



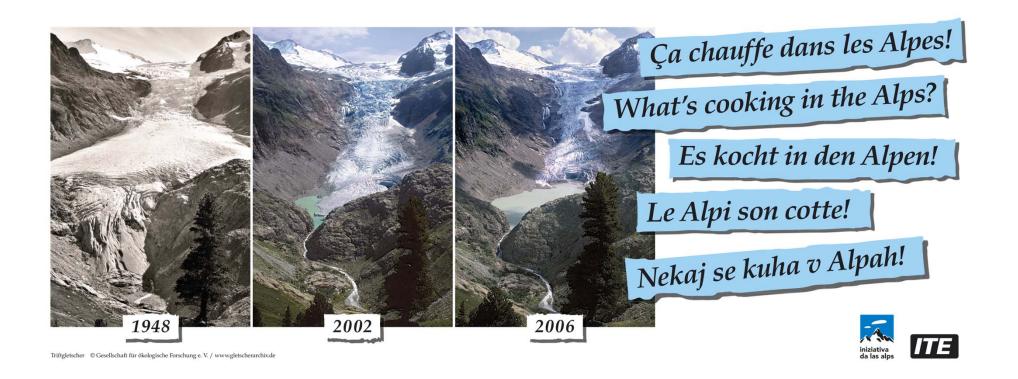
From hardware to software

A new transport policy for the Alps

Input: Toni Aschwanden, Alpine-Initiative, Switzerland Alpstar Conference, Chambéry, 27th of October 2011







Source: Gletscherarchiv.de / Banner: Alpeninitiative



2050: Snow A.O.C. ?





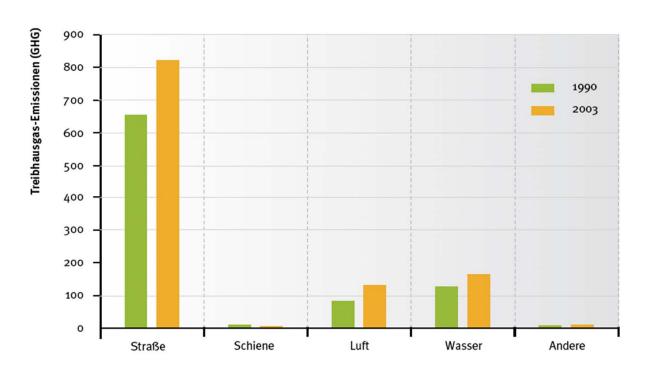
Transport is the bad performer (I)

	Share of traffic in %	
Germany ¹⁾	27 %	+ 1 %
France	34 %	+ 20 %
Italy	27 %	+ 27 %
Austria ¹⁾	26 %	+ 91 %
Switzerland	29,4 %	+8%
Slovenia	29,6 %	+ 68 %
EU	27,4 %	+ 26 %



Transport is the bad performer (II)

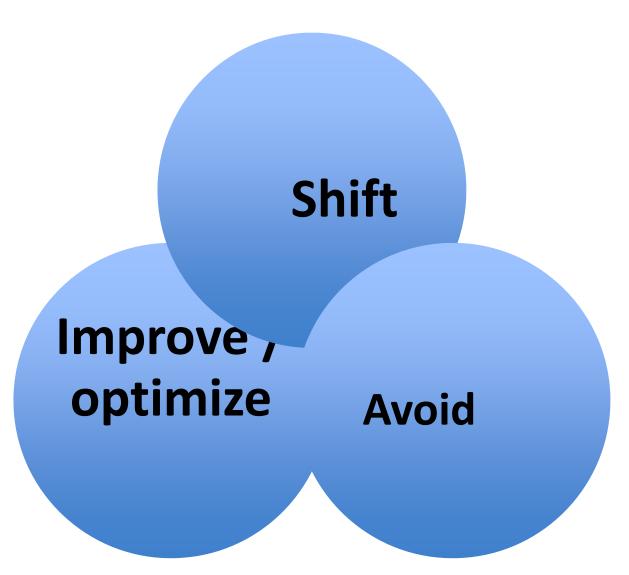
Abbildung 2: Treibhausgasemissionen im Verkehrssektor



