

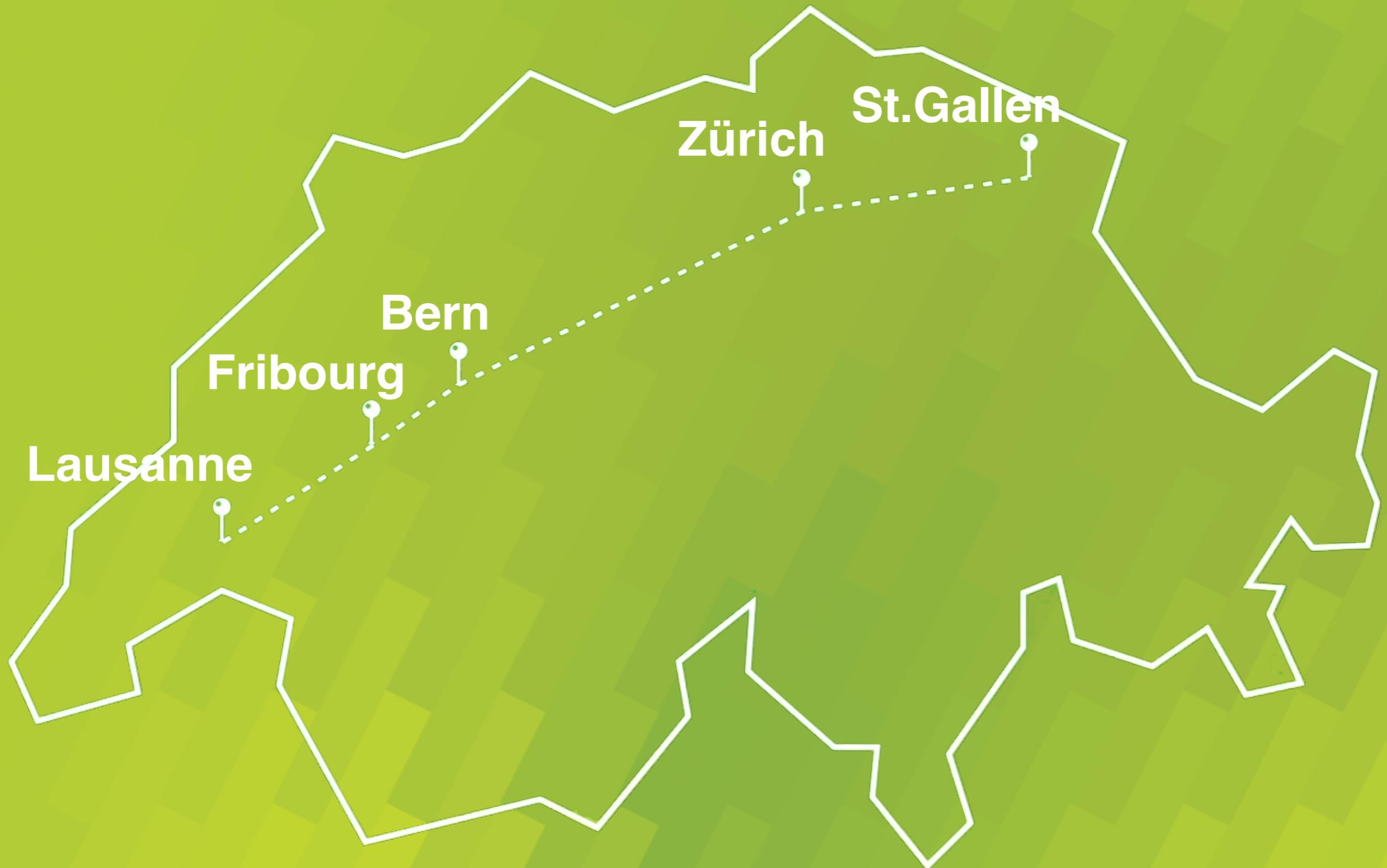
# BUCHSTABENSALAT

Was steht hinter all diesen Buchstaben ..

