



Legal framework long-distance transport Switzerland



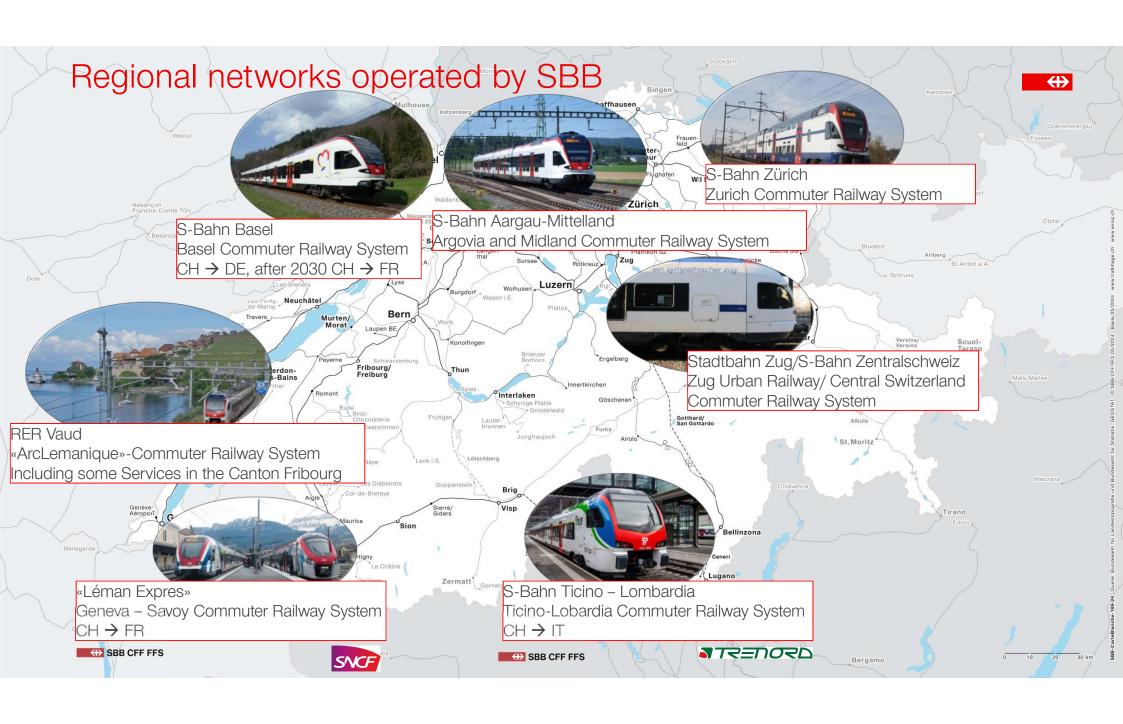
- Self-financing
- Solidarity principle: Financially strong lines subsidise weak lines
- Good long-distance services also in the area
- Quality requirements (frequence of trains, customer services) regulated by federal licence
- Multi-railway licence under the umbrella of SBB

⇔ SBB CFF FFS



SON SÜDOSTBAHN





(1)

Regional transport on standard gauge - other Players





Restrictions for new rolling stock to be procured



«Disability Equality Act» (BehiG - in German: Behindertengleichstellungsgesetz):

- Doors suitable for 55 cm platform height
- Wheelchair-accessible WC and catering zone (where offered)

Maximum length of platforms:

Long-distance transport



 400 metres («Jura south foot»-line 380 m) – not yet achieved everywhere today

• //₹, RE 300 metres

Regional transport: 300, 225 oder 150 metres

Based on the financing agreements defined by/ with BAV





Maximum speed and acceleration:

