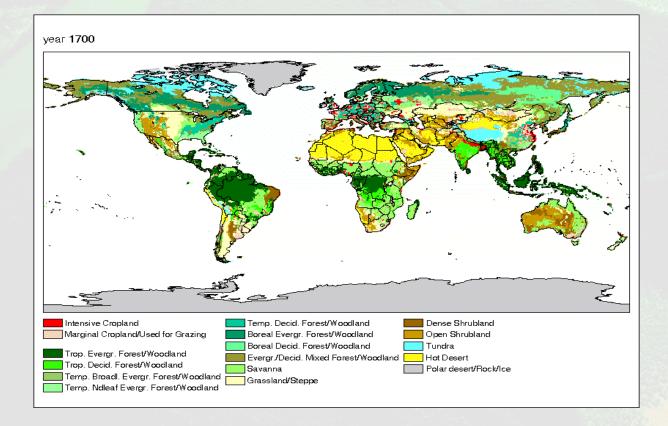
### The Water Debate

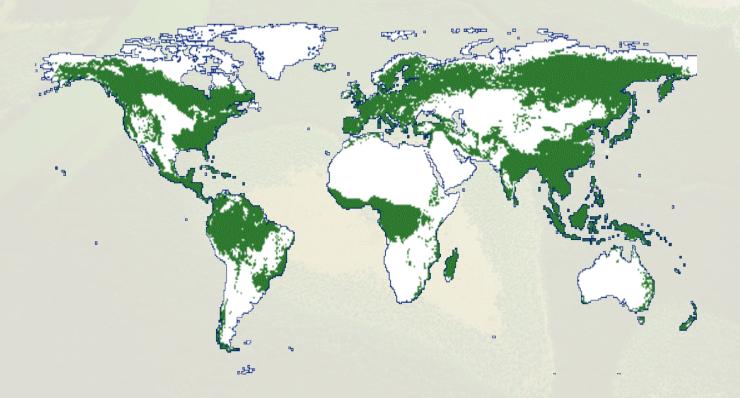
#### Chairman's opening remarks

Göran Berndes IEA Bioenergy Task 43 Chalmers University of Technology Sweden

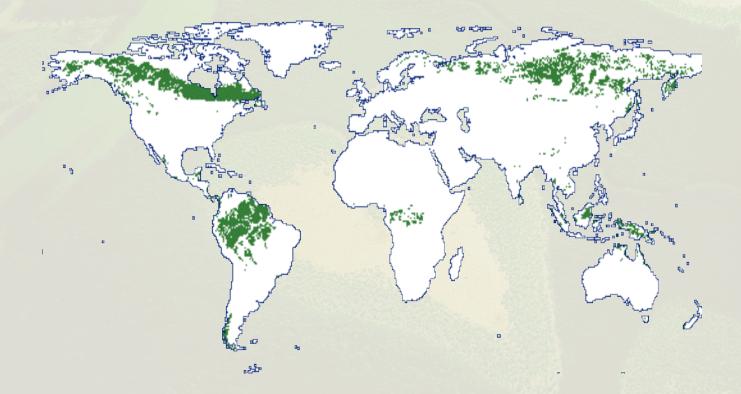
#### 300 years of land use change

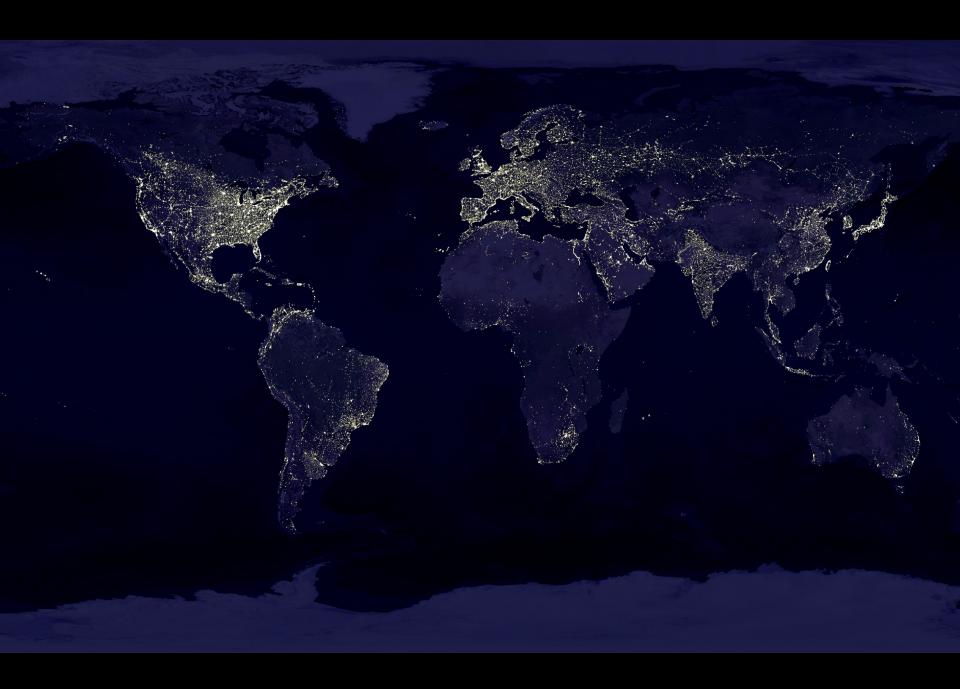


#### Frontier forests 8000 years ago

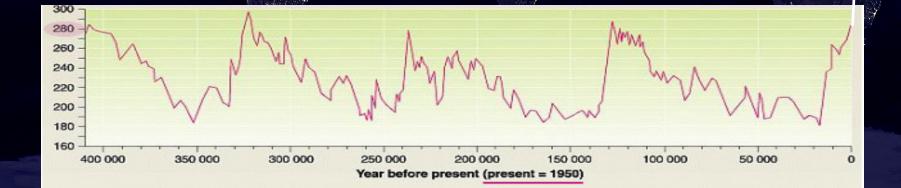


#### Frontier forests today





#### (Vostok Ice Core)



Year 2100 if business A

Today



Source: FAO

Food 2050

Source: FAO

Food 2050 Bioenergy 2050: Deployment at 440-600 ppm

Sources: FAO & IPCC SREN

## Bioenergy in

Food 2050 Bioenergy 2050: Deployment at <440 ppm

Sources: FAO & IPCC SREN

ene

#### Bioenergy in

Food 2050 Bioenergy 2050: Deployment at <440 ppm

#### Global industrial roundwood

Sources: FAO & IPCC SREN

ene

