

THE PEP Workshop

Efficient urban transport and public transport systems 26-27 September 2013, Almaty

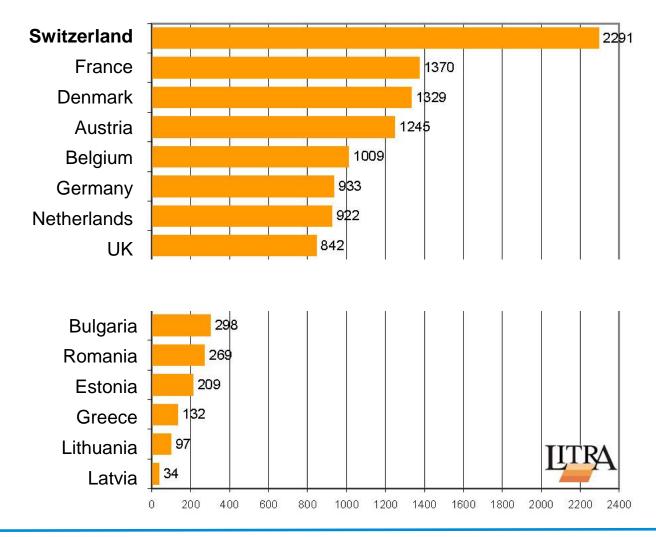
Integration of Public Transport in an Overall Transport System The Example of the Greater Zurich Area

SBB CFF FFS



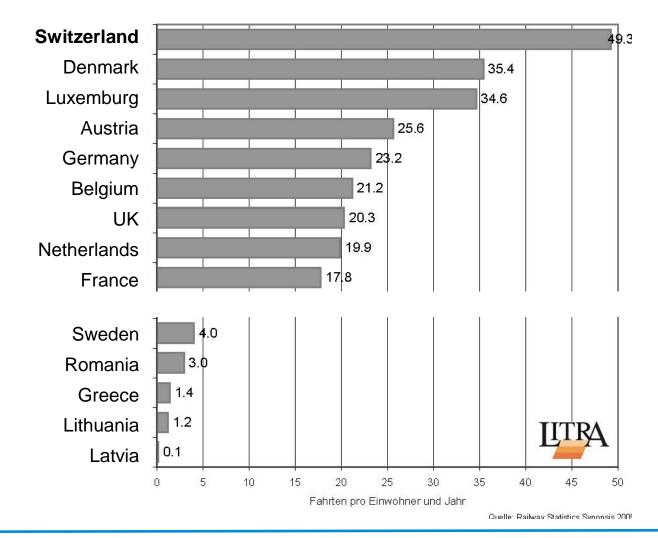


Kilometres per person and year (railways)



