of carbon credits
      - > Implementing adaptation measures
  - **Enactment of Forest Laws**
    - ex: Existing laws being reviewed to take in aspects relating to climate change




### 2. Strategy to reduce Deforestation and Degradation

- **Enforcement of Forest Administration Organization**
  - Central government
    - PNG Forest Authority (National Forest Service)
- **Increasing of Forest Budget (million\$)**
  - Central government
    - 1990: ?
    - 2000: 22.06
    - 2008: 29.95



### 3. Brief on National Forest Inventory

- **Brief history of Forest Inventory**
  - **1st inventory**
    - No NFI undertaken in PNG at all
    - Forest Resource Inventory undertaken for specific projects
    - Under existing legislation ( Forestry Act, 1991 (as amended) ), the National Forest Service to establish a national forest inventory to develop a national and provincial forest plans.
    - To meet the immediate needs, a rapid forest resource appraisal (RRA) based on mapping scale of 1:1 000 000 and 1:1 500 000 was conducted during the early 1990's (1991).
    - The mapping was incorporated into the existing Papua New Guinea Resource Information System (PNGRIS), to estimate gross volume and merchantable species information for each forest type identified.
    - The resulting Forest Inventory and Mapping System (FIMS) is an information system of the national coverage for forest management and planning
    - PNG National Forest Board endorsed the FIMS database as the National Forest Inventory





### 3. Brief on National Forest Inventory

- Implementation System of NFI in government
    - Administration
      - \* Project based inventory to establish commercial volume coordinated by the Forest Policy & Planning Directorate, PNG Forest Authority, National Forest Service
      - \* Field work conducted by staff of the PNG Forest Authority, National Forest Service
- |              |                |           |
|--------------|----------------|-----------|
| • Staffs: 10 | Budget (2010): | \$235,800 |
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**Thank you!**

