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Swiss Confederation

Federal Department of the Environment, Transport, Energy and Communications DETEC

Federal Office for the Environment FOEN Air Pollution Control and Chemicals Division

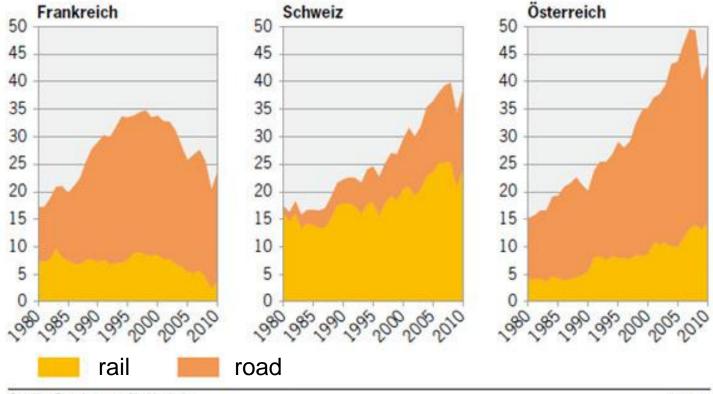
Transalpine freight traffic in Switzerland

R. Ballaman WGSR – special session on transport and air pollution July 2, 2014

Outline

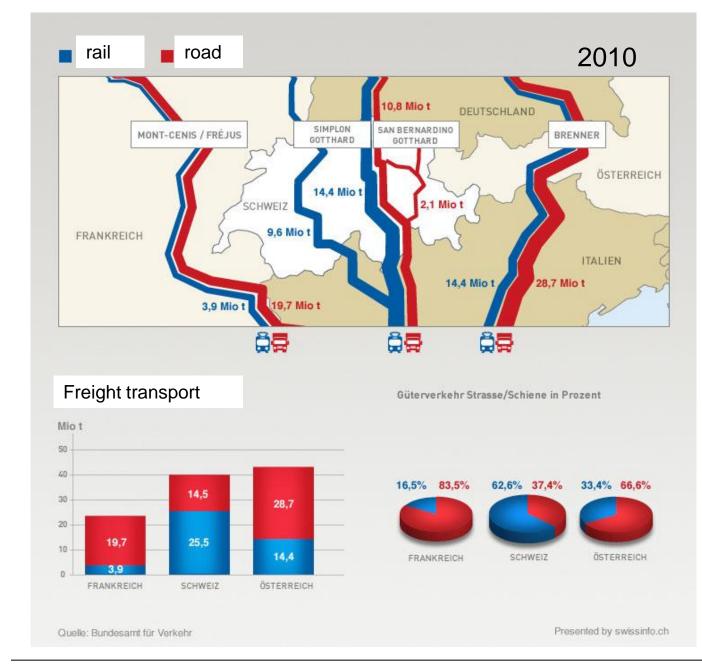
- Which transport system for goods through the Alps ?
- From the road to the rail: a fair and efficient distance-related heavy vehicle fee (HVF)
 - One system with several goals
 - Clean lorries drive cheaper
 - How to check the outcome?

Freight traffic crossing the Alps Mio tons/year



Quelle: Bundesamt für Verkehr

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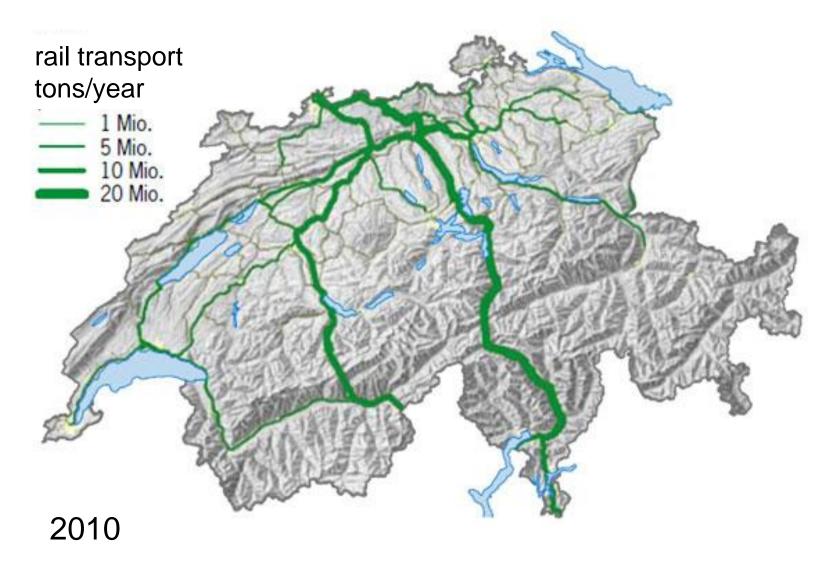


