



Global usage perspectives of biomass

Didzis Palejs

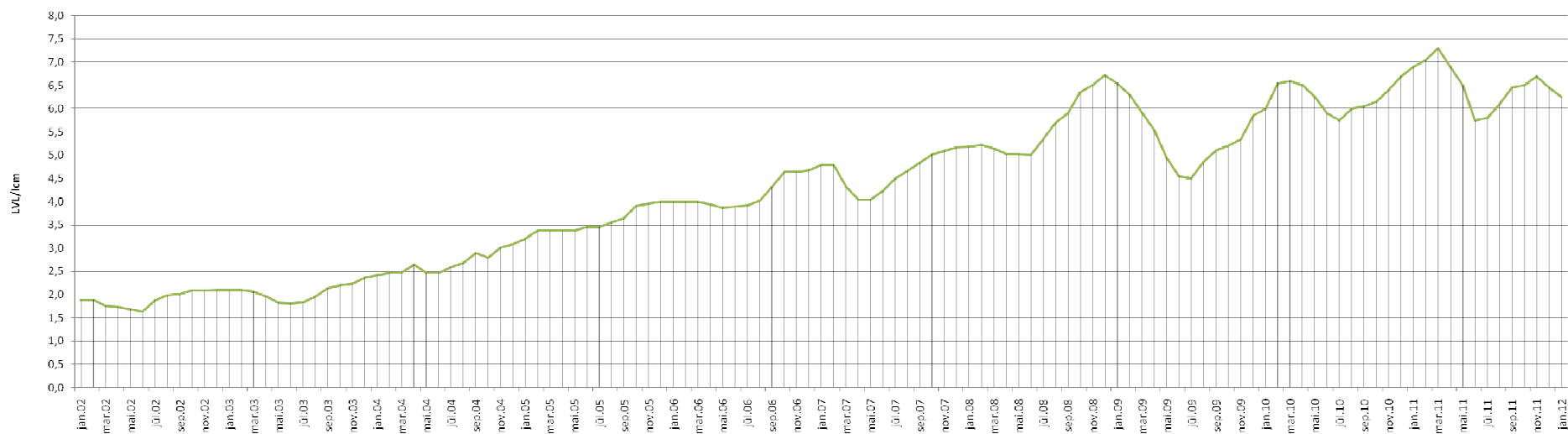
Latvian biomass association LATbio

Tel. +371 299 299 22

e-mail: didzis.palejs@latbio.lv

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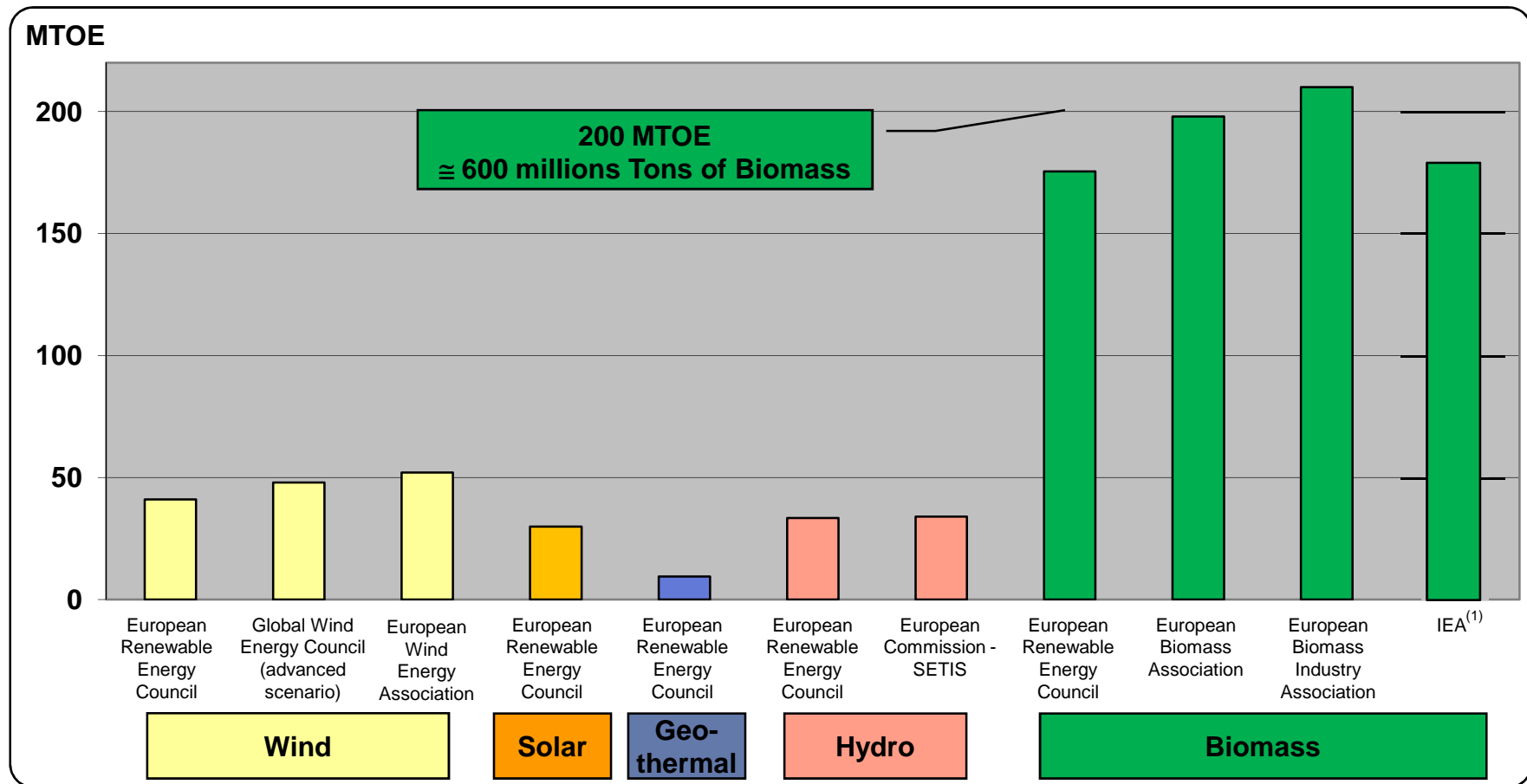
Average price for fuel wood chips in local Latvian market 2002. - 2012. LVL/lcm