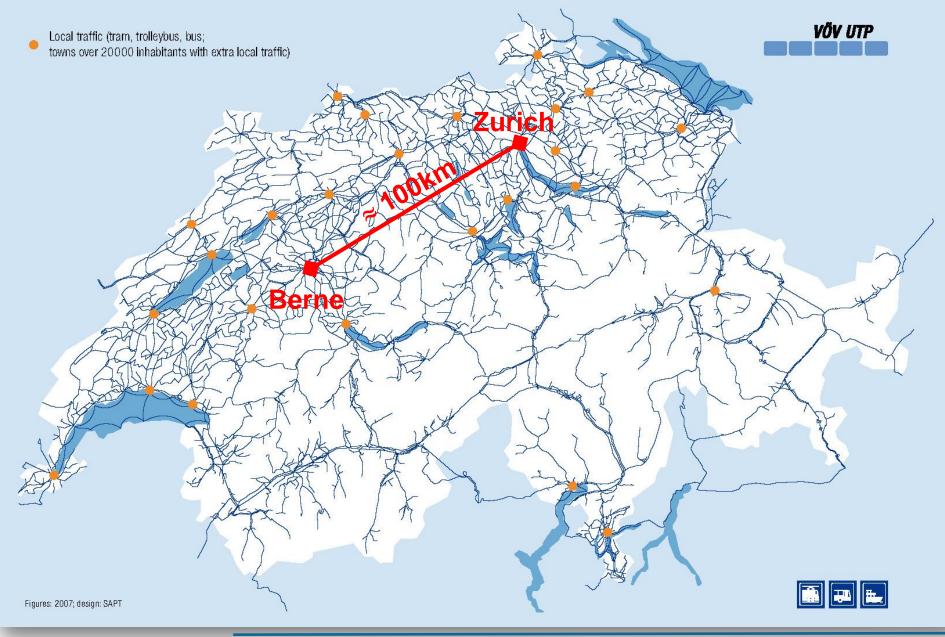


Trips per person and year in Europe

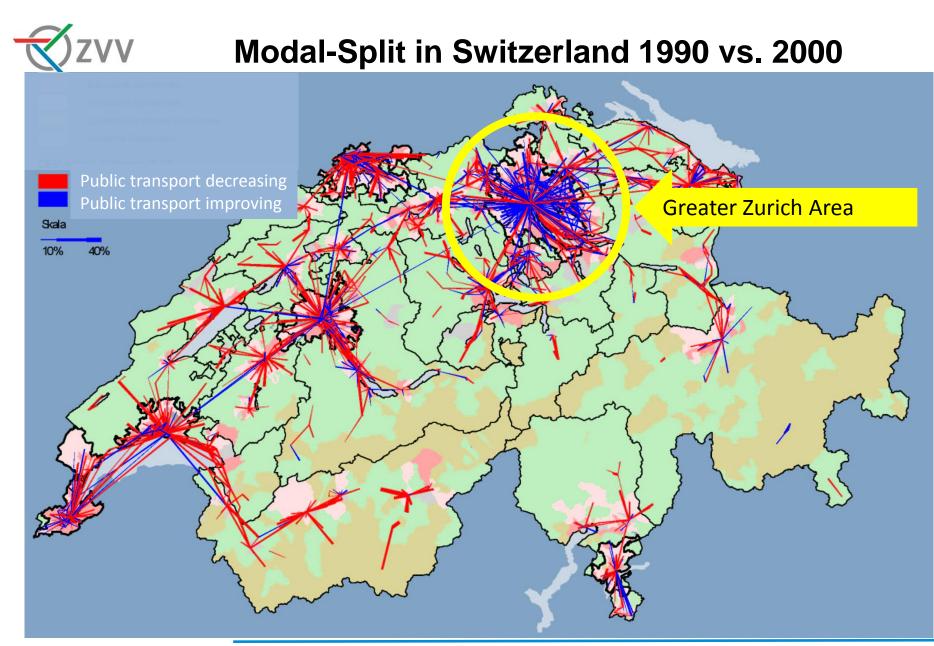




the network

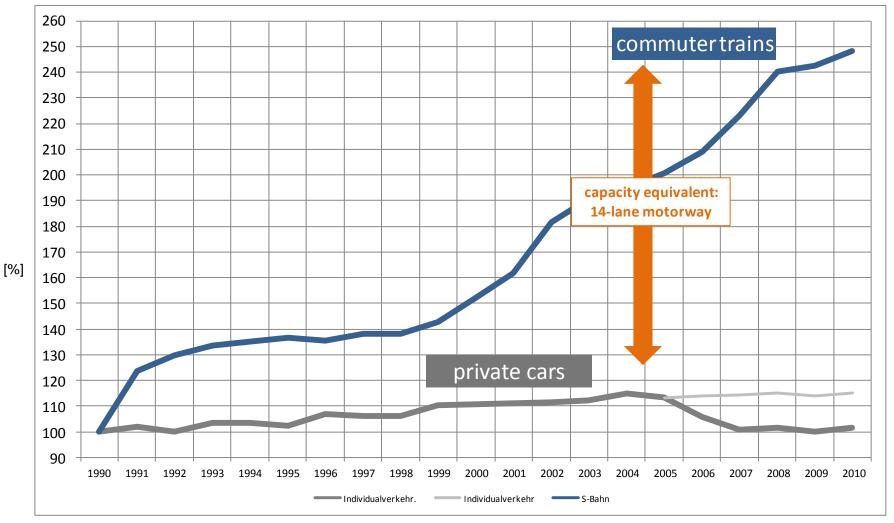


27.09.2013





Passengers in commuter trains vs. private car traffic at Zurich city boundary [in %]

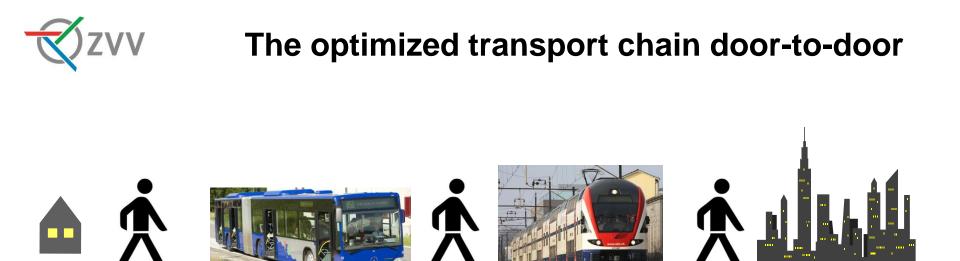




Why choose Swiss people public transport?







