Pilot Accounts for Germany Policy implications

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- 1 What are the UNITE pilot accounts?
- 2 A few methodological remarks
- 3 Results for Germany 1998
- 4 How to use and interpret the pilot accounts?

Full report: Link et al. (2001) The Pilot Accounts for Germany and Switzerland. Deliverable 5 of the UNITE project funded under the 5th Transport RTD Programme of the EU. Berlin.



1 What are the pilot accounts?

Quantitative comparison of total (average) social costs and revenues (taxes, charges) of transport modes on a national level

Strategic/monitoring instrument regarding the development of costs, financial taxes balance, level and structure of prices

Empirical basis for in-depth policy analysis rather than for immediate price setting policy

General design of the accounts

Costs	Revenues	
	(Directly related to a specific cost category)	(Other transport specific revenues)
Infrastructure costs	Charges for infrastructure use	Annual circulation tax Fuel tax Eco tax VAT
Supplier operating costs	Subsidies for concessionary fares User tariffs	
(External) accident costs		
Environmental costs		Subsidies
Air pollution		Loss of revenues due to
Global warming		tax exemptions/reductions
Noise		Non transport related
Congestion costs (delay costs)		revenues
(Internal) accident costs		

The modes, networks, transport means and user groups breakdown - Germany

Transport modes	Network & institutional differentiation	Means & user breakdown
Road	Motorways	Motorcycles
	Other federal roads	Passenger cars
	Other roads	Light goods vehicles
		Heavy goods vehicles Rigid Non-rigid
		Special & agricultural vehicles
Rail	National rail (DB) Other rail (non-DB)	Passenger transport Regional Long-distance Freight transport
Other public transport		Tram, metro, trolley buses
Aviation	Airports	
	Air transport	
Inland waterway shipping	Inland waterways	
	Inland waterway harbours	
Maritime shipping	Seaports	



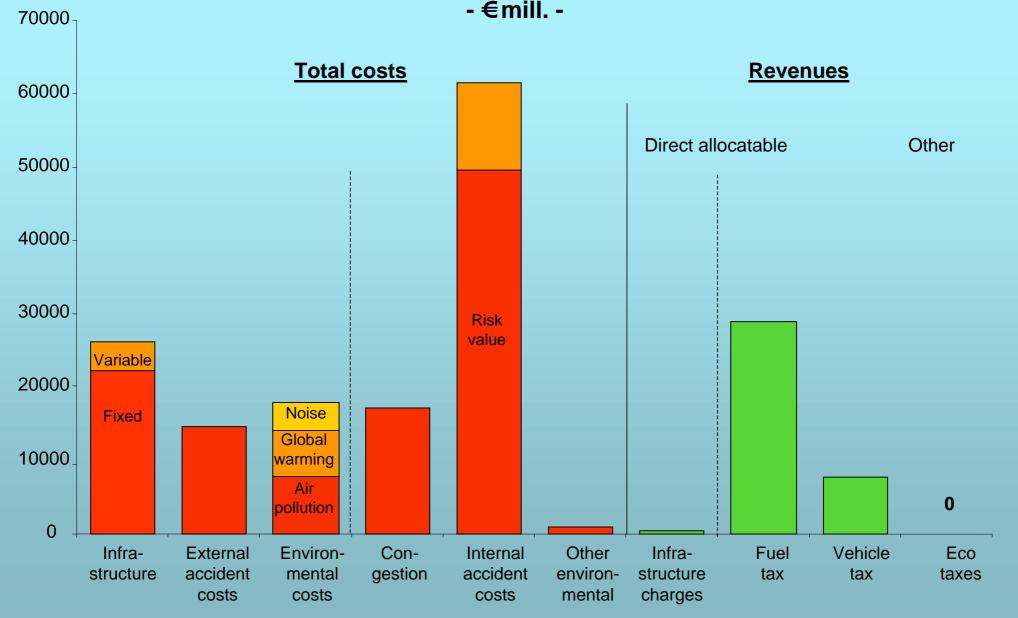
2 A few methodological remarks

➤ The cost estimation for the UNITE accounts has used the best methodologies and data currently available