• /=, particulary //= 200 kmh --- 0.6 m/s^{2**}

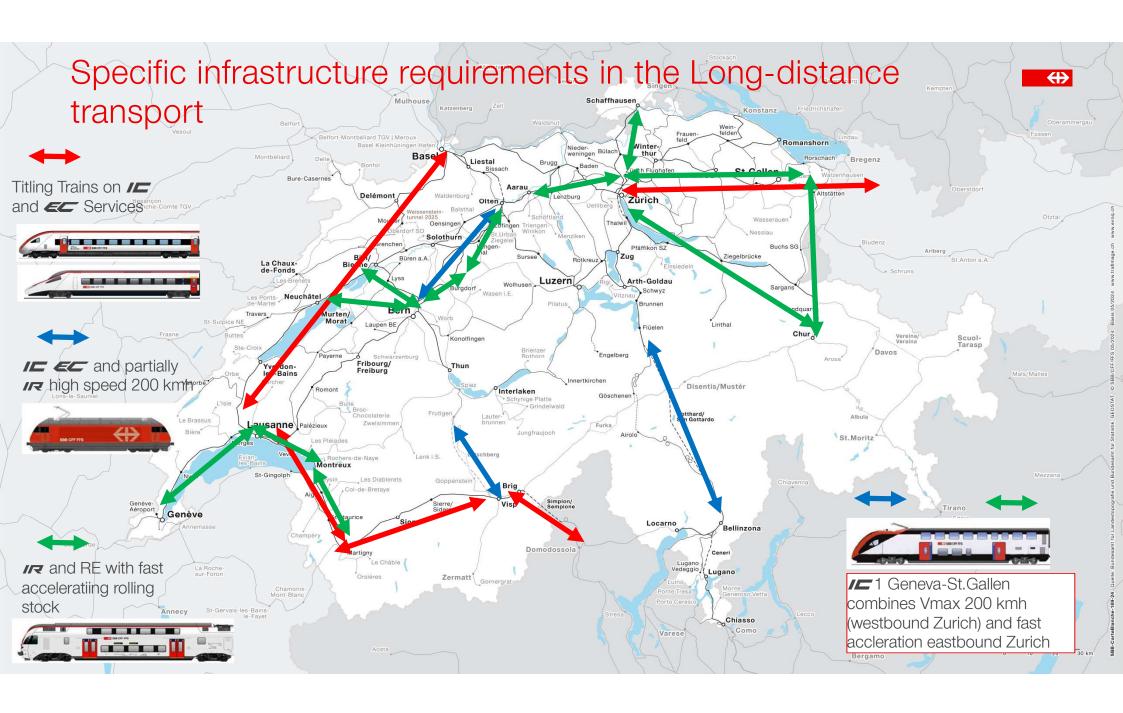


• ITT, RE and regional transport 160 kmh --- 0.8 to 1.1 m/s²

Based on (future) service concepts defined by/ with BAV

^{* 15} Geneva-Lucerne and 177 16 Bern-Zurich using the high-speed-line Mattstetten-Rothrist (Bern-Olten)

^{** / 1} is currently a hybrid line and needs rolling stock for 200 kmh and 0.8 m/s²



