

# OJP 2.0 - Blick in die Werkstatt

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Online-Meet-Up, **13. Mai 2024**

**Systemaufgaben Kundeninformation**

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# Wer spricht heute zu euch?



**Christoph Lucas**  
Product Owner  
Open Journey Planner



**Vasile Cotovanu**  
Development



**Andreas Glauser**  
Businessanalyst SKI+



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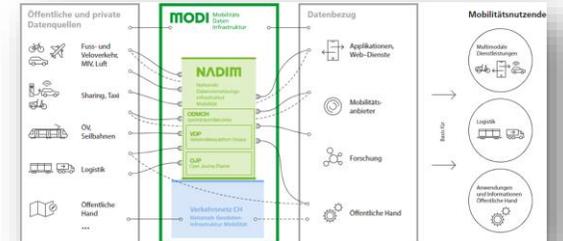
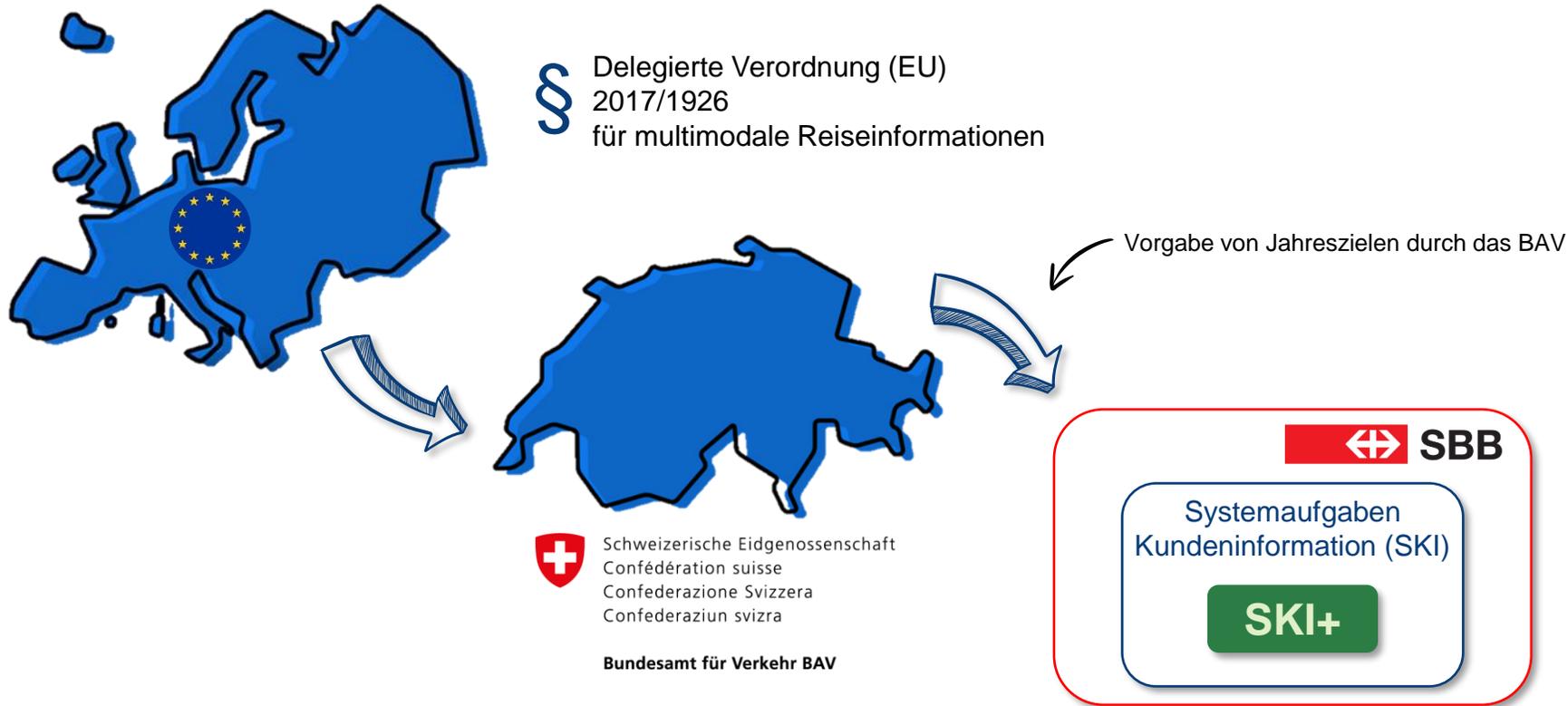


**Christine Matt**  
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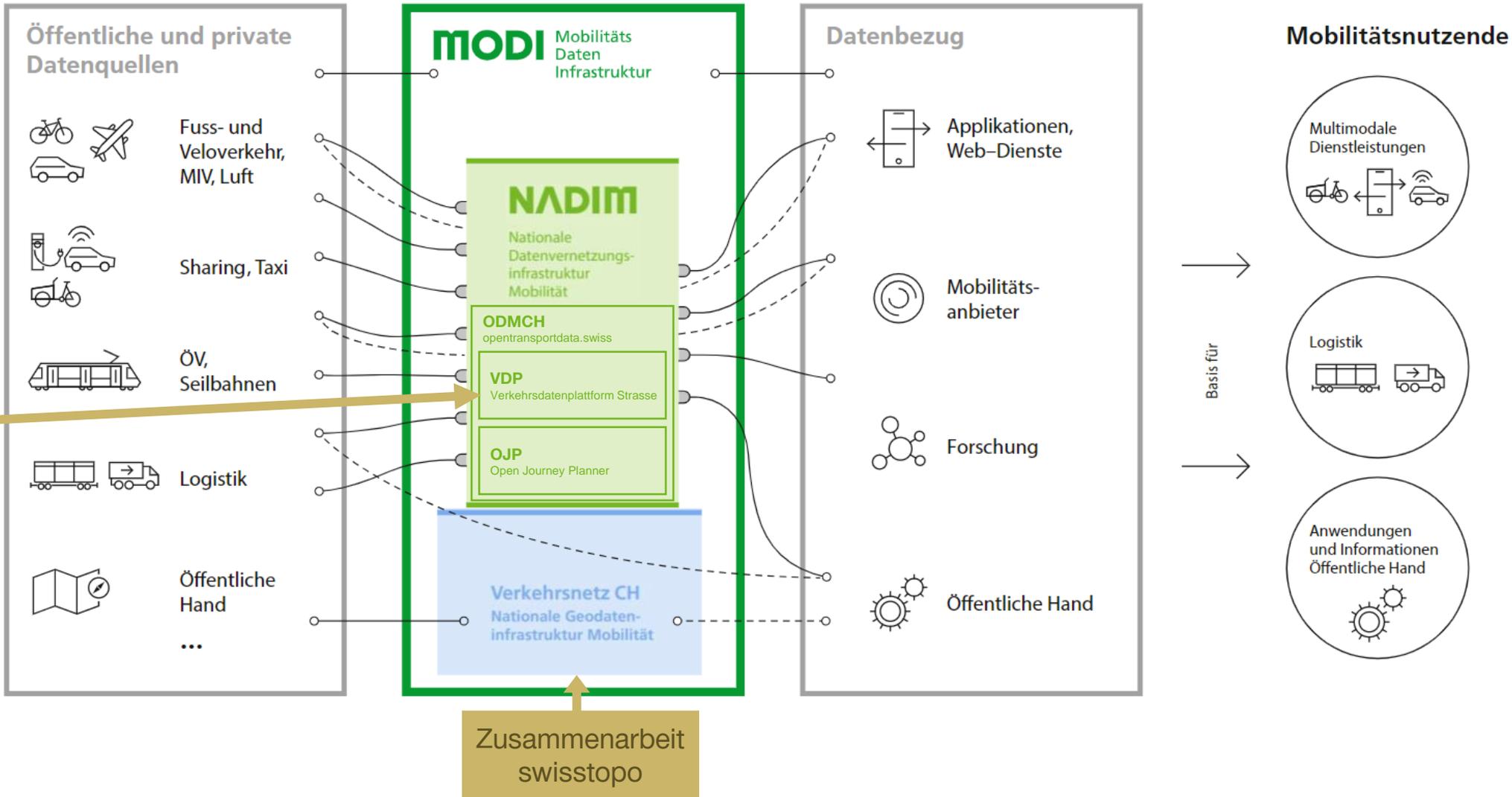
**Kontakt und Feedback:** [opendata@sbb.ch](mailto:opendata@sbb.ch)