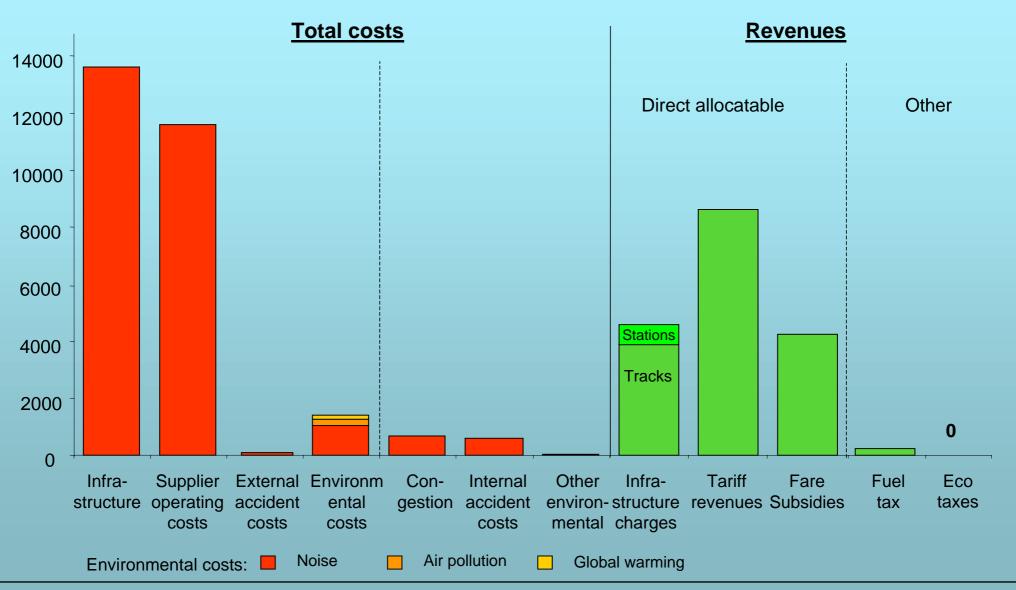
- Basic methodologies include findings from:
 - DIW infrastructure cost methodology (capital stock model)
 - ExternE (impact pathway approach, EcoSense model, air quality model, exposure-response functions)
 - ♦ INFRAS/IWW 2000
 - state of the art estimates on VOT's, Risk values, etc.

3 Results for Germany

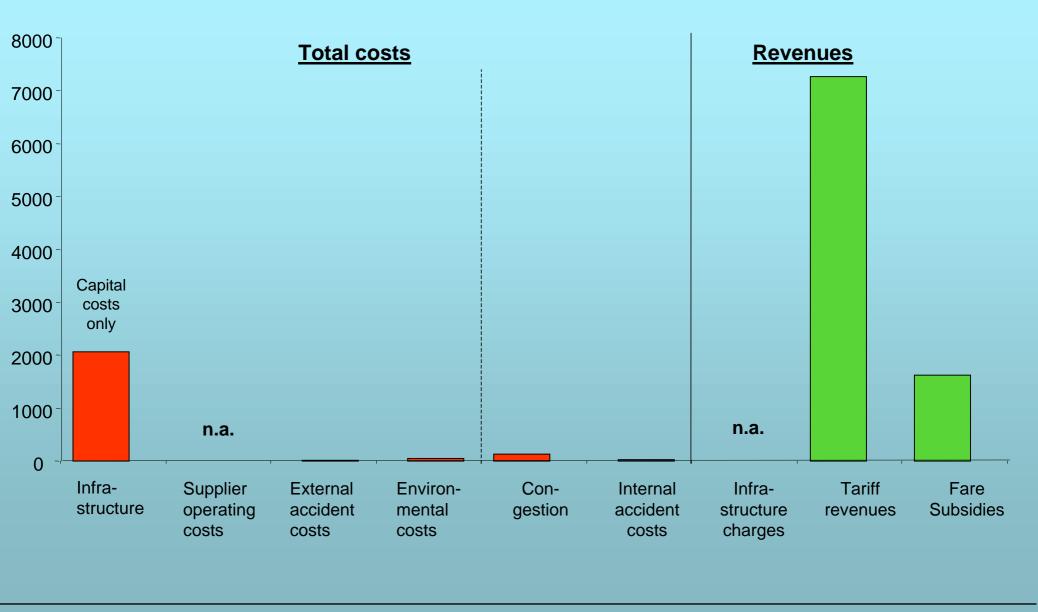
Aggregated road account for Germany 1998 - € mill. -



