

SBB – connecting Switzerland. Our 34,000 employees keep Switzerland on the move.



Passenger Services
Markets
1.34 Mio.
passengers/day



Passenger Services
Production
5800 Trains/day



Real Estate
3500 Buildings

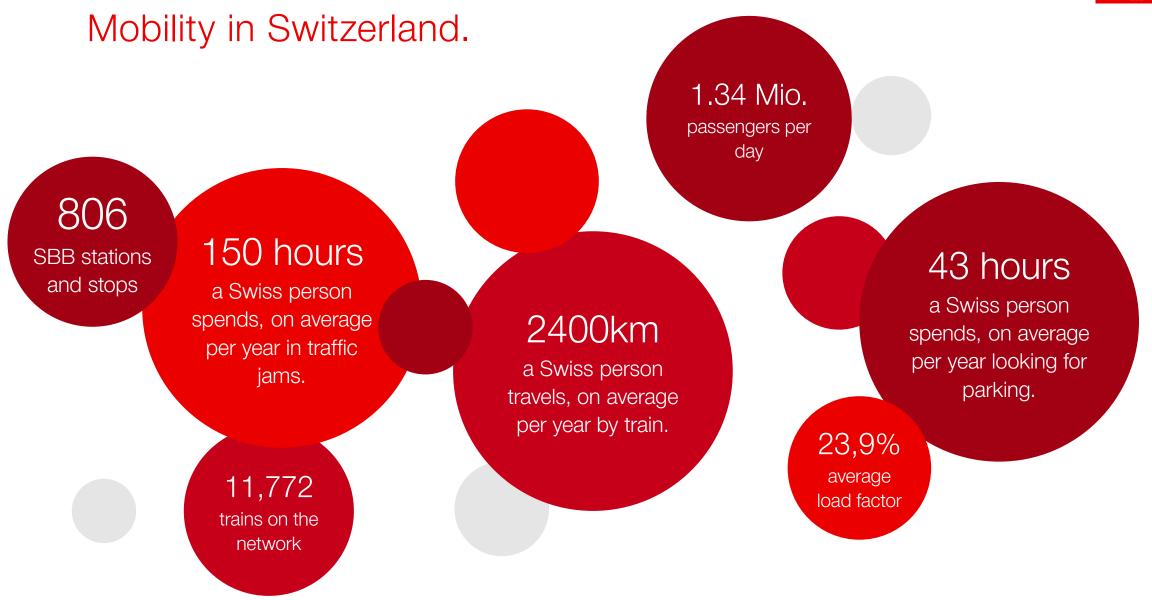


Infrastructure
3260 km of network

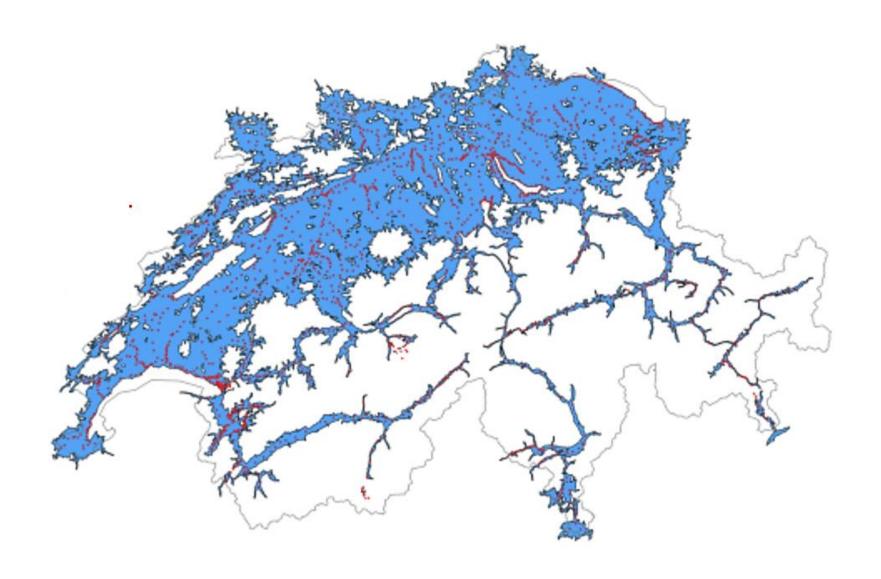


SBB Cargo 180,000 tonnes of freight/day







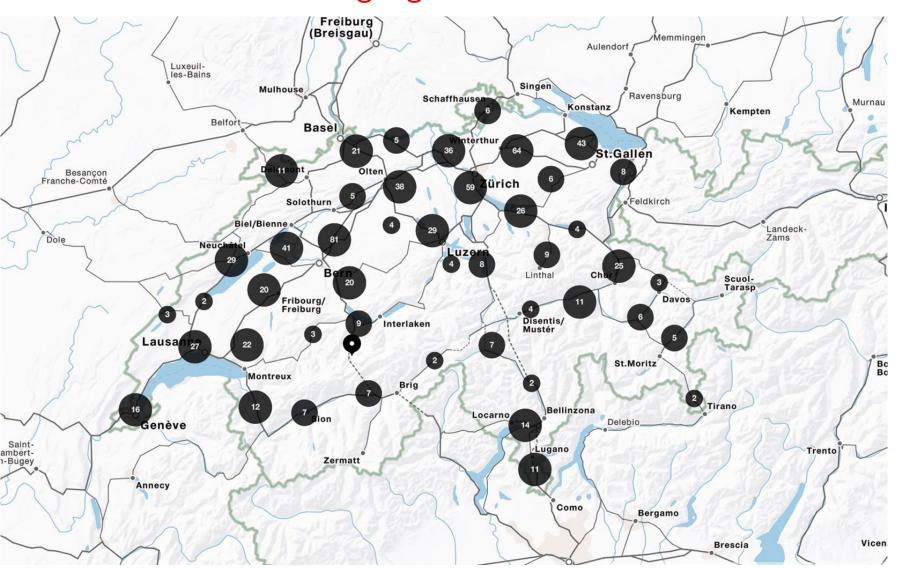


99% of the Swiss population lives within 15 minutes from the nearest train station.