Woher kommen  
wir?

## Auftrag des Bundesamtes für Verkehr (BAV): die Delegierte Verordnung für die Schweiz umsetzen.



opentransportdata.swiss mit dem OJP und der VDP ist Teil der Nationalen Datenvernetzungsinfrastruktur Mobilität (NADIM).







Journey Search **Station Board**

Search

From

Wyleregg

Choose Monomodal / Multimodal

Mode at End

Choose MOT (Mode of Transport)

Car Sharing

To

46.876840,7.493113

Choose Day

Time

< Tu, 05.03.2024 >

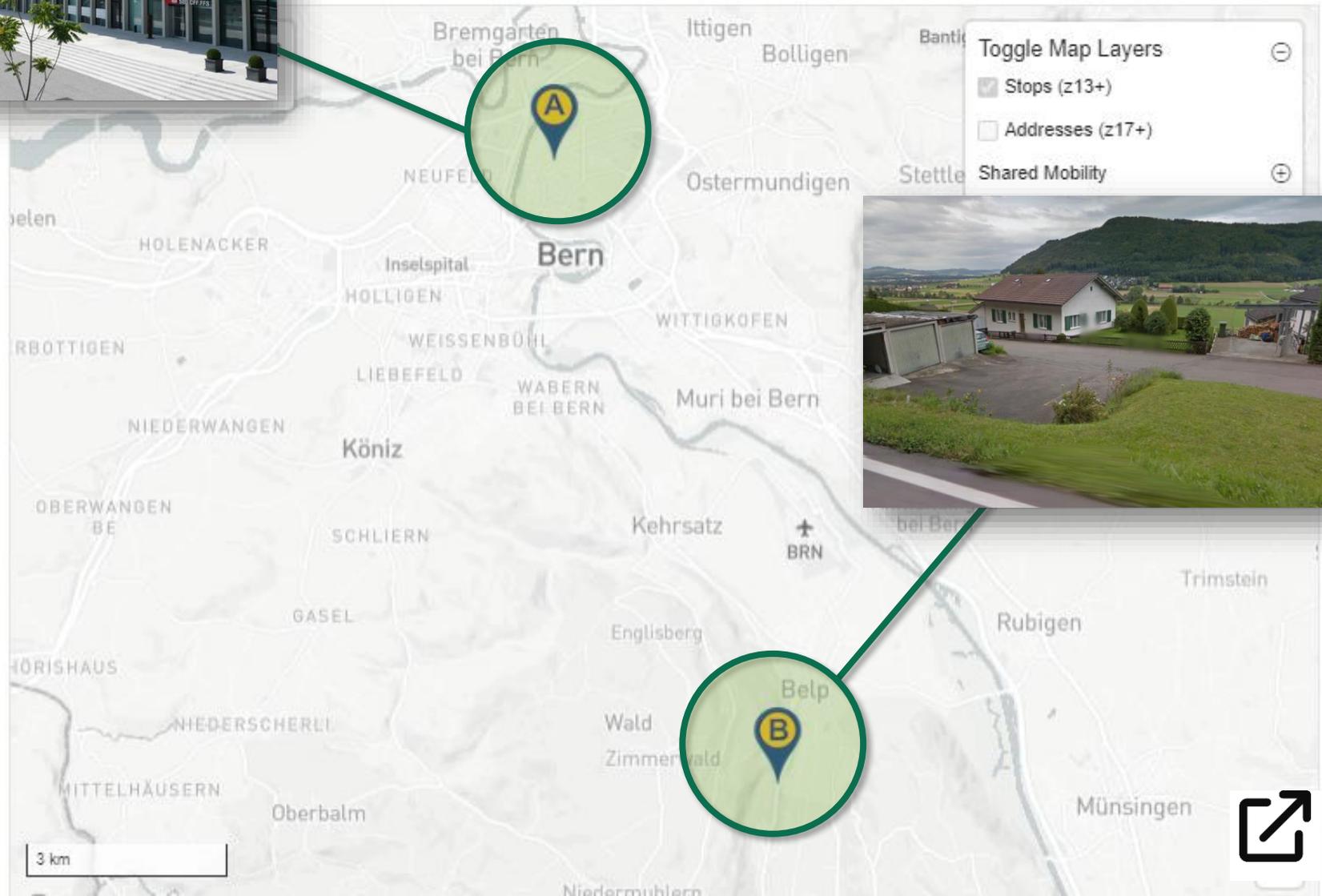
13:30

PROD  INT  TEST  LA Beta

[Search Journeys](#)

[Debug XML](#)

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[Embed](#) [Permalink](#) 4.01 sec

