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# International Policy Perspectives

Presentation to FSC Plantations Review International Meeting, Bonn, Germany

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9 September, 2004





# Summary

- Context
  - Purpose & Ownership
  - Global Scale & Impact
  - Purpose & Ownership
- Issues & Policy Trends
  - Social
  - Cultural
  - Environmental
  - Economic
  - Technical



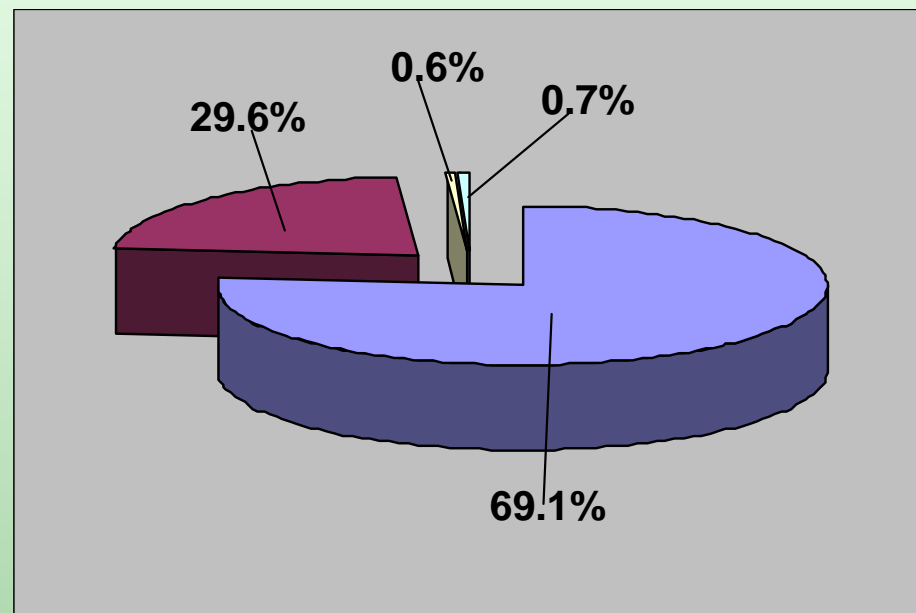
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# Context: Global Scale & Impact

- Land Area
  - 13,064 m ha
- Non-Forest Area
  - 9,007 m ha (69.1%)
- Forest Area
  - 3,870 m ha (29.6%)
- Industrial Plantation
  - 90 m ha (0.6%)
- Non-industrial Plantation
  - 97 m ha (0.7%)

Global Areas



**Industrial Plantation Production of  
Global Industrial Roundwood, 35% in 2000; est. 40% by 2020**



# Context: Purpose

- **Industrial Plantations**
  - **Corporate for industrial processing**
  - **Smallholder for industrial processing**
- **Non-industrial Plantations**
  - **Protection (soil, water etc)**
  - **Conservation**





# Context: Ownership

- **Public Sector (est. 55%)**
  - Return to people & nation
  - Strong social, environmental + economic
  - Generally longer term investment
- **Private Sector (corporate, est. 20%)**
  - Return on investment to board & shareholders
  - Strong economic focus
  - Tendency shorter term returns
  - Long term growth
- **Private Sector (smallholder, est. 25%)**
  - Return on investment to families
  - Balanced social, environmental & economic – “quality of life”
  - Balances shorter & longer term benefits – financial and “other”







# Cultural Issues

- Alienation from Traditional Lands & uses of natural resources
- Land-use conflicts
- Traditional, tribal, customary land and cultural attachment
- First Nations often marginalized from main plantation development





# Cultural Policy Trends

- Greater Recognition of Tribal & Customary Rights to Traditional Lands & Uses of Natural Resources
- First Nations' Land & Land-use Rights Increasingly Recognized & Respected
- First Nations Increasingly Involved in Participatory Planning, Implementation & investment
  - Participation in processes
  - Education, training, extension
  - Access to funds
  - Partnerships & j-vs





# Social Issues

- Employment
- Land Use
- Mechanisms of Growing
- Livelihoods & poverty alleviation
- Private Partnerships  
(Corporate/Smallholder)







# Social Policy Trends

- Social Impact Assessment
- Participatory Planning
- Land, Land Use & Crop Ownership Rights
- Diversity & Flexibility in Mechanisms & Species to meet needs
- Support people, livelihoods, food security, poverty alleviation
- Greater incidence and equity of Partnerships





# Selected Environmental Issues

- Plantations & Biodiversity
  - Conversion of natural & secondary forests
  - Forest landscape restoration
  - Rehabilitation of degraded lands
  - Combating desertification
- Soil & Water
- Carbon Accounting
- Invasive and Alien Spp.