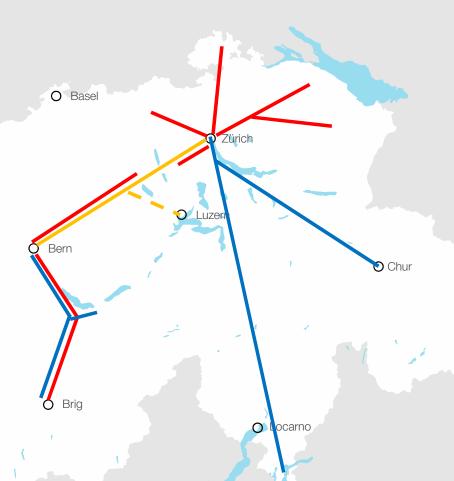


Rolling Stock – Long distance traffic SBB



Long-distance transport conditions to be observed for new rolling stock

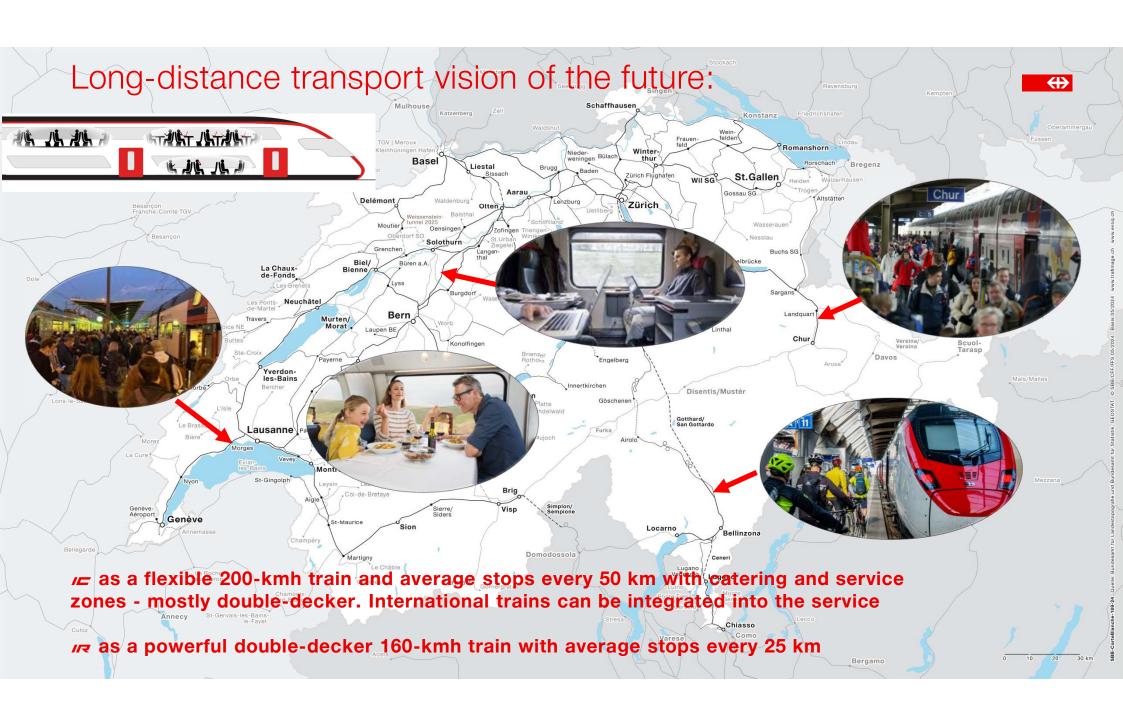
Is a multiple unit train or a shuttle train consisting of locomotive and carriages the right answer to this question?



Route with high commuter volume Mon-Fri in 2nd class

Route with high commuter volume Mon-Fri in 1st class

Route with a high volume of foreign tourists and leisure travellers at weekends



₩

Same vehicle type - different seating standard



BLS-RABe 515 «Mutz» 60/275 = 335 Seats, First Class 2+2



DB Regio Schleswig-Holstein, Class 445 38/367= 405 Seats, First Class 1+2

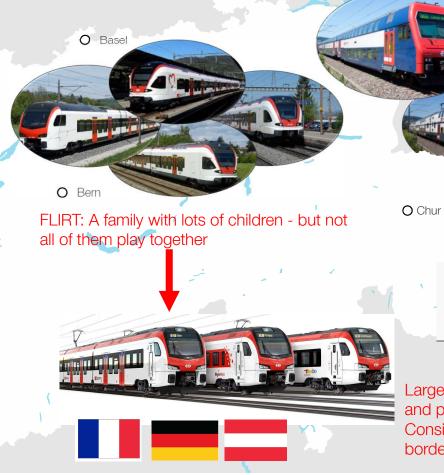
Regional transport –problems and solutions for the present and the future



Western Switzerland: identical vehicles at different rail transport companies enable mutual assistance and cooperation



Geneva: can the high demand for the Leman Express be met with single-decker or double-decker vehicles?