And yet: the share of public transport is only 18%.

P+Rail: Bridging Car and Train Travel.





30 000

Parking spaces.



600

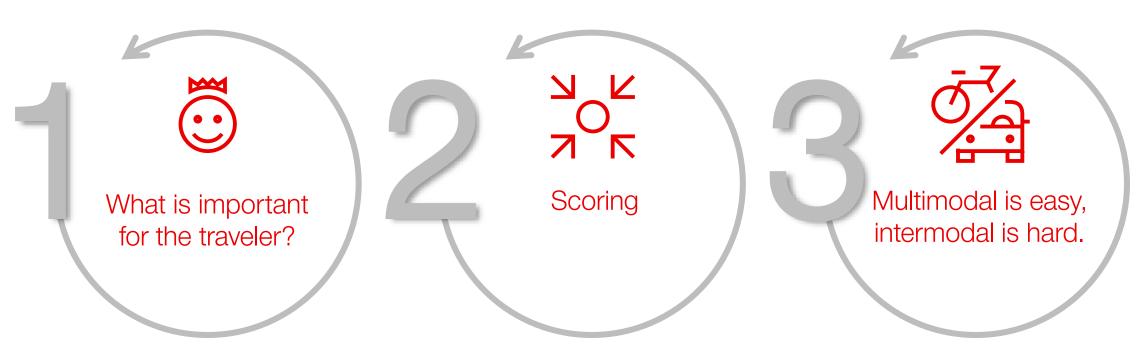
P+R locations at train stations.



50

locations that allow for parking space reservation.

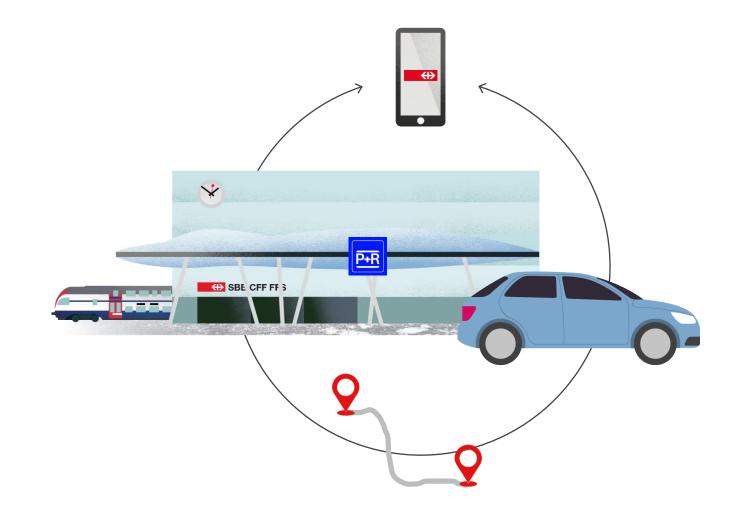
The Challenge of Interconnected Routing.



Optimize for costs, travel time, number of transfers, reliability, sustainability. How many and which routing suggestions should the traveler receive?

