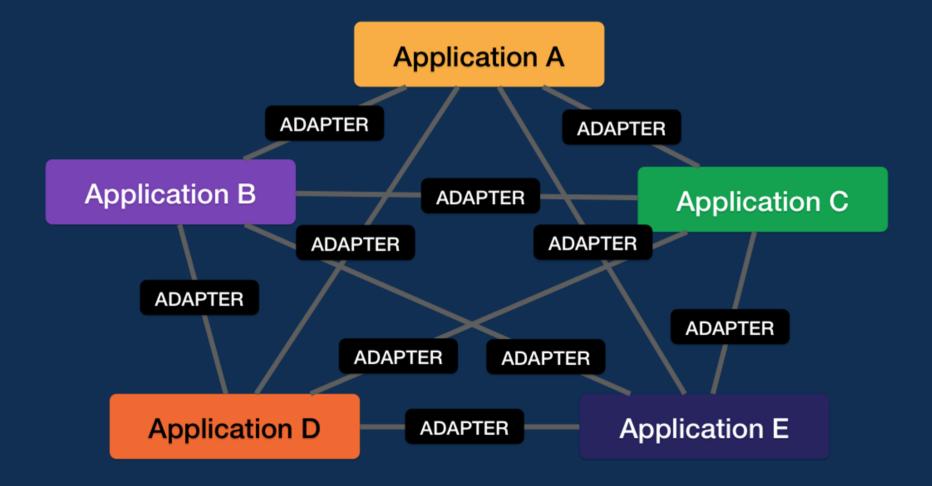
MobilityData

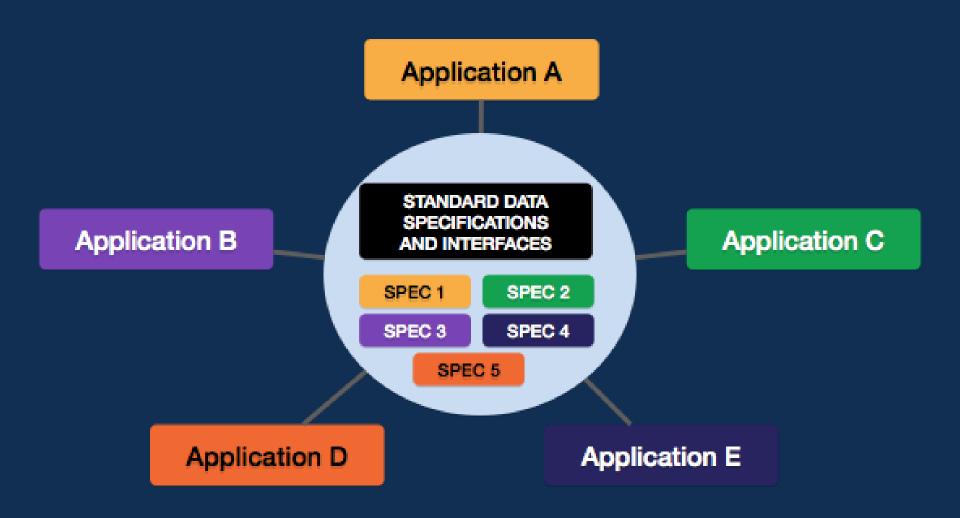
Developing a shared data language for transportation Aaron Antrim

ITS Canada Webinar, Dec 17, 2018 New Horizons in Standardized Traveler Information for Integrated Mobility