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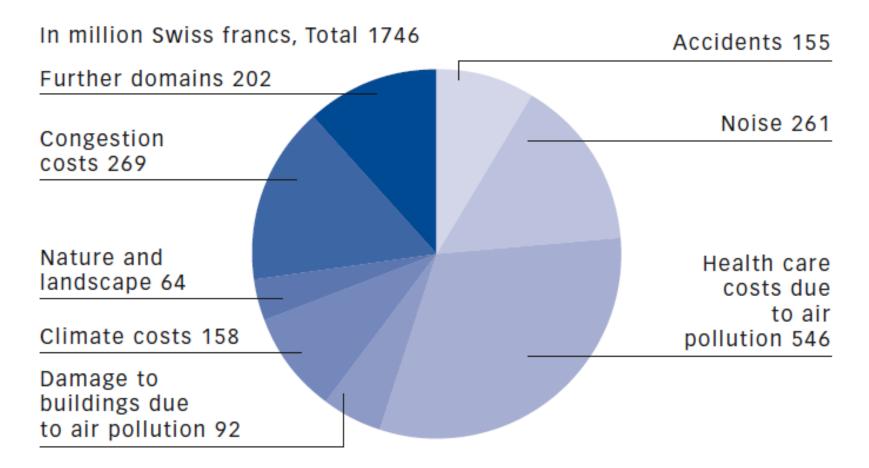
Most important accompanying measures of Swiss transit transport policy

Measure	Content	Period
AlpTransit/NEAT	New transalpine rail tunnels through the Gotthard and Lötschberg	Lötschberg: opened in 2007 Gotthard: Scheduled to open in 2016
Transfer Law	Foundations for accompanying measures such as promoting combined transport. Makes the necessary funding available (1,830 million Swiss francs). Contains the basis for intro- ducing an Alpine Crossing Exchange.	Payment structure for 2011–2018
Rail reform	The rail reform introduces intra-modal competition into rail transport. There is free access to the European network for goods transport. The SBB is refinanced.	In force since the beginning of 1999

New transalpine rail tunnels



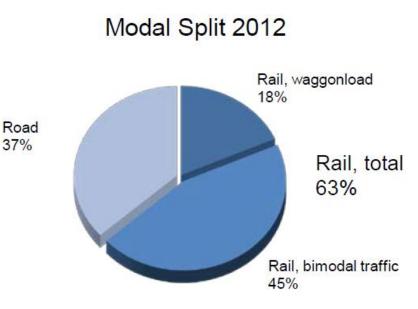
The external costs of heavy goods traffic in 2007



The distance-related heavy vehicle fee: one system with several goals



The HVF has many goals. For the first time in Europe, the external costs of freight transport are being internalised. It will also help to finance largescale railway projects. At the same time it is an important instrument for encouraging the transfer of goods to rail.

