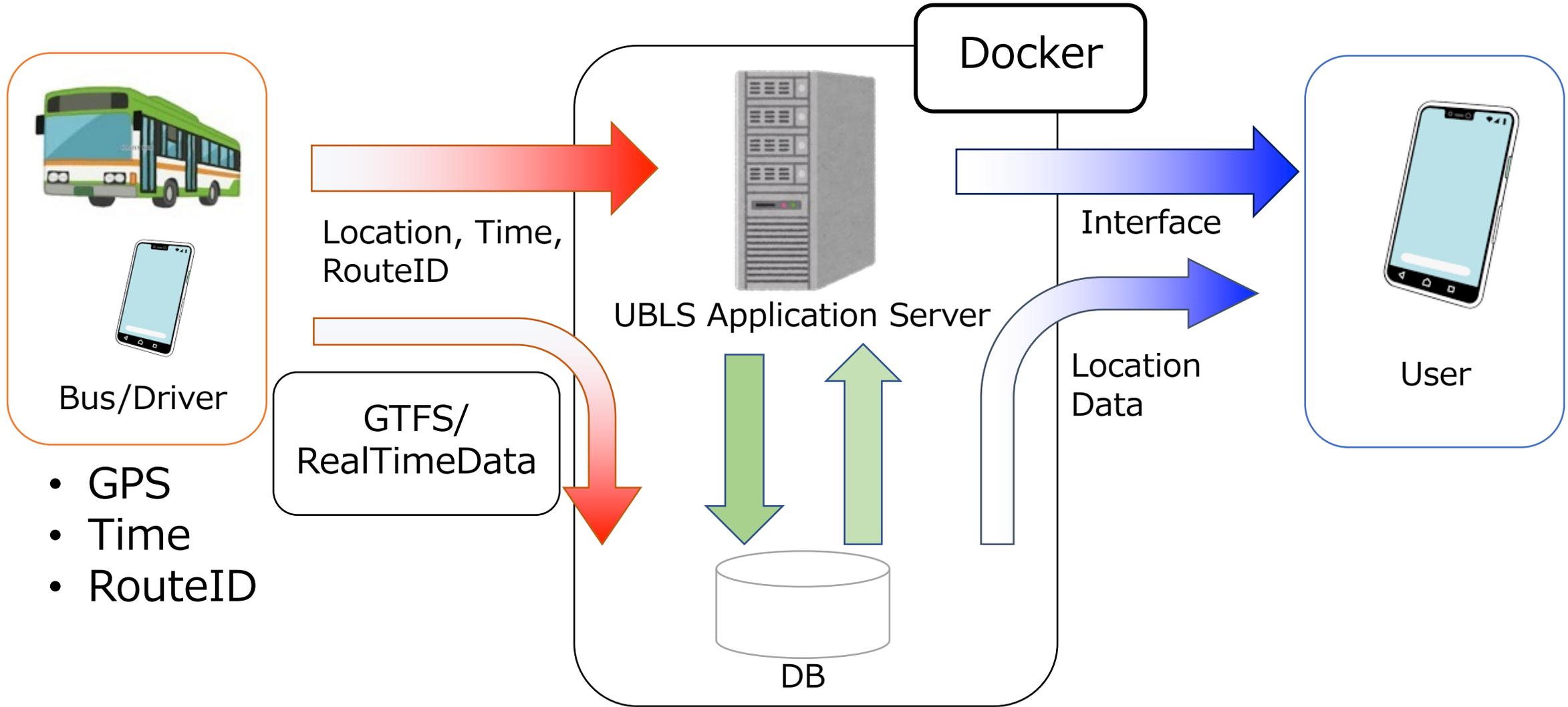


GTFS-JP変換ツール構築とUBLSバスロケ連携

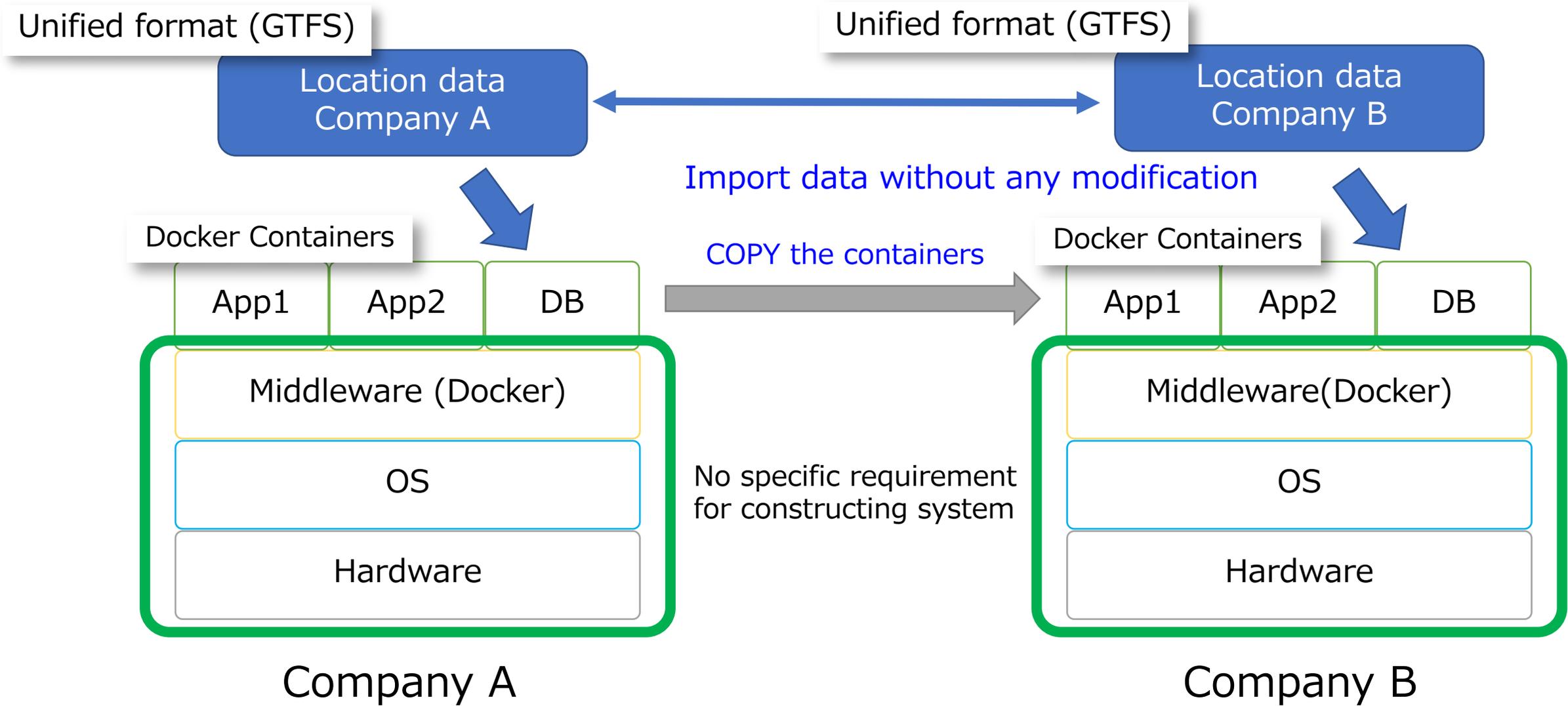
北見工業大学

升井洋志, [Ahamad Faris Adli Bin Kakaria](#)

Dataflow of the Universal Bus Location System (UBLS)



Universal Bus Location System (UBLS)



