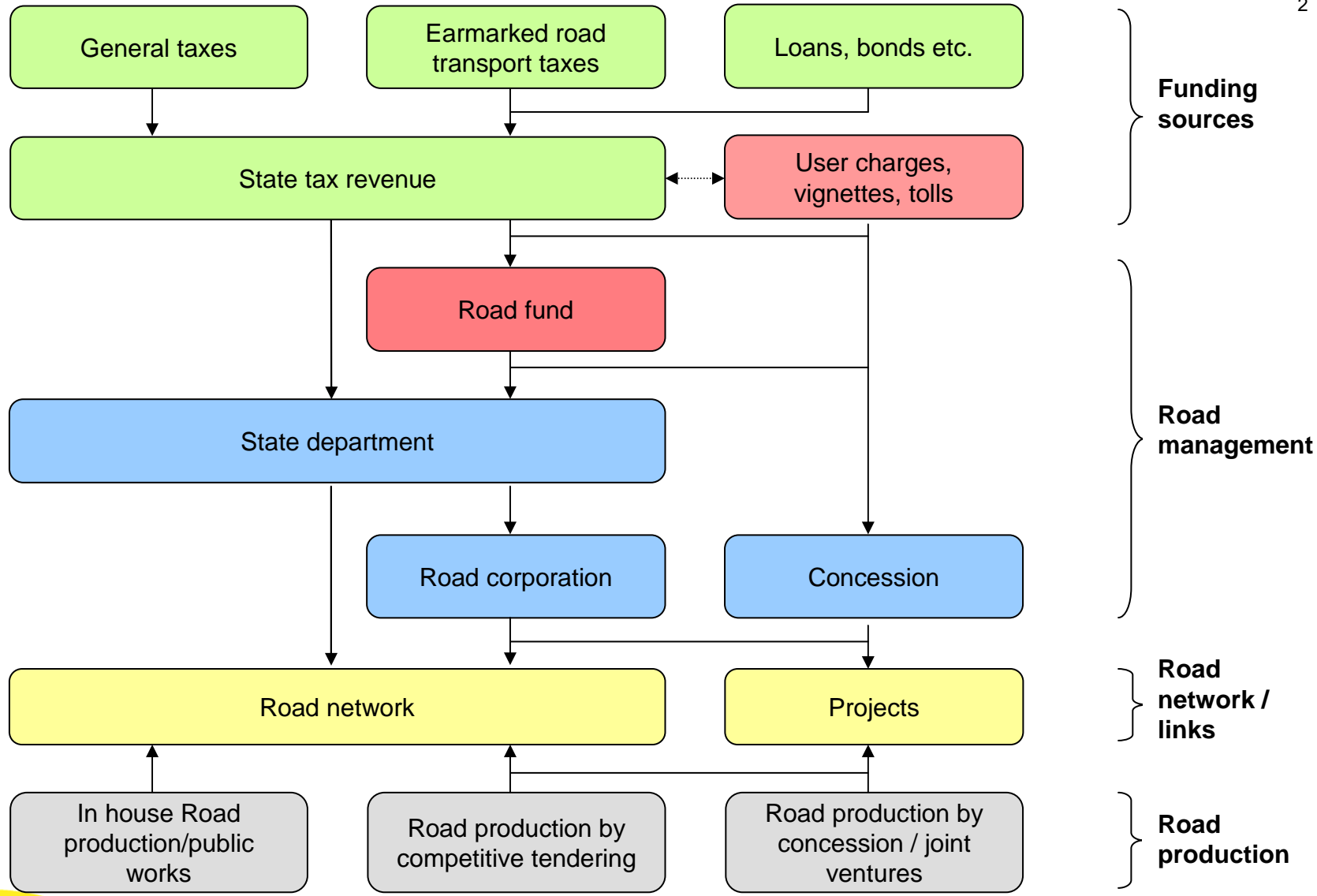


The relative costs of different funding mechanisms, and means of mitigating this

Jani Saarinen

Financial Director, Finnish Road Administration



The relative costs of different funding mechanisms

- General taxation of transport
 - + cost of taxation = 0-4 % (motor vehicle tax in Finland, 2 %)
 - no connection between income and costs
- Earmarked taxation (fuel, vehicle, insurance etc.)
 - + cost of taxation = 0-4 % (fuel tax i Finland, 0 %)
 - low connection between income and costs
- Loans, bonds etc.
 - cost of money 2-20 % interest (state loans in Finland, 2-3 %)
 - no connection between income and costs, beneficial if benefits from investments are higher
- Private financing
 - cost of money 0,5-10 % higher than state loans' interest
 - no connection between income and costs

The relative costs of different funding mechanisms (2)

■ Vignettes

- cost of vignettes 5 - 20 %, reasonable cost-benefit ratio
- + connection between income and costs at some level

■ Tolls etc.

- cost of tolling 10 - 40 %, low cost-benefit ratio
- + high connection between income and costs at some level

■ User charges

- cost of charging 10 - 40 %, low cost-benefit ratio (21-25 % in Germany)
- + high connection between income and costs at some level

Road user charges in Austria



- from 1.1.2004 for the motorway network (2000 km)
- based on kilometres / number of axels, vehicles > 3,5 t, average 22 cnt/km
- annual income € 750 mill. / costs € 86 mill.; 11,5 % of total income (?)
- 6 toll roads or tunnels; 120 - 150 € mill. / year
- vignette; € 300 mill. / year



Road user charges in Switzerland



- from 2001, whole network (70 000 km)
- based on kilometres, pollution, maximum load, commercial vehicles > 3,5 t, average 1,39-1,85 cnt/km
- annual income 2005 780 mill. € / costs 33-39 mill.€; 4-5 % of total income (?) + 59 mill. costs of investments for obu's
- subsidising of Swiss railroads

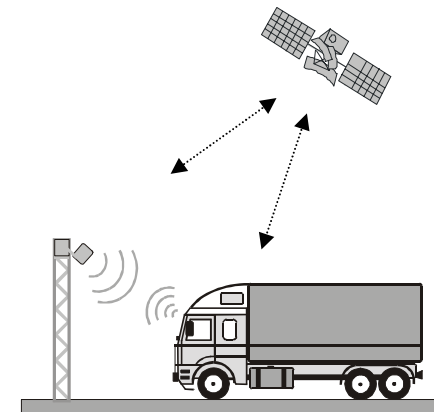


Kuva: Rapp Trans AG

Road user charges in Germany



- from 2005, motorway network (12 000 km)
- based on kilometres, vehicles > 12 t,
9-14 cnt/km, average 12,4 cnt/km
- annual income 2005 approximately 3 000 mill. € /
costs 650-750 mill.€
21-25 % of total income



The relative costs of different funding mechanisms

Costs of income

25 %

0 %

