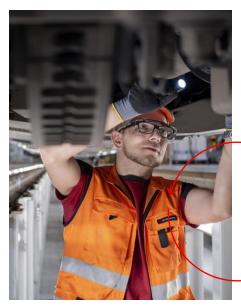
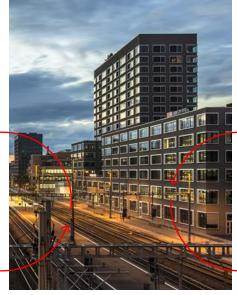


As an integrated railway, we get Switzerland moving – every single day.











Passenger Services
Production
11,417 trains/day

Passenger Services
Markets
1.32 million
passengers/day

Real Estate
3,500 buildings

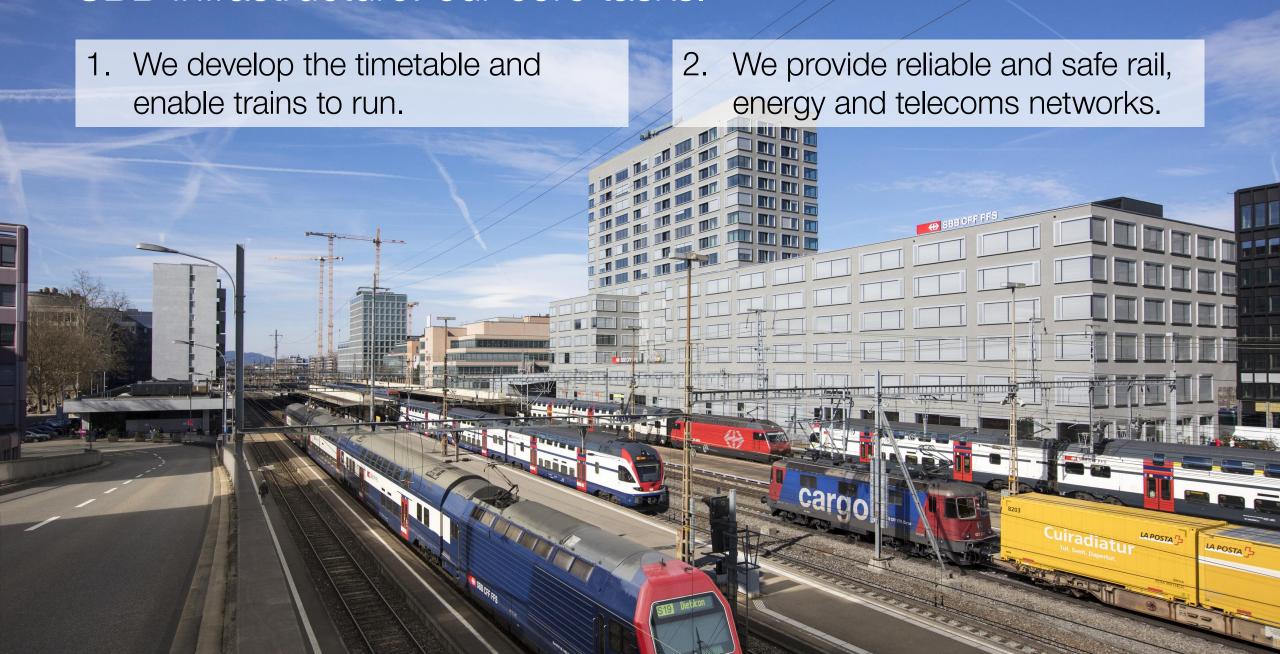
3,266km network
10,000 employees
8 hydroelectric power

Infrastructure

SBB Cargo 175,000Nt goods/day

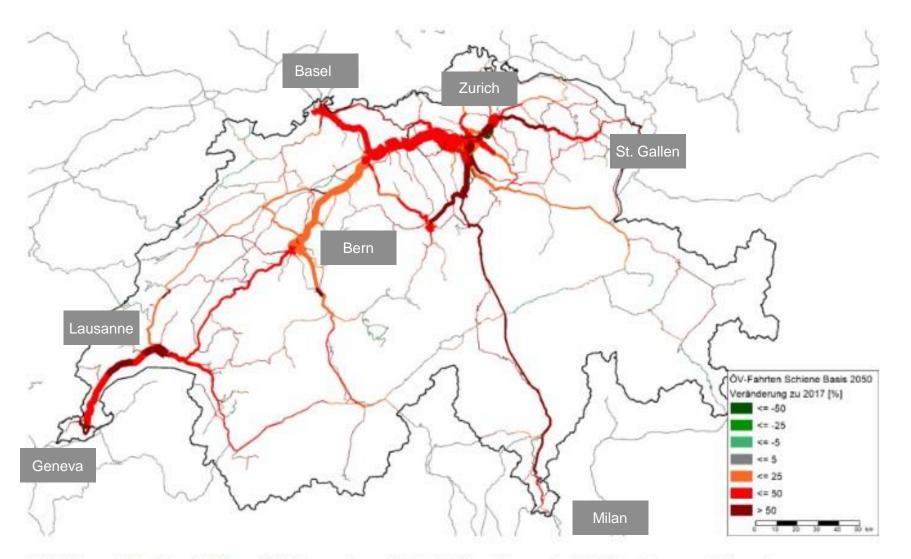
Group-level units & specialist management: Finance, Human Resources, Information Technology, Communications, Corporate Development, Safety and Production Quality, Legal and Compliance, Public Affairs and Regulation