Quelle: Europäische Umweltagentur 2007













Planning



Regulation



Economic instruments



Information



Technology

Planning

High density land-use ("avoid")

Car free settlements ("avoid")

Road freight to rail and water ("shift")

Integrated public transport ("shift")

Regulation

- Parking restrictions ("avoid")
- Access restrictions ("shift")
- Vehicle emission / Fuel standards ("improve")
- Speed limits ("improve")



Economic instruments

- Fuel taxes, vehicle taxes ("avoid")
- Internalization of external costs ("avoid" / "shift" / "improve")
- Subsiding alternative modes ("shift")
- Pricing instruments ("improve")
- Emission trading / certificate trading ("avoid" / "shift")

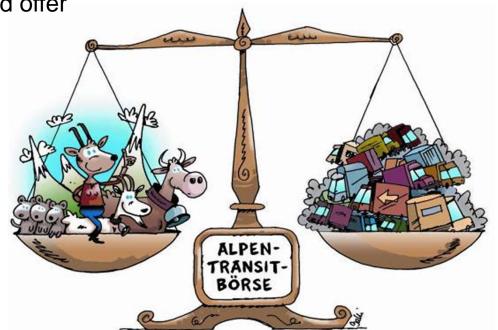
Example: "Alpine Crossing Exchange" for trucks



sensitive Alps:

a limited resource, limited capacity

⇒ limited offer



high demand of road crossing trips

offer and demand balanced and regulated by an exchange







Planes: Airport slots



Trains: Charges for railway paths



Ferry: Tickets

In the future the crossing of the Alps and other sensitive regions should need a crossing right!

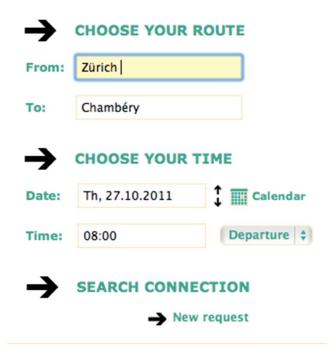


- Promotion of alternatives to travel ("avoid")
- Travel awareness ("shift")
- Mobility management ("shift")
- Eco-driving ("improve")

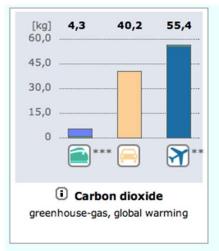


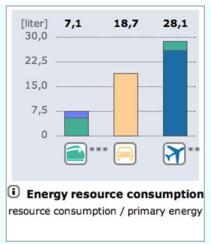
Example awareness raising: practical tool to compare environmental impacts

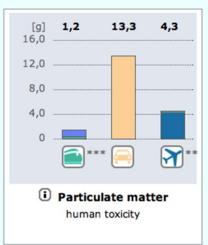


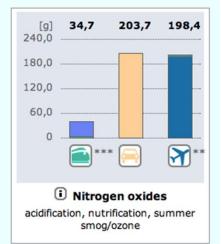


www.ecopassenger.com





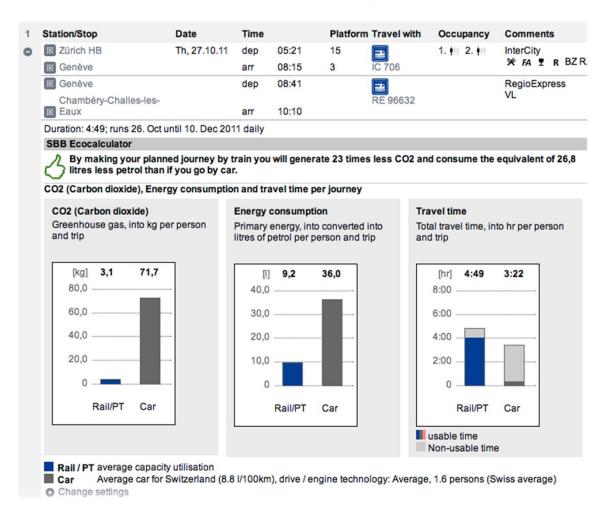






Example awareness raising: practical tool to compare environmental impacts

SBB CFF FFS Online timetable.



