



MWCOG/TPB Regional Transportation Subcommittee November 27, 2018

ATV Presentation Overview

DASH

- Project Overview
- Transit Choices Report
 - Market & Needs
 - Existing Transit Network
 - Key Choices
 - Emerging Technologies
- Network Design Workshop
- Next Steps
- Questions/Discussion

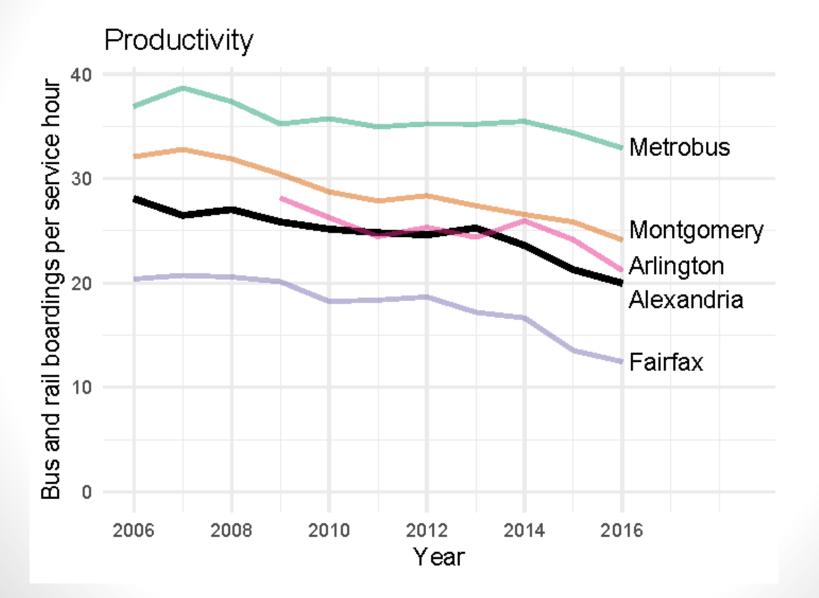
What is the background context?

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- Declining transit ridership
- Dated transit network design
- Evolving travel patterns & behaviors
- Shifting demographics and land use patterns
- Technological advancements
- Continued budget uncertainty











The ATV is an <u>unbiased</u>, <u>data-driven</u> effort by DASH and the City of Alexandria to redesign the city's transit network to more accurately reflect community transit priorities and current/future transit demand.

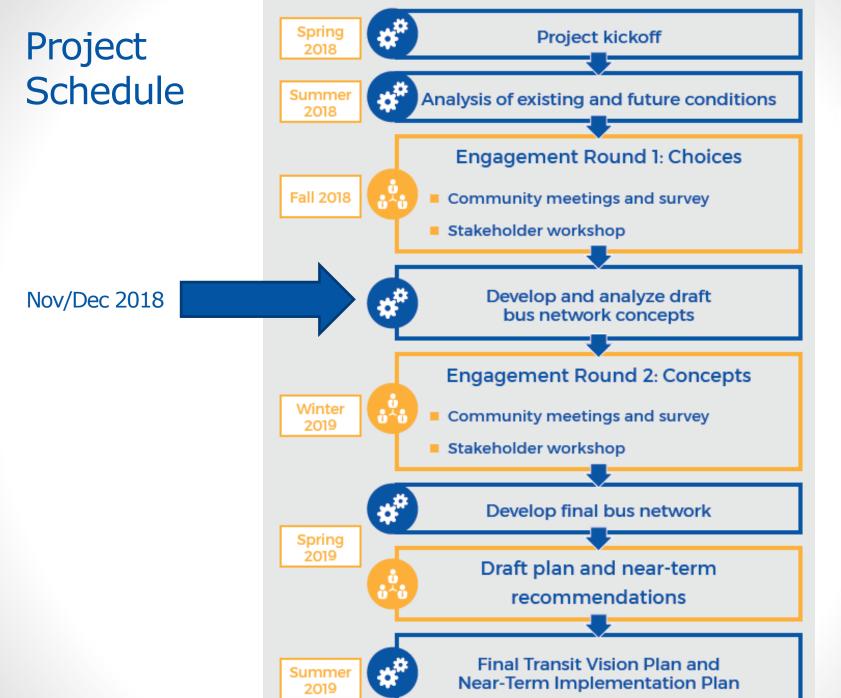
The final ATV Plan will be:

- Unbiased (Starting with a Blank Slate)
- Comprehensive/Inclusive
- Data-Driven (Demographic, O/D Pairs, etc)
- Reflective of Comm./Stakeholder Values
- Unconstrained*

What are we trying to accomplish?

