THE OPEN MOBILITY FOUNDATION

ONTARIO SMART MOBILITY READINESS FORUM

Andrew Glass Hastings, Executive Director May 8, 2023





1900s-2000s: PHYSICAL INFRASTRUCTURE

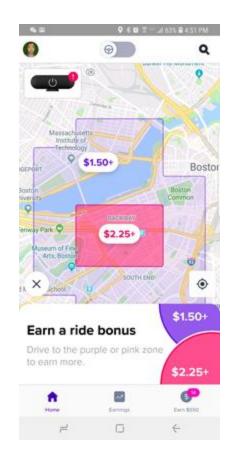


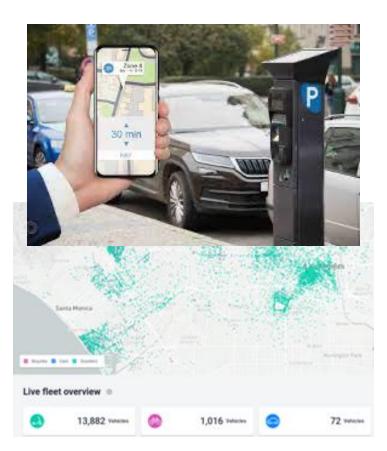


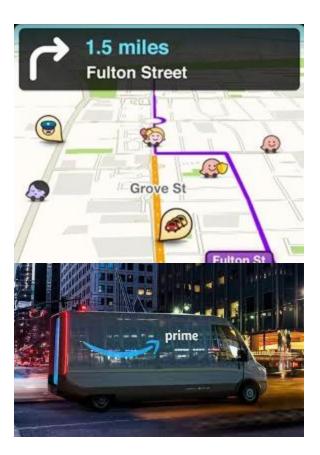




2010s -: THE NEED FOR DIGITAL INFRASTRUCTURE







THE OMF VISION

- Digital infrastructure to manage public space for the public good
- Data standards and open source tools
- Public/private collaboration that encourages responsible growth of new mobility services
- Cross-sector relationships and a shared vision for mobility
- Building toward the city transportation operating system of tomorrow



A NON-PROFIT, OPEN SOURCE FOUNDATION

Public/private partnership to create **common standards** for digital governance that transform the way cities manage transportation in the modern era and support a business ecosystem.

















OMF MEMBERS

60+ members and counting. Complete list: openmobilityfoundation.org/members

























































































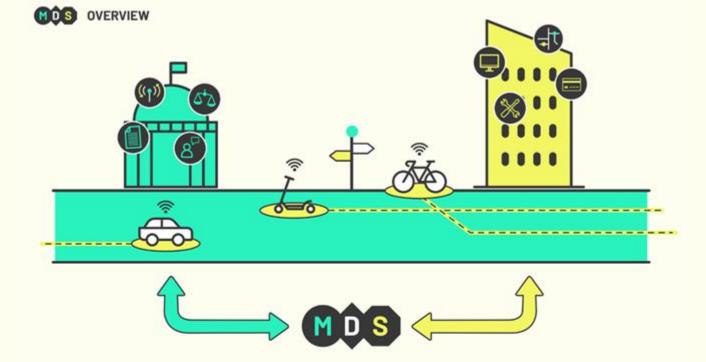








TOOLS FOR DIGITAL INFRASTRUCTURE



CITIES

Manages the street and right of way.

Responsible for policy, equity,
resident feedback and issues, and

MDS Agency.

MDS

The digital infrastructure that lets cities and companies share information and manage devices together.

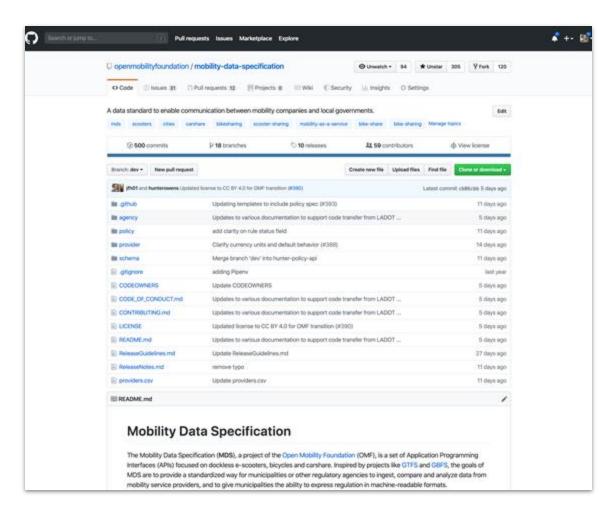
COMPANIES

Manages devices. Responsible for maintenance and repairs, billing, remote monitoring, and MDS Provider.

