# INNOVATIVE MOBILITY & TRANSIT KING COUNTY METRO

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#### Outline

- First reflections
- Initial analyses of new services and technologies
- Innovative mobility action agenda
- Shared mobility initiatives
- Institutional change at Metro



#### **King County Metro (2016)**

Service Area 2,134 square miles

Population 2.1 million

**Employment** 1.36 million

Fixed-route ridership 121.5 million

Vanpool ridership 3.6 million (2015)

Access ridership 1.3 million (2015)

Active bus fleet 1,414 excluding ST

Bus stops over 8,000

Park-and-rides 137 lots

Park-and-ride spaces 26,869 w/ ST



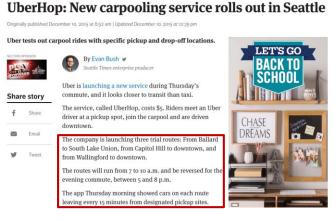


#### **Embracing innovation**

- New private actors and technologies in public transportation space.
- Protecting the role of transit requires proactive approach towards innovation.

Local News | Technology | Traffic Lab

· Learn-by-doing, 'fail forward'.



Eastside | Local News | Traffic Lab

#### Micro-transit firm Chariot to join Seattle market

Originally published June 21, 2017 at 6:00 am | Updated June 21, 2017 at 4:00 pm



# Lyft Shuttle mimics mass transit with fixed routes and fares

Buses are the new ride-share

by Andrew J. Hawkins | @andyjayhawk | Mar 29, 2017, 4:15pm EDT









We are not starting from scratch



Bike racks, 1978

Vanpool, 1979

We are not starting from scratch



Felexcar, 2000

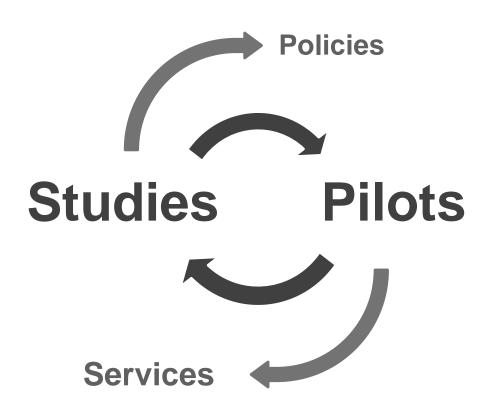
Pronto, 2014

#### **Community Connections**

- A new model to deliver mobility services to parts of King County that do not have the infrastructure, density, or land use to support traditional fixed-route bus service.
- Key features:
  - · Community based process
  - Innovative services & products
  - Customized, creative solutions
  - Community partnerships
- Metro has provided and contracted new services, including:
  - Community transportation hubs
  - Community ride
  - Real-time rideshare
  - Trip pool
  - Community shuttle
  - Community van



# A basic framework for innovation



# **Shared mobility report**

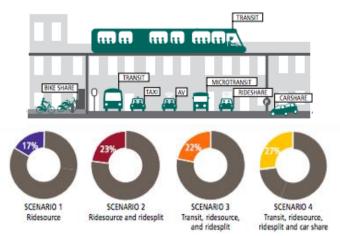




- A collaboration between Metro, SDOT, Sam Schwartz Consulting and the UC Berkeley Transportation Sustainability Research Center.
- Development of methodological foundations to analyze the potential impact of shared mobility and other trends in the sector.

# Shared mobility report

## **User: Improved options, reduced costs**



- 17-27% of existing vehicles in King County could be reduced because it is cheaper for their owners today to choose shared mobility options.
- 17% = 227,658 cars!
- In additional scenarios accounting for AVs, reduction increases to 31-45%.

# Agency: Improved services, reduced costs



- An analysis of the productivity of Metro's nonexpress bus service shows that 5% of runs and 4% of service miles would be cheaper to the agency if provided by TNC.
- 36% of these trips occur between 10:00 pm to 5:00 am; 26% occur between 5:00 am to 9:00 am.