多地域展開

北見市（北海道北見バス）

網走市（網走バス）

甲賀市（甲賀市コミュニティバス）

掛川市（掛川バスサービス株式会社）

名取市（乗合バス「なとりん号」）

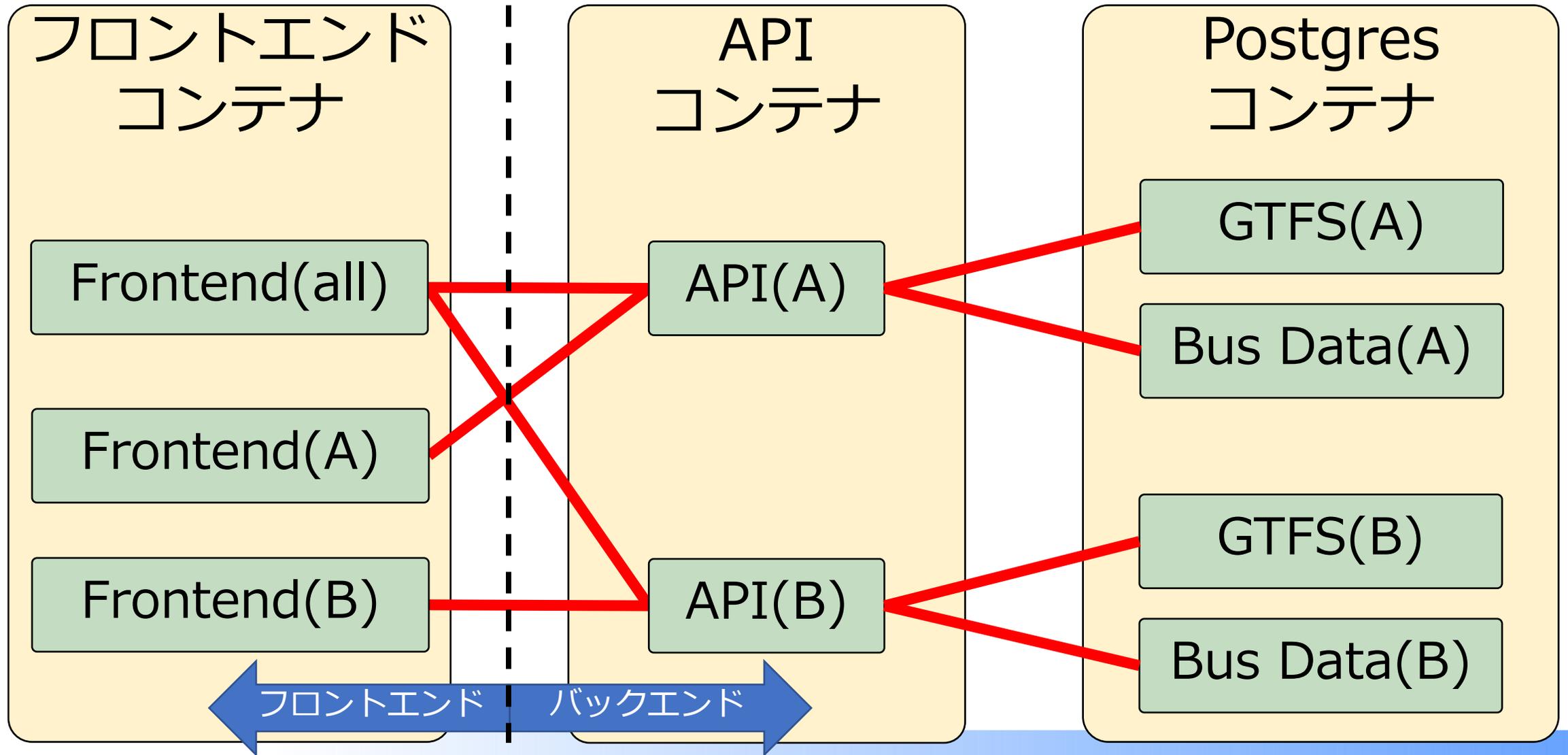
長井市（長井市営バス）

野洲市（野洲市「おのりやす」）



Google map, <https://www.google.co.jp/maps>

改修後構成図 (2事業者展開)



