Resources for the Future: What we expect from our forests 20 years from now

John Innes

Faculty of Forestry, UBC













Forestry today

Former Forestry	Future Forestry Sustainable ecosystems Focus on value- added and 'smart' products	
Sustained yield		
Focus on cheap commodity products		
Focus on timber products	Focus on the needs of people	



Forestry today

Former Forestry	Future Forestry	
Based on Newtonian economics	Based on post- Newtonian economics	
Based on natural sciences	Based on social and natural sciences	
Focus on western experimental science	Recognition and use of multiple scientific systems (including TEK)	



Forestry today

Former **Future Forestry Forestry Policy dominated Policy dominated** by powerful by needs of disstakeholders enfranchised (industry) Focus on industrial Focus on logging community-based concessions approaches **Top-down control Participatory** of decisions decision-making



IUFRO Responses

- Recognition that eight Divisions were inadequate
- Split of Division 6 (social and economic science)
- Creation of interdisciplinary Task Forces



IUFRO Research Themes

IUFRO Strategy for 2010-2014:

- Forests for people
- Climate change and forestry
- Bioenergy and the forest products industry
- Forest biodiversity conservation
- Forest and water interactions
- Resources for the future



IUFRO Task Forces

- Forests for People
- Resources for the Future
- Forests and Water Interactions
- Forests and Human Health
- Traditional Forest Knowledge
- International Forest Governance
- Education in Forest Science
- Biodiversity and Ecosystem Services
- Forest Bioenergy
- Forests and Climate Change



Forests for people

- (Agro)forestry, food security and livelihoods
- Culture and education
- Recreation and eco-tourism
- Urban and rural landscapes























20 years from now

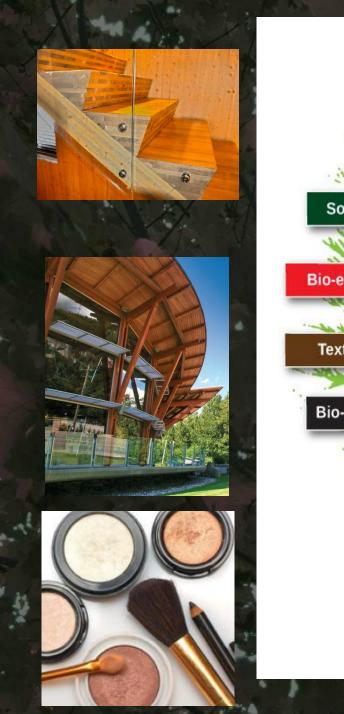
- Food security will be critical
- Competition for land will be intense
- Some countries may no longer have access to sufficient amounts of their land
- Demand for recreation will have increased, particularly in urban and peri-urban areas

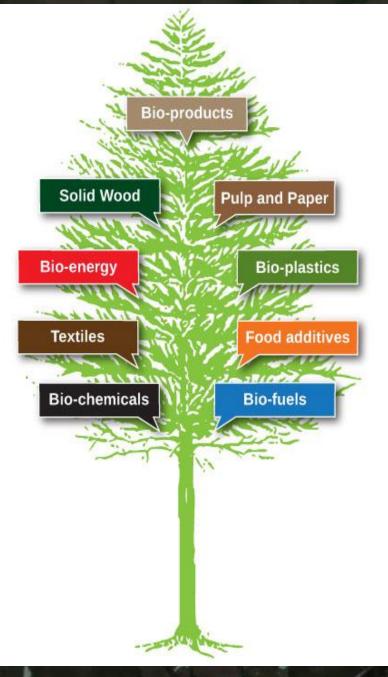
Resources for the future

- Trends in demand for innovative forest products, ecosystem goods and services and conflicting needs
- Management options at the landscape level
- Globalization and changes in governance systems







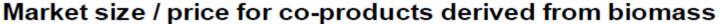


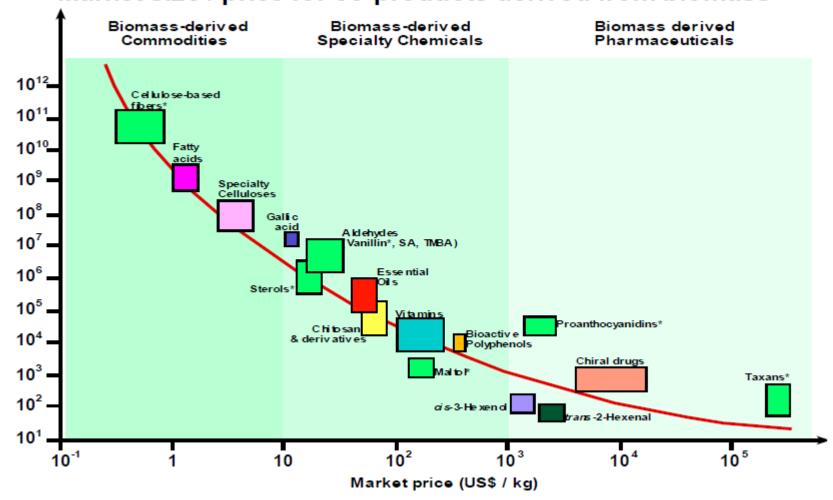












森林、林木、林地状况登记表

No 4

林地所不		永安市洪田镇 委会	世日林地使用权 和 人	邓杨钦
秋 利 森林或林 所有权权	林木利人	邓杨钦	森林或林木使用权权利人	邓杨钦
座	落	福建省永安市洪田镇洪田村		
小 地	名	进峰坑甲	林班 12-9	小班 1
面	积	117亩	主要树种	杉木
株	数	9000	林种	用材林
林地使用	期	26 年	终止日期	2029/12/31