Most relevant factors

- competitive total journey time → compared to private cars
- reliability → punctual services and guaranteed connections

security / comfort / cost of trip / others



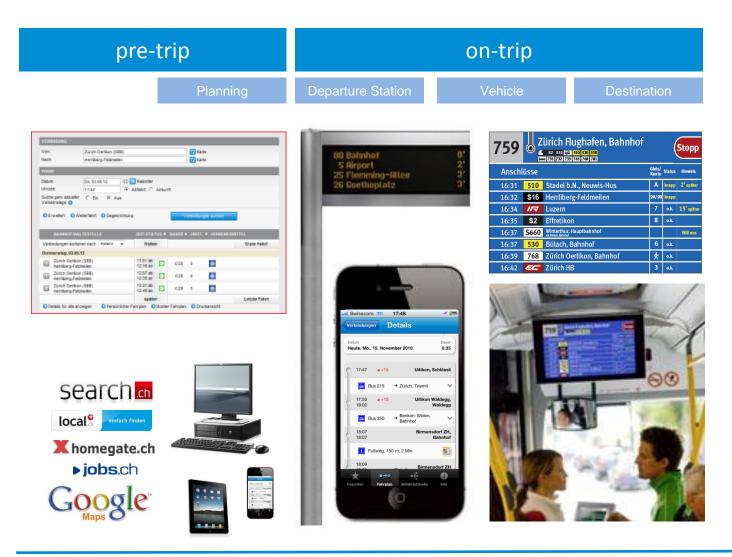
Network access

smart phones become increasingly important





Trip planning starts at home





Time

10:35

10:36

10:35 +2

10:37

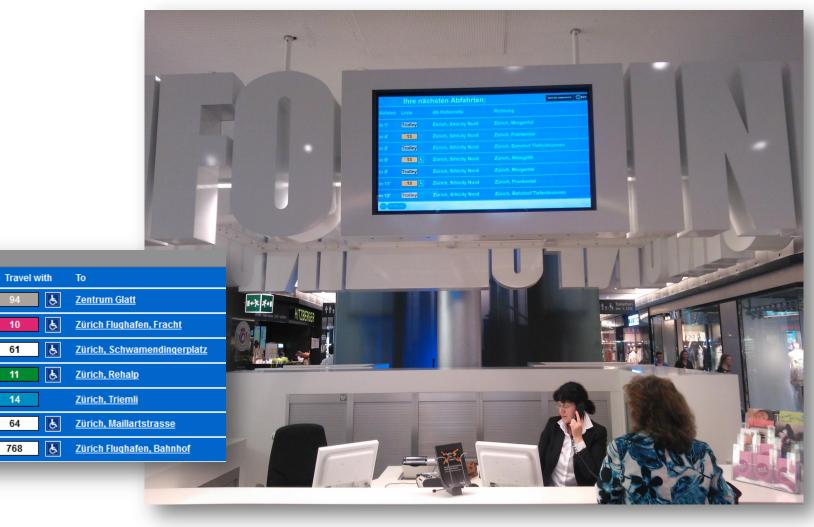
10:37

10:37

10:37

Real time departure screens

shopping mall, hotel lobby, reception desks, sport & cultural events





Easy access

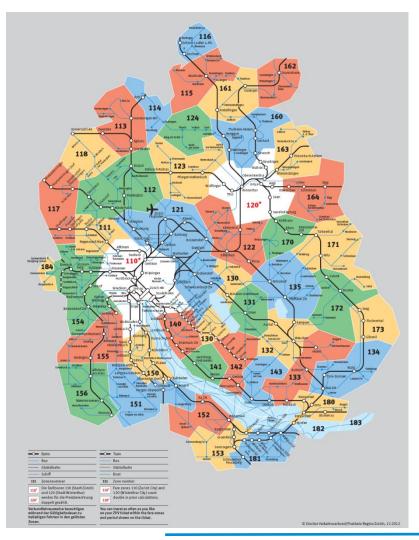
The ticket system

- +/- integrated ticket system nationwide
- 100% integrated regional ticket systems
- 100% open system: no reservations, no supplements, no access gates, no time restrictions
- 40% of population over 16 years own halfprice card
- 7% own general public transport card





"One ticket for everything"



- Zone-based fare system
- Unlimited within zone & time period
- Free choice of transport mode
- Uniform price level