# Environmental Policy Trends

- Reduced natural/secondary forest conversion to plantations
- Increased Use of plantations for rehabilitation of degraded lands, landscape restoration, combating desertification
- Commitment to Environmental Impact Assessment (Soil, Water, Chemical)
- Ratification of Kyoto Protocol, afforestation & reforestation qualify for CDM, legal and monitoring instruments







# Selected Economic Issues – Industrial

- Insufficient Market Outlook Knowledge
- Competition from Substitutes
- Globalization (pressure - S/D/\$)
- Insufficient Response to New technology
- Weak Production-Market Chain Linkages Between Growers and Users
- Inappropriate Incentives



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# Economic Issues – Ind. Policy Trends

- Encourage Market Outlook (supply, demand, price, product trends)
- Knowledge of Substitutes & Direct Competition
- Greater Awareness of Globalization (pressure - S/D/\$)
- Receptiveness and Response to Changes in technology (harvest, process, construction)
- Greater linkage of markets, sites/soils, species, mechanisms silviculture, rotation...etc in Production-Market Chain
- Tailor Incentives



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# Economic Issues – Environmental

## How to quantify benefits

- Landscape Restoration (rehabilitated land)
- Protection of soil & water
- Conservation of biodiversity
- Carbon sinks
- Recreational & Amenity
- Support to livelihoods
- Health & vitality of communities



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# Economic Issues – Env. Policy Trends

- Increasing Role in Landscape Restoration, Rehabilitated Land (Combating Desertification)
- Increasing Ecological Plantings for Protection of Soil & Water
- Increased Exchange for Carbon Credits
- Designation of Plantations for Recreation & Amenity
- Increasing Role in Support of livelihoods - Health & Vitality of Communities
- Methodologies to Measure Economic Value of Services



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# Technical Issues

- Biotechnology
  - Clonal Plantations
  - GMOs from lab to field
- Monocultures or Mixed species
- Diseases, Insects & Pests
- Use of chemicals
  - Insecticides
  - Fungicides
  - Herbicides
- Controlled Burning

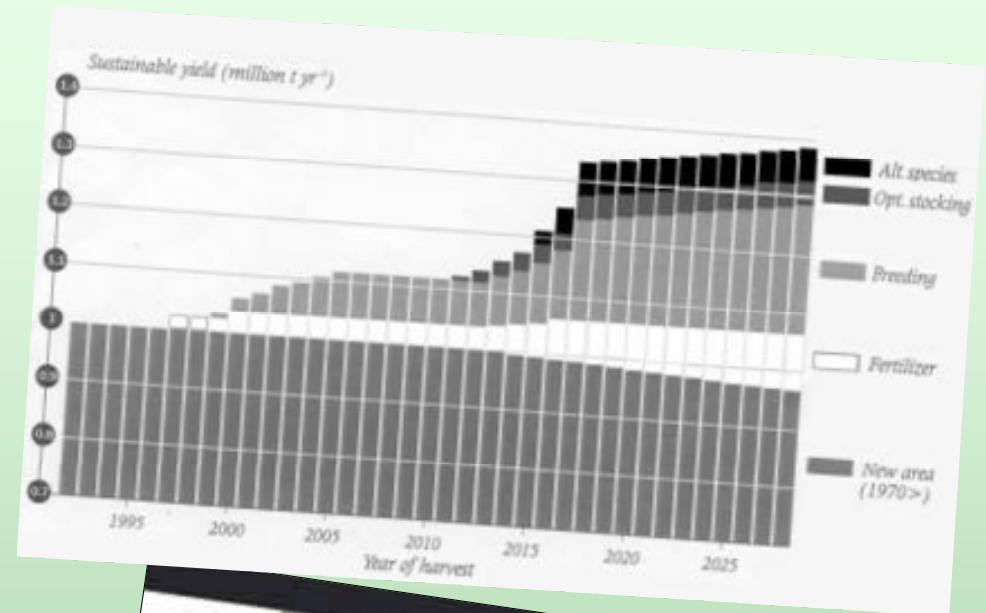






# Technical Policy Trends

- Increasing use of Biotechnology with environmental covenants & controls
- Awareness of Impacts of Invasive Species & Measures to Prevent
- Awareness of Holistic Management to Restrict Diseases, Insects & Pests
- Whilst Corporates tend towards Monocultures Smallholders towards Mixed Species
- Maximize Biological Solutions
- Minimize use of fire as management tool