問題

海外GTFSデータをそのままGTFS-JP対応システムで利用できない。
手作業による変換は専門知識と人的コストが課題。

目的

GTFSからGTFS-JPへの変換を支援するWebベースのシステムを構築し、作業負担の軽減とデータ再利用性の向上を目指す。

GTFS

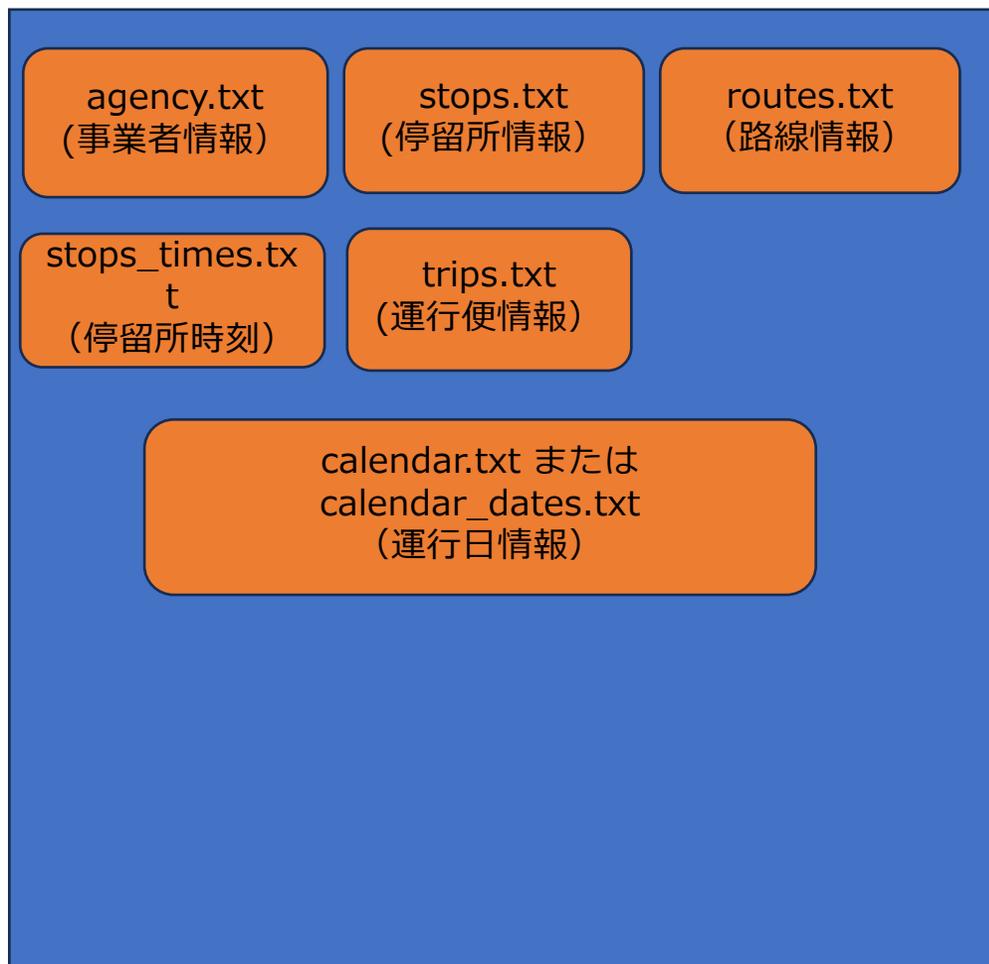
General Transit Feed Specification — 公共交通オープンデータの国際標準。世界中でGoogle Mapsなどの経路検索に広く利用されている。

GTFS-JP

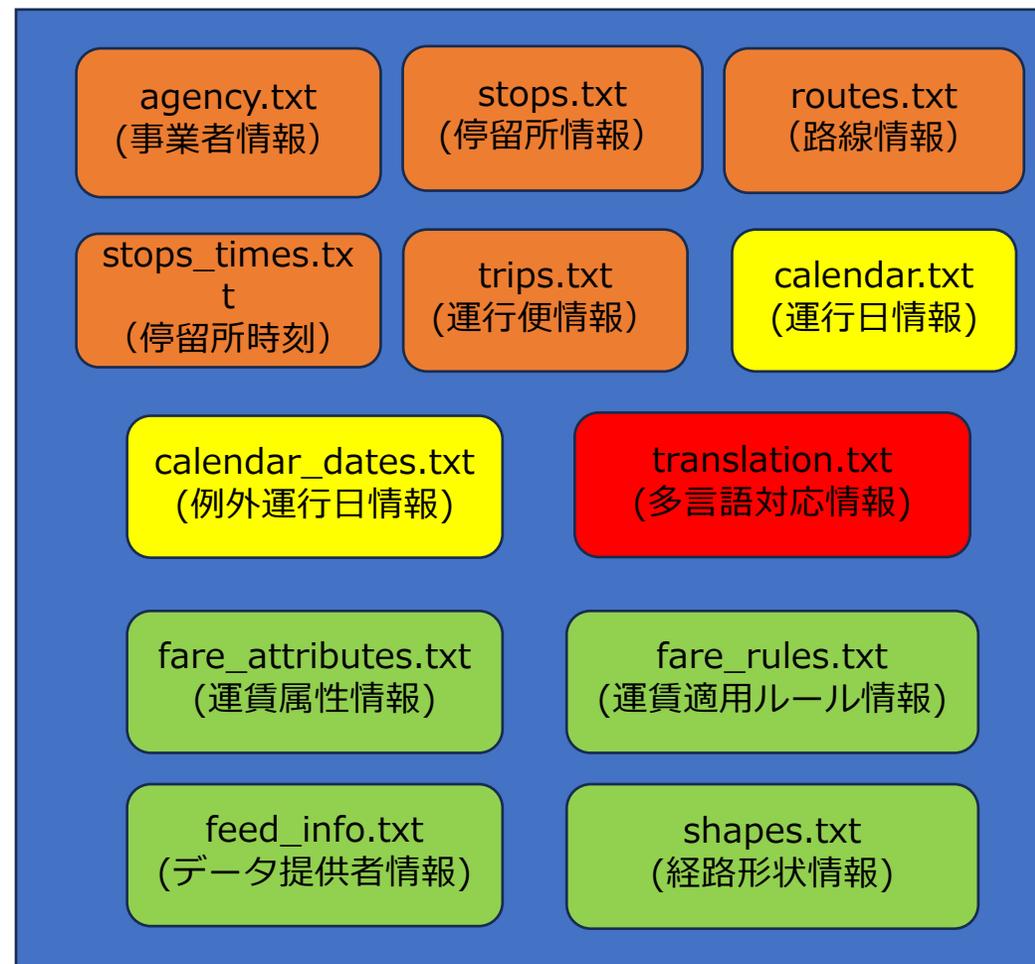
日本独自の拡張仕様。祝日を含む運行カレンダー、多言語案内など日本特有の運用要件に対応。日本の公共交通システムはGTFS-JP形式でのデータ提供が前提となっている。