MOBILITY DATA SPECIFICATION

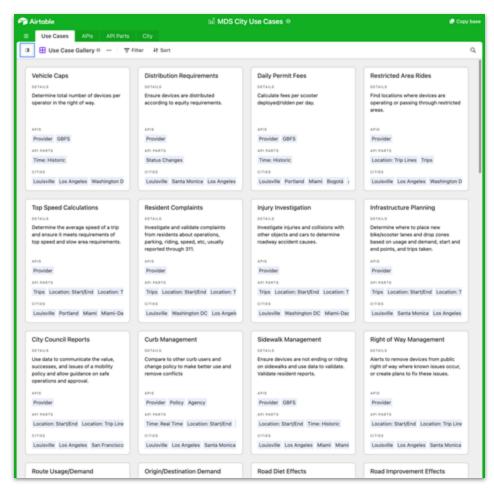
AN API CONNECTING MOBILITY COMPANIES WITH LOCAL GOVERNMENTS

- 300+ cities in 21+ countries
- Marketplace of tools for cities built on MDS
- Now: e-scooters, mopeds, bikes
- MDS 2.0: Taxi, TNC, delivery bots, car share



MDS USE CASE DATABASE

- Actual use cases from cities using MDS
- Identifies specific MDS
 APIs and endpoints
 used to achieve goal
- ~15 cities



