

*Sustained supply of bio-energy in growing  
competitive international markets*

IEA Bio-energy; Task 40

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# Stake Holders in international Bio-energy Trade Activities

End Users of Energy  
Energy Generators  
Port/Storage Organizations  
Shipping Companies  
Agents/Movers  
Logistic Institutions  
Fuel/Biomass Producers  
Finance Institutions/Banks  
Political Institutions  
NGOs  
Competitors  
Etc, etc.



# ***Leading Principles for (sustained) Success***

- Effectiveness
- Efficiency
- Compliance with accepted Policies
- Compliance with “Business Ethics”
- Reduction of Uncertainty
- Fair “Rules of the Game”



# Problems

- New Business - no historical Data
  - banks, etc. have no routines for loan applications
  - highly sensitive to uncertainty
  - susceptible to disinformation
  - professionalism is scarce
  - will require subsidies, now and in future



## Problems (cont.)

- Tendencies to place bio-energy primarily in the “green ideology”
  - stricter environmental control for bio-energy than for other products
  - local/local preferred
  - NGOs eager to act as global monitors
  - the role of the business sector???



## Problems (cont.)

- Land Use
- Socioeconomic Development
- Long Term Energy Supply
  
- Etc.



# Who's Responsible?

- The Consumer/Individual/Family
- The Experts
- The Village/Municipality/Local Adm.
- The Region/Council
- The Nation/Government
- Business
- International Bodies/EU/UN/IBRD
- NGOs

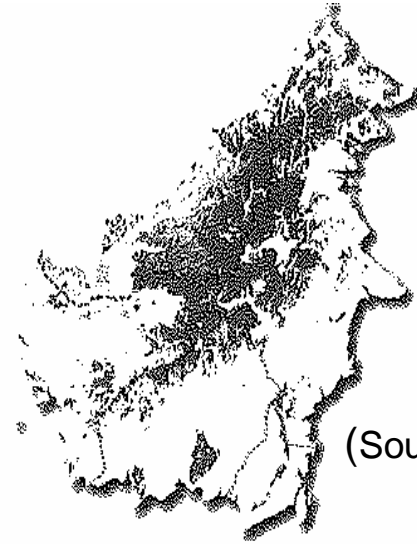
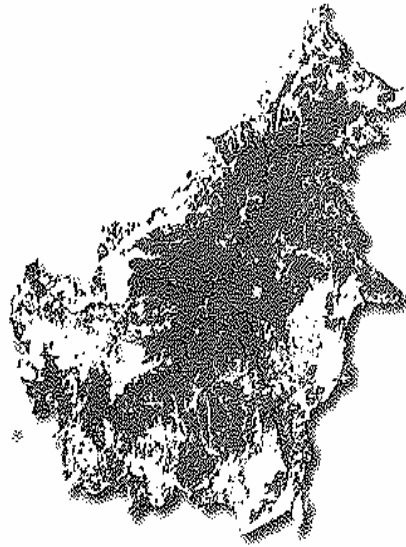
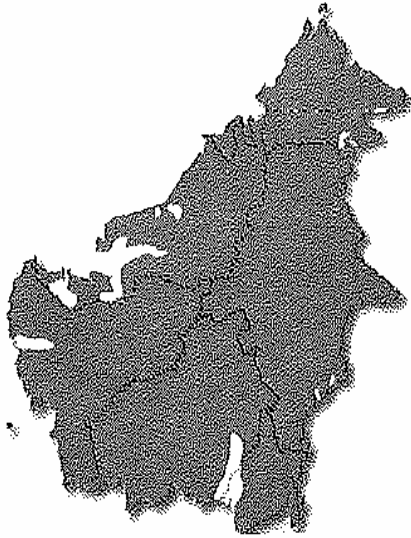


# Can/will Certification solve the Problems?

- Reduces uncertainty? (*partly, but to a limited degree*)
- Puts the responsibility where it belongs? (*?, increases the role of NGOs and individuals, but reduces the roles of others*)
- Creates fair Rules of the Game? (*No sanctions for cheaters, obstacles for entry of new SMEs*)
- Etc.



# Forest cover in Borneo



(Source: SKOGEN)

At start of certification  
(15 years ago);

situation now

projection 10 years ahead

**Conclusion: Certification alone cannot solve the land use problems**



# Frame for an Action Plan (Security of supply of bio-energy)

- Identify specific problems, concrete actions.  
(*Relevant bodies*)
- Include Business in the problem solving, also business ethics principles
- Reduce uncertainty by the establishment of clear policies
- Aim at system efficiency (in a broad sense, including also social, developmental and environmental components)