Europe

2020 Projections by International Institutions

Biomass versus Other Renewable Energies

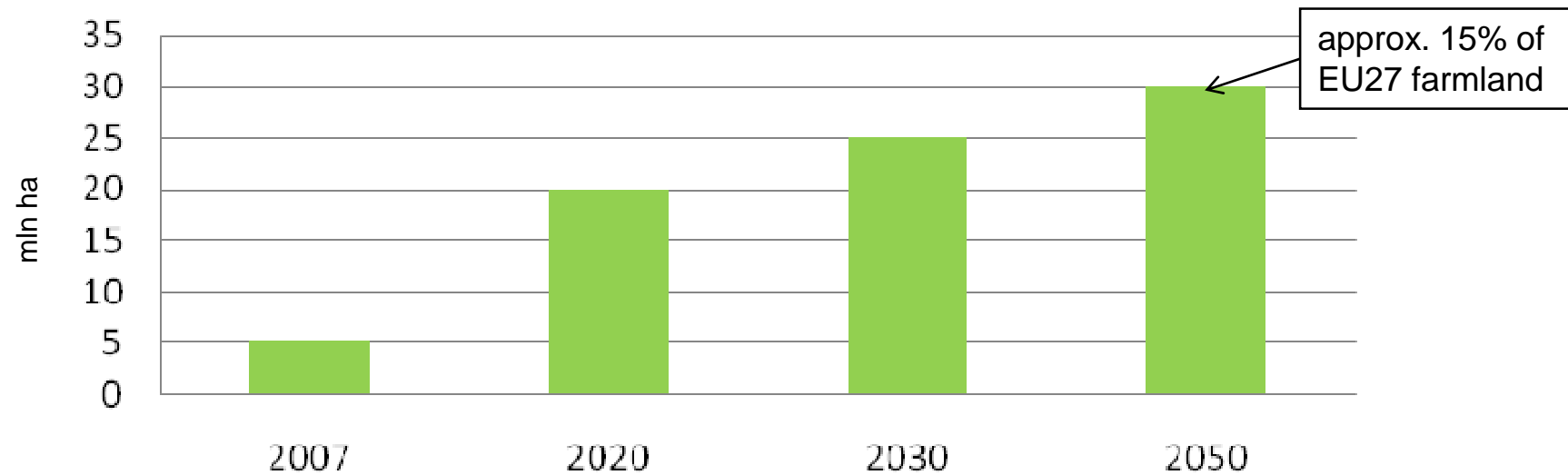


Note:
1. Including biomass and biofuels

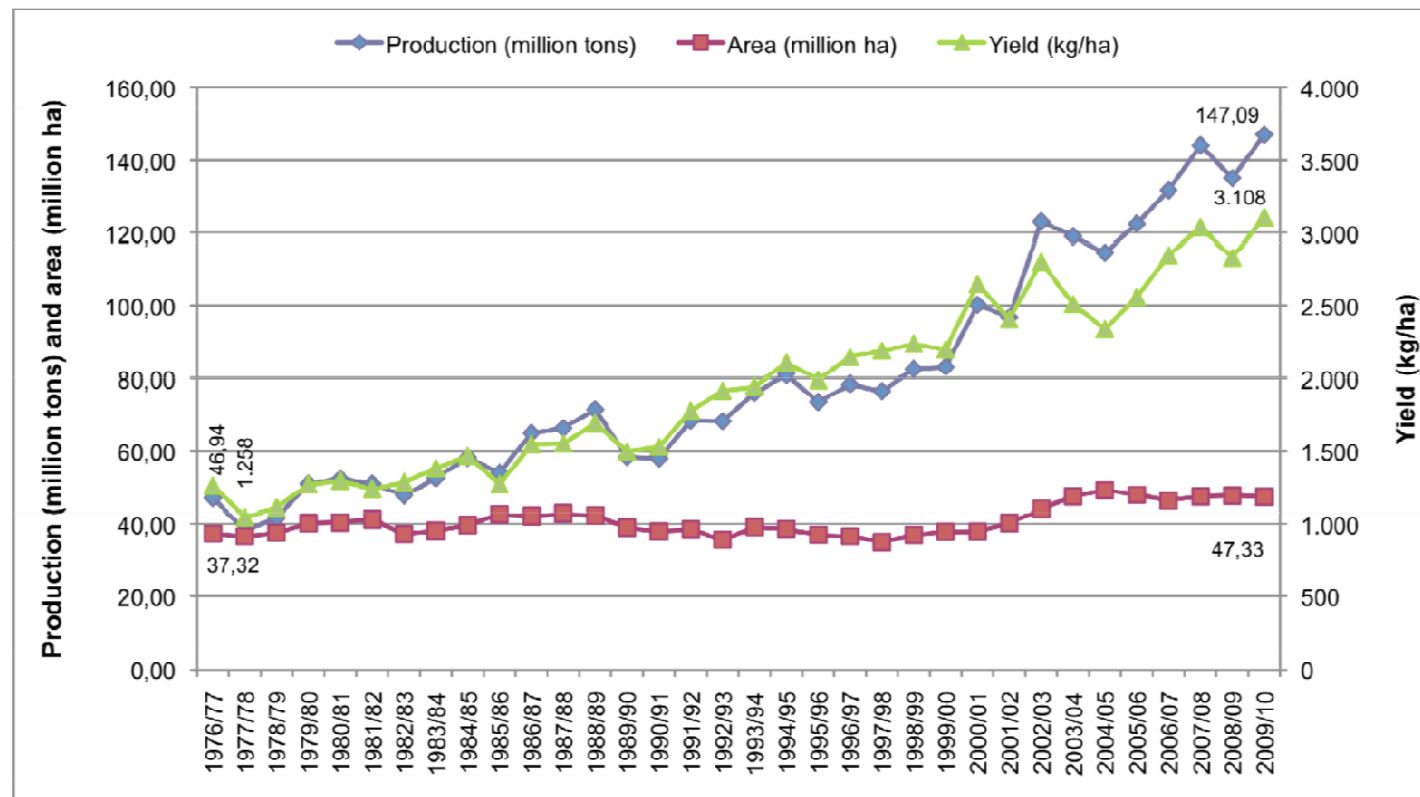
Land areas needed for energy crop plantations

