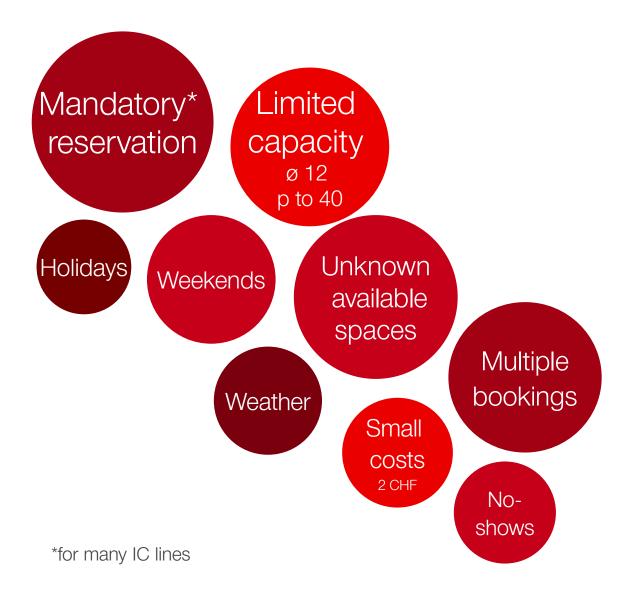
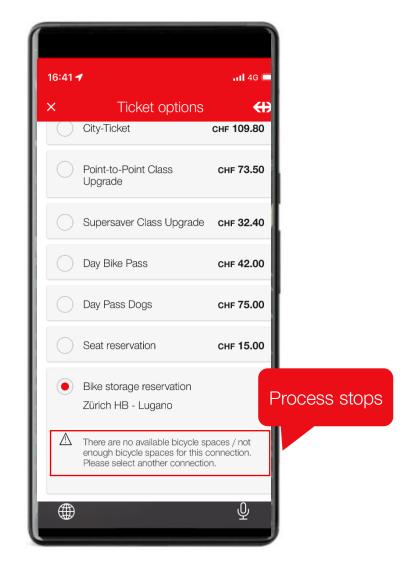




Current situation.





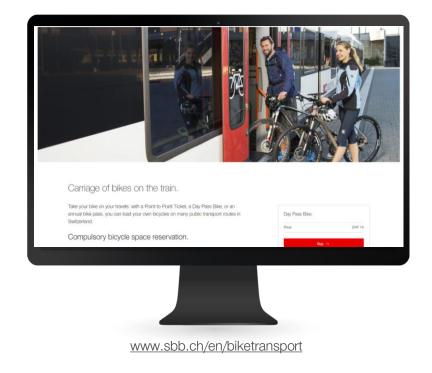
The best solution is going to be published on a seperate website, where customers can see the last possible moment to make a reservation.

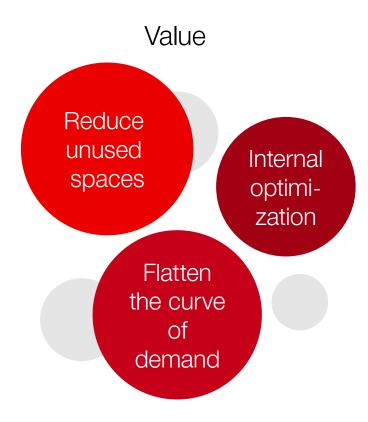
Solution



*SBB reservation backend system is going to be replaced

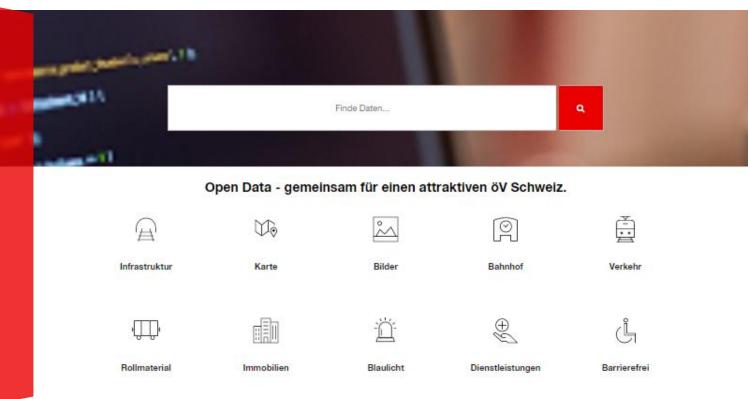
Publishing channel





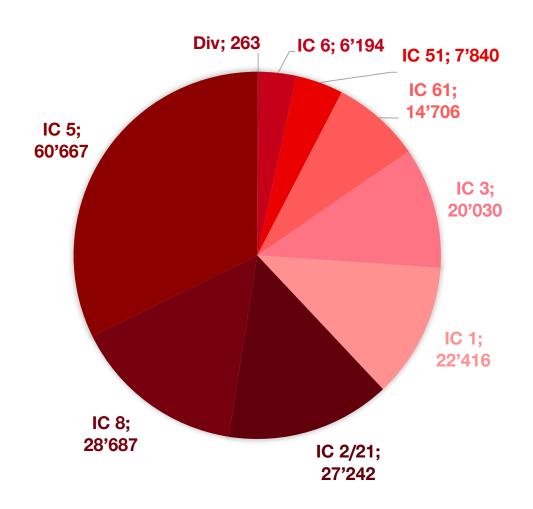


To build your forecast we offer several data sources.



