How Tools are Converging to create Integrated, Equitable, On-Demand Mobility Available to All

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We are in a period of change

- Decrease in bus and rail ridership
- Increase in on-demand services (including paratransit)
- Many start-up technology companies
- Interest from the automotive industry
- Reduction in federal funds for public transit



Many siloed services, many newcomers











Considerations



Understand the demand and supply





Wait- & Travel-time Capacity **OTP \$/ HR \$/ Paxmile**







Cost: Every mode has its sweet-spot



Capacity: The strength of mass transit





Starting at the conventional service



LA Metro: Microtransit initiative & NextGen



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Starting at paratransit



Toronto TTC: From Family of Service to Microtransit







Source: TTC 10-year plan Wheel Trans, 2017 Wheel-Trans Operating Budget

Starting at customer platform

Dallas DART:

Multi-operator Booking Platform





The convergence of technologies



Converging technologies allow breaking the siloes

Bring internal departments together in planning, contracting and customer service

Bus, Rail, On-demand, Contracted Parties

Use common performance indicators

- Door-to-door travel- & wait-time, convenience, and quality
- Cost per passenger mile
- % of population within x time of their job
- ▶ Number of people with access to job within x minutes.
- % of network delayed by traffic congestion

Use the converging tools throughout the departments

- Client management
- Demand management
- Resource management

Work with MPOs and the city and build your business case

Define common success factors for public transit



Beware of the fox guarding the henhouse!

Split the booking process and scheduling decisions from (3rd party) operations



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Questions to ask yourself

- ► Is the service equitable?
- Do we determine which resources will be allocated?
- Do we have full access to the data generated?
- Do we have full control over the quality of service?
- Do we have full control over the cost of service?
- Do we address pollution and public health sufficiently?





Conclusion



Converging technologies lead to better & more equitable services

Higher-quality service and greater efficiency through converging tools

- Client management
- Demand analysis
- Trip booking and payment
- Operations and personnel management
- Performance analysis

You can start from various modes

Bus, Paratransit, Customer Booking and Payment

But start with "the end in sight"

- Scale up gradually
- Multiple decision points

Evaluate and simulate before you operate...





Thank you!

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