(according to current yields)

mln ha



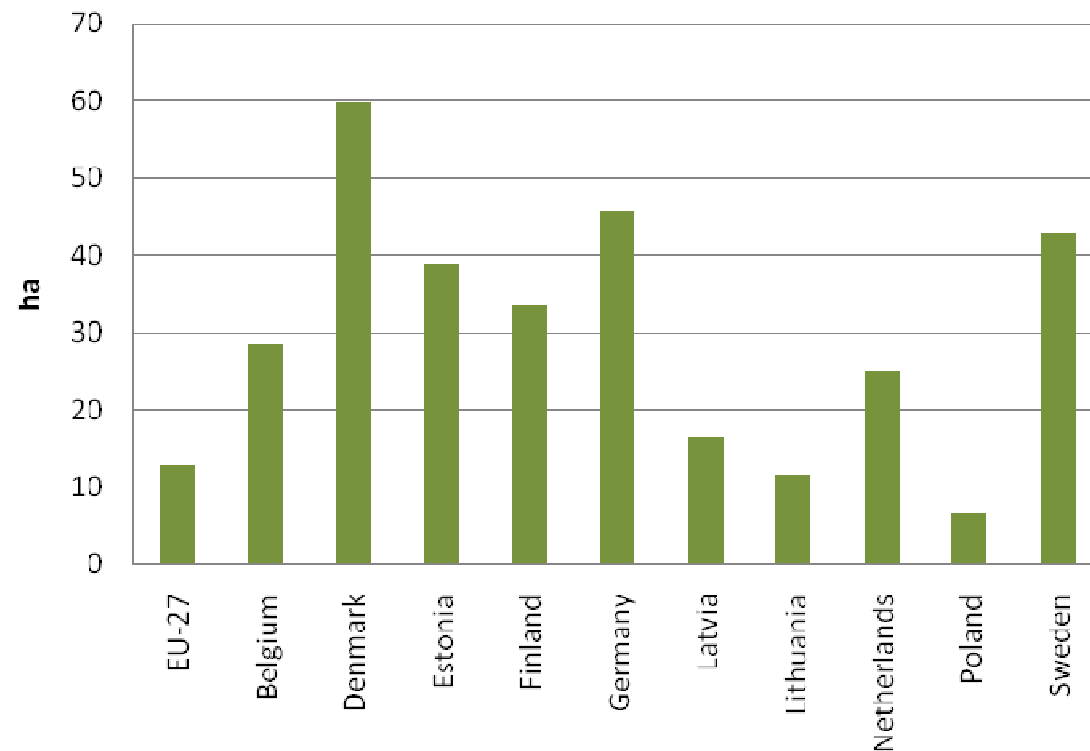
Grains: Production and Area (1975/2010)



Source:after CONAB.

