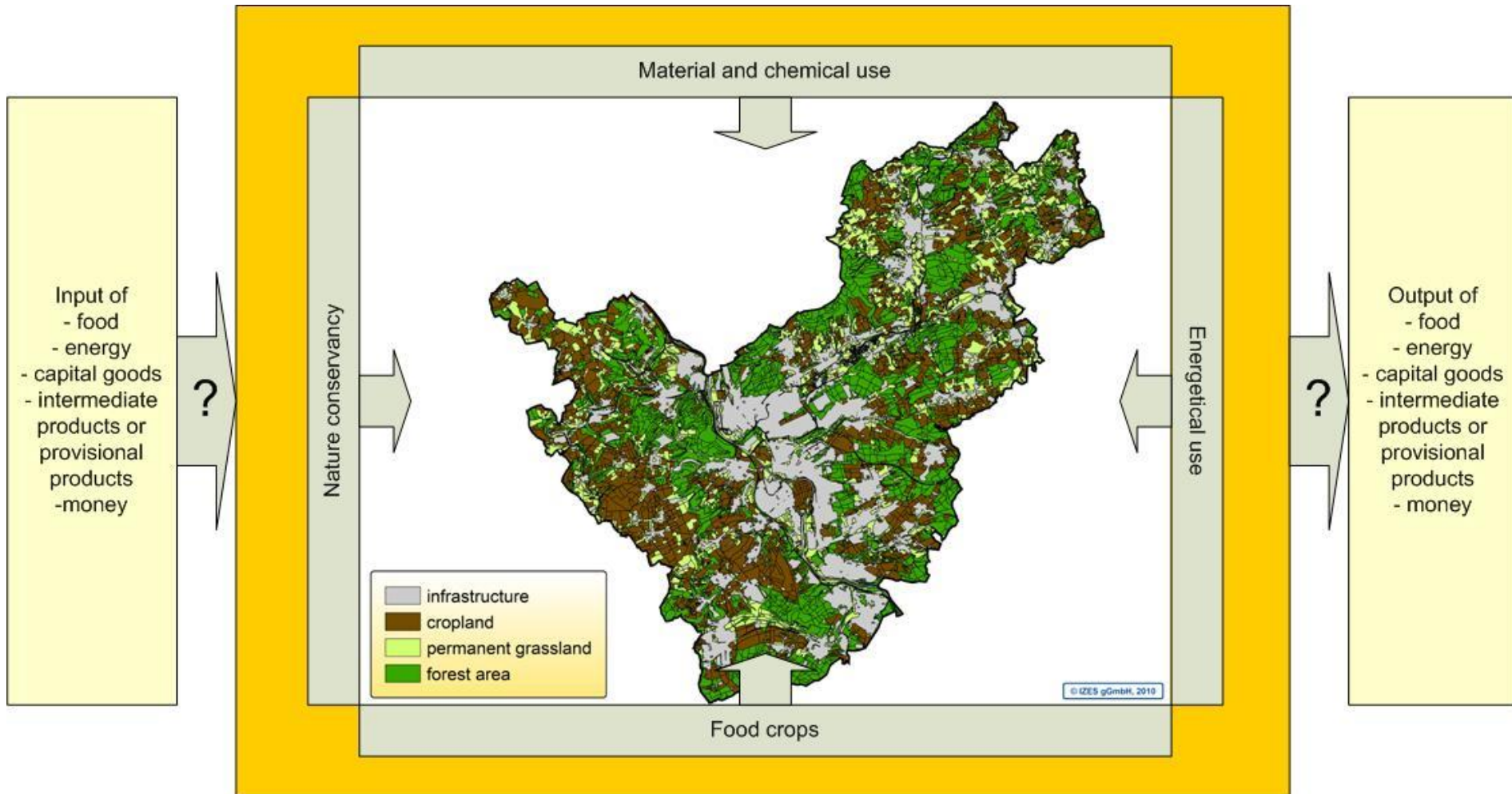


>> ***Methods for planning wood energy projects – assessing the wood energy potential***

Bernhard Wern (IZES gGmbH)

Promotion of Sustainable Wood Energy Value Chains in Development
Cooperation, Frankfurt, 02 of March 2016

Wood energy potential – a systemical view



Wood energy potential - stakeholders

Production and Marketing

- Forestry
- Agriculture
- Landscape management / nature protection
- Woody fractions from private, municipal and industrial greenery cuttings