SBB Infrastructure: our core tasks.





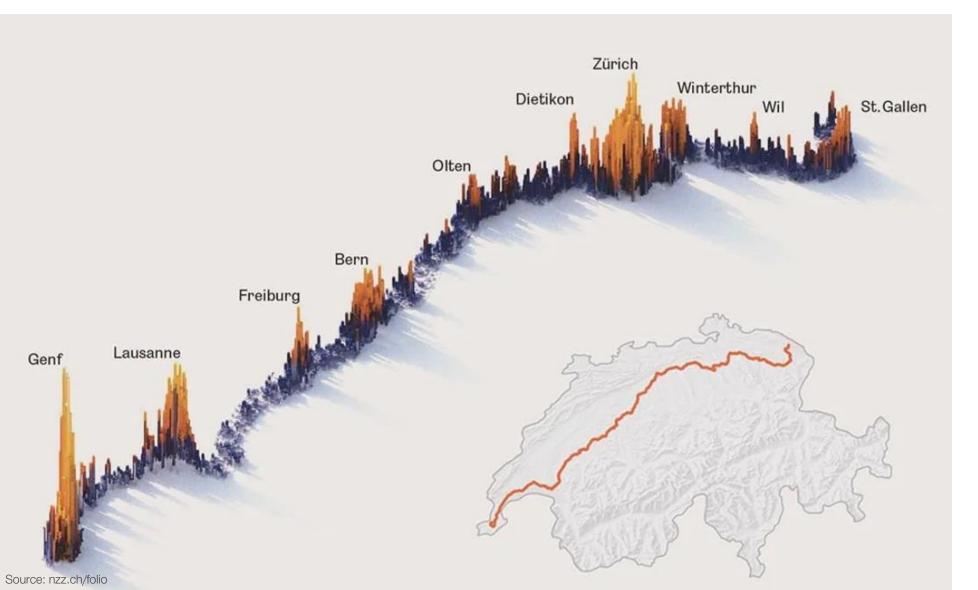
Demand is increasing, especially in densely populated areas.



- Need for mobility is increasing by up to 50%
- Expansion primarily on routes already heavily used today and in densely populated areas
- Particularly large numbers of customers affected



A third of the Swiss population lives along this railway line

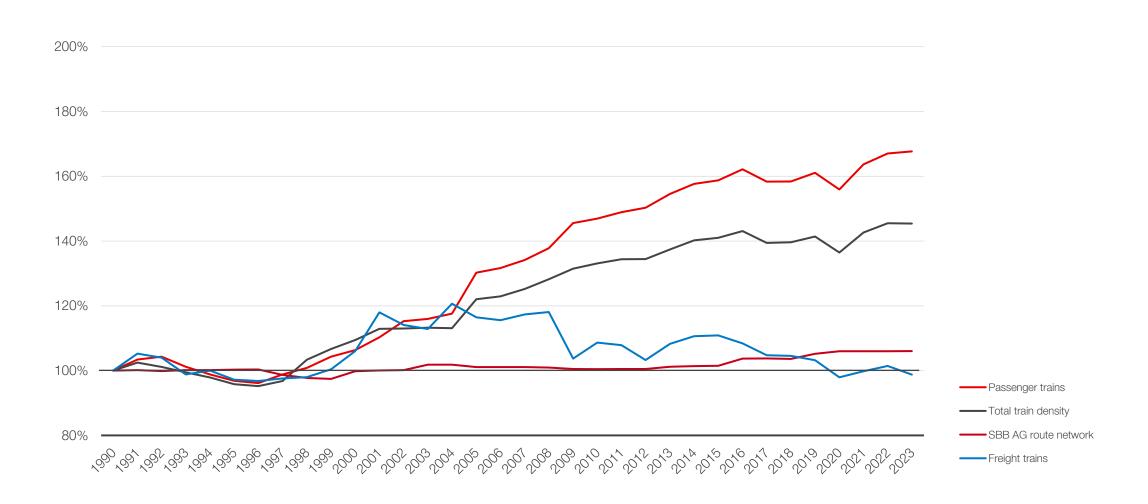


- Train journey from St.
 Gallen to Geneva
- Towers indicate population density along the railway line
- Highest peaks in Geneva and Zurich
- Low population density between Freiburg and Lausanne