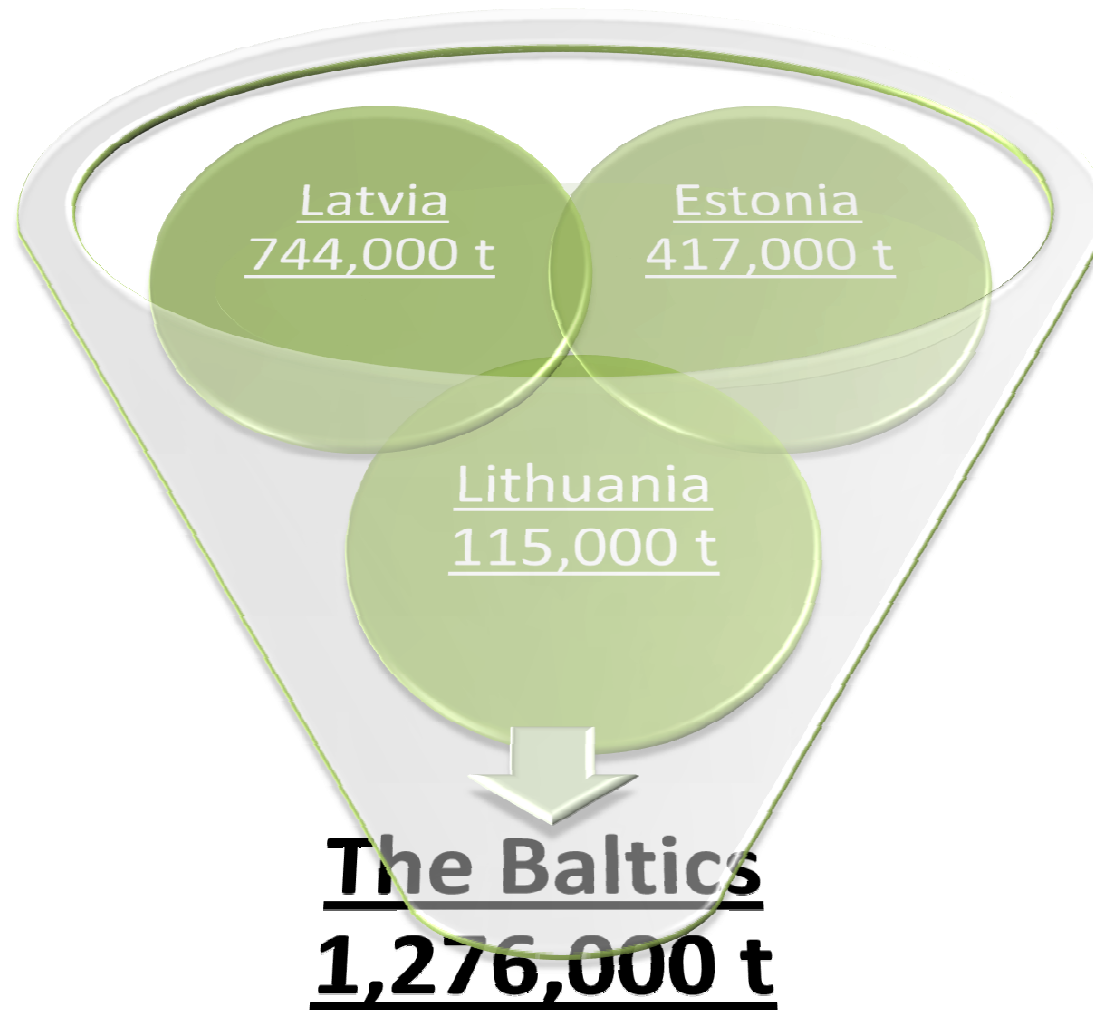
Bertebos Conference 2010 - Sweden, August 2010

Size of average farm (ha)

