

DRAFT Regional Micromobility Data Sharing Requirements – For Review

SANDAG collaborated with staff from the cities of San Diego, Chula Vista, and the North County Coastal cities to develop a set of draft regional micromobility data sharing requirements for review. Compliance with these draft regulations will help ensure local cities, transit operators, universities, and military bases receive the raw data and corresponding analyses needed to inform both capital improvements and micromobility policy decisions.

From the regional perspective, micromobility data will inform updates to the SANDAG Activity-Based Model; provide a means for evaluating inter-city micromobility travel patterns; assist with regional planning activities that directly depend on trend analysis and transit accessibility evaluation; and inform SANDAG and member agencies on where capital project improvements can be targeted effectively. SANDAG will serve as the regional micromobility data clearinghouse to support local cities with real-time data collection, analyses, and mapping, and archiving.

- 1) Prior to the execution of a permit or license agreement, each micromobility operator must have an application program interface (API) or other automated mechanism that allows their services to be integrated into City, SANDAG, and/or contracted city partner applications. Operators may not change the API URL without notifying the City with at least 30 days' notice.
- 2) Data for all micromobility devices must be provided to the City, SANDAG, and/or approved third-party partners in the General Bikeshare Feed Specification (GBFS) and Mobility Data Specification (MDS) formats, each through an API. The City will maintain links to the full specification of required data formats on a municipal website.
- 3) GBFS data is to be made available to the public through the permitted micromobility operator's website. The MDS feed must be available to the City, SANDAG, and/or contracted City partners for the explicit purpose of program management. As such, these feeds must be consumable by third-party software.
- 4) Real-time micromobility device data must be uploaded every 30 seconds to the provider API in order to capture route data.
- 5) The City and SANDAG is permitted to use all data the micromobility operator provides in accordance with the MDS, including, but not limited to, displaying real-time data and real-time device availability data to the public.
- 6) Raw data supplied by each micromobility operator shall be held confidentially between the City, SANDAG, and the operator to the extent that is permitted by law. Personal information must be protected by the micromobility operator, and all data should be anonymized regarding user information.

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- 7) Data shall be available to the City, SANDAG, and any contracted City partner for the duration of the permitted micromobility program. The City and its designees may use, analyze, and publish the micromobility data they receive and may create and public derivative products and reports. Data submitted to the City may be subject to public disclosure.
- 8) Data shall be provided to the City, SANDAG, and any contracted City partner at no charge.
- 9) Notwithstanding the returned results of any of the Mobility Data APIs, it shall be the sole responsibility of the operator to comply with the City's program requirements listed herein.
- 10) Personally-identifiable information (PII) shall not be shared with the City or any other entity; permittee shall ensure the privacy of its users.
- 11) Non-GBFS data consumed through the API by City-specified third-party software providers shall not be publicly available without consent from the permittee.
- 12) The City may, in its sole discretion, release subsequent versions and/or updated versions of the MDS and require the micromobility operator to use the most current version by releasing an automatic update and/or disabling support for the previous version.
- 13) Required real-time data as supplied by the GBFS and MDS include:
 - a. Deployed device data attributed to each universally unique identifier (UUID):
 - i. Availability status and point location for any device deployed in the City or within 1 mile of City boundaries.
 - ii. Deployed device characteristics including electric charging level (if applicable) and device type (e.g., bike, stand-up/kick scooter, sit-down scooter, electric assist device)
 - b. Trip data attributed to each UUID by date:
 - i. Trip route and distance - GPS coordinates of trip origin, and GPS coordinates of trip destination, and GPS coordinates of trip route based on 30-second intervals.
 - ii. Trip duration - trip start time, trip end time, duration in seconds,
 - c. Parking data - Designated micromobility device parking area and/or geofenced locations and usage

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14) Required aggregated data beyond the GBFS and MDS specifications include:

- a. Customer service data shall be submitted monthly and include:
 - i. Complete range of operator inquiries and resolutions
 - ii. Mean and median operator response time to improperly parked devices, devices reported to be an obstruction hazard, and devices not reported to be an obstruction hazard.
 - iii. Problems with vendor's reporting system or response efforts
 - iv. Other notable violation issues
- b. Vehicle maintenance data shall be submitted monthly and include:
 - a. Number of reports each operator receives from the public regarding devices that are not in good working order and/or are unsafe to ride.
 - b. Brief description of any significant maintenance issues that affected the operator's devices, including product recalls and equipment failures leading to rider injury.
- c. Incident data shall be submitted monthly:
 - i. Reports on all incidents in which the vendor's devices or personnel were involved in a collision, accident, injury, or property damage.
 - ii. Data shall include the location, collision details, number of riders, age, helmet use, property damage, and injury type.
 - iii. Each operator must disclose any incident resulting in injury within 24 hours of receiving notice.
- d. Rider data must be encrypted and not contain any PII. Reports shall include:
 - i. Number of unique riders who used an operator's micromobility devices in the previous month and their demographic characteristics (e.g., gender, age group)
 - ii. Number of unique riders who used an operator's micromobility devices in the previous three months and their demographic characteristics (e.g., gender, age group)
- e. Parking data – each operator must collect and summarize data on reports submitted by the public on micromobility device parking issues and the operator's response to them. Data shall be submitted monthly and include:
 - i. Number of reports operator received regarding devices reported to be an obstruction hazard; and regarding devices not reported to be an obstruction hazard;

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- ii. Number of reports whereby the operator inspects a reported device and determines no action is required;
 - iii. Number of reports whereby the operator is unable to locate the device;
 - iv. Number of reports whereby the operator locates the device, but the device is irretrievable;
 - v. Number of reports whereby the operator is unable to respond to the report within 48 hours or less;
 - vi. Brief descriptions of any significant parking issues and/or trouble spots;
- f. Survey data capturing travel choice and rider behavior information
- i. Each micromobility operator shall agree to the distribution of a survey to all users up to four times per calendar year.
 - ii. The survey instrument shall be prepared by the City in coordination with SANDAG to gather vital feedback from micromobility users on their travel choices, safety of roads and bikeways, employment, and general rider feedback.