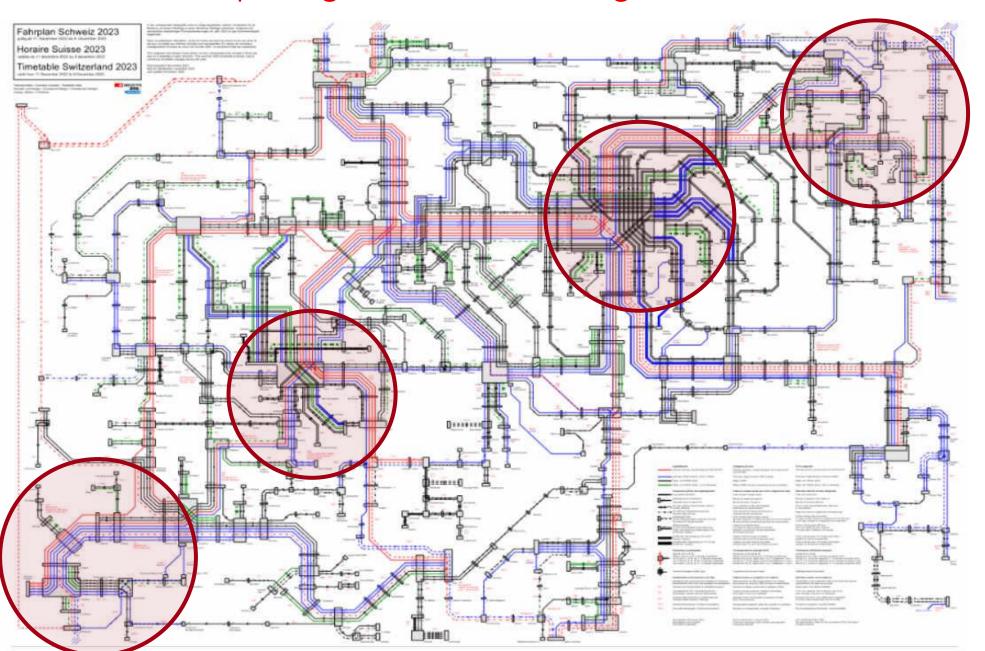
Development of train density and route network.

Indexed data, base year 1990



(|)

Comparing the network diagrams of 1982 and today.

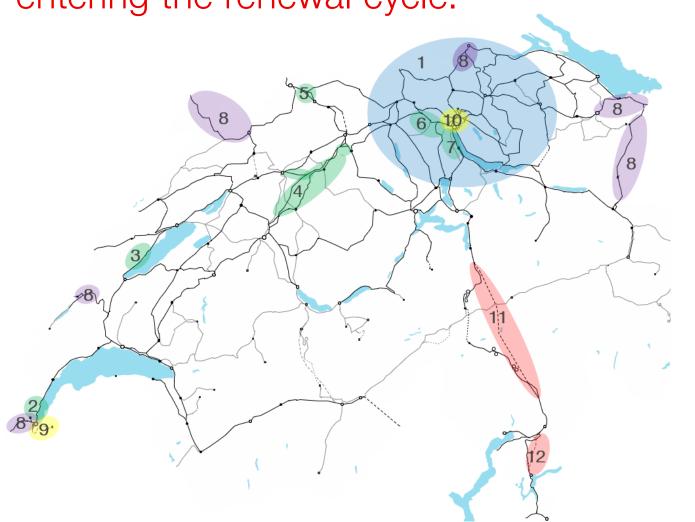


- More traffic between the nodal points
- Nodal points are more heavily used

Maintenance of infrastructure and expansion – open-heart surgery. **L** Usability Feasibility Financial viability Demand



Operation with increasing level of complexity: Large-scale projects commissioned from 1990 onwards are entering the renewal cycle.