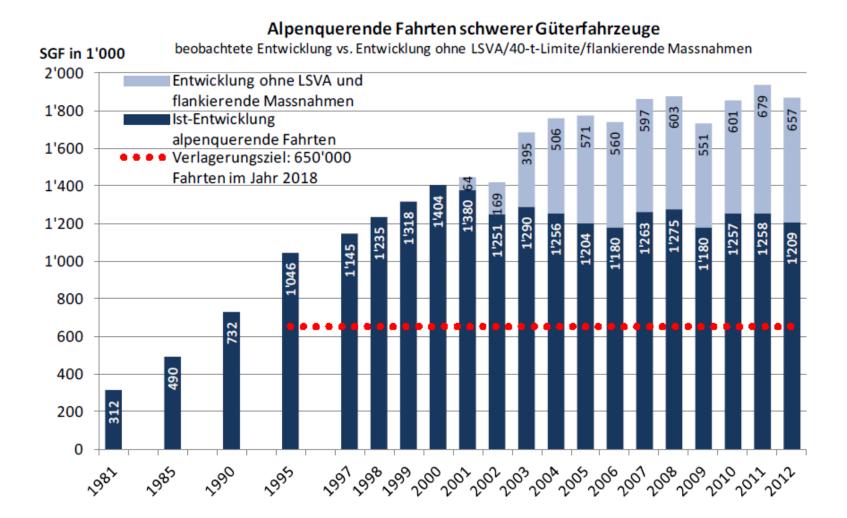


Heavy vehicle fee: rates

Euro category	rate (ct./tkm)
Euro 0, I, II	3.10
Euro III	2.69
Euro IV, V	2.28

- 10% discount for Euro II and III vehicles retrofitted with DPF
- 10% discount for Euro VI (i.e 2.05 ct./km)

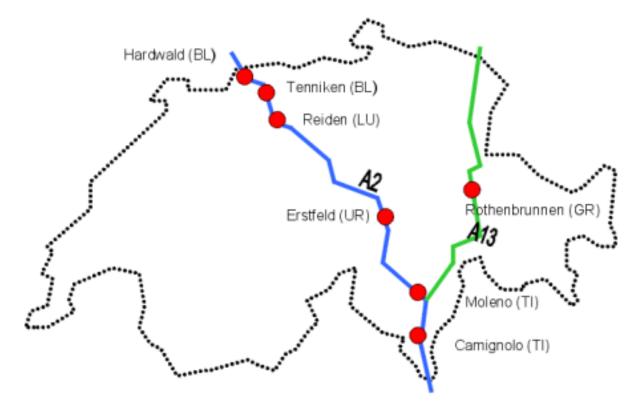
Freight traffic crossing the Alps (unit in 1000 heavy duty vehicles / year)



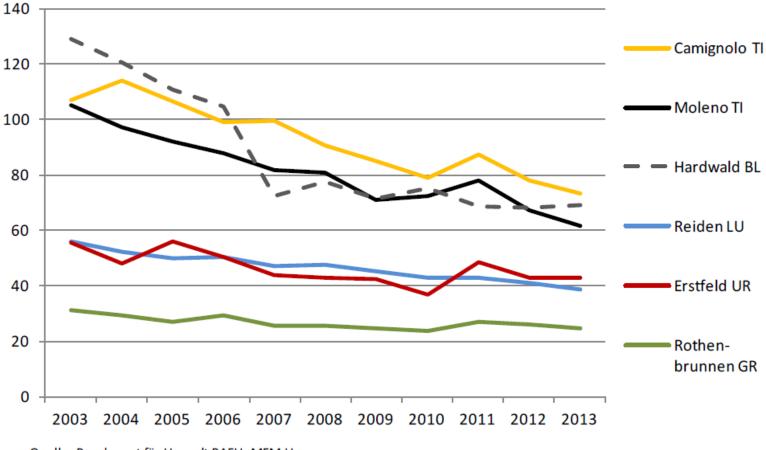
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Monitoring of Supporting Measures – Environment (MSM-E)

7 monitoring stations to measure the air and noise pollution generated by road traffic (launched in 2004)