至: 东: 山脊

南: 205、206号宗地界

西: 11林班界

北: 山脊

注 记: 1、宗地号: 099 2、具体分成比例见1999年元月6日永安市洪田镇洪田村与邓恒 钦等16户签订的第010号山林承包合同书。

填

证

(机关印)

机

经办人: 许接眉

负责人: 蔡为茂

2003年 10月

16_H

2003年 10月



中华人民共和国林权证



20 years from now

- Wide range of new products coming from forests
- Services will have adopted new importance
- Forest ownership patterns will have changed (dramatically)
- Governance issues will continue to be important

Forest and water interactions

- Effects of land-use and landcover change on watershed hydrology
- Forest and water interactions under conditions of climate change, and response options
- Region-specific interactions of forests and water (including water consumption by forest plantations)











WATER SUPPLY CATCHMENT AREA

YOU ARE TRAVELLING THROUGH THE CATCHMENT AREA
OF THE COLAC WATER SUPPLY.

PLEASE CO-OPERATE TO PREVENT POLLUTION.

THE REMOVAL OR CUTTING OF TREES, FERNS, SHRUBS
OR ANY NATURAL FLORA IS FORBIDDEN.

20 years from now

- Water will much more limiting than today
- Water will determine the survival of many of today's forests
- Water will determine forest policy in many areas



Forests and the associated wildlife are traditionally seen as a source of threat to human health



Sallim-yok (Forest rest-cure)

'Sallim-yok' is a new method of health care. People can restore their vitality while breathing the fresh air and the fragrance of trees and by seeking rest in a forested area.

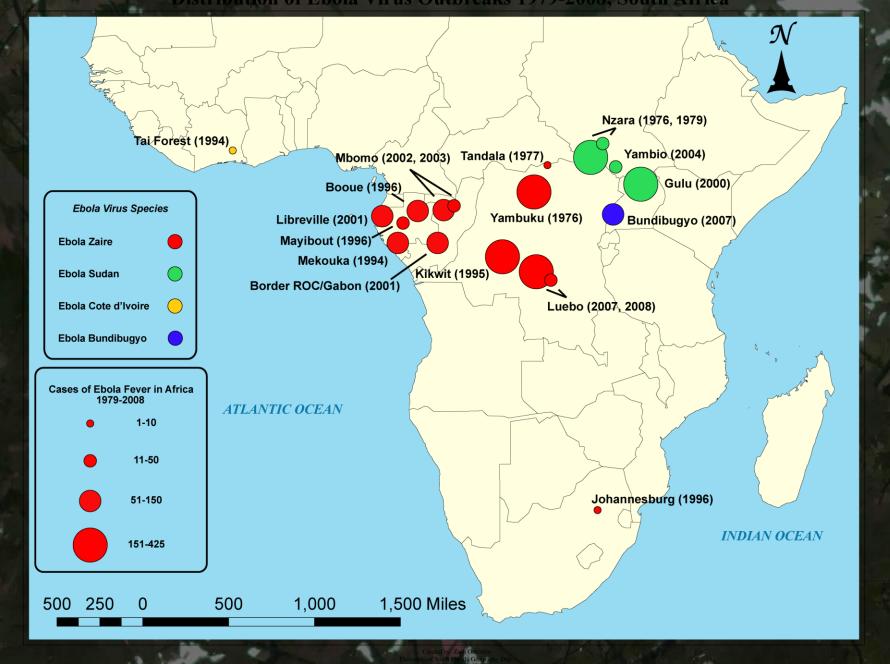
Trees in a forest manufacture *Phytoncide* which is a compound word of *phyton* (meaning fragrant smell that trees emit to protect itself) and *cide* (meaning to kill living things). This compound, released into the air, is beneficial to help people by killing harmful germs.

Resting in a forest helps asthma and disinfects the skin as well as strengthens the function of the lungs and heart. It also helps people overcame their fatigue and recover their spiritual strenth.

A coniferous(needle-shaped) forest is better than a latifoliate(broad-leaved) forest for 'Sallimyok'. Especially 'Bija(Torreya nucifera), Korean fir(Abis koreana WILS) and Thuja(Chamaecyparis obtusa ENDL) give off a heavy fragrance which are good for human.





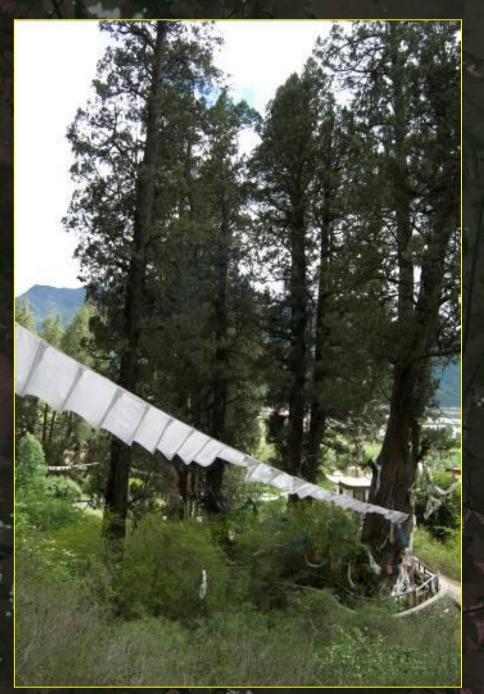


Ebola Virus outbreaks 1979-2008

20 years from now

- Rising healthcare costs will have generated more interest in natural remedies
- Forest owners will be paid for this service
- Urban forests will be particularly significant for health benefits
- More diseases will have been transferred to humans











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Everything depends on everything else