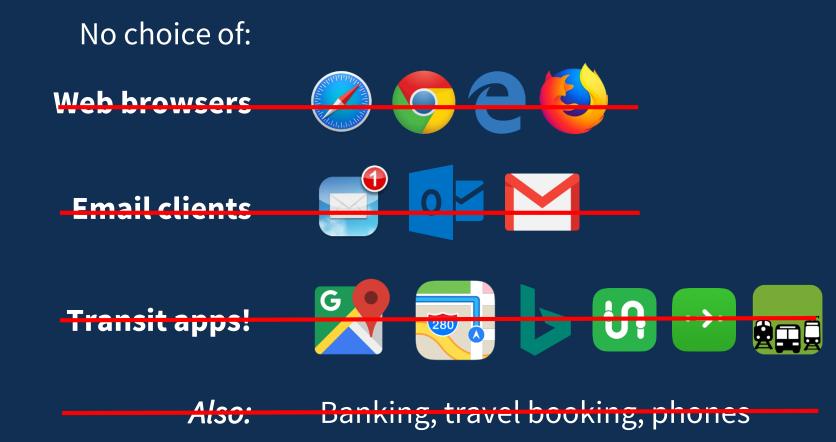
How do we make the seams less visible?

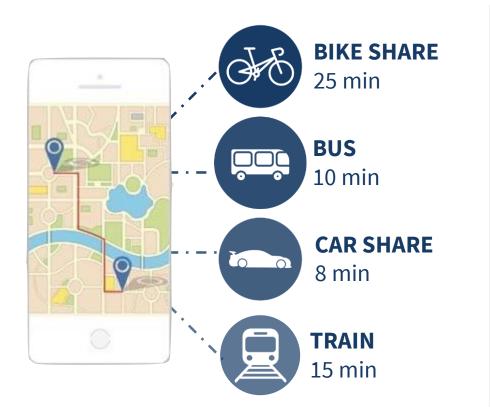
With interoperable data and systems.





A world without interoperable data and interfaces...





For Maas, we need more complete data streams.



Complete data is the key make the multimodal transportation network greater than the sum of its parts.

	Fixed-route transit	GTFS, GTFS-realtime
	DRT, Ride-hailing, taxis, paratransit	Vendor-specific APIs, <i>(Emerging:)</i> GTFS-flex, TCRP G-16
Ń	Pedestrian network	OpenStreetMap (OSM)
50	Bikeshare and bikeways	OpenstreetMap (OSM) General Bikeshare Feed Specification (GBFS)
	Carpool & Vanpool	?
\$	Payments	Banking system, vendor- and agency-specific APIs and SDKs

Hello, Mobility**Data**



A project of Rocky Mountain Institute

MobilityData Project Goals

- **Broaden adoption** of standardized formats so mobility data is available throughout the world.
- Increase completeness of data formats so that more service features can be represented in apps.
- Enhance accuracy and quality of data to ensure that the information travelers see in an app matches the real world.

Producing applications GTFS Consuming applications

Traveler-facing: Trip planners Mobile apps Timetables Internal: Performance measurement Network analysis How we are doing this:

- Making GTFS more clear
- Add features to GTFS
- Make research easier to access

Add features to GTFS to describe more transit services and features:

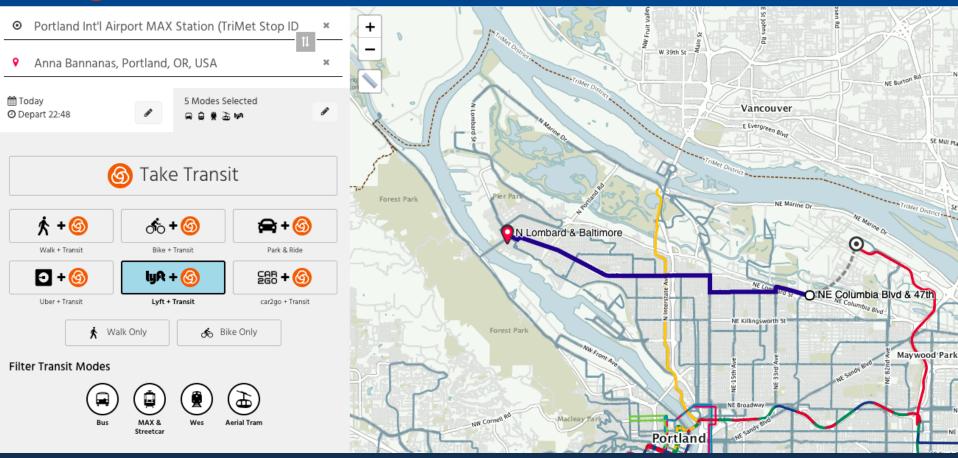
- Demand-responsive transit (DRT)
- Service changes, such as detours
- Vehicle and station features for
 - step-free accessible transit
- Fare structures and travel restrictions
- Line & service, and operator names (branding)

Feature addition process:

1. Gather data producers and consumers 2. Establish use cases 3. Develop specifications 4. Observe practice and experiment 5. Repeat!

