

Projektträger
Mobilität und Verkehr
Bauen und Wohnen des

bmb+f

Significance of Commercial Urban Transport in Germany

EPTR/BESTUFS Workshop

28. April 2003, Dublin

Ulrich Schüller



Background



- **Strong increase of urban trade in the last decade**
- **Efficiency of urban transport determines economic prosperity**
- **Lack of solid data basis**
- **31% of total vehicle-km are commercial urban transport**
- **25% of urban transport is trade related (40% freight and 60% services)**



Split of urban LKW-trips related to purpose

Puopose of driving	Split of the LKW-trip in %
delivery	50-60
pickup	30
disposal	25-30
circulation	65
local traffic	80
long distance traffic	20
deadhead	15-30



Problems in urban areas



1. High noise and particulate emission
2. Parking on roads → affects traffic flow
3. Dis-/charging cargo in urban areas
4. High attrition of roads
5. Commuter traffic in the peak hours
overlays commercial urban transport →
congestion



“Optimising Transport in the Waste and Recycling Sectors”

EPTR/BESTUFS Workshop

“Commercial Urban Transport”

28. April 2003, Dublin

Oliver Althoff



Background

- 1994: law regarding waste and recycling management (KrW-/AbfG)
 - effect: significant increases of related transport demand (e.g. increased waste separation, closing waste site)



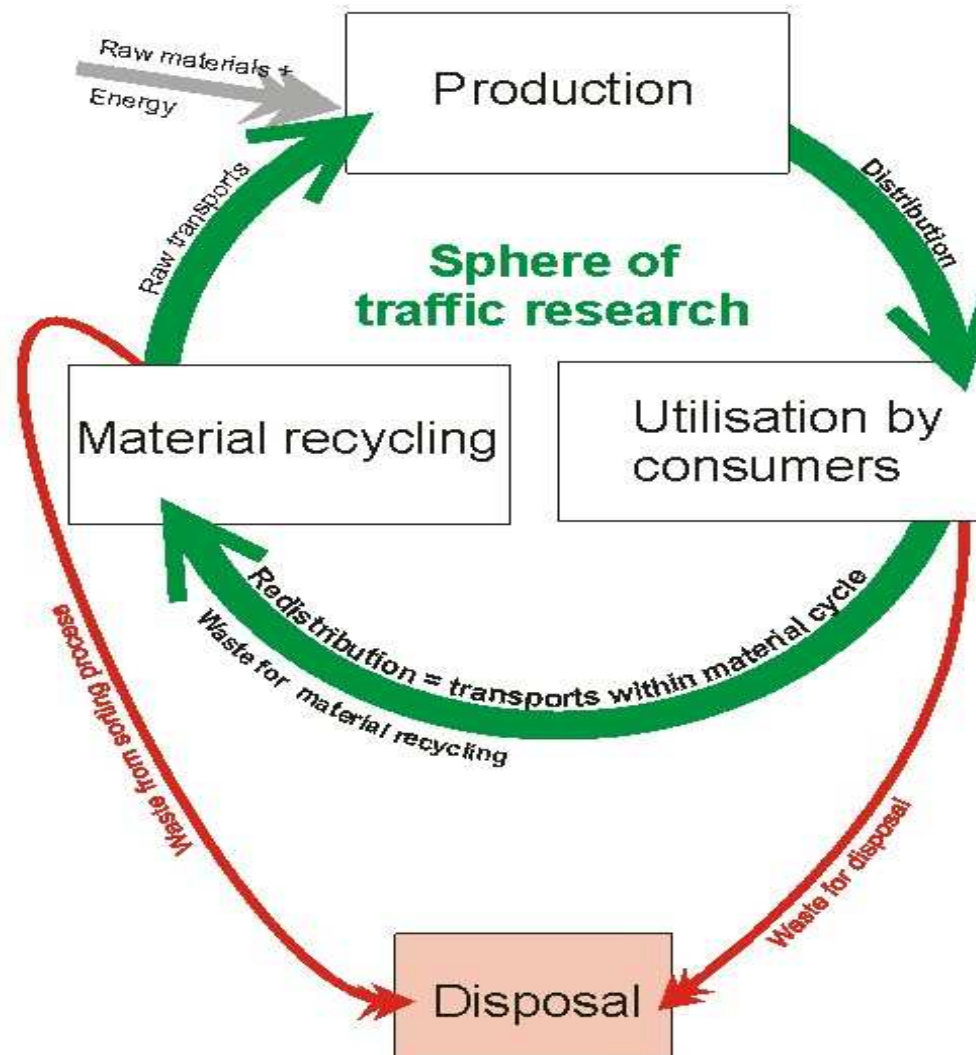
Increasing transport diminishes the intended environmental improvement effect .



