



# Assessment of sustainable biomass export potentials from international sourcing countries

## Overview & Synthesis

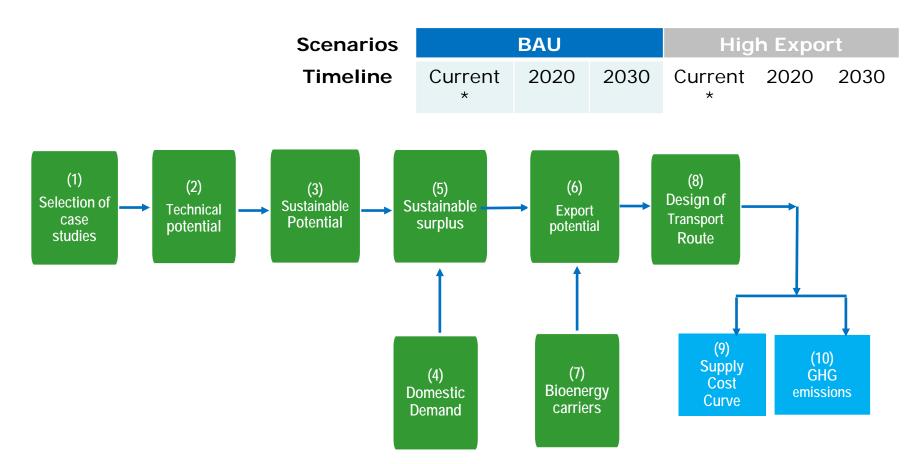
Thuy Mai-Moulin Lotte Visser Prof. Dr. Martin Junginger







### Methodology & Scenario approach

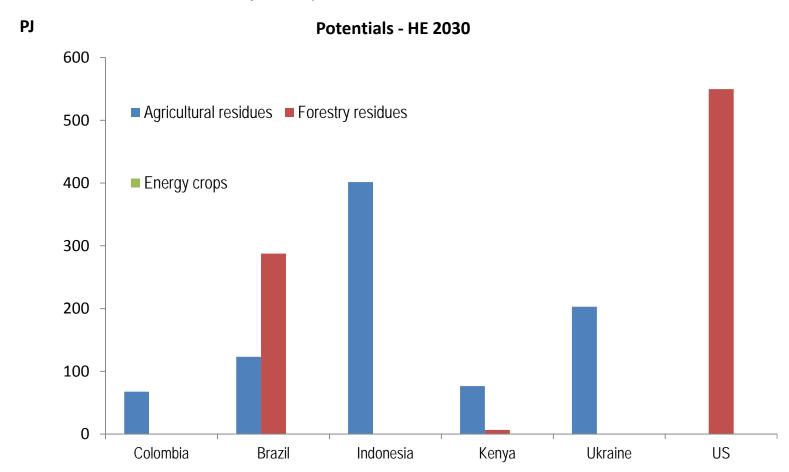






#### **Export potentials over time & scenario**

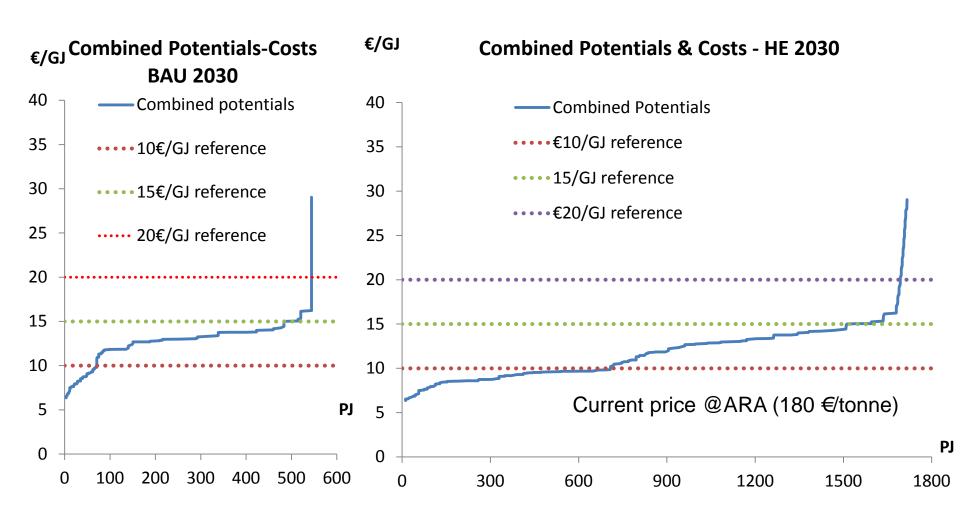
(180 PJ = 10 million tonnes wood pellets)







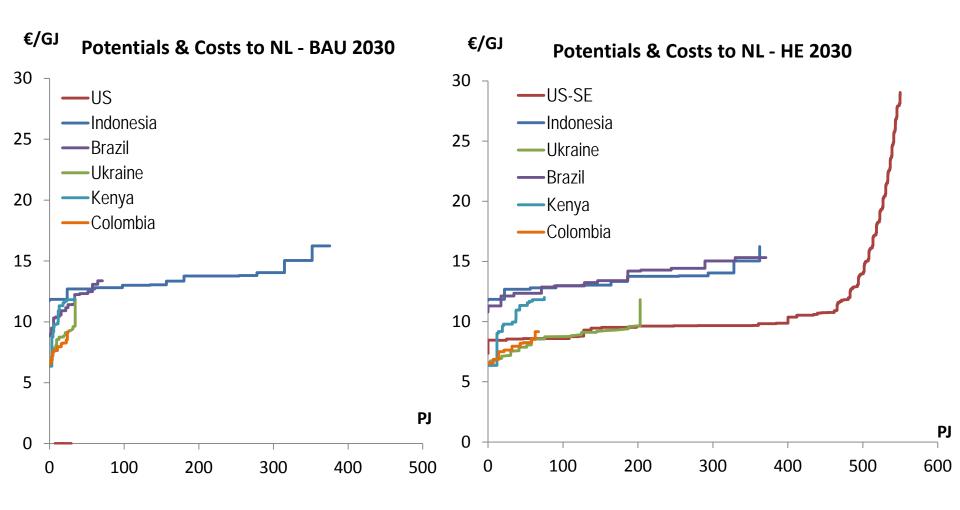
#### III. Global export potentials: costs delivered to EU