Harvesting and Transport

- Harvest or maintenance measures carried out in own efforts or by service companies
- Provider of chipping and shredding services
- Delivery and conditioning of waste wood
- Transportation by local (forestry and agriculture) contractors or transregional transport sector

Assembly and Distribution (biomass-facility)

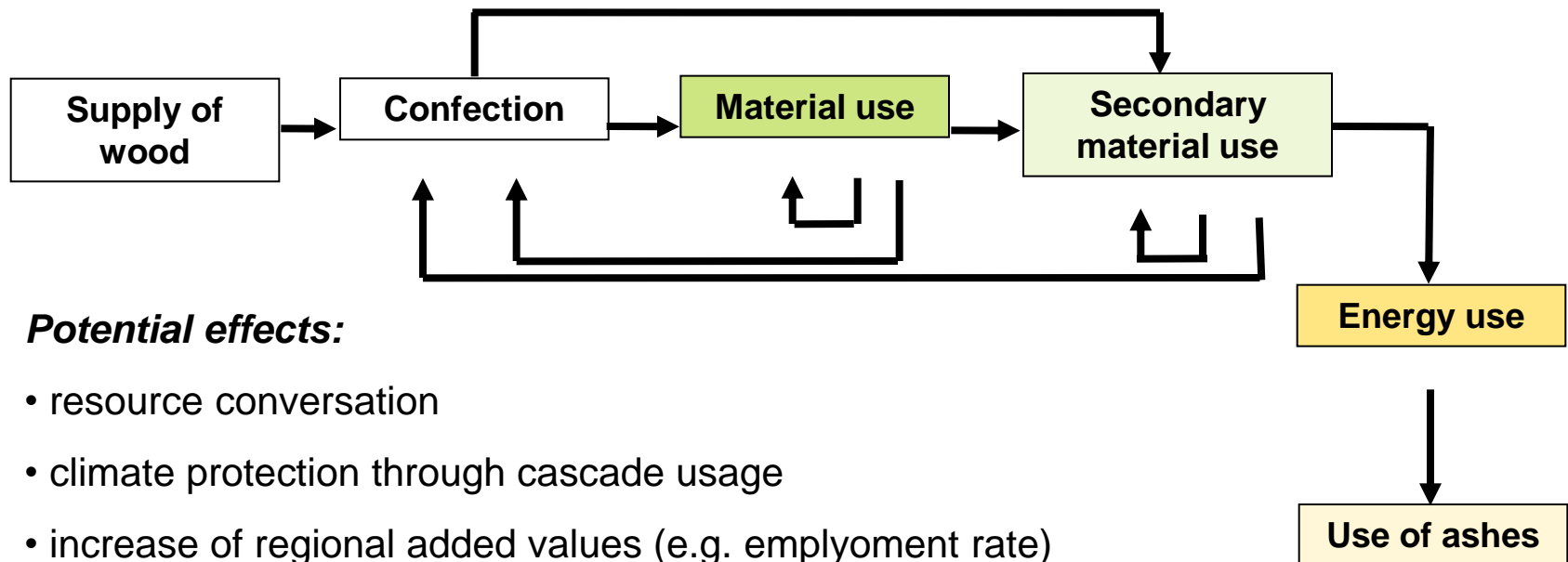
- Chipping or shredding (partly sieving) on collecting point/ biomass facility
- Drying
- Storage
- Distribution and transport of user-optimized fuelwood products

Conversion plant

- Planning and construction of conversion plant
- Heat production (or CHP) by plant operator
- Maintenance and residues disposal