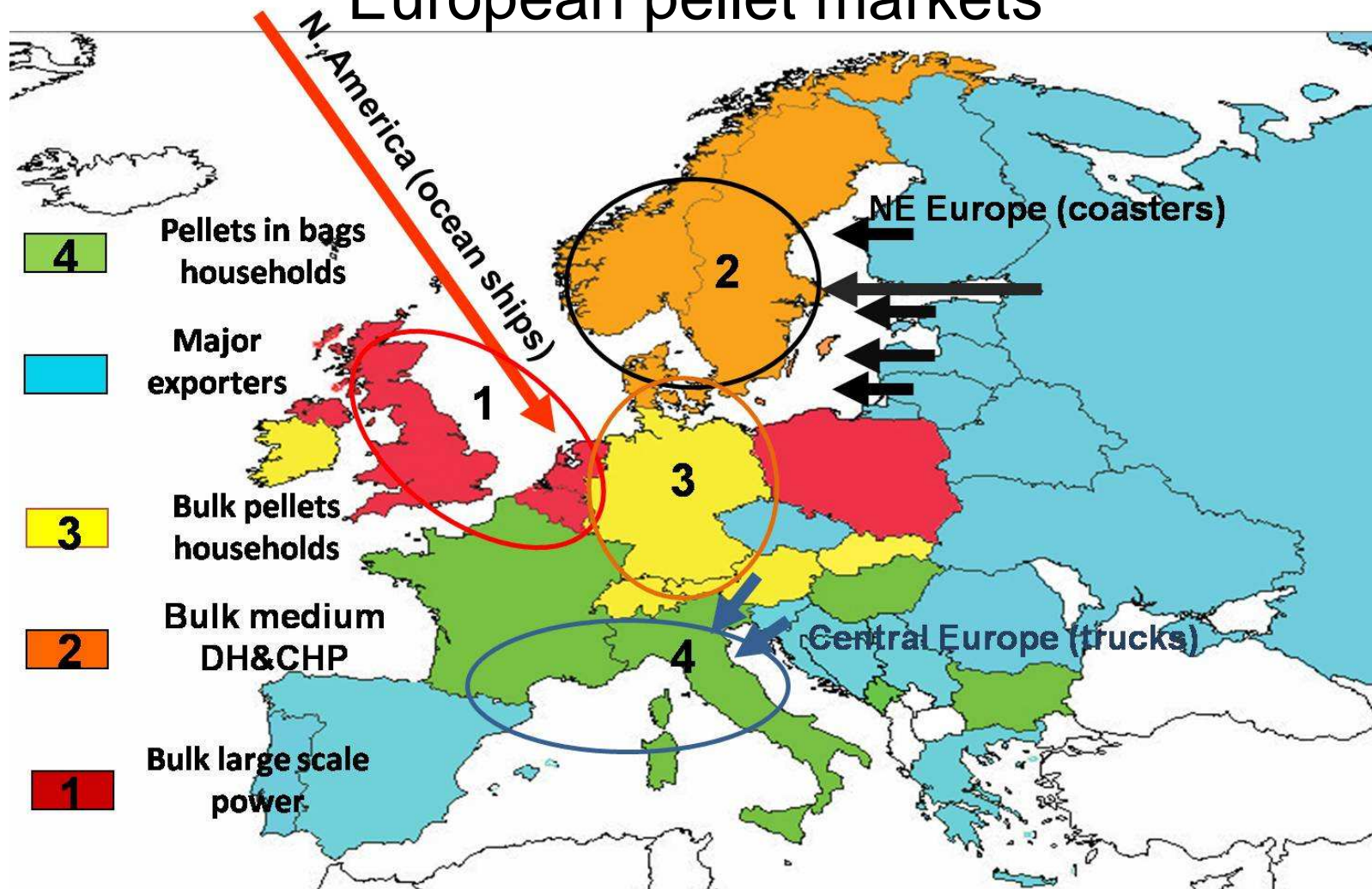


Economically reasonable
size of 300-400 ha
plantation????

Pellet production capacity in the Baltics (2011)



European pellet markets



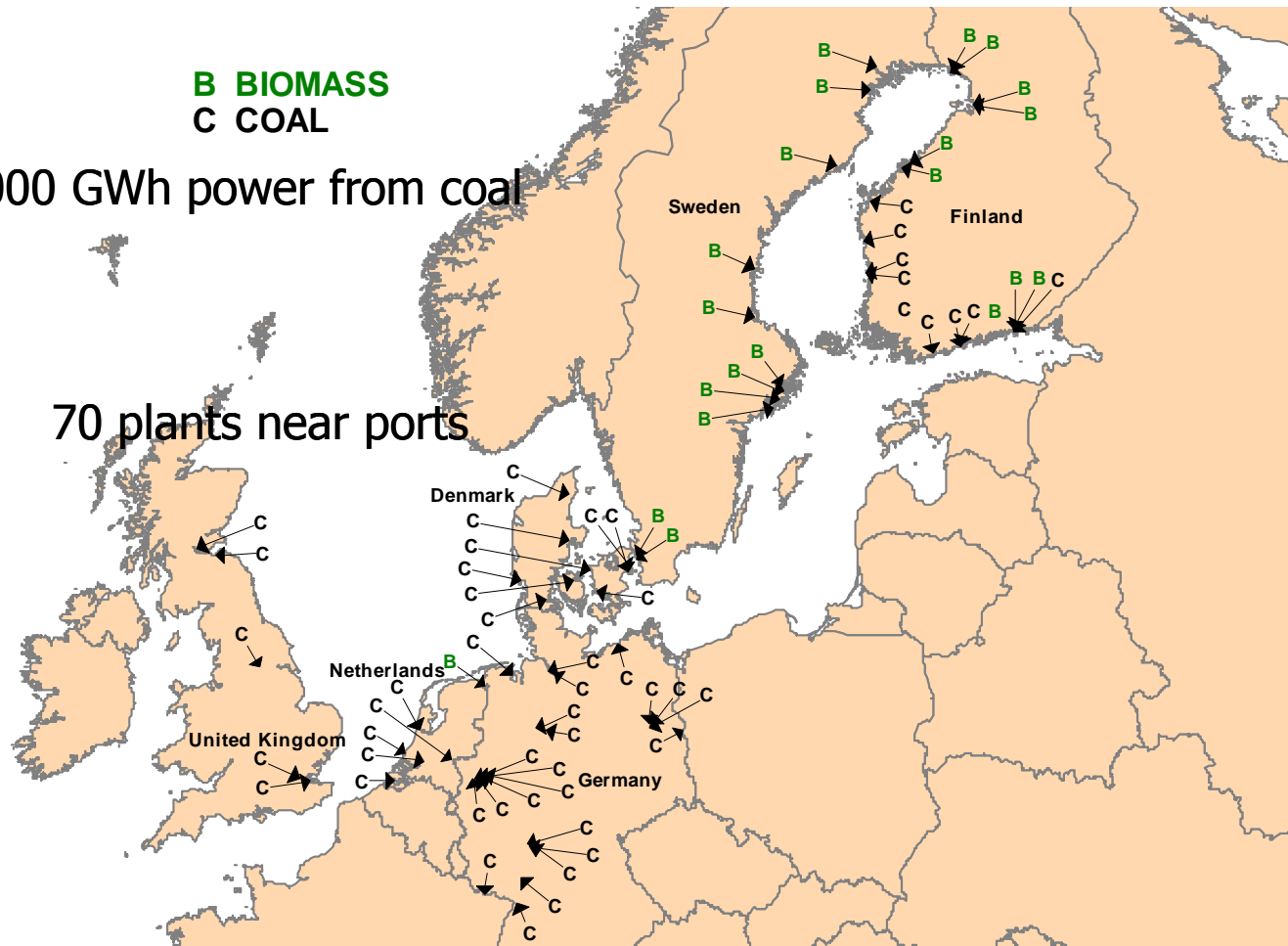
[Sikkema et al, BioFPR, 2011]