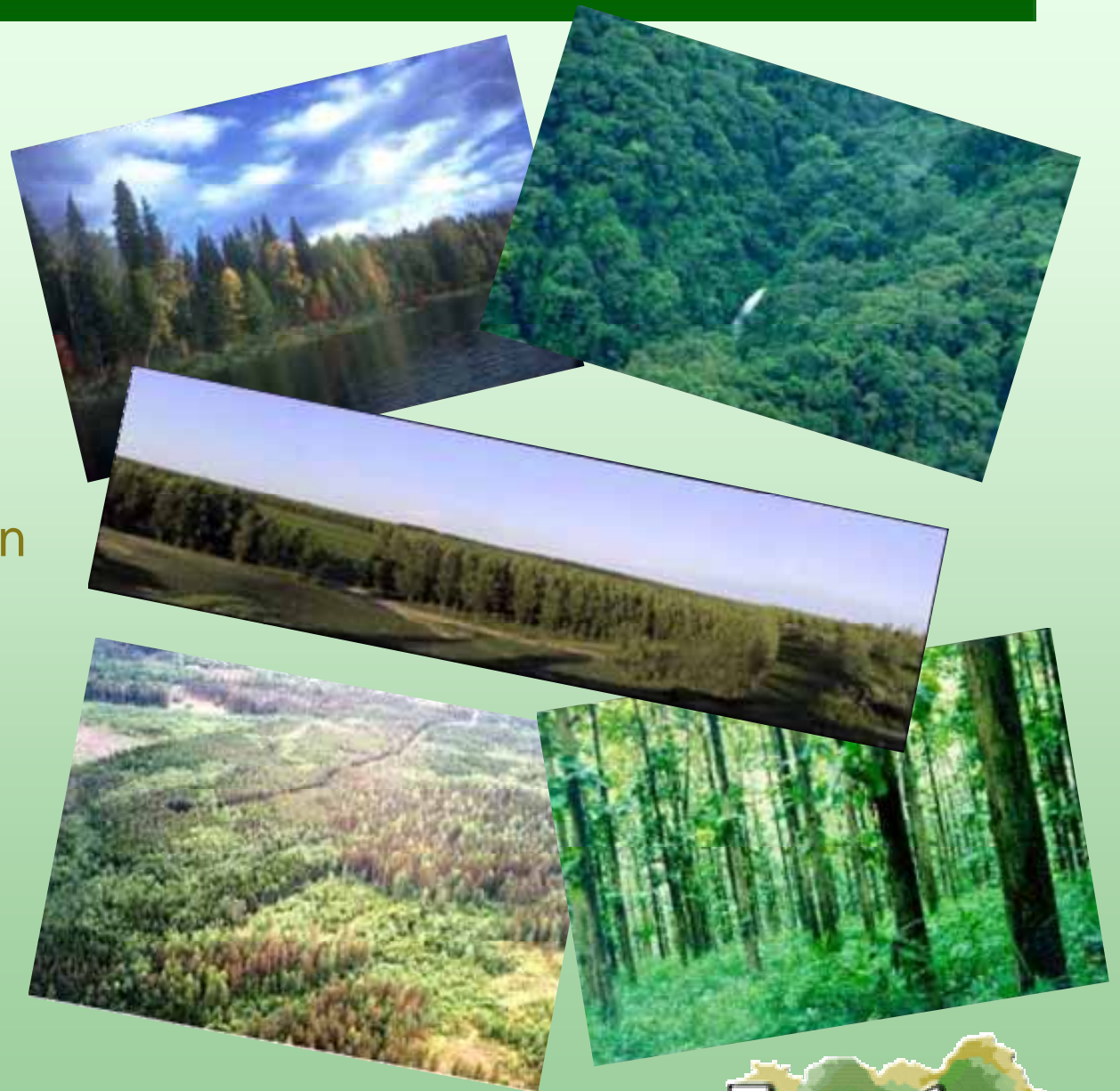


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# Trend in Use of Definitions

- Natural forests
- Semi-natural forests
- Planted forests (plantation forests are a subset)
- Trees outside Forests



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# Incentives in Plantation Development

## Three phases in plantation development

initiation

acceleration

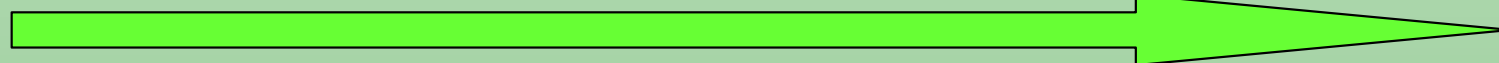
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direct incentives



enabling incentives



Developing countries  
Public Sector dominant

Developed countries  
Private Sector dominant





# Context: Productivity

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- Global
  - 10-15 m<sup>3</sup>/ha/yr
- Developing Country
  - 5-10 m<sup>3</sup>/ha/yr
- Industrialized Countries
  - 20-30 m<sup>3</sup>/ha/yr
- Potential (genetic improvement & holistic management)
  - 50+ m<sup>3</sup>/ha/yr