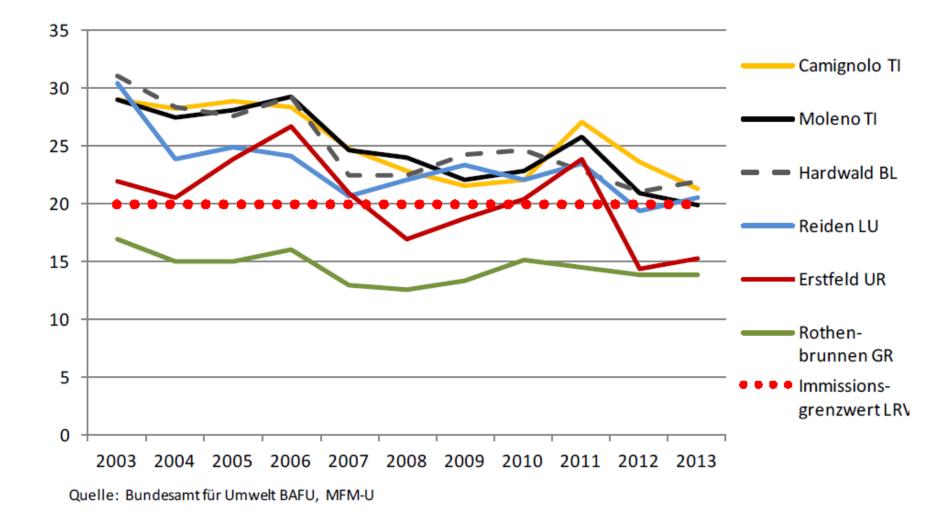


NOx concentrations 2003-2013 (ppb)



Quelle: Bundesamt für Umwelt BAFU, MFM-U

PM10 concentrations 2003-2013 (µg/m³)



More information

http://www.are.admin.ch/themen/verkehr/00250/0046 1/index.html?lang=en

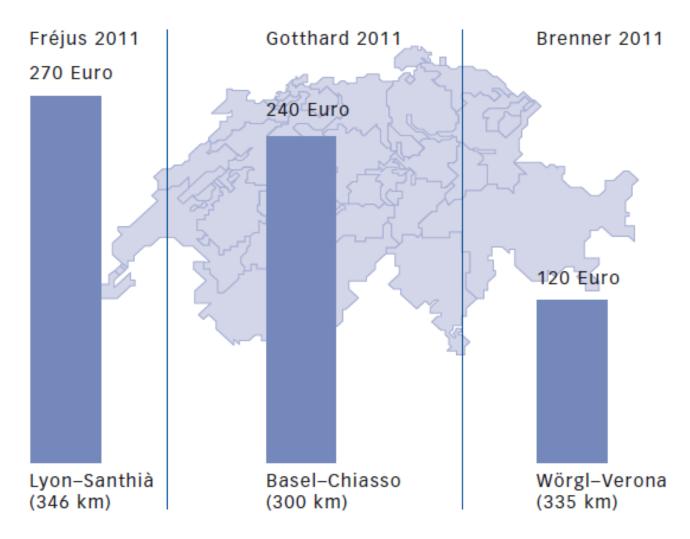
Video on « Alptransit and Europe »: http://www.bav.admin.ch/dokumentation/mediathek/0 3729/index.html#sprungmarke10_30



Additional information

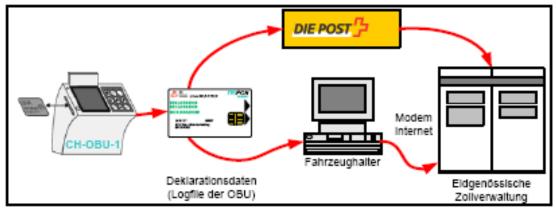
Comparison of Transit fees on Fréjus, Gotthard and Brenner

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On-board unit to register the driven mileage and file chip card for monthly report to custom authorities for accounting





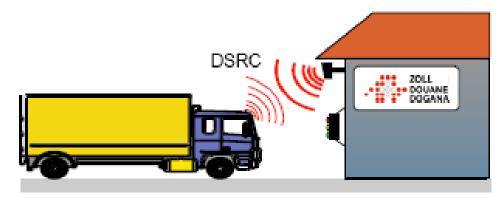
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Driving control on the major traffic axes to check the functioning systems



Kontrollanlage bei Bad Ragaz

Turning on/off of OBU by custom or identification card for personal notification



Fahrzeug unter einer DSRC-Bake