No. 1: S-Bahn Zurich incl. 4 partial extensions (commissioned 1990-2018)

No. 2 to 7: Rail 2000 (commissioned 2001-2004)

No. 8 HSR connections (commissioned 2011-2020)

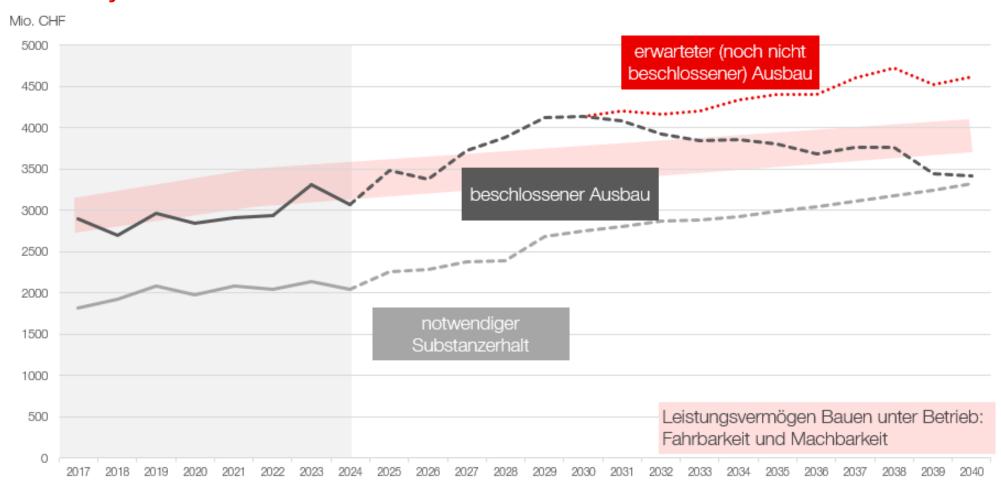
No. 9 and 10: Infrastructure fund projects (commissioned 2014/2019)

No. 11 and 12: NRLA Gotthard axis (commissioned 2016 / 2020)

Not shown: 4m corridor (commissioned 2020, 720 million)

Total 26 billion

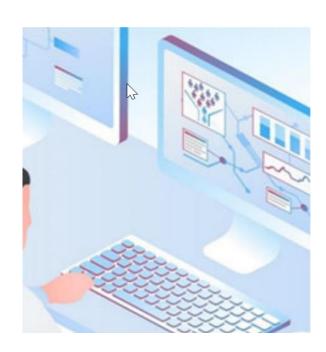
Quantity of construction work is reaching the limits of feasibility.



Datenstand 2023; Total Bauvolumen ohne Tunnel-Neubauten und Neubaustrecken.



Activity area 1: Smart travel instead of expansion.



Intelligent capacity planning and traffic management (TMS)



Travel at optimal distance with train-centric safety logic (ERTMS)



Optimised speed control (ATO)

Make better use of existing infrastructure

- Create more capacity through smart planning and control (TMS)
- 2. Create more capacity through smart safety systems (ERTMS)
- 3. Creating more capacity through automatic speed control (ATO)



Activity area 2: When expanding: sufficient utilisation of new routes.



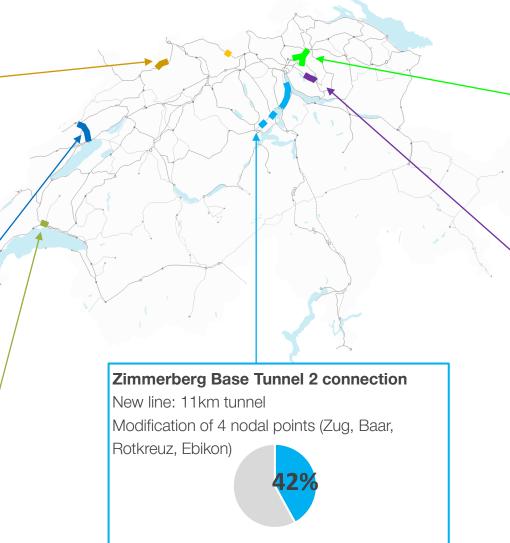
Direct lineNeuchâtel-La Chaux-de-Fonds New line: 11.4km tunnel & Cernier station, Modifications to 2 nodal points (Neuchâtel, Le Crêt-du-Locle)

17%

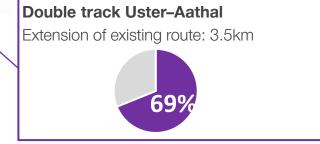
Renens: Modifications – western terminus