Co-firing- Power Plants on Coasts or Coastal Waterways

B BIOMASS
C COAL

EU 860,000 GWh power from coal

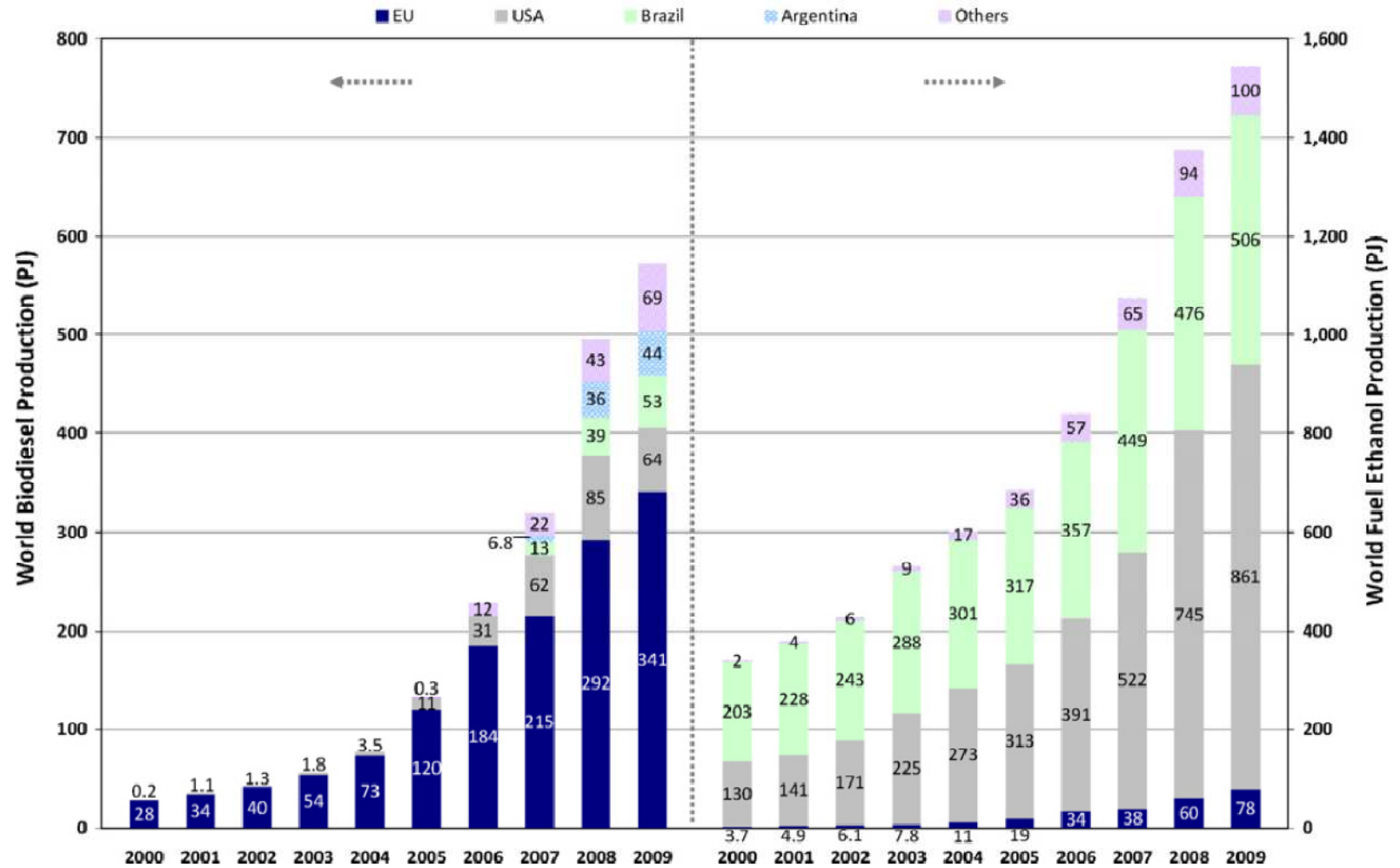
70 plants near ports



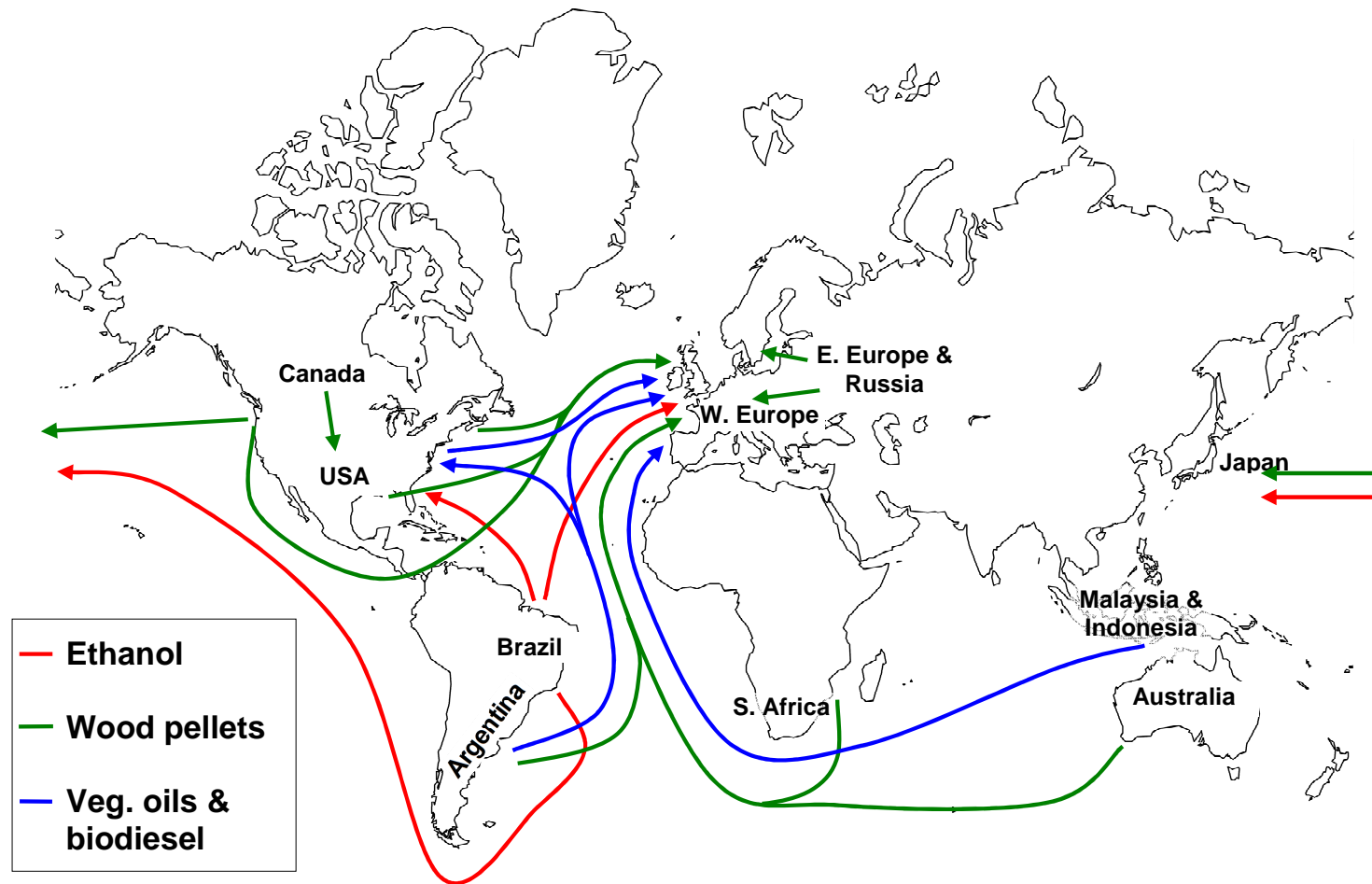


Global

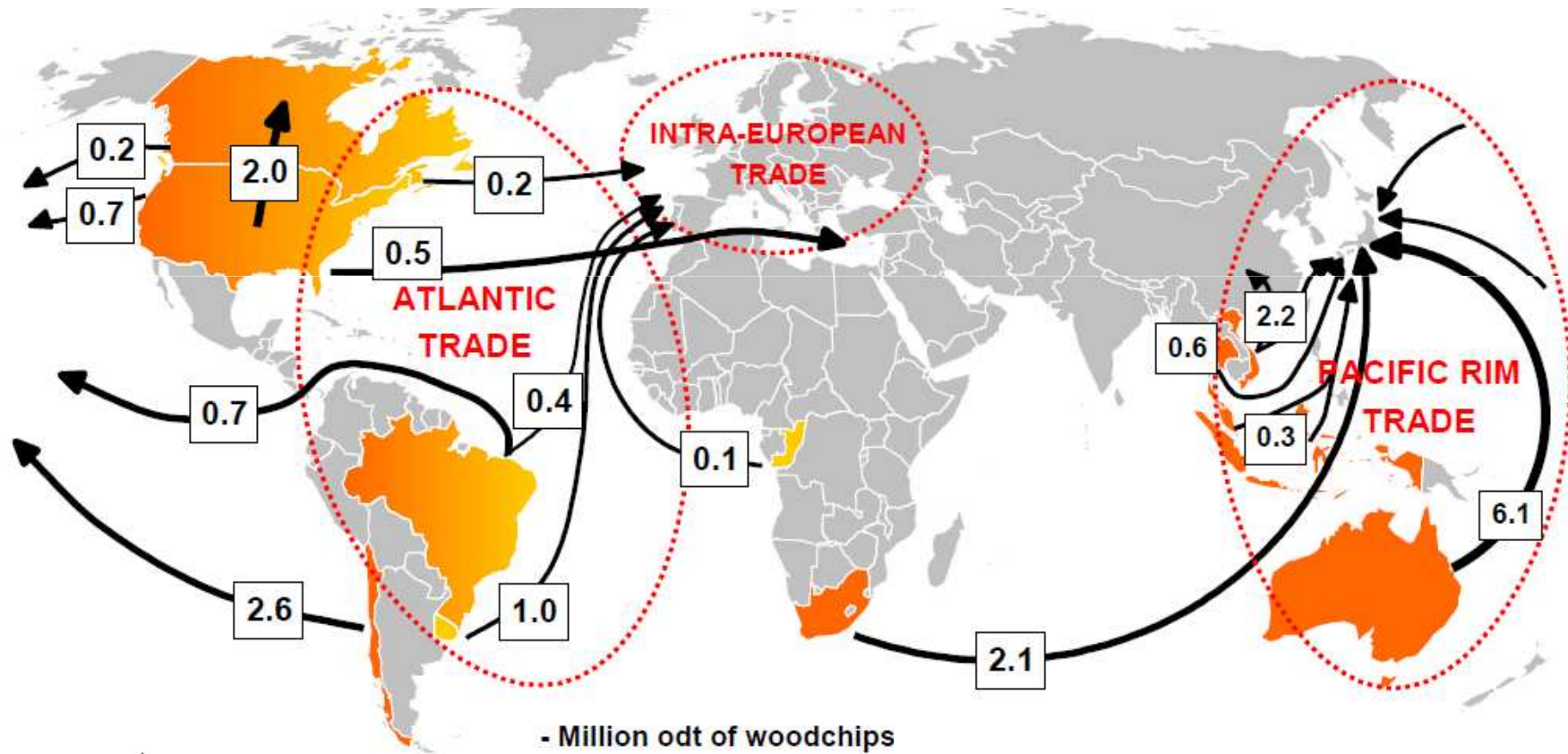
Global Biodiesel & Ethanol production



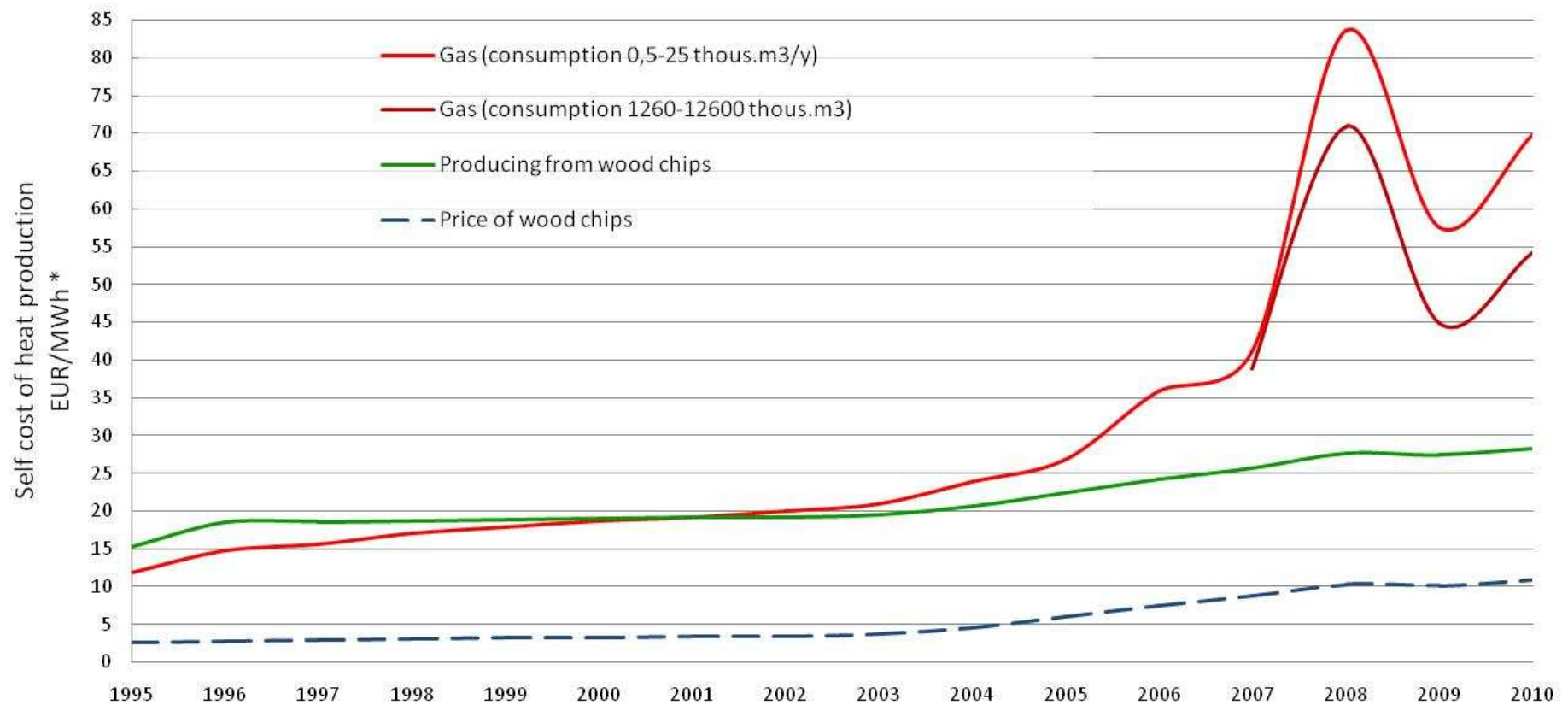
Current main shipping lanes for biomass and biofuels for energy



Global wood chip trade



Comparison between gas and wood chips



Summary & final remarks

- It is quite sure that consumption of both liquid and solid biomass will grow strongly in the near future to match supply & demand
- Sustainability criteria for liquid and likely also solid biofuels will have an increasing impact on supply & demand
- Arrival of new technologies (torrefaction, 2nd gen biofuels) or totally new energy sources may be game changers



Aitäh!

Didzis Palejs

Latvian biomass association LATbio

Tel. +371 299 299 22

e-mail: didzis.palejs@latbio.lv