Technology

e-mobility ("improve")

biofuels / agrofuels ("improve")

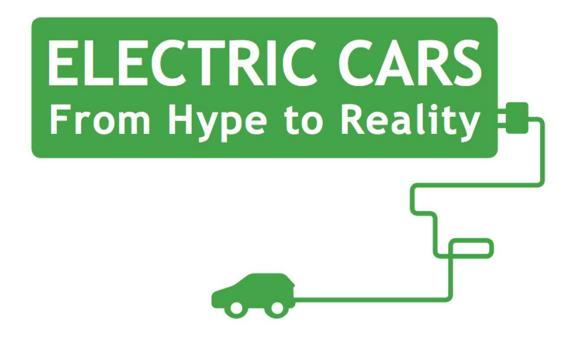
Newer engines ("improve")

home office, teleconferencing ("avoid")

high speed trains ("shift")



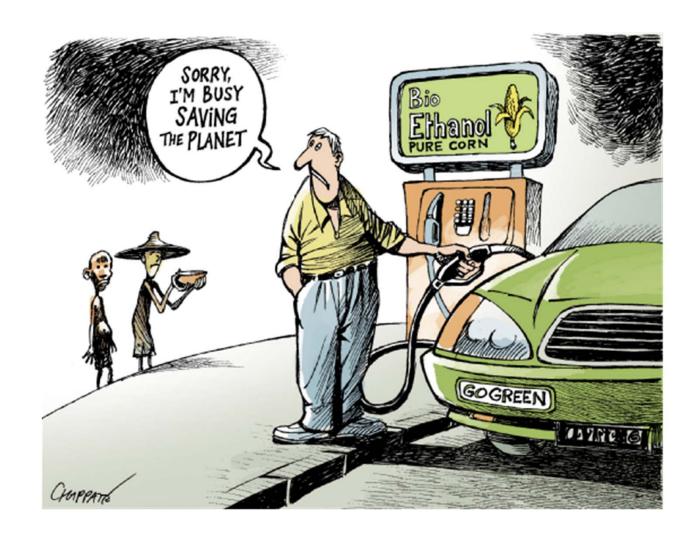
Risks and conflicts: e-mobility



- Origin of the energy source? => renewable from the own region!
- A "zero emission" car / truck still provokes capacity problems (congestion, accidents)



Risks and conflicts: Agrofuels/Biofuels





Risks and conflicts: Megaprojects

underestimated costs
+ overestimated revenue
+ undervalued environmental
impacts
+ overvalued economic
developement effects



Smart tools needed

- Not one solution but policy packages!
- Shift, avoid and improve!
- Is the time of big projects over ?
- Transport networks needed, not only corridors
- smaller & regional solutions: Flexible, cheaper, shorter planning period
- Software and information systems to improve the use of current transport infrastructure



Existing best practices in the Alps



CIPRA Compact



"Alpine Space Program" - Projects

Alps are recognized as sensitive region!



Special measures needed Political will needed forerunner role / laboratory!

Rethink transport myths



Transport is the Motor of the Economy

Building Roads is Always Good!

Road Pricing with Frustrate Economic Development.

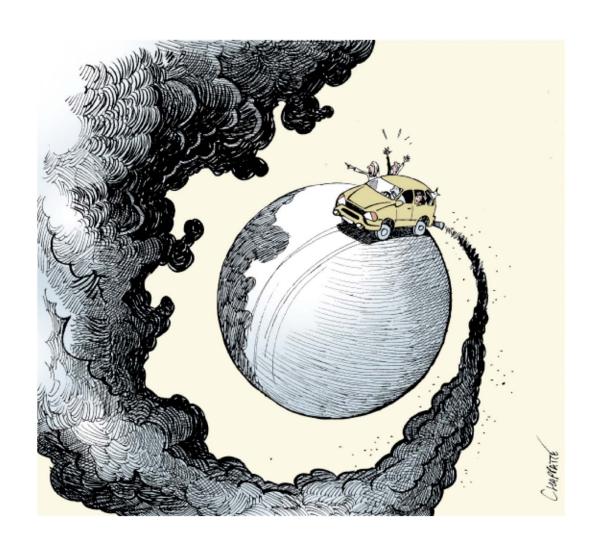




Congestion can be solved by Road Building,



Behaviour change









Thank you for your attention!





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