Trip 1 - 2 transfers  
38min - 17.5km

- B 20 17148 (827) 6min (🚲) NF  
Bern, Wyleregg  
Bern, Bahnhof  
Pl. F
- Transfer 2min  
Bern, Bahnhof
- Bern, Bahnhof
- T 9 6594 (827) 9min (🚲) NF  
Bern, Bahnhof  
Pl. C  
Wabern, Gurtenbahn  
Pl. B
- Walk 2min  
Wabern, Gurtenbahn  
142 m 2EM Car Sharing, Renault Megane
- Drive 19min  
2EM Car Sharing, Renault Megane  
Belp, 46.876840,7.493113

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[Embed](#) [Permalink](#) 4.06 sec

Trip 1 - 2 transfers  
43min - 17.5km

- B 20 16315 (827) 6min (🚲) NF  
Bern, Wyleregg  
Bern, Bahnhof  
Pl. F
- Transfer 2min  
Bern, Bahnhof
- Bern, Bahnhof
- B 10 7043 (827) 14min (🚲) NF  
Bern, Bahnhof  
Pl. I  
Schliern, Eichmatt
- Walk 5min  
Schliern, Eichmatt  
331 m Mobility, Schliern b. Köniz Schaufel
- Drive 27min  
Mobility, Schliern b. Köniz Schaufel

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[Embed](#) [Permalink](#) 3.90 sec

- |   |  |
|---|--|
| Trip 1 - 2 transfers<br>41min - 17.5km  | 15:03<br>15:43   |
| Trip 2 - 2 transfers<br>48min - 16.1km  | 15:03<br>15:50   |
| <span style="background-color: #0070c0; color: white; padding: 2px 5px; font-weight: bold;">B 20 16598 (827) 6min</span> <span style="font-size: 0.8em;">(🚲) NF</span><br><span style="font-size: 0.8em;">Bern, Wyleregg</span><br><span style="font-size: 0.8em;">Bern, Bahnhof<br/>Pl. F</span> | <span style="background-color: #0070c0; color: white; padding: 2px 5px; font-weight: bold;">MAP</span><br>(♿) 15:03<br>(♿) 15:09 |
| <span style="background-color: #0070c0; color: white; padding: 2px 5px; font-weight: bold;">Transfer 6min</span><br><span style="font-size: 0.8em;">Bern, Bahnhof</span>  | <span style="background-color: #0070c0; color: white; padding: 2px 5px; font-weight: bold;">MAP</span><br>8min                   |
| <span style="font-size: 0.8em;">Bern</span>   | 15:17  |
| <span style="background-color: #0070c0; color: white; padding: 2px 5px; font-weight: bold;">531 30054 (33) 9min</span><br><span style="font-size: 0.8em;">Bern<br/>Pl. 2</span><br><span style="font-size: 0.8em;">Wabern bei Bern<br/>Pl. 1</span>   | <span style="background-color: #0070c0; color: white; padding: 2px 5px; font-weight: bold;">MAP</span><br>(♿) 15:26              |
| <span style="background-color: #0070c0; color: white; padding: 2px 5px; font-weight: bold;">Walk 4min</span><br><span style="font-size: 0.8em;">Wabern bei Bern</span><br><span style="font-size: 0.8em;">250 m Mobility, Wabern Parkhaus Gurtenbahn</span>                                       | <span style="background-color: #0070c0; color: white; padding: 2px 5px; font-weight: bold;">MAP</span><br>4min                   |
| <span style="background-color: #0070c0; color: white; padding: 2px 5px; font-weight: bold;">Drive 21min</span>  | <span style="background-color: #0070c0; color: white; padding: 2px 5px; font-weight: bold;">MAP</span>                           |

Search ▼

[Embed](#) [Permalink](#) 4.06 sec

# Warum OJP 2.0

# OJP 2.0 - Warum

- OJP 1.0 mehr für klassives öV-Routing
- Intermodal nicht vollständig unterstützt
- Limitierte User Preferences
- EU/1926/2017 – mehr Daten zu berücksichtigen.
- Linien, die nicht für alle brauchbar sind
- On Demand-Verkehre
- Weiterentwicklung NeTEx und Transmodel auch in Richtung Multimodalität
- Basierend auf alter SIRI-Version  
(Störungsmeldungen etc massiv erweitert)



Official Journal  
of the European Union

EN  
L series

2024/490 13.2.2024

**COMMISSION DELEGATED REGULATION (EU) 2024/490**

**of 29 November 2023**

**amending Delegated Regulation (EU) 2017/1926 supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to the provision of EU-wide multimodal travel information services**

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2010/40/EU of the European Parliament and of the Council of 7 July 2010 on the framework for the deployment of Intelligent Transport Systems in the field of road transport and for interfaces with other modes of transport <sup>(1)</sup>, and in particular Article 7 thereof,

Whereas:

- (1) The Commission's Communication on a Sustainable and Smart Mobility Strategy <sup>(2)</sup> identifies the deployment of Intelligent Transport Systems (ITS) as a key action in achieving connected and automated multimodal mobility, and therefore contributing to the transformation of the European transport system to reach the objective of efficient, safe, sustainable, smart and resilient mobility. The strategy announced a revision of Commission Delegated Regulation (EU) 2017/1926 <sup>(3)</sup> to include mandatory accessibility of dynamic datasets, which is needed to achieve the policy objectives of this strategy, as well as an assessment of the need for regulatory action on rights and duties of multimodal digital service providers.
- (2) The European Green Deal <sup>(4)</sup> highlights the increasing role of automated and connected multimodal mobility, together with smart traffic management systems enabled by digitalisation, and the objective of supporting new sustainable transport and mobility services that can reduce congestion and pollution, especially in urban areas. Delegated Regulation (EU) 2017/1926 supports the shift towards more sustainable transport modes, including the use of active modes, such as walking and cycling. By mandating the accessibility of dynamic datasets and new static, historic and observed datasets, as proposed by the amendments to Delegated Regulation (EU) 2017/1926, multimodal travel information services may enhance the information and service to the passenger, to boost multimodal mobility and reduce emissions, in line with the objectives set out in the European Green Deal.
- (3) The European strategy for data <sup>(5)</sup> describes how making more data available is essential for tackling societal, climate and environment-related challenges. The strategy emphasises the benefits that data-driven innovation will bring for citizens and proposes the creation of EU-wide common, interoperable data spaces in strategic sectors, including a common European mobility data space. In that respect, Delegated Regulation (EU) 2017/1926 contributes to the increased accessibility and sharing of data on multimodal travel information. By mandating the accessibility of dynamic datasets as proposed by the amendments to Delegation Regulation (EU) 2017/1926, more data will be made accessible and shared, in line with the objectives of the European strategy for data.