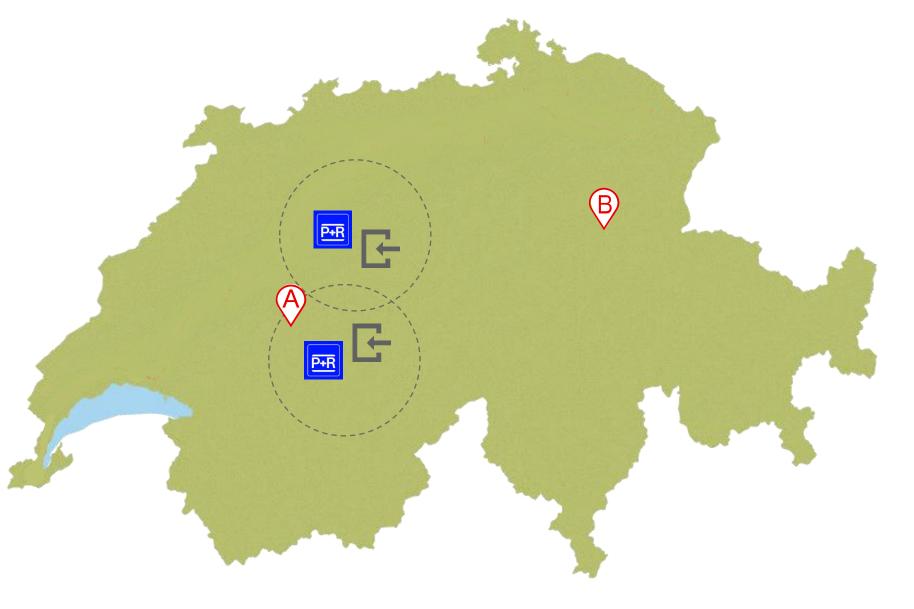
Trust in suggestions improves with consideration of street delays before train departures.