Some facts and figures.

RESERVATIONS ACCORDING TO LINES

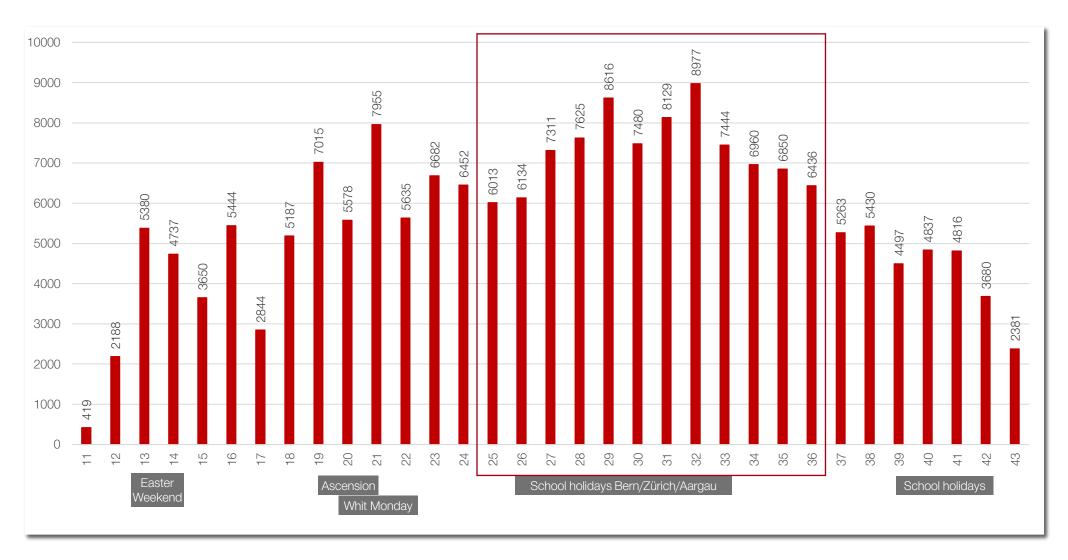


TOP 10 RESERVATIONS (TRAINS)

Train No.	Departure place/time	Volume
IC21 684	Lugano ab 16.02	2'101
IC2 886	Lugano ab 17.02	2'014
IC5 514	Zürich HB ab 9.04	1'892
IC5 529	Biel/Bienne ab 16.46	1'877
IC2 865	Zürich HB ab 9.05	1'766
IC8 829	Brig ab 16.48	1'691
IC8 806	Bern ab 08.07	1'677
IC21 663	Basel SBB ab 7.03	1'535
IC2 882	Lugano ab 15.02	1'533
IC8 808	Bern ab 09.07	1'488

Trains IC2/21 and IC5 require a bike reservation every day from 21 March until 31 October. Trains IC8 only from Friday to Sunday.

Bike reservations per calendar week in 2021.



Historical bicycle reservation data.





Historical reservations.

- CSV-files includes booking time, routes, number of spaces etc.
- Beginning of periode all data: 2020
- Data from 2019* is only available for IC2/21 (Gotthard) and IC5/51 (Jurasüdfuss)

Capacity

- Contains additionally actual capacity data («Ist-Kapazität»)
- Attention: Data is pervated by errors (probably periodical transmissons errors)

Annual Formation.



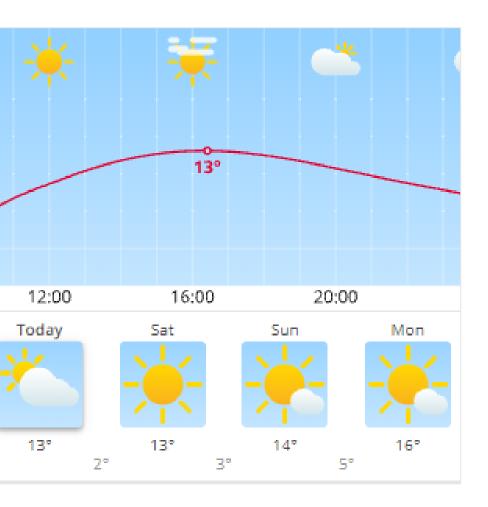
https://data.sbb.ch/explore/dataset/jahresformation/table/?refine.beginnfahrplanperiode=Fpl-2022

In the annual formation Information you can find the amount of bikehooks.

The key of the table is "zug". The Formation is "block_bezeichnung". In the field "bitmap" you can find for each day of the period a "x" where the formation is valid. Beginning of the period: 12.12.2021

DCAT-AP for Switzerland							
Domain Rights	schweizerische-bundesbahnen-sbb NonCommercialAllowed-CommercialAllowed-ReferenceRequired						
Dataset schema Click to collapse Train							
Train number		Name (identifier) Type Sample	zug decimal				

Weather Data.