—

**.. UND WAS BEDEUTEN DIESE  
FÜR DIE PLANUNG UND  
UMSETZUNG VON IT  
PROJEKTEN HEUTE UND IN  
DEN NÄCHSTEN JAHREN?**

# Liip AG



# **MONOLITHISCHE PROJEKTE**

**HYPE**

**MOBILE**

**API**

**"ABO-VERLÄNGERUNG AUF  
EINEN KLICK – WIE SWISSCOM  
MIT APIS IHRE TÜREN ÖFFNET  
UND SO DIE USER EXPERIENCE  
VERBESSERT"**

[IPT.CH/ABO-VERLAENGERUNG-AUF-EINEN-KLICK-WIE-SWISSCOM-MIT-APIS-IHRE-TUEREN-OEFFNET-UND-SO-DIE-USER-EXPERIENCE-VERBESSERT/](https://IPT.CH/ABO-VERLAENGERUNG-AUF-EINEN-KLICK-WIE-SWISSCOM-MIT-APIS-IHRE-TUEREN-OEFFNET-UND-SO-DIE-USER-EXPERIENCE-VERBESSERT/)

# TRANSPORT

## Swiss Public Transport API

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### Introduction

The Transport API allows interested developers to build their own applications using public timetable data, whether they're on the web, the desktop or mobile devices. The aim of the API is to cover public transport within Switzerland.

If you are looking for a download of all data please check [www.fahrplanfelder.ch](http://www.fahrplanfelder.ch) for the official timetable data for Switzerland. A converted version in GTFS is available on [gtfs.geops.ch](http://gtfs.geops.ch).

The source code of the Transport API can be found on [GitHub](https://github.com), please ask any technical questions there. If you need a direct contact write an email to [transport@opendata.ch](mailto:transport@opendata.ch).

 Documentation

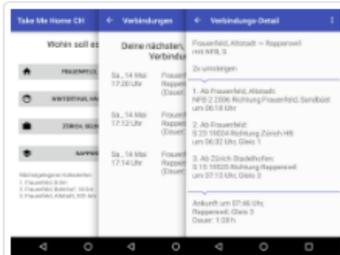
 Examples

 Showcase

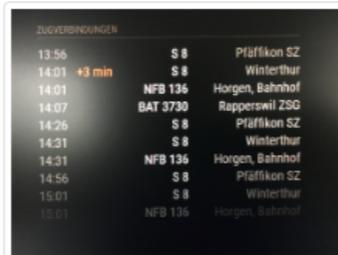
 Status

 Statistics

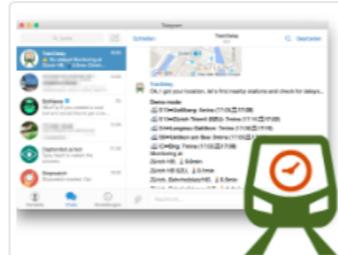
# SHOWCASE



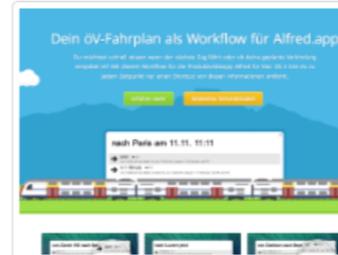
**TakeMeHome.ch**  
takemehome.ch



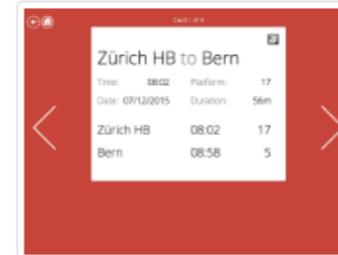
**MagicMirror² module**  
github.com/Bangee44/MMM-swisstransport



**TrainDelayBot**  
geo.ebp.ch



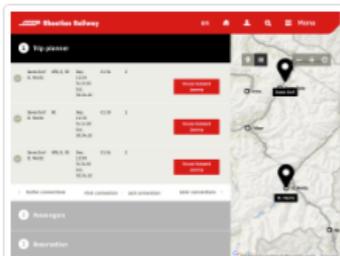
**Workflow Alfred.app**  
www.josefweibel.ch/alfred/fahrplan



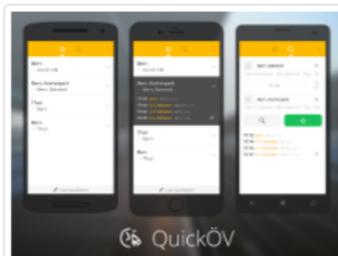
**Transitor**  
transitor.herokuapp.com



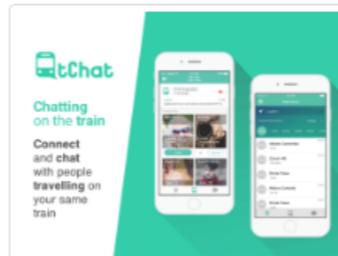
**S-Bahn Ostermündigen - Bern**  
sprain.ch/letrain