3 Steps to interconnected routing.

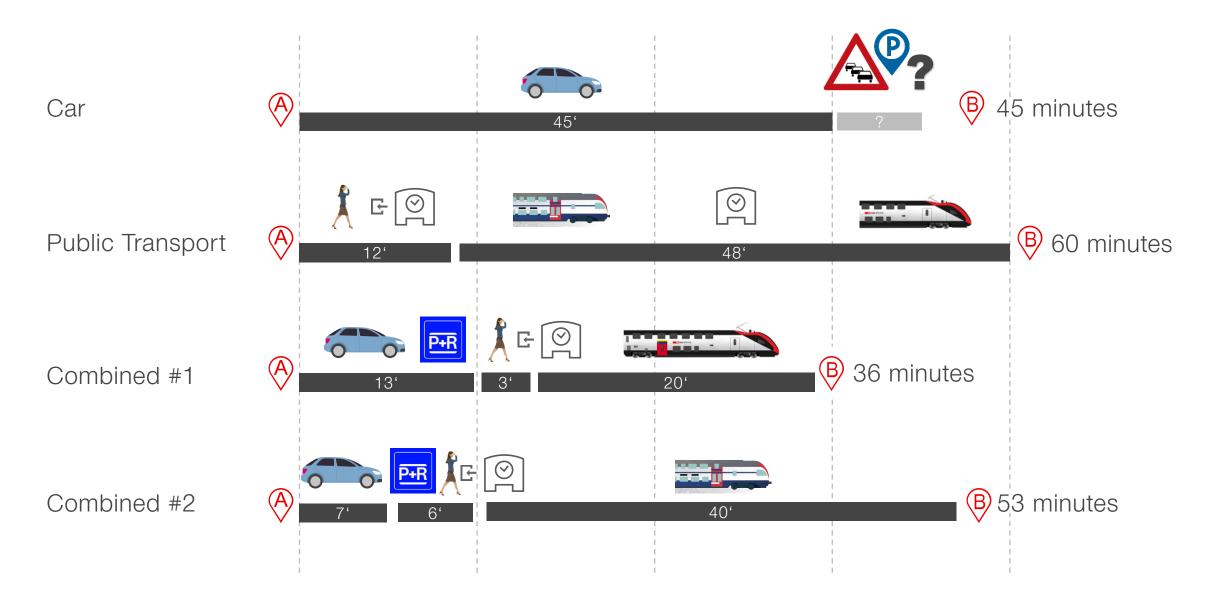


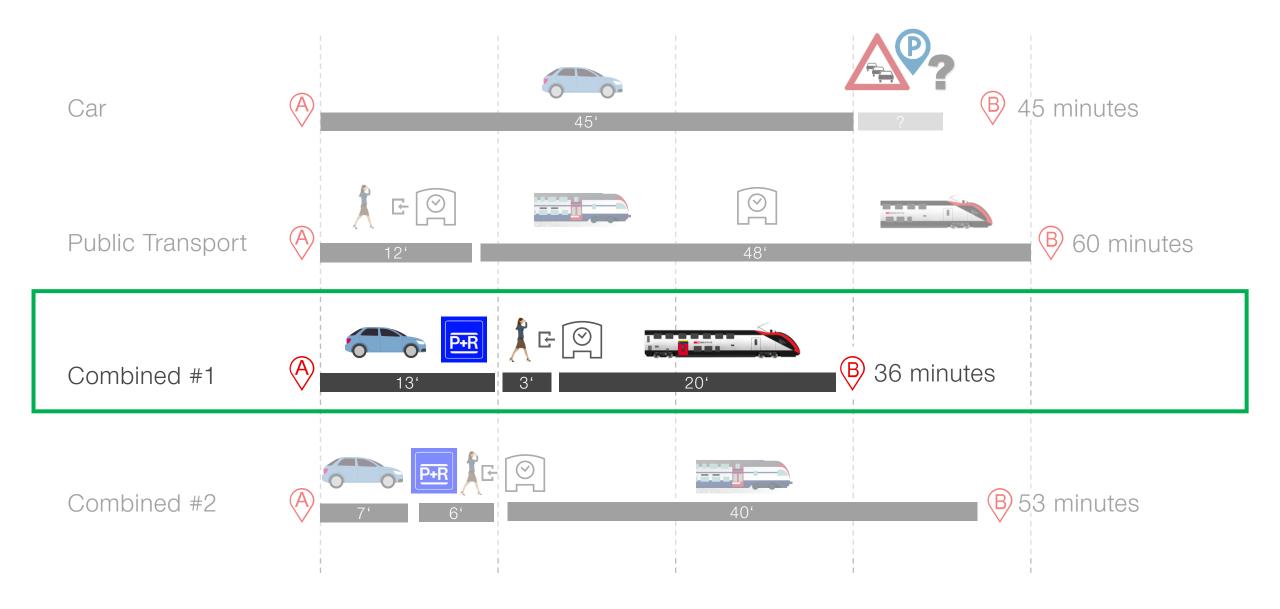


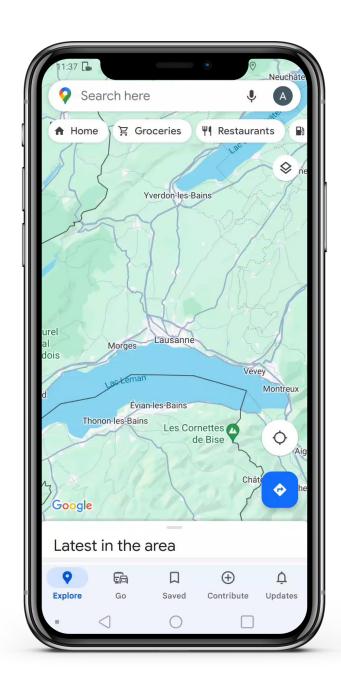
#2
Identify the best possible station entrances — at each of the P+R locations.



#3 Connect the first mile trip to the public transport offering.







Don't be afraid to be a copycat.

Join the movement towards better mobility in Switzerland.

We are here for you. The SBB Team for the Lauzhack 2023.



Adrian Houriet
Challenge Owner

Senior Project Manager First and Last Mile Responsible for P+Rail



Fabio Schmieder Challenge Owner

Digital Business
Developer



Christian Trachsel
Data and Open Data

Solution Architect
Customerinformation
and Open Data.



Keira Correll
Career Opportunities

Organizationalmanager
Digitalization and Lead
Hackathons.

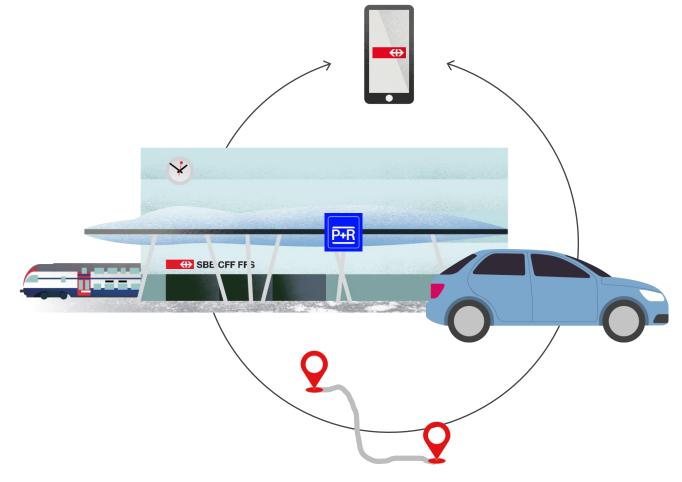


Enhancing mobility with interconnected solutions.

