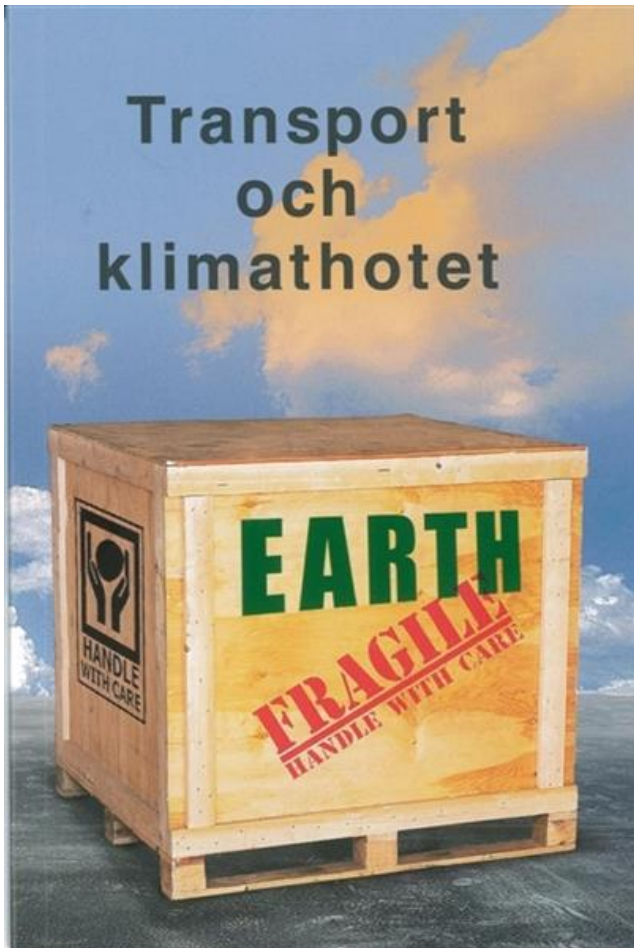




Decarbonising heavy-duty road transport



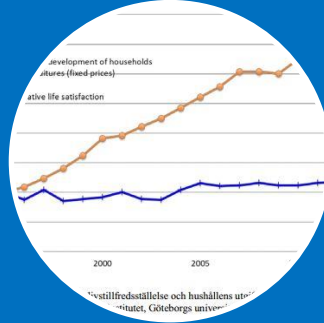
**GREAT and HyER Seminar
Brussels 2018-01-31**

**Ulf Jarnefjord
STWU**

Sustainability's three pillars



Ecological



Economic



Social

Decarbonising heavy-duty road transport



Starting Point

recognize the UNFCCC reports

- It has been evident for many years that humanity is heading towards an environmental catastrophe if it does not drastically reduce greenhouse gas emissions.
- The STWU and ITF believes that the climate threat must be taken seriously and that work to reduce emissions should begin now.
- STWU members find themselves in the epicenter of the debate on climate change and transition.



The road haulage industry is in a total morass

- Low profitability – barrier to investments in new technology
- Extremely cheap transport and social dumping
- False self-employed drivers
- Illegal cabotage and combination traffic
- Disconnection of the Adblue system
- Cooking oil / lubricating oil and mixed with kerosene
- Rolling illegal repair workshops
- Lack of traffic police with knowledge of trucks



Cabotagestudien

A study on cabotage and international trucks in Sweden
Dr. Henrik Sternberg, Lund University - Faculty of Engineering 2013

- The study clearly shows that thousands of foreign trucks never or rarely leave the country.
- The results also indicate that several of these trucks most likely are not involved in traffic that can be categorized as combined transport, or traffic that is carried out with a CMR consignment note.
- Has large negative environmental effects.
- Endangers the Swedish goals of reducing CO2 emissions.

How can we reduce emissions in freight transport?

There are 4 main ways to cut freight CO₂.

**1. REDUCE
the amount
of freight
moved**

**2. SHIFT
freight from
trucks to
rail and
inland
navigation**

**3. IMPROVE
the energy
efficiency
of trucks**

**4. USE
renewable
energy**



Alternative fuels

- No silver bullet solution
 - Different solutions in different parts of Sweden /EU
 - City centers – Countryside - Main highways
1. Electrification of roads in combination with batteries and biogas
 2. Hydrogen and fuel cells
 3. LNG (natural gas = fossil) ?



Thanks for Listening



ITF CLIMATE CHANGE CONFERENCE **MEXICO CITY**
4 AUGUST 2010

DISCUSSION DOCUMENT

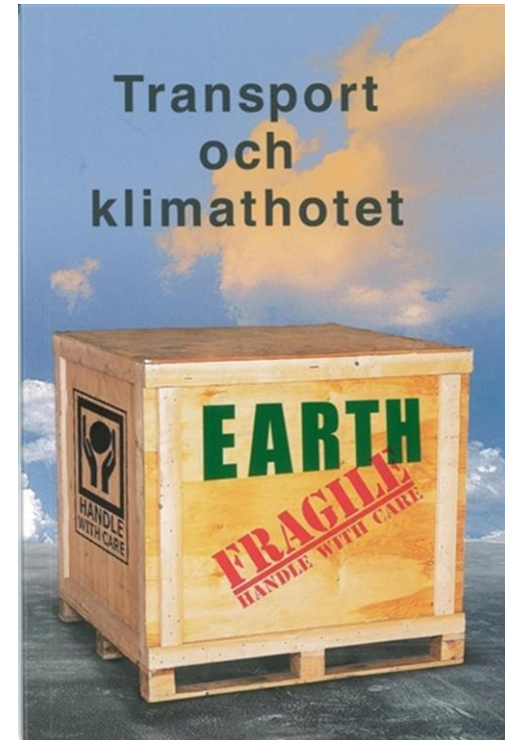
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