<sup>(1)</sup> OJ L 207, 6.8.2010, p. 1.  
<sup>(2)</sup> Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions 'Sustainable and Smart Mobility Strategy – putting European transport on track for the future' (COM(2020) 789 final of 9.12.2020).  
<sup>(3)</sup> Commission Delegated Regulation (EU) 2017/1926 of 31 May 2017 supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to the provision of EU-wide multimodal travel information services (OJ L 272, 21.10.2017, p. 1).  
<sup>(4)</sup> Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions 'The European Green Deal' (COM(2019) 640 final of 11.12.2019).  
<sup>(5)</sup> Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions 'A European strategy for data' (COM(2020) 66 final of 19.2.2020).

ELI: [http://data.europa.eu/eli/reg\\_del/2024/490/oj](http://data.europa.eu/eli/reg_del/2024/490/oj)

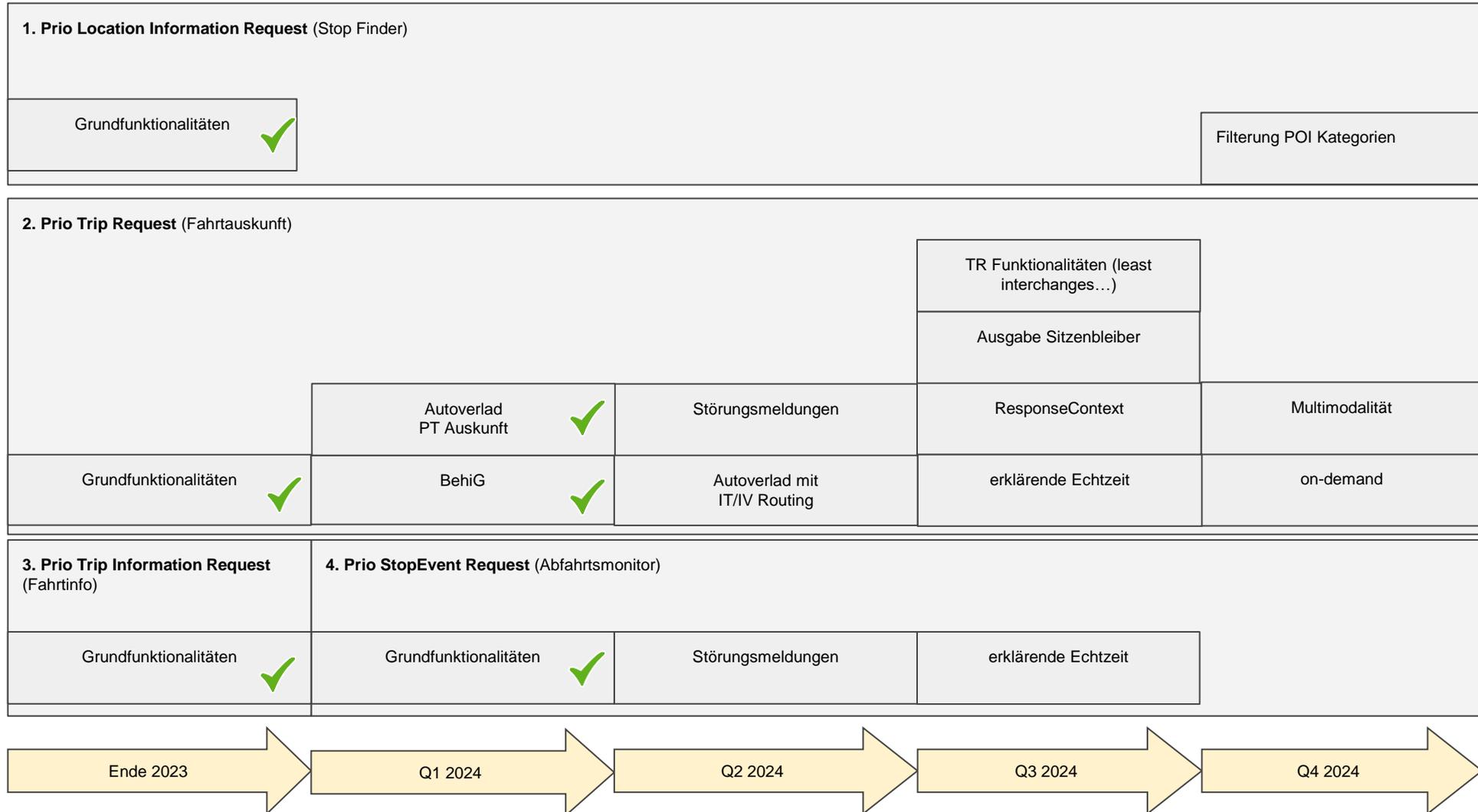
1/13

<https://eur-lex.europa.eu/legal-content/DE/ALL/?uri=CELEX%3A32017R1926>

[https://eur-lex.europa.eu/eli/reg\\_del/2024/490/oj](https://eur-lex.europa.eu/eli/reg_del/2024/490/oj)

# Roadmap OJP 2.0-Umsetzung

# Umsetzung OJP 2.0



# Neue Funktionalitäten mit OJP 2.0

# Neuen Funktionalitäten mit OJP 2.0

## Neue Dienste/Abfragen

- Statusabfrage (vom OJP-Service)
- Verfügbarkeit (inspiriert von TRIAS)
- Verfeinerung/Aktualisierung TRR (inspiriert von TRIAS)
- Teil-Neuberechnungsdienst TCR (neu)
- Informationen zu Linien

## Neue Konzepte

- Formationen (von SIRI 2.1)
- Belegung (von SIRI 2.1)
- Unterstützung des bedarfsgerechten Verkehrs
- Mehr Informationen für Shared-Mobility
- Weitere Angleichungen an Transmodel von CEN

## Aktualisierung

- Weitere Optimierungsmethoden
- Angleichung an EPIAP (NeTEx Teil 6), z.B. Unterstützung für PathLink, AccessibilityFeature
- Mehr Möglichkeiten für Fehlerbehandlung
- Neue Filter: Operator, Tarifzonen
- Zusätzliche Beispiele
- ...

## Änderungen (ohne Anspruch auf Vollständigkeit)

- IDs aktualisiert
- Viele Vereinfachungen: z.B. Leg statt TripLeg
- Erklärende Echtzeit
- Mehrwertsteuersatz in Prozent
- Umgestellt auf SIRI 2.1
- Behebung von Fehlern
- ...