Create a sophisticated routing engine for varied mobility needs, blending personal vehicles, SBB's Park and Rail, and public transport.

Focus on an intuitive system that allows users to seamlessly combine travel modes, optimizing for minimal transfers, reduced travel time or other criteria.

Aim for a sustainable solution catering to both urban and rural users, enhancing intermodal connectivity.





The Challenge.

Enhancing mobility with interconnected solutions.

Switzerland's diverse landscape calls for a mobility solution that is as flexible and varied as the needs of its people. Our vision is clear: create a sustainable and interconnected transportation system that serves everyone, from city dwellers to countryside residents.

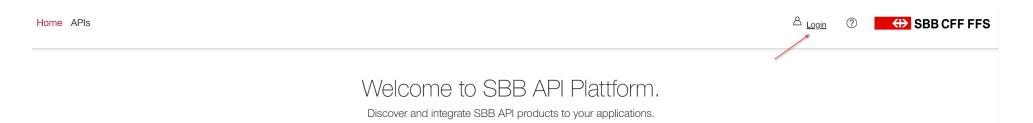
This challenge seeks an innovative travel planner integrating personal vehicle use, SBB's Park and Rail, and public transport. Your task is to create a tool enabling users to choose their ideal combination of intermodal travel options, using the personal car and public transport.

The planner should be powered by an advanced algorithm focused on **optimizing interconnected routes based on various criteria**, such as minimizing transfers or reducing travel time, rather than merely selecting the closest Park and Rail option. The aim is a user-friendly system that facilitates smart and intermodal routing.

Data.

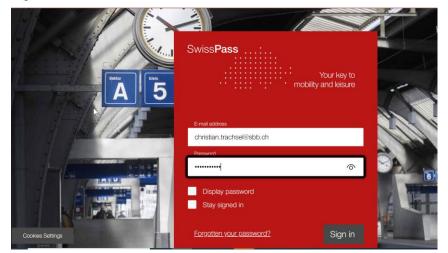


Anmelden auf developer.sbb.ch



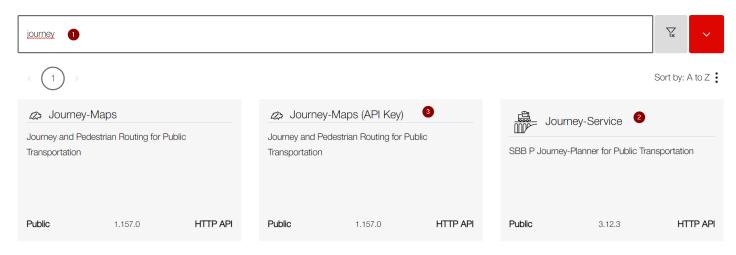
< Back to Developer-Portal

Sign in with SwissPass.



Für developer muss mit dem Swisspass login gemacht werden.

All APIs



- 1) Suche nach Journey
- 2) Journey-Service Fahrplansuche
- 3) Journey-Maps (Api-Key) geographische Repräsentation der Rese

Data / API

journey - Service

- URL: https://journey-service-int.api.sbb.ch:44
- Client Secret MU48Q~luD6lawz3QfvkmMiKHtfXBf-ffKoKTJdt5
- clientID f132a280-1571-4137-86d7-201641098ce8
- scope api://c11fa6b1-edab-4554-a43d-8ab71b016325/.default
- token Endpoint: https://login.microsoftonline.com/2cda5d11-f0ac-46b3-967d-af1b2e1bd01a/oauth2/v2.0/token

journey-maps

- url: https://journey-maps-apikey.api.sbb.ch
- api_key: bf9e3a88ab8101ba22ba8c752bbbcfd8
- aufruf: As a request parameter:GET /path?api_key=YOUR_API_KEY or as a request header:GET /path HTTP/1.1 X-API-Key: YOUR_API_KEY

journey-map-tiles - Karte

- url: https://journey-maps-tiles.api.sbb.ch
- api_key: 8ff1e3c393578b6463f8a24b6baf0fd6
- aufruf: As a request parameter:GET /path?api_key=YOUR_API_KEY or as a request header:GET /path HTTP/1.1 X-API-Key: YOUR_API_KEY

Park and Rail Places: https://data.sbb.ch/explore/dataset/mobilitat/table/?q=parkrail_anzahl+%3E+0