GTFSとGTFS-JPの比較

GTFS

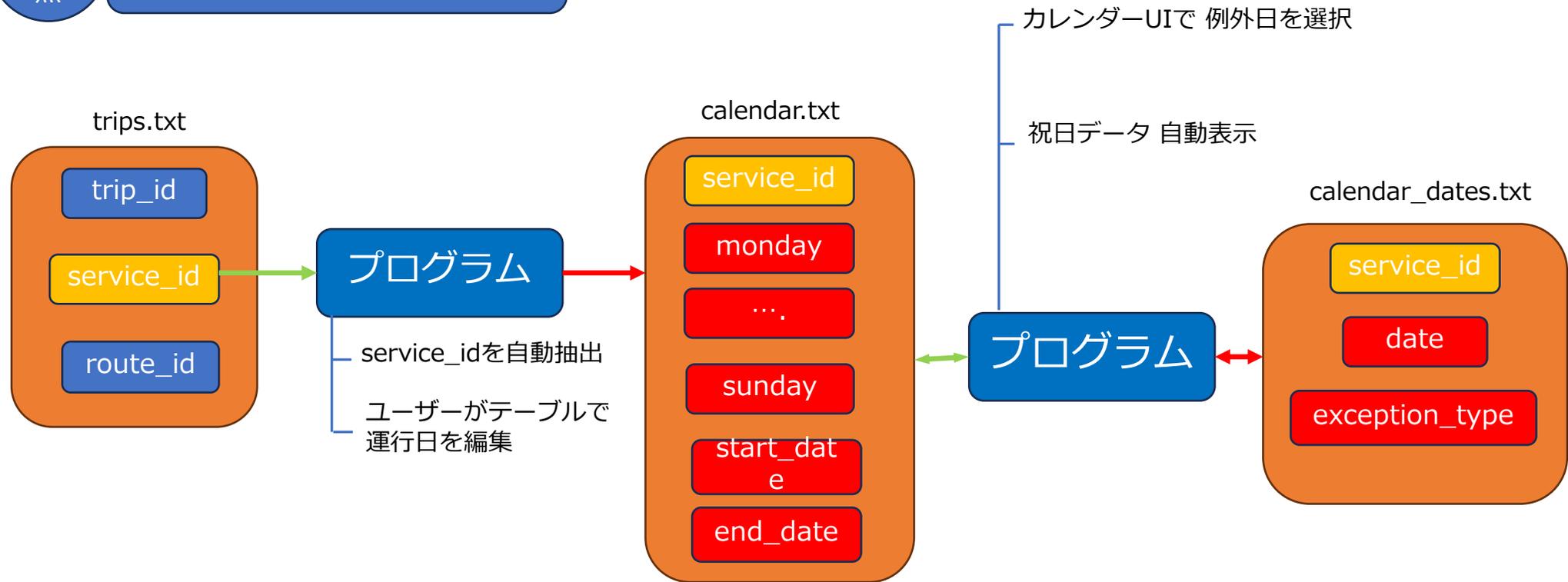


GTFS-JP



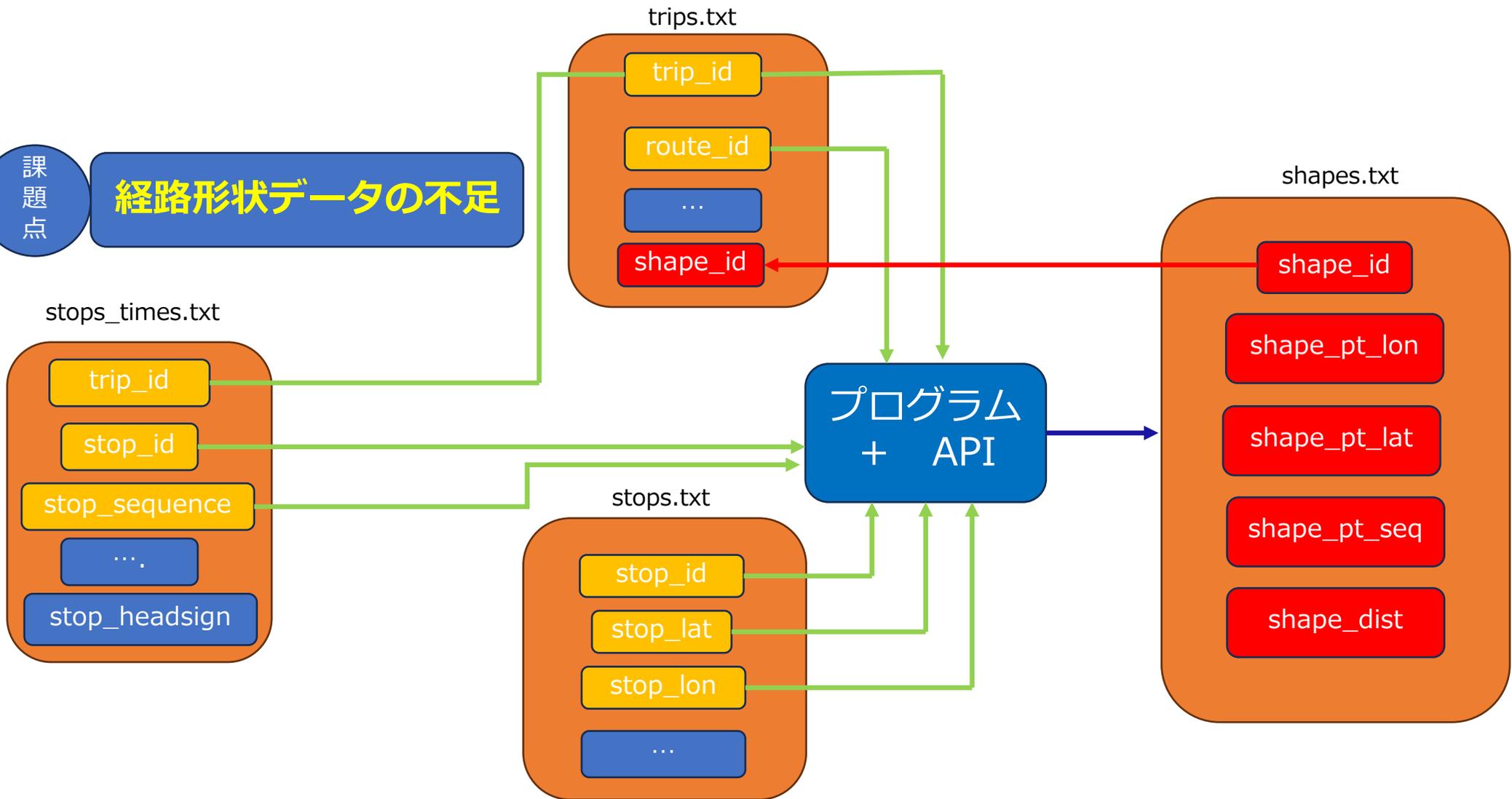
課題点

運行カレンダーの複雑性



課題点

経路形状データの不足





GTFS-JP File Converter

1

Upload

2

Analysis

3

Selection

4

Configure

5

Generate

Upload Your GTFS File

Select or drag & drop your GTFS ZIP file to get started



Click or drag & drop your GTFS ZIP here



GTFS-JP File Converter

1

Upload

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Analysis

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5

Generate

File Analysis Results

Review the validation results of your GTFS files



calendar.txt

Can Recreate



shapes.txt

Can Recreate



frequencies.txt



Files You Can Generate



calendar_dates.txt

Available



fare_attributes.txt

Available



fare_rules.txt

Available



feed_info.txt

Available



translations.txt

Available

5/5

Required Files

3

Optional Files

5

Can Generate

← Back

Continue →



GTFS-JP File Converter

1

Upload

2

Analysis

3

Selection

4

Configure

5

Generate

Select Files to Generate

Choose which files you want to create or recreate



fare_rules.txt

Requires: trips.txt, stop_times.txt, stops.txt



feed_info.txt

Requires: agency.txt

Needs Input



calendar.txt

This file exists. Select to overwrite.

Recreate



calendar_dates.txt

Click calendar dates to add exceptions

Calendar



translations.txt

Requires: No dependencies



shapes.txt

This file exists. Select to overwrite.