# Minimale BehiG Info aktuell

```
<LegAlight>
  <siri:StopPointRef>ch:1:slويد:7000:4:7</siri:StopPointRef>
  <StopPointName>
    <Text xml:lang="de">Bern</Text>
  </StopPointName>
  <NameSuffix>
    <Text xml:lang="de">NO_DATA</Text>
  </NameSuffix>
  ...
</LegAlight>
```



```
<LegBoard>
  <siri:StopPointRef>ch:1:slويد:7180:2:22</siri:StopPointRef>
  <StopPointName>
    <Text xml:lang="de">Thun, Bahnhof</Text>
  </StopPointName>
  ...
  <NameSuffix>
    <Text xml:lang="de">PLATFORM_ACCESS_WITH_ASSISTANCE</Text>
  </NameSuffix>
  ...
</LegBoard>
```



```
<LegBoard>
  <siri:StopPointRef>ch:1:slويد:90019:0:2</siri:StopPointRef>
  <StopPointName>
    <Text xml:lang="de">Bern, Sonnenhof</Text>
  </StopPointName>
  <NameSuffix>
    <Text xml:lang="de">PLATFORM_ACCESS_WITHOUT_ASSISTANCE</Text>
  </NameSuffix>
  ...
</LegBoard>
```



# Multimodales Routing (zukünftig)

1. Vorschläge ausgeben  
**TR-Service (verbessert)**

**B1 eScooter temporary overview**

VereinfachterOJP TripRequest mit Cycle am Anfang oder Ende. Zu Performance-Zwecken geht man davon aus, dass direkt ab Start- und Zielcoordinate ein Cycle zur Verfügung steht.

Von: Gallusstrasse (St. Gallen) 24  
Nach: Zürich Selnau

Abfahrt Jetzt    Suchoptionen

« Erste < Früher Später > Letzte »

1 Std. 23 Min. PT	1 Std. 19 Min. eScooter	Bike Sharing	P ODV
----------------------	----------------------------	--------------	----------

17:01 - 18:29    1 Std. 28 Min.    Preis nicht verfügbar  
🚲 > 🚆 IC1 > 🚆 S4

17:15 - 18:38    1 Std. 23 Min.    Preis nicht verfügbar  
🚶 > 🚆 EC > 🚲

17:01 - 18:29    1 Std. 28 Min.    Preis nicht verfügbar  
🚲 > 🚆 IC1 > 🚆 S4 > 🚲

2. Kunde wählt einen Trip aus  
**TCR-Service (neu)**

**B2 eScooter temporary details**

Anzeige Fahrtdetails.

17:15 - 18:38    1 Std. 23 Min.

🚶 > 🚆 EC > 🚶 > 🚲 Voi

< ZURÜCK    ↻

17:15    Auf dem Damm (St. Gallen) 17  
🚶    ↳ Fußweg: 930 m, 14 Min.

17:29    St. Gallen, St. Gallen  
+0

🚆    ↳ 2 Zwischenhalte, 58 Min.

18:27    +0

18:30    eScooter  
🚲    ↳ Fahrweg: 1.3 km, 7 Min.    **check**

18:38    Zürich Selnau

3. Echtzeit Aktualisierung zu  
Continuous-Legs  
**TRR-Service (neu)**

**B3 eScooter confirmed**

Bei einem der vorgeschlagenen Trips wird nun die definitive Verfügbarkeit für den entsprechenden Mode angefragt.

17:15 - 18:38    1 Std. 23 Min.

🚶 > 🚆 EC > 🚶 > 🚲 Voi

< ZURÜCK    ↻

17:15    Auf dem Damm (St. Gallen) 17  
🚶    ↳ Fußweg: 930 m, 14 Min.

17:29    St. Gallen, St. Gallen  
+0

🚆    ↳ 2 Zwischenhalte, 58 Min.

18:27    Zürich HB Gleis 31  
+0

18:33    Voi, voiscooters.com:4dd72dae-b31d-423b-bba1-aaaebc38da73  
🚲    ↳ Fahrweg: 1.3 km, 7 Min.    **book**

18:41    Zürich Selnau

# Autozug IV routing mit "Own Car"

```

<Duration>PT18M51S</Duration>
<ContinuousLeg>
  <LegStart>
    <GeoPosition>
      <siri:Longitude>7.65148</siri:Longitude>
      <siri:Latitude>46.5834</siri:Latitude>
    </GeoPosition>
  </LegStart>
  ...
  <Service>
    <PersonalModeOfOperation>own</PersonalModeOfOperation>
    <PersonalMode>car</PersonalMode>
  </Service>
  ...
  <Service>
    <PersonalModeOfOperation>own</PersonalModeOfOperation>
    <PersonalMode>car</PersonalMode>
    <Mode>
      <PtMode>rail</PtMode>
      <siri:RailSubmode>vehicleTunnelTransportRailService</siri:RailSubmode>
    </Mode>
  </Service>
  ...
</LegEnd>
<Service>
  <PersonalModeOfOperation>own</PersonalModeOfOperation>
  <PersonalMode>car</PersonalMode>
</Service>
<Duration>PT8M3S</Duration>
<LegTrack>
  ...

```

Journey Search
Station Board

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Search ▼

[Embed](#) | [Permalink](#) | [PROD](#) | [BETA](#) | [SBB](#) | [USER XML](#)

Trip 1 - 2 transfers	00:12
41min - 35.4km	00:53

Drive 18min
MAP

Löttschbergstrasse, Frutigen

Kandersteg, BLS Autoverlad Löttschberg

---

Ride Autoverladezug 15min
MAP

Kandersteg, BLS Autoverlad Löttschberg

Goppenstein, BLS Autoverlad Löttschberg

---

Drive 8min
MAP

Goppenstein, BLS Autoverlad Löttschberg

Hohtenn, Löttschentalstrasse

Center: 7.861352,46.477667  
 Zoom: 9.52

10 km

mapbox

17

# Umwandlung OJP 1.0 -> OJP 2.0 (80%)

## Im Generellen:

- [api-explorer \(opentransportdata.swiss\)](http://api-explorer.opentransportdata.swiss) speichere Request und Response
- Lade XSD herunter <https://github.com/VDVde/OJP/tree/develop>
- Verknüpfe XML mit XSD in XML Spy (oder verwende xmllint)
- Ändere version="1.0" nach version="2.0"
- Ordne alle siri-Elemente an den Namespace siri zu (ServiceRequest, RequestTimestamp, RequestorRef (xmlns hinzufügen xmlns:siri=<http://www.siri.org.uk/siri>
- OJP namespace ohne Namen (ist Default-namespaces)
- Entferne alle ojp: - Präfixe
- Einkürzung von Namen: LocationName → Name
- Änderung von Parametern wie IncludeRealtimeData → UseRealtimeData

## Spezialitäten für TripResults:

- Places beinhaltet Place und nicht Location
- Weitere Abkürzungen TripId, ResultId, LegId → Id, TripLeg → Leg
- PublishedLineName → PublishedServiceName
- OperatorRef muss in eine Gruppe gekapselt werden OperatorRefs
- Attribute/Text → Attribute/UserText
- TransferMode → TransferType
- Attribute/siri:xyzFacility müssen in Attribute/Facility gekapselt werden.