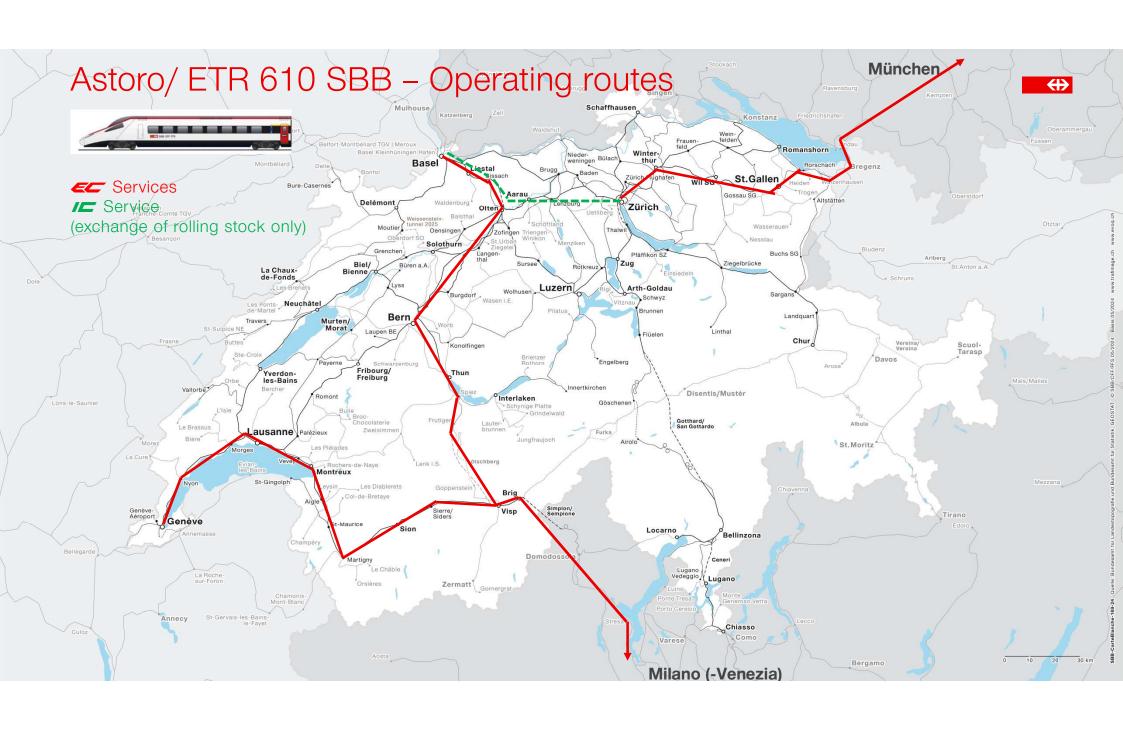


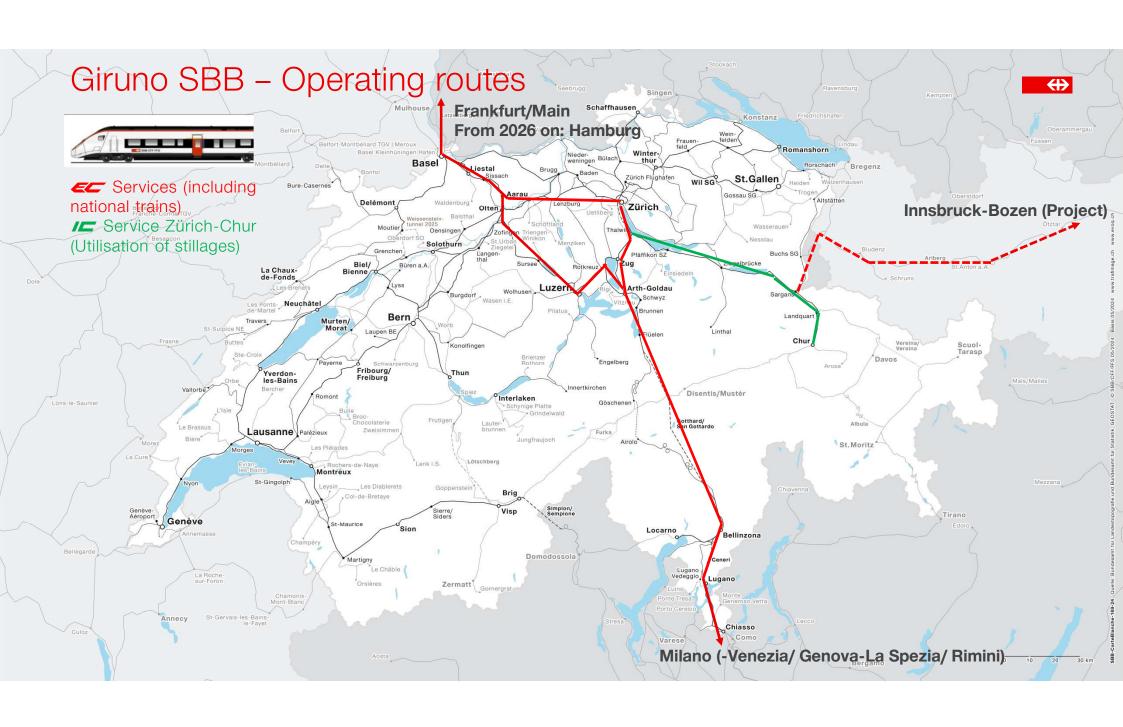
Zurich commuter railway Reduction in the variety of
types. Standardised vehicle 150
m as a solution for the future?



Large order for Flirt Evo including subsidiaries and partner companies as a solution. Consideration of interoperable vehicles for border traffic

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It took 3 years before this photo became possible





Annemasse – 2 years for an authoristion to ride about 500 metres with 3x Stadler KISS 100m