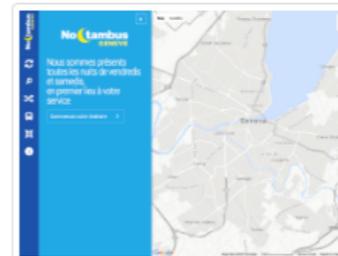
**Rhätische Bahn**  
www.rhb.ch



**QuickÖV App**  
billhillapps.com



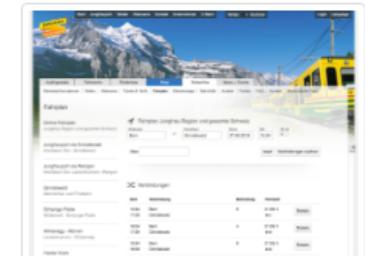
**tChat App**  
tchat.ch



**Noctambus**  
noctambus.ch/carte



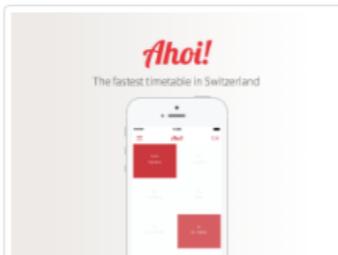
**RegionAlps**  
velo.regionalps.ch



**Jungfrau Bahnen**  
www.jungfrau.ch



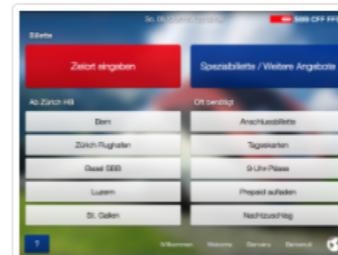
**Pendler-Check**  
www.pendler-check.ch



**Ahoi! App**  
ahoi.rocks



**Swiss Public Transport**  
trnsprt.ch



**Prototyp David Simon**  
sbb.davidsimon.ch

# TRANSPORT

Swiss Public Transport API

## Statistics

Total calls

672'501'678

Average calls per day

422'691

Max calls for one day

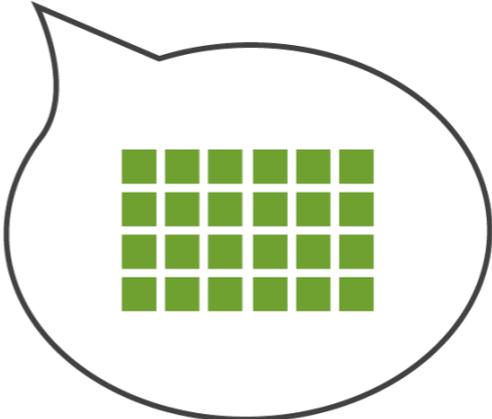
1'782'242



# THE SERVER



# THE DATA



# THE JSON



# API

Open APIs allow you access to the same data



CLIENT  
**WWW.DIY.ORG**



CLIENT  
**DIY APP**



CLIENT  
**YOUR APP**

# API

**ERMÖGLICHT FÖDERALISMUS  
IN IT PROJEKTEN**

# API

**IST OFT AUCH EIN MONOLITH  
UND DAS IST OK**

**HERAUSFORDERUNG  
IN EINEM API PROJEKT  
IST ANDERS ALS IN EINEM  
GUI PROJEKT**

# API

**ERMÖGLICHT INNOVATION  
BEI MINIMALLEN RISIKEN**

# API

**API MUSS FÜR JEDEN  
EINFACH NUTZBAR SEIN**

..UND WAS BRAUCHT  
ER FÜR EINE  
**NUTZBARE API?**

# **DOKUMENTATION**

**SWAGGER VS. RAML**  
**XML/JSON SCHEMA**

**PROTOCOL**

**XML VS. JSON**

**REST VS...**

**HAL VS. JSON API**

# **AUTHENTIFIKATION**

## **OAuth (2) JSON WEB TOKEN**

**CONTINUOUS INTEGRATION  
CONTINUOUS DELIVERY  
MICRO SERVICES**

**DEVOPS**

**CONTAINER  
AUTOMATISIERTE TESTS**

**API**

**FÖDERALISMUS**

**INNOVATION**

**RISIKEN MINIMIEREN**

**TIEFERE PREISE**



Agile Web Development  
Liip.ch

—

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**VIELEN DANK!**