Promotion of new projects



Material cycle



Research objectives

- **Prevention of traffic**
- Supporting **modal shift** from road to rail
- Development of waste and **recycling-networks**
- Development of **innovative** automotive-, handling- and container-**solutions**
- Improvement and **integration of existing logistic-resources** in waste management (e.g. ports, freight villages)



Addressed organisations

- Industry
- Trade
- Recycling companies
- Transport companies
- Logistic service providers
- Regional authorities
- Associations of recycling companies
- Scientific/technical institutes

mostly SME



Result of the call

Proposals received: 87

Selected for funding: 24



Selected projects can be classified as follows:

- Rather theoretical research focus 2 projects
- Handling- and container engineering 3 projects
- Intermodal transports for waste disposal 7 projects
- Efficiency of road transport 12 projects

24 projects



Costs and Duration

- **Total Costs :** **17.3 Mio. EUR.**
 - The **Federal Ministry** of Education and Research (BMBF): **11.3 Mio. EUR (65%)**
Project partners: 5.7 Mio. EUR
 - Durations of projects: from 1 to 4.5 years



Examples of projects

EVA

Objectiv

Support modal shift from road to rail
Support of intermodal transports

Approach

Development of moving-table
→ Enables use of roll-off-container

Effect

Easy horizontal *and* vertical loading
of containers from truck to rail.
No need for gantry cranes
Usage outside of freight station



Example of projects

OPTRANS

(„Optimizing Transport of plastic packages“)

Objective

Supporting modal shift (from road to rail/waterways)

Reduction of vehicle-km on roads

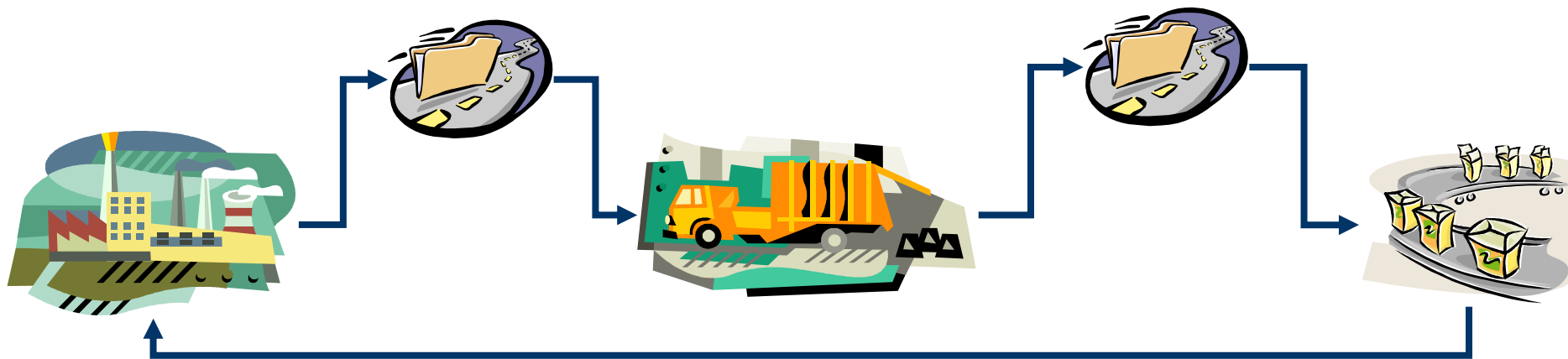
Approach

Provision of real-time information

Effect

Optimising route choice on roads

Optimising efficiency of road vehicle usage



Reduction of vehicle-kilometres

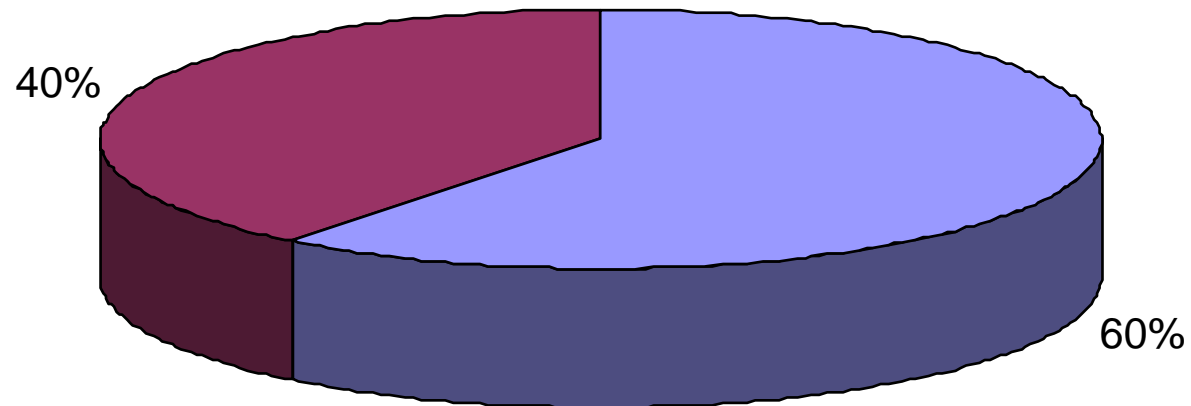
- Projection of field research for reduction of vehicle-km p.a.
 - Optimising transports for waste disposal 4.3 Mio. vkm
 - Combining transport for delivery & disposal 5.7 Mio. vkm
 - Developing information platforms 0.5 Mio. vkm
 - New planing instruments 6.2 Mio. vkm
-
- 16.6 Mio. vkm**



Modal shift

■ shifting to rail

■ shifting to waterway



total: 4.3 Mio. v-km/a



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Thank you for your attention!