We provide historical weather data for a few points in switzerland

- IC 8 Romanshorn Zürich Bern Brig: Brig/Visp, Saas-Fee, Oberwald, Torrent
- IC 3 Basel Zürich Chur: Davos, Samedan, Marguns, Laax
- IC 5 Rorschach Zürich Biel Neuchatel Lausanne/Genève: Biel, Neuchâtel, Yverdon
- IC 2/21 Basel/Zürich Bellinzona Lugano: Bellinzona und Lugano

leisure_biking:idx → index 0 to 1 to indicate how well you can bike snow_depth:cm → deepth of snow at this point t_2m:C, →actual temperature precip_24h:mm → amount of rain during the last 24 hours weather_symbol_1h:idx → summary of the weather in the last hour link effective_cloud_cover:octas → index of cloud coverage

Details on Available Parameters | Meteomatics

Holidays in Switzerland.

Each canton has different holidays. We collected all of them in one list.



A	В	С	D	Е	F	G	Н
1 Kanton	Sportfe	rien	Frühling	gsferien	Somme	erferien	Herbstfer
2 Aargau			12.04.2022	23.04.2022	19.07.2022	19.07.2022	04.10.2022
3 Ausserrhoden			12.04.2022	23.04.2022	12.07.2022	13.08.2022	11.10.2022
4 Basel-Land	13.02.2022	28.02.2022	27.03.2022	11.04.2022	03.07.2022	15.08.2022	02.10.2022
5 Graubügden	01.03.2022	05.03.2022	19.04.2022	30.04.2022	01.07.2022	15.08.2022	11.10.2022
6 Uri	27.02.2022	07.03.2022	01.05.2022	16.05.2022	03.07.2022	15.08.2022	02.10.2022
7 Innerrhoden	12.02.2022	21.02.2022	10.04.2022	25.04.2022	03.07.2022	15.08.2022	09.10.2022
8 Basel-Land	13.02.2022	28.02.2022	27.03.2022	11.04.2022	10.07.2022	15.08.2022	02.10.2022
9 Basel-Stadt	13.02.2022	27.02.2022	27.03.2022	10.04.2022	03.07.2022	14.08.2022	02.10.2022
0 Bern			10.04.2022	25.04.2022	03.07.2022	15.08.2022	25.09.2022

Timetable information and annual formation gives you

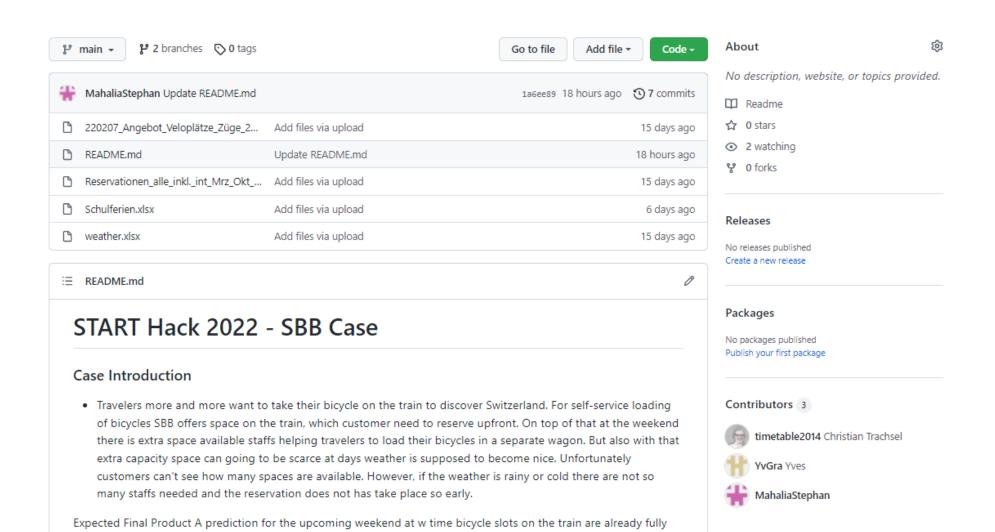
Open Journey Planer- Service - timetable search.

- OJP allows you to look for trips
- After you find a trip, you can look for the specific formation (cars which are in the train). In this formation information
- Description of the service: <u>OJP Open Journey</u> <u>Planner | Open-Data-Plattform Mobilität Schweiz</u> <u>(opentransportdata.swiss)</u>
- Endpoints to use: Trip Request
- Credentials: find on the website

Opendata Transport Service - timetable search

- Opendata. & search.ch provide easy timetable search
- Limited usage (1000 times a day.)
- Description of the service: Transport API (opendata.ch)
- Endpoints to use: /connections
- No Credentials needed





booked. So customers can get the information of the latest timeslot they probably should book their reservation to get a free bicycle space depending on the train or trainline. Furthermore, internal staffing can be adjusted upfront

depending on the predicted demand for bicycle transportation.

Who will help us to enable our customers to have a joyful ride at the weekend?



