

## What is GBFS?

**GBFS** (General Bikeshare Feed Specification) is a **community-driven open data specification** for shared mobility information. It aims to equip the public with the **information they need to use shared modes**.

Used by **over 1,000 transport operators**, the GBFS showcases real-time **bike availability** and **bikeshare trip planning**, making it easy for travellers to find and use shared mobility options.



## The value of GBFS

- ✔ **Facilitating modal shift:** GBFS enables travellers to access shared mobility options and works in conjunction with General Transit Feed Specification (GTFS) for improved integration with public transport.
- ✔ **Reduced administrative burden:** Its simple format enables different users to analyse data and make data-informed decisions.
- ✔ **EU compliance:** Supported by most NAPs, GBFS simplifies the publication of shared mode information for operators, complying with EU regulations on multimodal travel information services (MMTIS).
- ✔ **Operator oversight:** Promotes equitable vehicle distribution, monitors compliance, supports geofencing, and allows input from operators and cities.



## Main functions

GBFS represents the **current state of a mobility system**, providing **real-time travel advice**.

### Core areas



Vehicles



Systems



Stations



Travel routes



Pricing



Alerts

### Available modes



(e-) Bikes,  
Cargo-bikes



(e-) Scooters



(e-) Mopeds



Car-sharing

## Why use GBFS?

GBFS is an **open and independent standard**, designed to be simple and straightforward:



### Simple format

Written in JavaScript  
Object Notation  
(JSON)



### GDPR-compliant

No user information  
is included



### Open governance

Guided by  
simplicity and ease  
of data production



### Mature specification

Strong community of  
contributors



### Compatibility with other standards

MDS, TOMP-API,  
NeTeX/SIRI

### Use cases



Vehicle and station locations



Vehicle attributes



Vehicle and dock availability



Basic business rules and  
information



Station status (full or empty)



Geography based policies

## Using GBFS data for planning

GBFS data provides cities with **structured information on shared mobility vehicle availability and distribution**, helping planners understand how these services are used.

**Analyse demand** from  
availability and occupancy  
data

**Compare and monitor  
performance** using the  
standardised data format

**Plan infrastructure** using  
trip starts and vehicle  
distribution

**Combine data from  
multiple operators** for a  
citywide overview

**Integrate with other  
datasets** for multimodal  
planning

**Identify usage hotspots  
and service gaps**

## Resources

Learn more about GBFS and how to start implementing in your city with:

- ✦ [gbfs.org](https://gbfs.org): Official documentation website including guides and resources
- ✦ [MobilityData](https://mobilitydata.org): Global non-profit advancing open transport data standards
- ✦ [mobilitydatabase.org](https://mobilitydatabase.org): Explore and access global open transit data
- ✦ [gbfs-validator.mobilitydata.org](https://gbfs-validator.mobilitydata.org): Validate any GBFS feed online
- ✦ [napcore.eu](https://napcore.eu): Search and learn about NAPs



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