# New SDK OJP 2.0

JavaScript, iOS, Android

# OJP 2.0 Repos and SDKs

Start: **openTdataCH** Github organisation

<https://github.com/openTdataCH>

ojp-demo apps  
Angular / JS CLI / iOS / Android

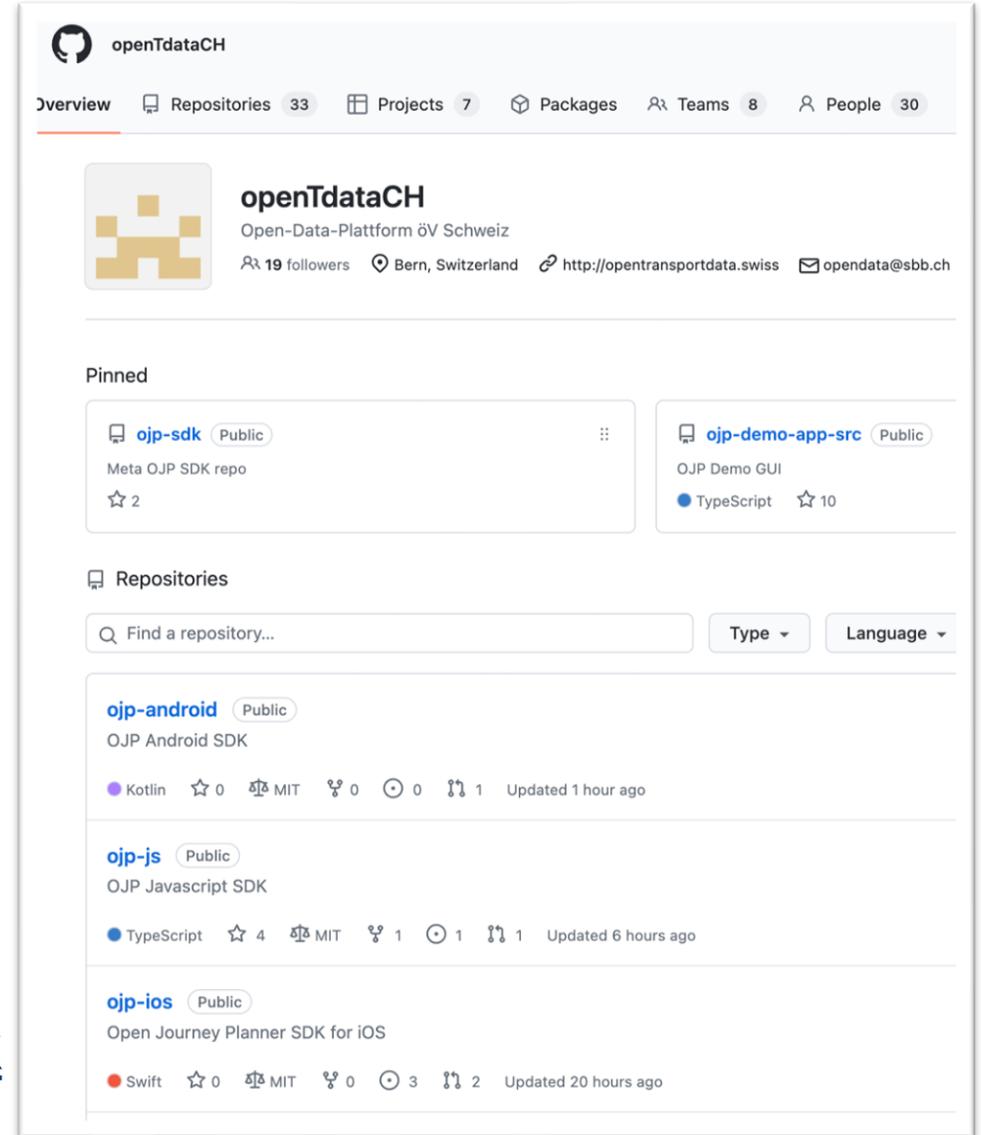
ojp-android  
Kotlin

ojp-ios  
Swift

ojp-js  
TypeScript

ojp-sdk  
"meta" repo

<https://github.com/openTdataCH/ojp-sdk>



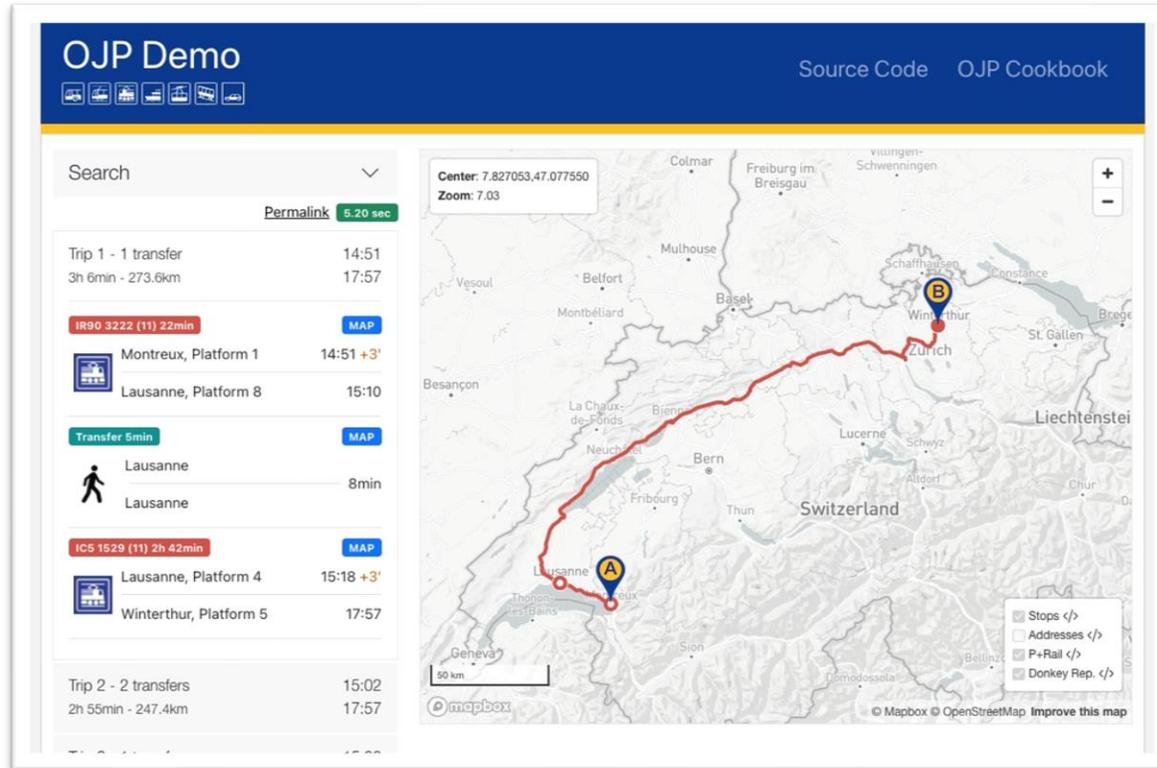
## OJP 2.0 SDKs

SDK	OJP 1.0	OJP 2.0
JavaScript / TypeScript	<a href="#">ojp-js</a>	<a href="#">ojp-js</a> <i>feature/ojp-v2</i> branch
iOS	-	<a href="#">ojp-ios</a>
Android	-	<a href="#">ojp-android</a>

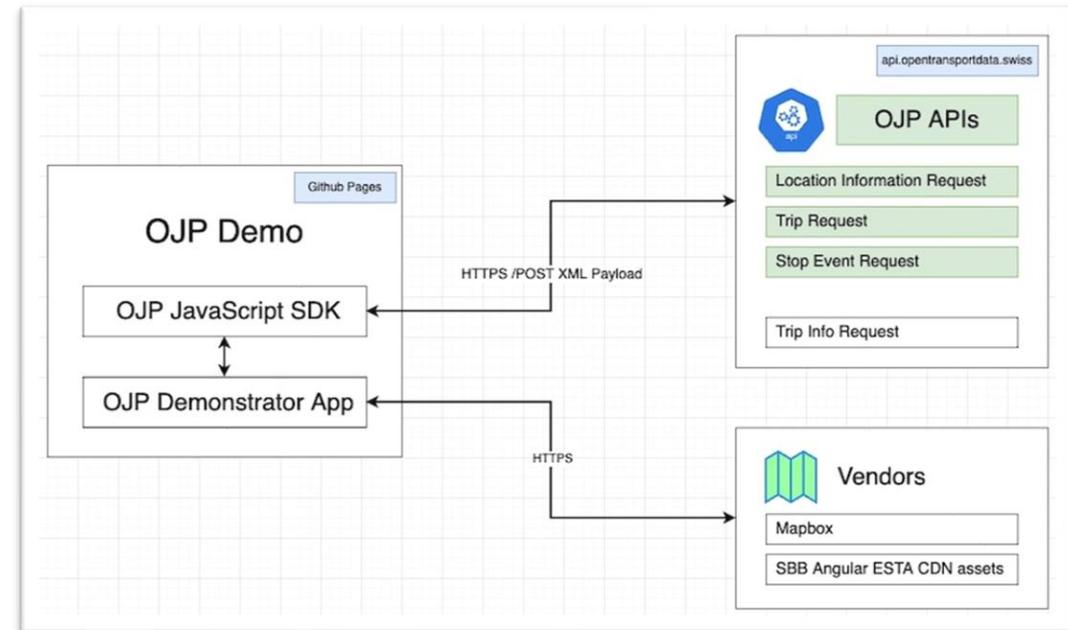
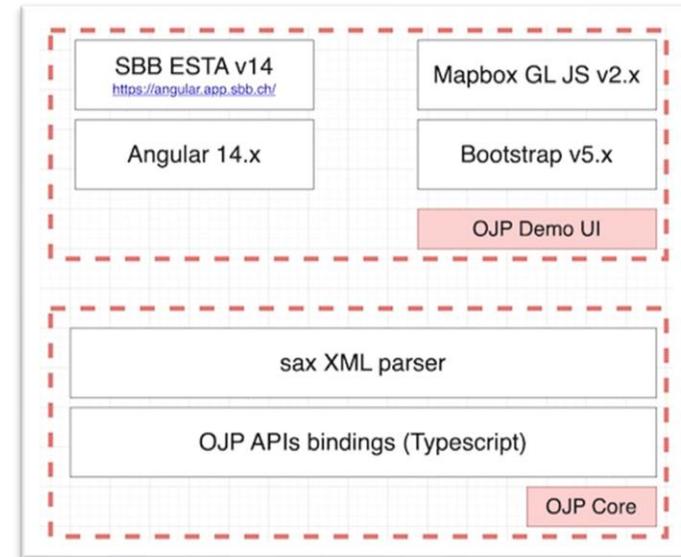
## OJP APIs

SDK	LIR	TripRequest	TripInfoRequest	StopEventRequest
JS	✓	✓		✓
iOS	✓	2024 Q2		
Android	✓	2024 Q2		

# OJP Demonstrator App



- Angular, OSS WebApp
- ojp-js Typescript SDK
- SBB Angular Library



# OJP 2.0 Demo App

OJP Demo - BETA - OJP 2.0

[Source Code](#)
[Docs](#)
[OJP Cookbook](#)

Journey Search
Station Board

Search ▼

[Embed](#) | [Permalink](#) | [PROD](#) | [BETA](#) | [SBB](#) 0.38 sec

Trip 1 - 1 transfer	19:00								
37min - 13.2km	19:37								
<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: #003366; color: white; padding: 2px 5px; font-size: 0.8em;">B 2351 (122)</span> <span style="font-size: 0.8em;">NF</span> <span style="background-color: #003366; color: white; padding: 2px 5px; font-size: 0.7em;">MAP</span> </div>									
Gurten Kulm	♿? 19:00								
Wabern (Gurtenbahn)	♿? 19:15								