https://www.openmobilityfoundation.org/whats-possible-with-mds/



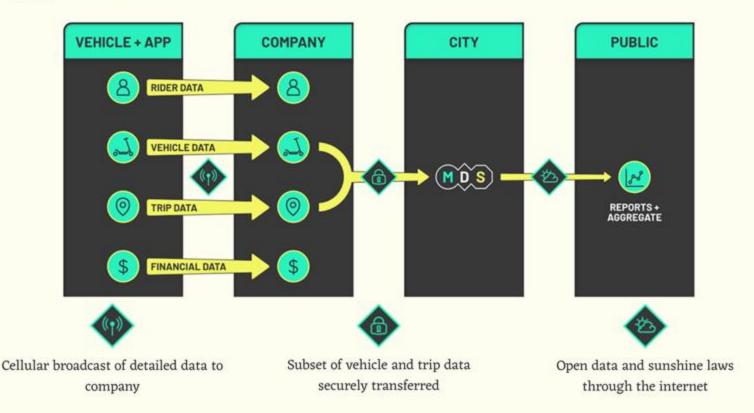






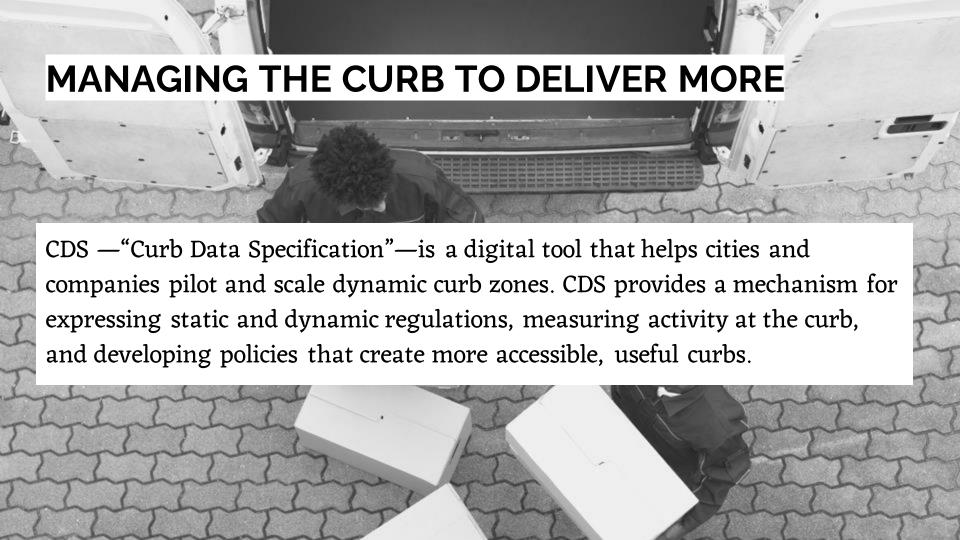




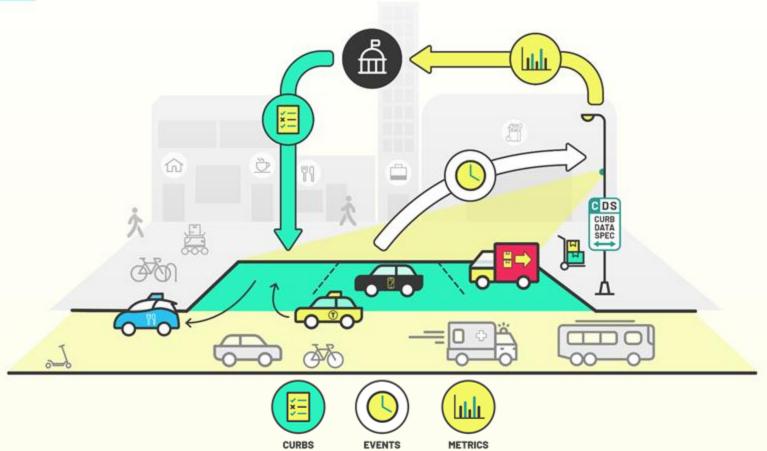


PRIVACY RESOURCES

- MDS Privacy Guide for Cities
- Mobility Data State of Practice



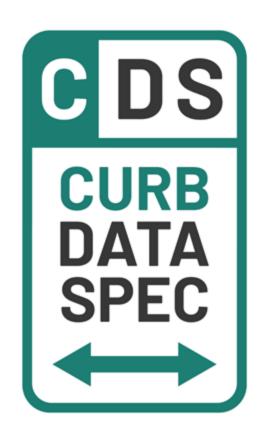




CURB DATA SPECIFICATION

A NEW STANDARD THAT HELPS PILOT AND SCALE DYNAMIC CURB ZONES

- Allows cities to digitally express regulations, measure activity at the curb, and develop dynamic policies
- Developed through contributions from 160+ individuals from dozens of public agencies, curb users, and technology companies
- Early adopters include dozens of cities and companies



HOW CDS BENEFITS CITIES

- Gives local governments the tools to drive datainformed change
- Allows cities to map curb regulations and capture data about how the curb is used, adapting policies that deliver the most public value
- Supports public spaces that better reflect community priorities like safety, environmental sustainability, and local business development
- Unlocks an ecosystem of tools being built to help cities manage the digital curb and communicate digitally with curb users





HOW CDS BENEFITS COMPANIES

- Gives curb users real-time understanding of where the nearest available curb spaces are and what rules apply to them
- Helps cities to deploy demand-responsive curb regulations, giving access to more curb space when and where it is are needed
- Sets the stage for cities to adapt the curb to support cutting-edge innovations in mobility, delivery, and commerce



CDS IN PRACTICE: USE CASES



Pittsburgh pilot includes local Amazon affiliate and offers incentives for zero-emission delivery vehicles

CDS' flexibility means it can be used in many scenarios, including:

- Digitally sharing regulations, including loading zone rules and locations
- Determining real-time curb status
- Tracking and analyzing curb usage
- Responding to curb violations and improving curb enforcement
- Optimizing curb usage and access to meet policy goals

See more use cases here

OMF SMART Collaborative

A collaborative approach to prototyping new technology solutions to old curb management problems centered around the use of CDS

- Seattle, WA
- Portland, OR
- San Francisco, CA
- San Jose, CA
- Los Angeles, CA
- Minneapolis, MN
- Philadelphia, PA
- Miami-Dade County, FL
- Cities will learn together, share findings, coordinate tech procurement, research, case studies and more



WHAT'S NEXT?

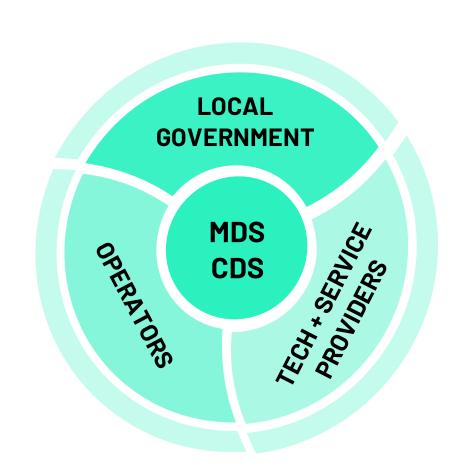
SUPPORTING CITIES TRANSITION TO DIGITAL INFRASTRUCTURE



GETTING INVOLVED

HOW WE WORK

- Led by cities w/ strong private sector governance participation
- Working groups and GitHub repositories open-to-all
- Technology built through public and private sector collaboration
- Open-source licensing
- Members drive our work



GET INVOLVED

CONSIDER MDS and CDS IN YOUR WORK

- → Get to know MDS and CDS
- → Speak with your team or your customers on how MDS and CDS might be useful in upcoming projects

PARTICIPATE IN THE WORKING GROUP

- → Curb Working Group will start gathering feedback for the next CDS release
- → Sign up to get announcements from the <u>Curb Management mailing list</u>
- → Attend <u>bi-weekly meetings</u> to discuss issues and hear from other contributors.
 - ◆ 9am PT/Noon ET/6pm CET on Tuesdays (details on <u>OMF public calendar</u>).

JOIN THE OMF

→ Get in touch with the OMF and learn how to become a member

INDIVIDUAL CONTRIBUTORS

- Participate in software development and bring their priorities and ideas to development
- Join working group meetings and engage on GitHub
- Part of a thriving community working to build a more uniform regulatory environment and technology marketplace



CONNECT WITH US

- openmobilityfoundation.org
- @openmobilityfnd
- github.com/openmobilityfoundation
- andrew@openmobilityfoundation.org