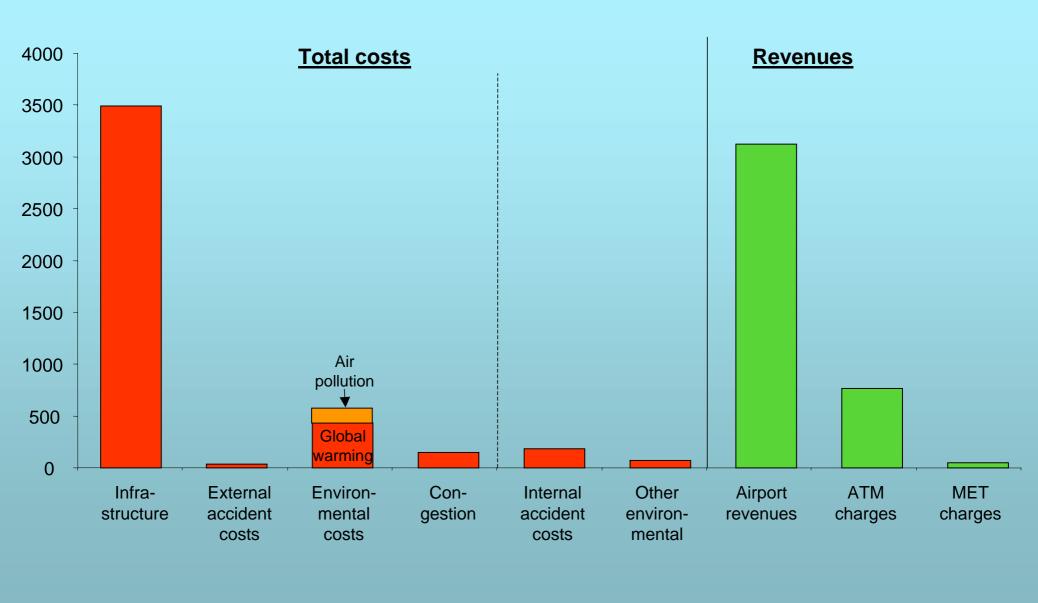
Aggregated rail account - DB for Germany 1998 - € mill. -



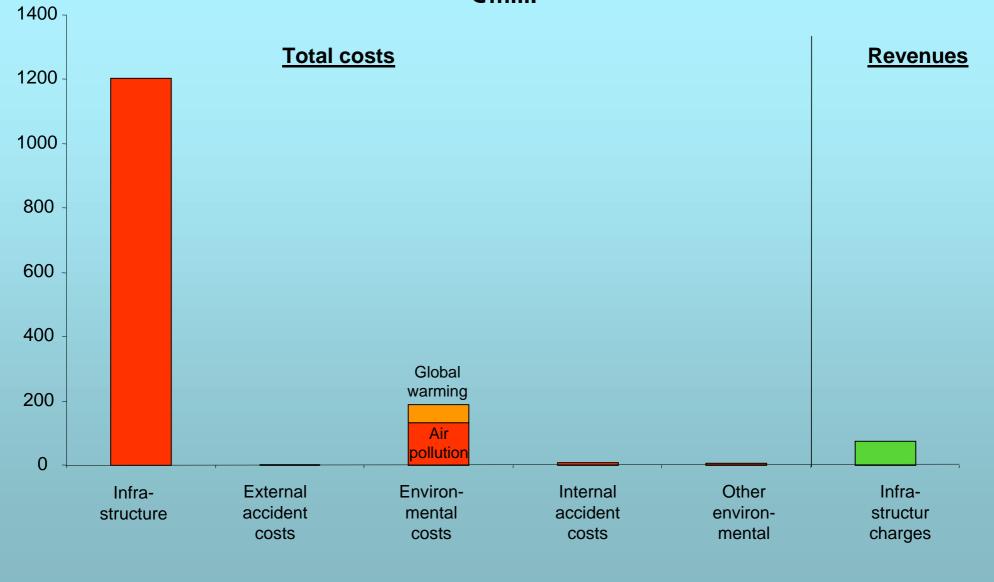
Aggregated account for tram, metro and bus operators Germany 1998 - € mill. -



Aggregated Aviation account for Germany 1998 - € mill. -



Aggregated Inland Waterways account for Germany 1998 - € mill. -



4 How to use and interpret the pilot accounts?

First best pricing rules refer to marginal cost pricing → What is than the rule of the UNITE pilot accounts?

1) Equity

Dimensions of equity	Use of the (German) pilot accounts
Modes	✓
Individual transport users	
User groups defined by income classes	Area of future development
Vehicle classes (HGV versus passenger cars)	
Country	✓

⇒ Contribution to the policy discussion on the level of HGV charging in Germany



2) Efficiency:

Cost recovery as a binding constraint → second best pricing rules require:

- knowledge on total costs to be covered
- Monitoring to avoid overcharging
- Information on fixed costs to indicate if subsidies for fixed costs are worthwhile
- ⇒ Contribution to the debate on rail track access charges of German rail

3) Financial viability:

(if cost recovery is binding)

- Knowledge on total costs to be covered is essential for regulators (rail!) and governments.
- Knowledge on deficit occurring with marginal cost pricing is essential for subsidy negotiations!
- ⇒ Contribution to the debate on rail track access charges of German rail