#### Room for bioenergy plantations?

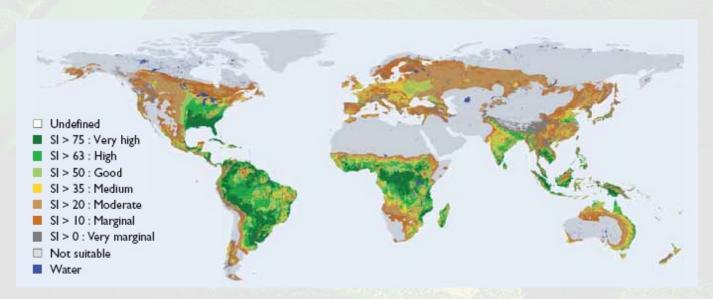


## Biophysical assessments indicate considerable bioenergy supply potentials



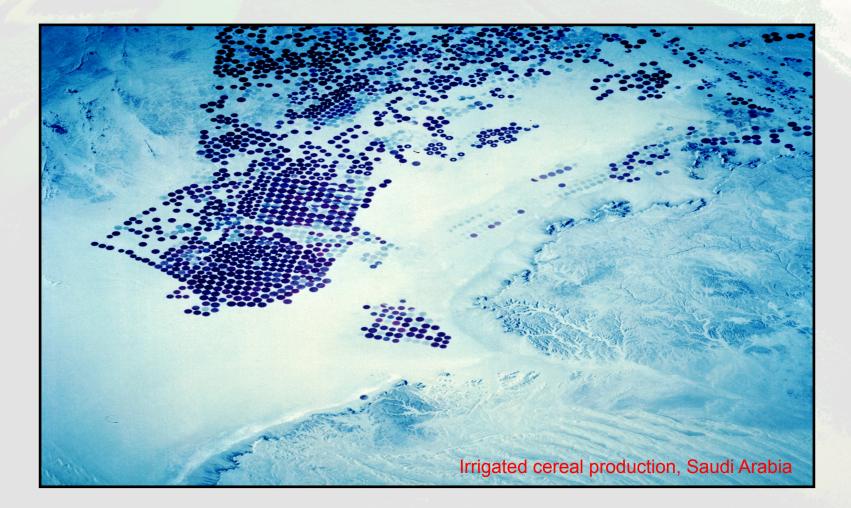
Map: land suitability for herbaceous and woody lignocellulosic plants (Fischer et al 2009)

## ...but bioenergy expansion needs to be guided in attractive directions



Map: land suitability for herbaceous and woody lignocellulosic plants (Fischer et al 2009)

...water related aspects have so far been less considered than some other "hot issues"





# Today: three sessions covering water related aspects

- 1. Water Implications in Biofuel Scenarios at Different Scales
- 2. Understanding and Managing the Effects of Biofuel Schemes on Water
- 3. Moving Forward: Business, Governance and Innovation Addressing Water Challenges

# More info supporting constructive responses to concerns about water

