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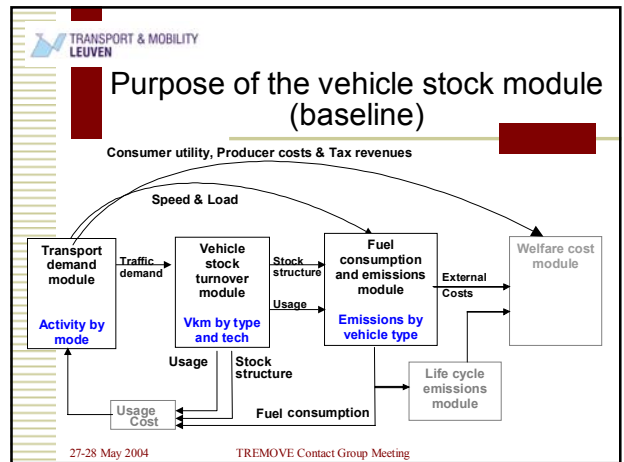
TREMOVE Contact Group Meeting

27-28 May 2004

The Vehicle Stock Module in TREMOVE

Focus on baseline modelling
(Bart Van Herbruggen)

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Purpose of the vehicle stock module (baseline)

Baseyear
Disaggregate demand module activity data to activity data by vehicle type and technology

Forecast
Disaggregate demand module activity forecast to activity forecast by vehicle type and technology

- ✓ 1996 - 2003 consistency with observations
- ✓ Level of disaggregation ~ available emission factors

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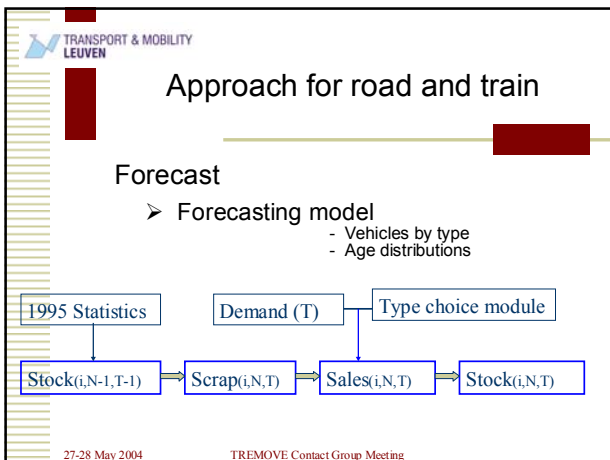
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Approach for road and train

Baseyear

- National vehicle fleet statistics available
 - EU-wide and consistent sources
 - Vehicles by type
 - Age distributions
- Activity linked to fleet statistics

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Approach for iww, maritime, air

Baseyear

- Link with national fleet statistics infeasible
 - International markets and fleets
 - Not vessel turnover, but engine turnover is relevant
- Activity linked to movement by type data
 - Inland Waterways : 1995, 2000 NL statistics
 - Air : 2000 EUROCONTROL statistics
 - Maritime : 2000 LLOYDS statistics

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Approach for iww,maritime,air

Forecast

- Inland Waterway :
 - NL fleet composition forecast
 - Waterway network development
- Air : assumed constant fleet composition
- Maritime : assumed constant fleet composition

Air fleet modelling

- ◆ 5 distance classes :
 - 0 - 500 km
 - 500 - 1000 km
 - 1000 - 1500 km
 - 1500 - 2000 km
 - 2000 - ... km
- ◆ Constant emission factor (g/pkm)
 - ➔ Thus constant fleet composition by distance class

Fleet evolution modelling has been studied, but lack of data and behavioural parameters

Approach for tram and metro

- ◆ No vehicle stock modelling
- ◆ Direct link