Expansion of existing nodal points



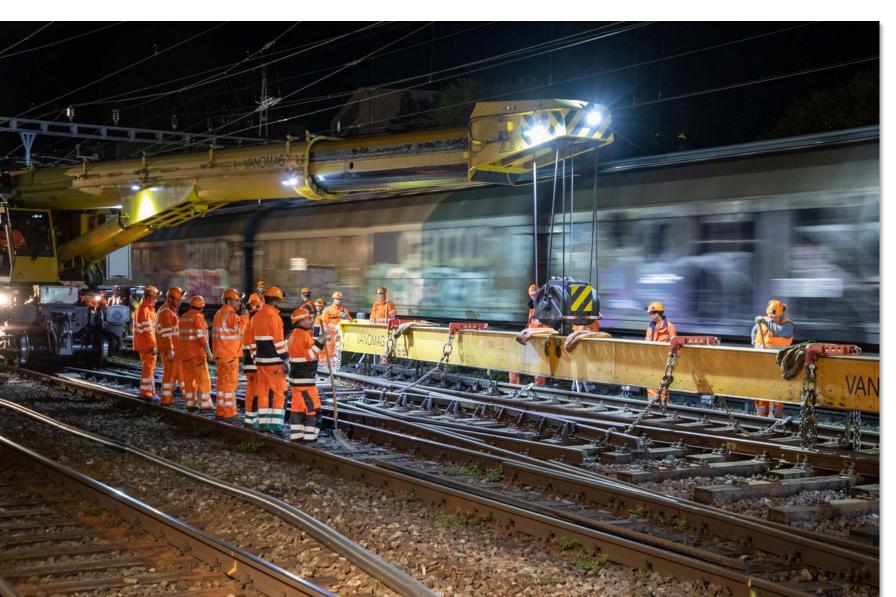






Examples of projects as part of the 2035 expansion step (AS 35)

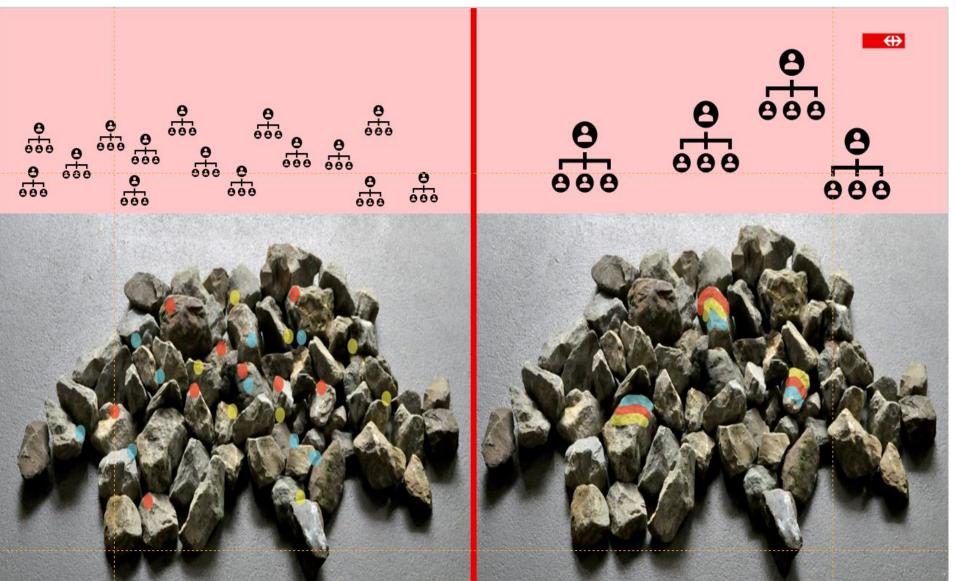
Activity area 3: Focus on renewal.



- Implementation of legal mandate: prioritise operation and maintenance of infrastructure over expansion
- Stabilise backlog in preservation of infrastructure
- Expansion subsequent expenditures: 3% per year for maintenance and renewal of systems per billion invested
- Rescale and/or extend the timeframe of further expansion

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Activity area 4: Improving the efficiency of construction work.



- Planning of expansion and maintenance of all system types
- 4-6 large construction clusters per year
- Definition of standard intervals in standard cases
- Targeted overall project organisation
- Minimise impact on customers and residents

Activity area 5: Investing in employees.



- Staff are our backbone
- Greater competition on the labour market
- SBB, Switzerland's fourth-largest employer, particularly hard hit
- Applicants' expectations are getting higher

Conclusion



- More traffic and more passengers
- Volumes of construction and maintenance are increasing
- Priorities are changing: holding back expansion, prioritising maintenance of existing infrastructure
- Better clustering of construction sites and long-term planning
- We can only succeed with highly motivated and talented employees.

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