

Why a focus on transport?

- Economic impact - transport represents 21% of the production costs on average in industrialised countries (Anderson, J. E., van Wincoop, E., 2004, *Trade Costs*, Journal of Economic Literature).
- Social impact – Willingness to integrate noise, congestion and health-related costs in calculation of infrastructure charges (amendment of Directive 1999/62/EC in May 06).
- Environmental impact - In the EU, transport sector accounts for 70% of all petrol consumed and generates 21% of all GHG (ECORYS Nederland BV, 2008).

Approach

- **Transport** can be defined as the movement of goods from one place to another.
- **Logistics** is the management of the flow of goods, information and other resources between the point of origin and the point of consumption.

EFORWOOD involves to quantify the sustainability impact of the FWC processes.

The logistics approach does not match with the projects methodology but some of its elements have substantial sustainable impacts (modal split, empty-backhaulage...).

In this context, the “EFORWOOD transport” is defined as a movement of goods from one place to another integrating major logistics variables.

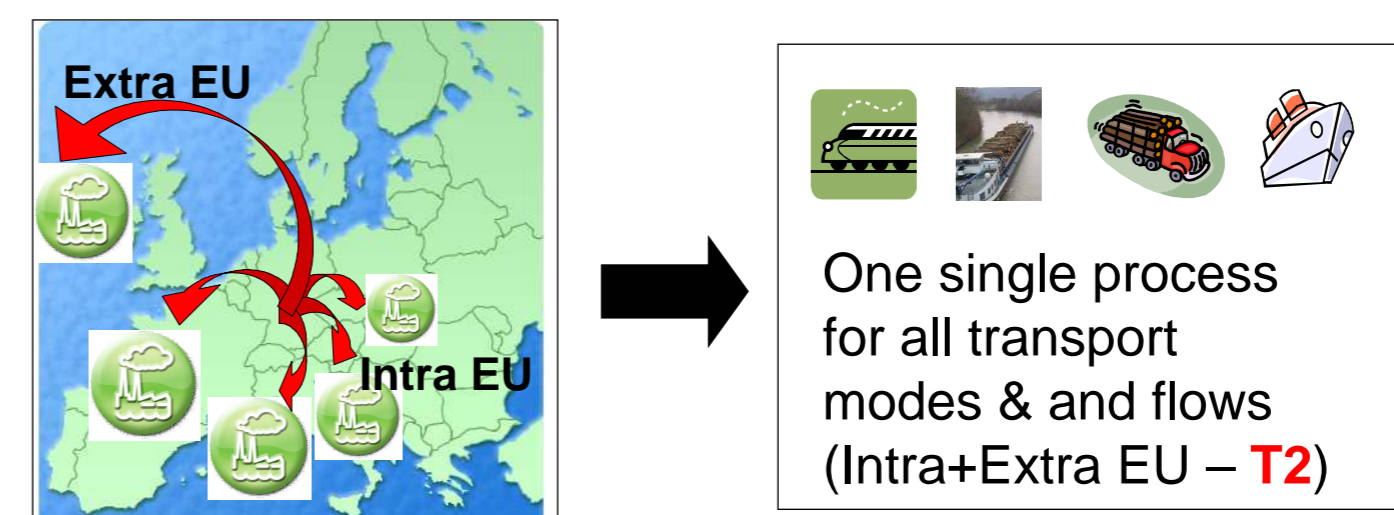
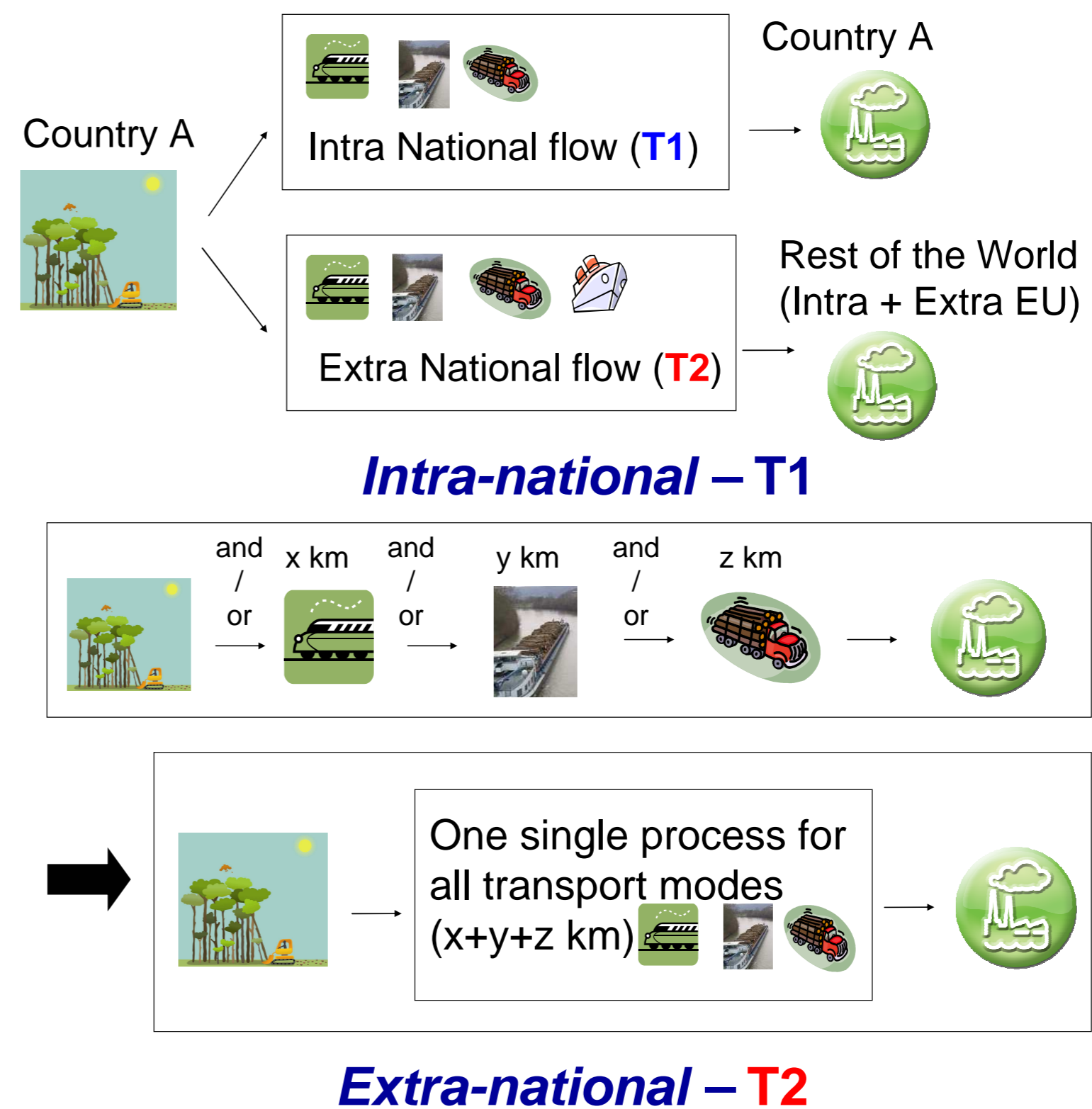
Transport modes

Transport Mode	Module
Road (Max Gross Weight)	
60 tons	3
40 tons	3-4-5
26 tons	3-4-5
13 tons	4-5
9 tons	5
2,7 tons (Van)	5
Train	3-4-5
Inland Waterways	3-4-5
Short Sea Shipping (SSS)	3-4-5

Reference futures (2015-2025)

- ▶ *Main assumptions (lower in A1 than B2):*
 - ↗ Freight (in tonne-kilometre)
 - Modal split changes:
 - Share of road
 - ↗ Share of rail, Inland Waterways & SSS
- ▶ *Assumption (similar in A1 and B2):*
 - ↗ of efficiency in energy consumption

Flows



Transport tools

Two transport tools (Excel sheets) have been designed in order to estimate indicators for intra and extra national flows for 2005, 2015 and 2025. With a limited number of input data, the tool estimates economic, social and environmental indicators.

Intra-national Transport Tool

Input data (Minimum):
Country of reference
Product carried
Module
Road vehicle type

Extra-national Transport Tool

Input data:
Volume flows from country A to each EU countries & the rest of the World (as a whole)