Recreate

← Back

Continue →



GTFS-JP File Converter

1

Upload

2

Analysis

3

Selection

4

Configure

5

Generate

Configure Selected Files

Set up your service patterns and exceptions using the interactive editors

 fare_rules.txt

Ready ▾

 feed_info.txt

Configure ▲

Contact URL *

URL for contacting the feed publisher

Contact Email *

Email address for contacting the feed publisher

Feed Start Date *

Start date of feed validity (format: YYYYMMDD)

Feed End Date *

End date of feed validity (format: YYYYMMDD)

Feed Version

Version identifier for this feed (optional)

 calendar_dates.txt

Configure ▾

 translations.txt

Ready ▾

← Back

Continue →

GTFS-JP File Converter

1

Upload

2

Analysis

3

Selection

4

Configure

5

Generate

Generate & Download

Review your selections and generate the files

Files Ready to Generate (4)

fare_rules.txt

Requires: trips.txt, stop_times.txt, stops.txt

No Input Needed

feed_info.txt

Requires: agency.txt

Configured ✓

calendar_dates.txt

Requires: calendar.txt

0 Exceptions ✓

translations.txt

No dependencies

No Input Needed

Output ZIP Filename

The downloaded file will use this name

← Back

 Preview Files

 Generate Files



GTFS-JP File Converter

1

Upload

2

Analysis

3

Selection

4

Configure

5

Generate

Configure Selected Files

Set up your service patterns and exceptions using the interactive editors

 17 **calendar.txt**

Configure 

Configure day patterns for each service_id found in trips.txt. Click day buttons to toggle service on/off for that day.

 **2 service(s) found in trips.txt**
Service IDs cannot be modified - they must match trips.txt

Service ID (from trips.txt)	Mon	Tue	Wed	Thu	Fri	Sat	Sun
<input checked="" type="checkbox"/> weekday	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
<input checked="" type="checkbox"/> weekend	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

 Start Date

04/01/2026

 End Date

03/31/2027

[← Back](#)

[Continue →](#)



Configure Selected Files

Set up your service patterns and exceptions using the interactive editors

calendar_dates.txt

Configure

Service: weekday ← Prev 3 May - Jul 2025 Next 3 ▶ Holidays: Malaysia Manage



Service Runs No Service Added (+) Removed (-) Holiday

Exceptions Summary

6

weekday	2025/06/11	Removed	x
weekday	2025/06/22	Added	x
weekday	2025/07/09	Removed	x
weekday	2025/07/26	Added	x
weekday	2026/03/04	Removed	x

← Back

Continue →

 **Follow Real Roads** Most Realistic

Routes follow actual streets and highways using map data

 **Shape Preview**

 Refresh Preview

 **shp_U1510_d1** Road

151 Dir 1

KL113 HAB LEBUH PUDU → SL283 DATARAN ...

44 stops • 16 trips • 25.9 km • 727 pts

 **shp_U1700_d0** Road

170 Dir 0

SL294 HAB WIRA DAMAI → SL294 HAB WIRA ...

62 stops • 11 trips • 31.0 km • 807 pts

 **shp_U1710_d0** Smart

171 Dir 0

SL294 HAB WIRA DAMAI → KL117 BSN LEBUH...