<div style="display: flex; justify-content: space-between; align-items: center;"> <span style="background-color: #c00000; color: white; padding: 2px 5px; font-size: 0.8em;">S3 (33)</span> <span style="background-color: #003366; color: white; padding: 2px 5px; font-size: 0.7em;">MAP</span> </div>									
Wabern bei Bern Pl. 2	♿? 19:18 +1'								
Bern Wankdorf Pl. 7	♿? 19:33								
<table style="width: 100%; border-collapse: collapse; font-size: 0.9em;"> <tr> <td style="padding: 5px;">Trip 2 - 1 transfer</td> <td style="text-align: right; padding: 5px;">19:30</td> </tr> <tr> <td style="padding: 5px;">37min - 13.2km</td> <td style="text-align: right; padding: 5px;">20:07</td> </tr> <tr> <td colspan="2" style="padding: 5px; border-top: 1px solid #ccc;"> <table style="width: 100%; border-collapse: collapse; font-size: 0.9em;"> <tr> <td style="padding: 5px;">Trip 3 - 1 transfer</td> <td style="text-align: right; padding: 5px;">20:00</td> </tr> </table> </td> </tr> </table>		Trip 2 - 1 transfer	19:30	37min - 13.2km	20:07	<table style="width: 100%; border-collapse: collapse; font-size: 0.9em;"> <tr> <td style="padding: 5px;">Trip 3 - 1 transfer</td> <td style="text-align: right; padding: 5px;">20:00</td> </tr> </table>		Trip 3 - 1 transfer	20:00
Trip 2 - 1 transfer	19:30								
37min - 13.2km	20:07								
<table style="width: 100%; border-collapse: collapse; font-size: 0.9em;"> <tr> <td style="padding: 5px;">Trip 3 - 1 transfer</td> <td style="text-align: right; padding: 5px;">20:00</td> </tr> </table>		Trip 3 - 1 transfer	20:00						
Trip 3 - 1 transfer	20:00								