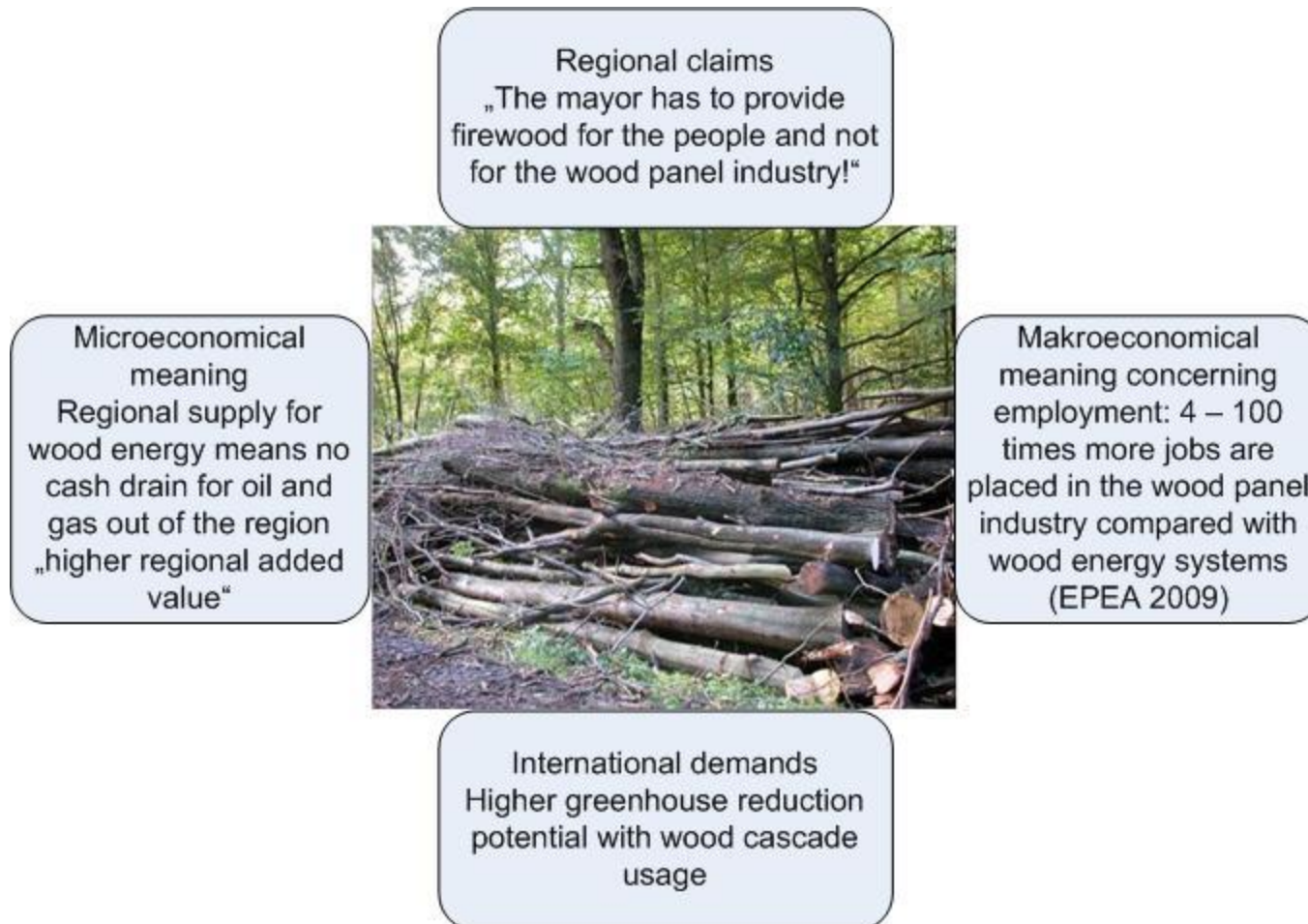
Understanding of wood cascade

Using wood in cascades means: A long-lasting utilisation of wood in the economy. Basis is an ecological assessment and the highest possible added value of the rare material wood (social, ecological and economical).



Potential effects:

- resource conversation
- climate protection through cascade usage
- increase of regional added values (e.g. employment rate)



Guiding principles

Wood as a fuel exhausts the regional potentials taking into account the competition of use concerning the three forestal functions usage, protection and recreation on the base of efficient biomass using concepts.

Field of actions

- Efficient land / soil use
- Efficient using of the resource wood
- Sustainable extension of the raw material pool

Approaches to Measurements

A regional approach is obvious for mobilizing the potentials!

- ✓ Definition of regional barriers: Concerning resources, technics, economy, administration, social requirements, supply related issues, energy demand related issues
- ✓ Stakeholder based analysis to overcome the barriers
- ✓ Set up of measures together with stakeholder

National ordinances are important to frame the regional context (e.g. improvements of separation waste wood)!

In Saarland region: 40 % of the existing wood resources should be mobilized additionally until 2020.



Thank you for your attention!

contact:

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