Example project: TriMet's OpenTripPlanner

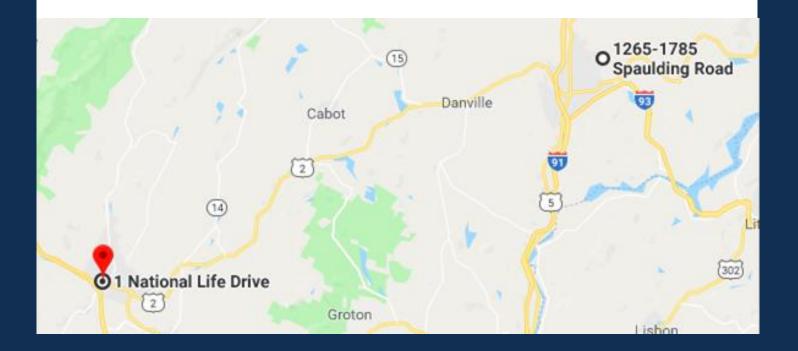
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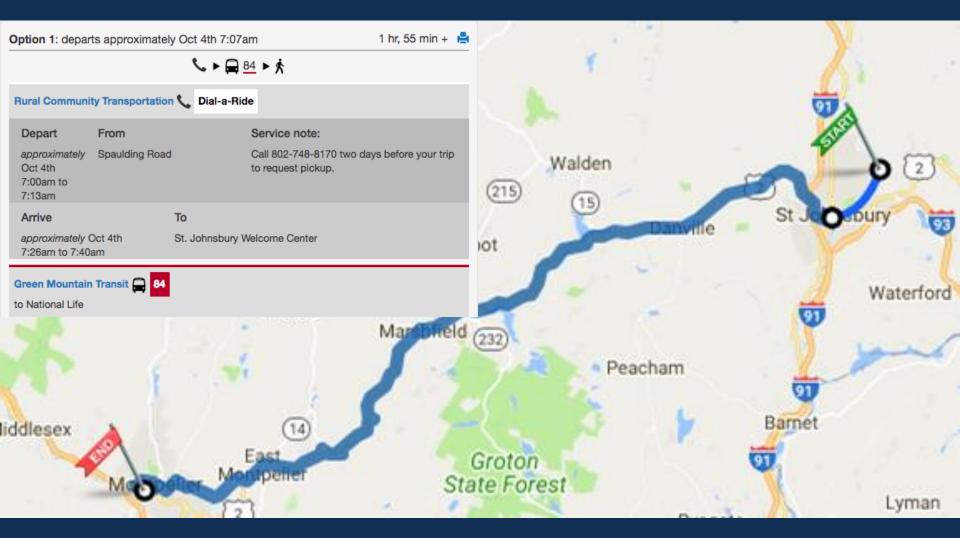
trimet.org/MOD

Demand-response transit doesn't (currently) exist in Google Maps

Sorry, we could not calculate transit directions from "1265-1785 Spaulding Rd, St Johnsbury, VT 05819" to "1 National Life Dr, Montpelier, VT 05602"



Example project: Vermont's "flexible" trip planner



Using GTFS-flex (gtfsflex.com)

MobilityData for transit agencies —

Leverage standards by requiring them in procurement documents:

GTFS gtfs.org GTFS-realtime 2.0 bit.ly/gtfs-realtime-v2blog GTFS-flex gtfsflex.com GTFS Best Practices gtfs.org/best-practices

MobilityData

Questions? Aaron Antrim aaron@mobilitydata.org

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Get involved mobilitydata.org hello@mobilitydata.org