# Innovative mobility action agenda

To achieve Metro's goals in both the short- and the long-term, Metro will embrace innovation by pursuing the following strategies:

1	Leverage the growth of <b>shared</b>
	mobility options as a complement to
	Metro's services.

- Build an internal framework to support the realization of **Mobility-as-a-Service**.
- Embrace the strategic opportunities brought by electric, connected, and automated vehicles.

IV	Integrate Metro's data management
	platforms and engage with Smart
	City initiatives throughout King
	County.

- Advance efforts to improve the efficiency of existing **infrastructure** and realize **compact urban forms**.
- Strengthen Metro's institutional capabilities to invest and nurture a culture of innovation.

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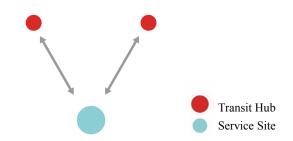
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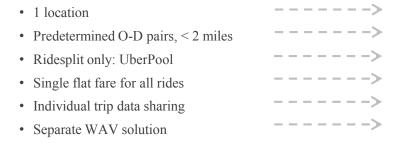


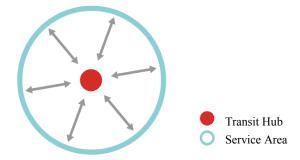
# **Shared mobility initiatives**

#### First/Last mile program



#### Pilot #1: Bellefield





#### **Pilot #2: FTA MOD Sandox**

- 3-4 locations
- Open service within 2-3 mile radius service area.
- Ridesplit and ridesource: Lyft Line, Lyft
- Standard rates, low income rates
- Individual trip data sharing, data sharing platform
- Integrated WAV solution, call center dispatch

# **Shared mobility initiatives**

#### First/Last mile program

- Challenge bringing together:
  - Old institutions & new business models
  - Government policy goals & corporate goals
- Principles:
  - · Incremental approach
  - Incentivize more comprehensive services, performance
  - Higher risk tolerance
- Pilot #3:
  - · Build on lessons learned
  - Use RFP process to advance market to where we want it to be.
  - Closed proposal evaluation, targeting service launch in Q4 2017 / Q1 2018.



# **Shared mobility initiatives**

#### **Private transit management**

#### • Background:

State law awards Metro a local monopoly for the provision of public transportation services.

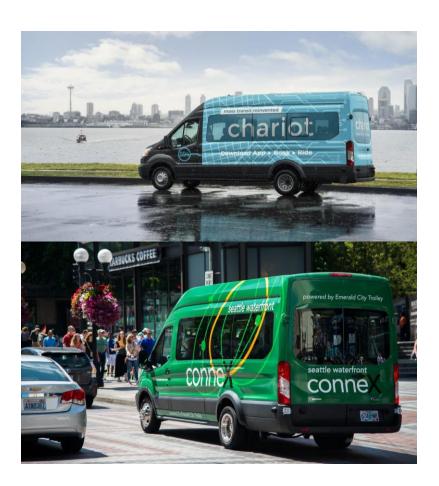
- Original vision behind this law was prevent other providers from competing in our market.
- 2017 reinterpretation is Metro will manage provision of services by new providers.

#### • Approach:

Implement a formal process to proactively authorize, monitor, and evaluate the provision of privately operated public transportation services, while retaining the overall management of public transportation.

#### • Timeline:

Intake process open in Q4 2017 Service launch in Q1 2018



# **Nurturing innovation**

#### **Embracing change at Metro**

- An expansion of our role from service provider to mobility management.
  - Growing role for partnerships and coordination with private sector operators.
  - Managing leadership through this change.
- Advance needed regulatory changes to reduce barriers to innovation.
- Internal considerations
  - Higher risk tolerance
  - Organizational changes and resource allocation
  - Labor discussions
  - Workforce development



# Thanks!

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