- non-prod version, unstable
- in-sync with OJP Demo App
- starter for other demo apps

<https://tools.odpch.ch/ojp-demo-v2>

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# OJP 2.0 SDK Roadmap

<https://github.com/openTdataCH/ojp-sdk>

The screenshot shows the GitHub repository page for openTdataCH/ojp-sdk. The page displays a list of 15 open issues, with 6 closed. The issues are filtered by 'is:issue is:open'. The issues listed are:

- #22 LIR request with both filters "stops" and "address" only gives stops back (opened 4 hours ago by terencebls)
- #20 OJP 2.0 LIR should conform to XSD (bug) (opened yesterday by vasilie)
- #19 Define minimal TR request/response for OJP 2.0 that conforms with XSD (documentation) (opened yesterday by vasilie)
- #18 OJP 2.0 LIR Name search with "Bern S" and Type=address doesnt return any results (bug, search-quality) (opened 2 days ago by vasilie)
- #17 OJP 2.0 LIR Circle with Type=address doesnt respect the Circle area (bug, search-quality) (opened 2 days ago by vasilie)
- #16 OJP 2.0 Name = "Genova" + Restriction.Stop gives 500 error (bug, search-quality) (opened 2 days ago by vasilie)
- #14 Define a way to update initial config values (opened 2 weeks ago by r3to)
- #13 OJP 2.0 LIR BBOX with Type=address doesnt respect the BBOX (bug, search-quality) (opened 3 weeks ago by vasilie)
- #12 OJP 2.0 LIR "Bern" + no Restrictions throws an error (bug, search-quality) (opened 3 weeks ago by vasilie)

- Entrypoint for starting development
- Create Issues + Bugs OJP
- Meta Documentation + Models (XSD)
- PRs / Contributions are welcomed
- New Features

The screenshot shows the OJP v2.0 LocationInformationRequest interface. It displays the initial input fields, the request XML, and the results of 16 locations. The interface is titled "LocationInformationRequest - OJP v2.0".

**Initial Input:**

- GeoRestriction Circle
- Circle: [View Map Center](#)
- Center Longitude (WGS84): 7.450381
- Latitude (WGS84): 46.962984
- Radius (meters): 550
- Restrictions:
  - Type:  stop,  address
  - Number of results: 100

**Request XML:**

```
<?xml version="1.0" encoding="utf-8"?>
<OJP xmlns="http://www.vdv.de/ojp"
xmlns:siri="http://www.siri.org.uk/siri"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xsi:schemaLocation="http://www.vdv.de/ojp
version="2.0">
<OJPRequest>
<siri:ServiceRequest>
<siri:RequestTimestamp>2024-05-
08T17:00:57.875Z</siri:RequestTimestamp>
<siri:RequestorRef>OJP_v2_SDK_v0.9.32</siri:Req
uestorRef>
</siri:ServiceRequest>
</OJPRequest>
</?xml>
```

**Results: 16 locations**

- Bern, Wylerhaus stop
- Bern, Breifeld stop
- Bern, Schulhaus Wylergut stop
- Bern, Wylerbad stop
- Bern, Grimselstrasse stop
- Bern, Wyleregg stop
- Bern, Winkelriedstrasse stop

**Response XML:**

```
<OJP xmlns:siri="http://www.siri.org.uk/siri"
xmlns="http://www.vdv.de/ojp" version="2.0">
<OJPResponse>
<siri:ServiceDelivery>
<siri:ResponseTimestamp>2024-05-
08T19:00:57.9213094+02:00</siri:ResponseTime
stamp>
<siri:ProducerRef>MENTZ</siri:ProducerRef>
<OJPLocationInformationDelivery>
<siri:ResponseTimestamp>2024-05-
```

# Resources OJP 2.0

## Relevante Links

- OJP 2.0 Produktion (nicht produktiv): <https://api.opentransportdata.swiss/ojp20>  
API-Schlüssel auf Anfrage ([opendata@sbb.ch](mailto:opendata@sbb.ch))
- Schema und Hauptwebseite: <https://github.com/VDVde/OJP/tree/develop>
- Demo App <https://tools.odp.ch/ojp-demo-v2>
- Github <https://github.com/openTdataCH/ojp-sdk>

## Datasets

- n/a

## Cookbook

- <https://opentransportdata.swiss/de/cookbook/ojp2entwicklung/>

# Fragen & Diskussion

# OJP-Community



## Unser Ziel: Eine aktive Community

- **Austausch und Networking:** Regelmässige Meet-Ups und Updates zur Schnittstelle OJP
- **Feedback** in puncto Qualität und Anwendbarkeit



## Die Benefits für euch im Überblick:

- Passgenaue Services
- **Exklusive Info-Updates** zu anwenderspezifischen Neuerungen und Weiterentwicklungen



## Registrieren und Teil der Community werden:

Unter [opendata@sbb.ch](mailto:opendata@sbb.ch) melden, Motivation & aktuelle Entwicklungen kurz vorstellen und dabei sein!



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## Call for Speaker



# DINAcon

**digitale Nachhaltigkeit in der Mobilität**

**21. November 2024** / im PROGR, Bern; [dinacon.ch](https://dinacon.ch)

Das Motto der diesjährigen DINAcon lautet:

**"Zukunftsmodelle für eine digital souveräne und (digital) nachhaltige Schweiz"**

**Bitte um Rückmeldung bis zum 27. Mai 2024**

an [christine.matt@sbb.ch](mailto:christine.matt@sbb.ch)