Comfort Rolling stock





Swiss Federal Railway SBB, RABe 514 Constructed 2005–2009 Manufacturer Simens



Comfort Rolling stock





Comfort Tramway and Bus





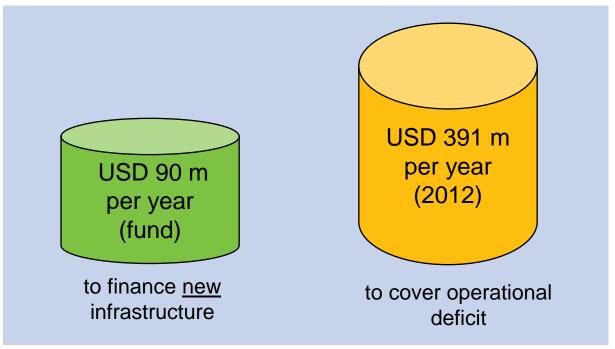






Infrastructure and operations financing Financing from one source

 Centralised financing is favoured over all systems optimisation



 Approx. 7% of the total tax income of the Zurich Region goes into public transport



Planning process and challenges

Planning process

- Always in tight cooperation with operators and infrastructure company
- Zurich Area timetable 2019 was fixed by the minute in 2007

Problems / Challenges

- Overcrowded trains
- Punctuality and capacity of international trains
- Short time planning of neighbouring countries
- Extensive an expensive station infrastructure
- Low flexibility



Political and public acceptance

- All public referendums since 1982 on railway and tramway projects were accepted
 - all new roads were rejected
- All political parties generally support public transport



Conclusions

- Public transport functions only as an integrated network
 - Every trip starts at home
 - Changing modes requires very high reliability
 - Integrated fare structures
- Keep it simple (it is already quite complex)
 - Fare structure, timetable, passenger information
- Don't forget the private car traffic limit parking space and road capacity
- Good public transport is not cheap but it pays off!



Cycling is an alternative – also in cities!

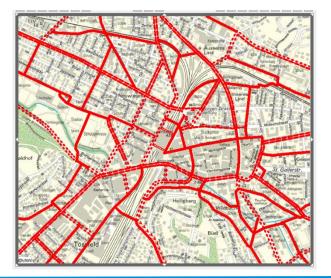
Key factors

Safety



Cycle path system







Cycling is an alternative – also in cities!

Parking facilities









Cycling is an alternative – also in cities!

1%

36%

32%

25%

100%

80%

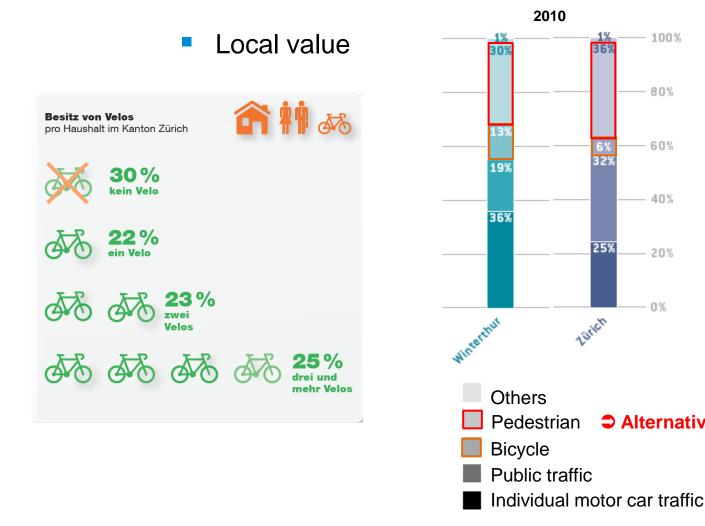
60%

40%

20%

0%

Alternative





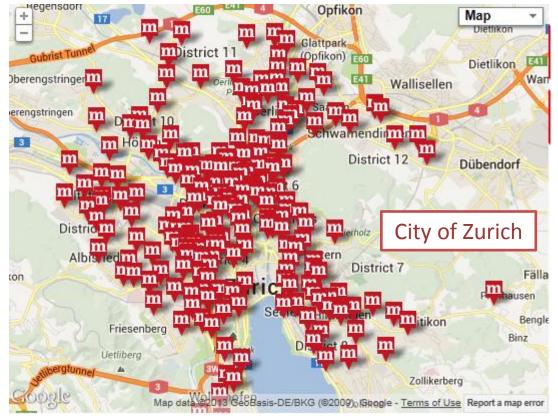




Key factors

Stations







Carsharing

Fleet









- Reservation
 - Internet customer portal
 - App "mobility car"





- Costs
 - Annual subscription (reduction of 35% with a ZVV annual travelcard)
 - Hourly and kilometre rate



Thank you for your Attention