66 stops • 21 trips • 18.6 km • 361 pts

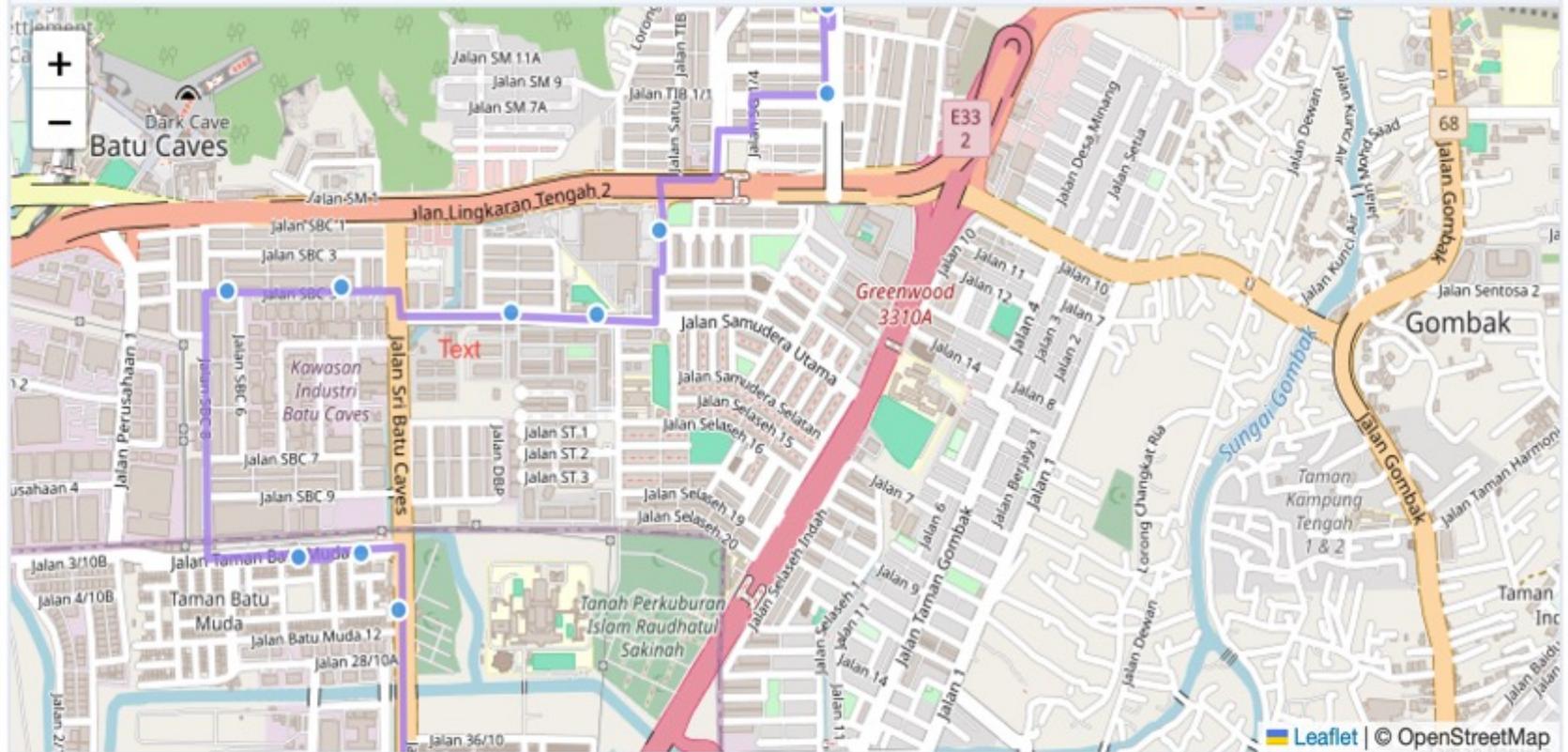
 **shp_U1710_d1** Road

171 Dir 1

KL117 BSN LEBUH AMPANG → SL294 HAB WI...

60 stops • 21 trips • 23.1 km • 677 pts

shp_U1710_d1 - 171 (23.07 km, 677 points)



18:30発 Putrajaya Sentral ~ Bandar Utama
(M) PJ530 HENTIAN BANDAR UTAMA ⇒ (M) PPJ254 MRT PUTRAJAYA SENTRAL

18:20発 Subang Mewah USJ 1 ~ Hab Pasar Seni
(M) KL2213 PASAR SENI (PLATFORM B5) ⇒ SJ629 TAMAN PERINDUSTRIAN USJ1

17:50発 Hab Bas Sri Manja ~ Hab Pasar Seni
(M) KL2213 PASAR SENI (PLATFORM C1 - C3) ⇒ PJ127 HENTIAN BAS SERI MANJA

14:00発 Puchong Utama ~ Hab Pasar Seni
(M) KL1933 PASAR SENI (PLATFORM E1 - E3) ⇒ SJ237 TERMINAL PUCHONG UTAMA

19:10発 Hub Wira Damai ~ Lebu Ampang via Gombak
SL294 HAB WIRA DAMAI ⇒ KL117 BSN LEBUH AMPANG

17:40発 Kota Damansara ~ Hab Pasar Seni
PJ63 PPR KOTA DAMANSARA ⇒ (M) KL2212 PASAR SENI (PLATFORM D1 - D6)

14:45発 Stesen LRT Cempaka ~ Taman Mawar
STESEN LRT CEMPAKA方面

17:30発 Stesen LRT Asia Jaya ~ Stesen MRT Phileo Damansara
LRT ASIA JAYA方面

13:00発 Kota Damansara ~ Hab Pasar Seni
(M) KL2212 PASAR SENI (PLATFORM D1 - D6) ⇒ PJ63 PPR KOTA DAMANSARA

23:30発 Pantai Hill Park ~ Hab Pasar Seni
PANTAI HILL PARK方面