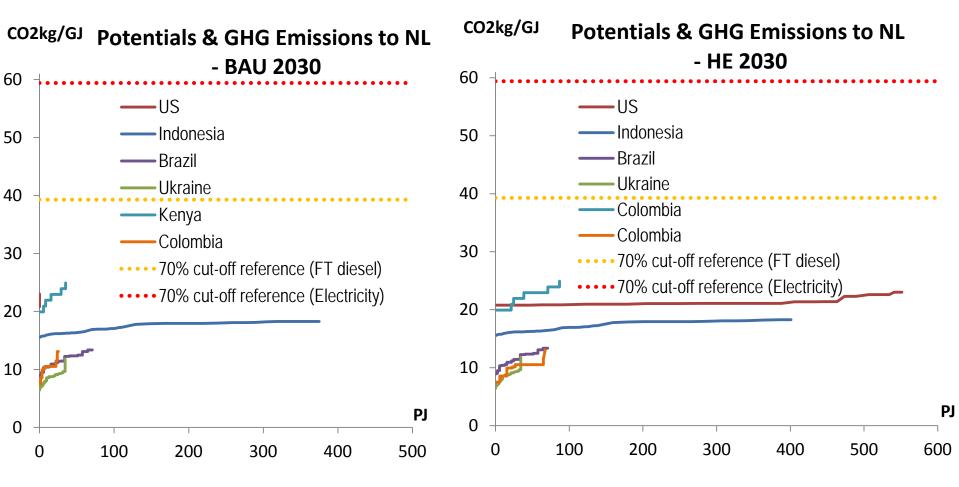
#### I. Export potentials: costs per country







#### I. Export potentials: GHG emission threshold 70%

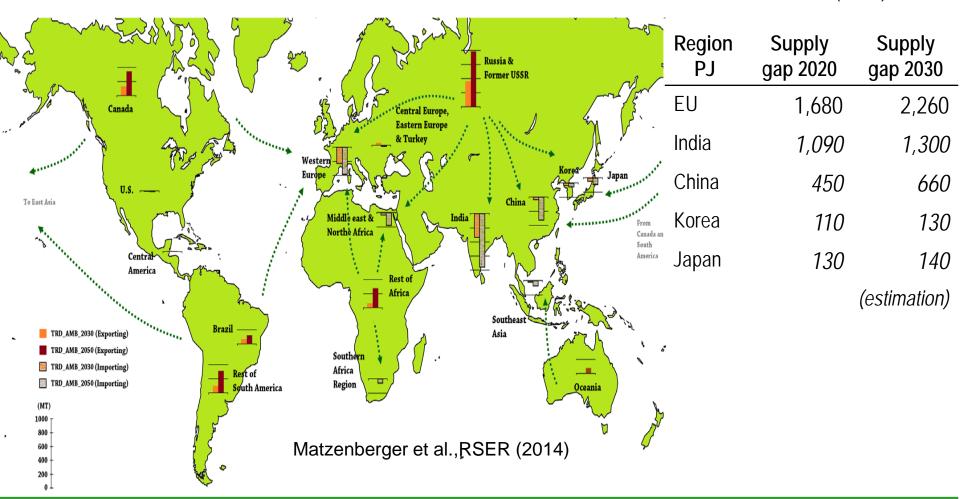






#### Anticipated global demand & supply of biomass

IEA ETP (2014) EURELECTRIC (2011)

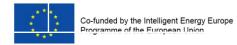




#### **Discussion and Conclusions**



- US South East shows highest export potentials; sustainability requirements are the main limit for the net sustainable export potential by 2030
- In other sourcing regions, the **speed of biomass mobilisation** is the main constraint
- GHG emission thresholds are not an issue, but at current price levels, exports would be limited to 200-600 PJ
- Competing demand from South & East Asia may further limit export to the EU
- **US SE, Ukraine and Colombia** could make significant contributions (200-600 PJ) to fill the EU supply gap
- Not all feedstock types included for all supply regions
- Other promising sourcing countries (e.g. Canada, Mozambique)
  not (yet) included







# Thank You!

**Contact:** 



#### Thuy Mai-Moulin:

<u>t.p.t.mai-moulin@uu.nl</u>, T. + 31 30 253 5392

#### **Lotte Visser:**

<u>l.visser2@uu.nl</u>, T. +31 302535536

#### **Prof. Dr. Martin Junginger:**

h.m.junginger@uu.nl, +31 30 253 7613

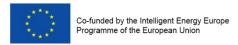




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## Feedstocks considered per case study

Table 1. Summary of countries and feedstock potential.

Country	Feedstock				
	Forest residues	Agricultural residues	Forest plantations	Biomass crops	New forest plantations
Brazil		٧		٧	٧
Colombia		٧		٧	
Kenya		٧	٧	٧	
Indonesia		٧			
United States	٧		٧		٧
Ukraine	٧	٧		٧	