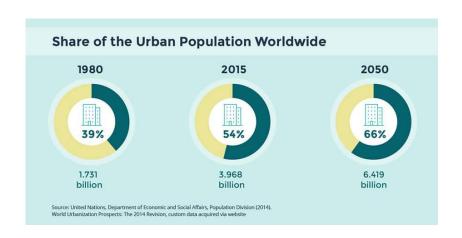




Prepared for ITF Transport Statistics Meeting

THE MOBILITY ECOSYSTEM IS CHANGING RAPIDLY AND SO IS THE NEED FOR CITIES TO MANAGE IT







Shared Mobility is Here to Stay

- Over 1.000 cities in the EU and 300 in the US have a shared mobility program
- Shared mobility is on the right side of the mobility pyramid and helps keep cities of all sizes healthier and more efficient



Data Standards

Standard forms of communication between providers of mobility services is essential to the viability of these services.

Mobility Data Specification

- MDS was built for operators to communicate with cities, and for cities to communicate back; not for public consumption.
- Vehicle status changes provide updates on vehicles' state in the system.
- Defines formats for sharing trip data, including "breadcrumb" GPS traces.
- It has undergone considerable changes since it's creation

General Bikeshare Feed Specification (GBFS)

- Built for consumer-facing applications and integration into other platforms.
- APIs report the real-time information about available vehicles to users.
- GBFS data feeds typically report the vehicle location, type (bike/scooter), and battery charge



But, we have a problem with data



of public sector entities - perception of **lagging** behind in data and technology *



cost of infrastructure services with abetter use of
data and digital technologies*



of EU cities with a shared mobility program using data to monitor that are **not using data** coming from operators in a structured way

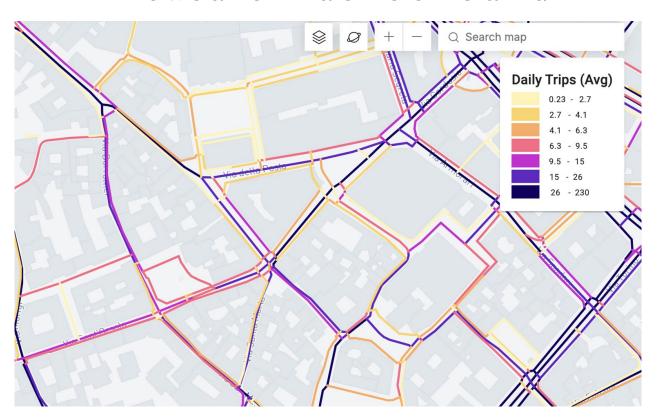


Data = Treasure





Treasure must be found





SF - Slow Streets





If you build it do they come?

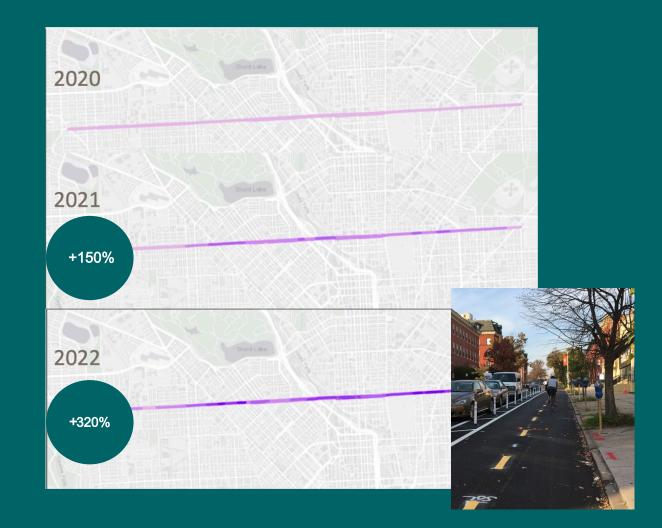




FROM DATA TO ACTION

Harnessing data for new protected lane infrastructure

- Cities can use aggregated volumes from millions of trips to identify new protected lanes.
- Looking at shared micromobility trips the year before and 2 years after the construction, there has been a significant increase in ridership in the corridor:

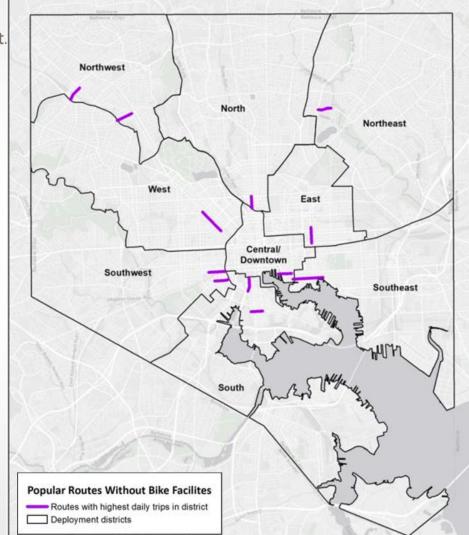




Using Micromobility Data: Highest Micromobility Ridership Streets which do not currently have Bike Facilities, per district. Data compiled for the BCDOT bike master plan update.

MDS Route Data from May – October 2022.

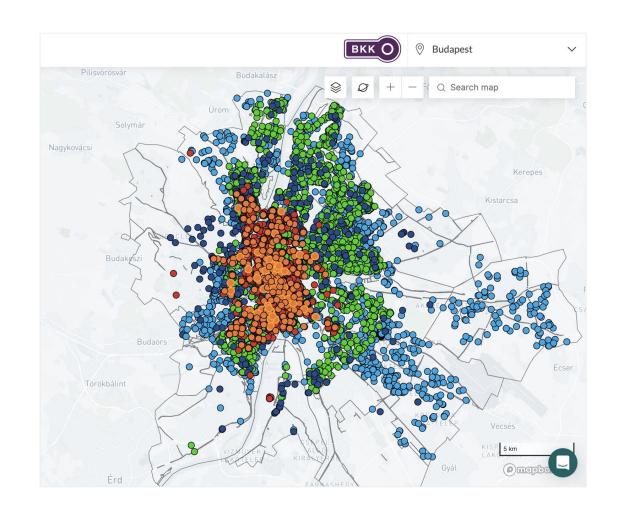
Deployment District	Street, Segment	Average Daily Rides	Corral
C/D	Eastern Avenue Pier V to Little Italy	219	Yes
SE	Aliceanna Street Fells Point	118	Yes
NE	Morgan State Campus (not shown on map)	96	Planned
S	East Fort Avenue West of Light Street	61	Yes
S	South Sharp Street Convention Center, Otterbein	54	Yes
NE	Argonne Drive Morgan State Campus	37	Planned
E	Wolfe Street Johns Hopkins Hospital	31	Yes
SW	Washington Boulevard Pigtown	30	Yes
N	Charles Street Penn Station to North Avenue	30	Yes
SW	West Pratt Street Railroad Museum	26	Planned
w	Pennsylvania Avenue Robert C. Marshall Rec Center	21	No



FROM DATA TO ACTION

Managing operator compliance and a scaling program with access to data

- BKK has scaled their shared mobility program from 1,000 bikes to a fleet of over 9,000 bikes and scooters
- The need for data to help measure performance against goals became clear.
- Evaluating trip counts, station utilization rates, and routes.





FROM DATA TO ACTION

Leveraging new mobility to expand equitable access

- Cities can quickly evaluate parking events to ensure vehicles are accessible to all.
- BKK is now evaluating hybrid station-based and floating parking areas for bikes and scooters.
- Immediate access to data allows one to monitor impacts across a large geographic area.