- ✓ Identify existing & future transit needs
- ✓ Stakeholder engagement/education to help identify transit-related priorities
- ✓ Gain support/buy-in from key decision-makers, stakeholders and community.
- ✓ Address emerging technologies (AV's, Uber/Lyft, Microtransit, MaaS, etc)
- ✓ Develop Vision for Future Network (10+ years) & Implement Near-Term Scenario (1-2 years)







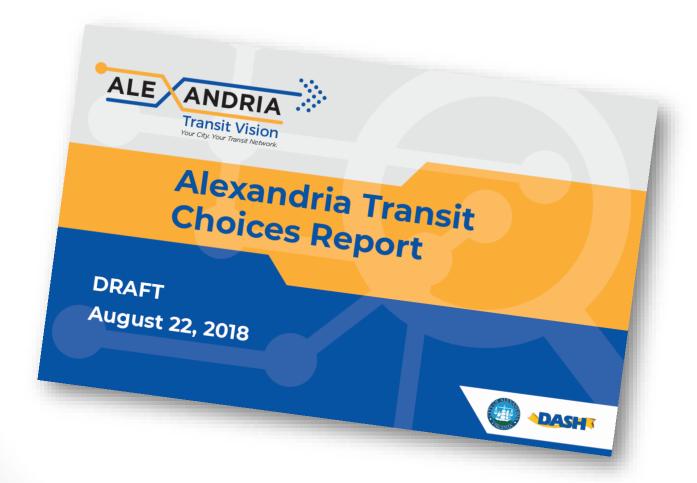






Time Frame	General Public	Stakeholders
Phase 1: Information, Choices & Tradeoffs	 Round 1 Community Meetings: Choices Choices Survey (standard format) 	Workshop #1: Tradeoffs
Phase 2: Conceptual Networks	 Round 2 Community Meetings: Network Concepts Concept Survey (MetroQuest) 	Workshop #2: Concepts
Phase 3: Final Plan & Implementation	Commission & Council Meetings	Workshop #3: Final Plan and Implementation

Transit Choices Report





Transit Choices Report

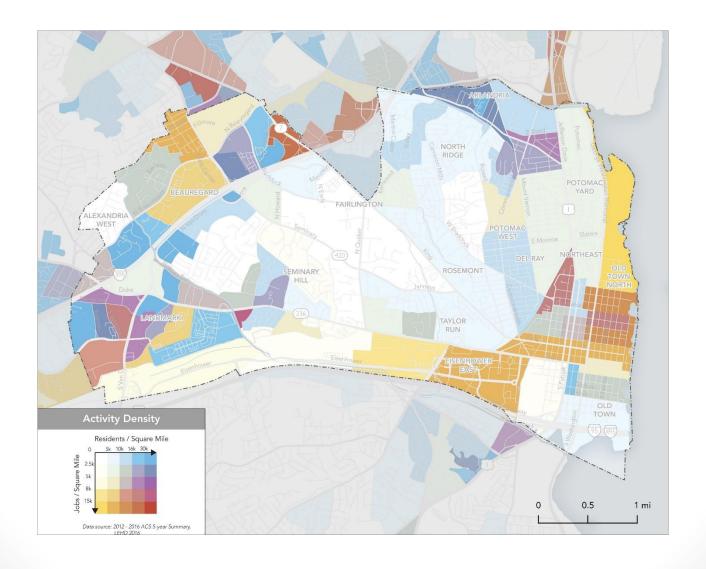
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- Existing Network Review
- Transit Market & Needs Analysis
- Technology Trends
- Key Choices/Trade-Offs
 - 1. Ridership vs. Coverage
 - 2. Peak vs. All-Day
 - 3. Transfers vs. One-Seat Rides
 - 4. Walking Distance to High-Quality Transit
- Choices Report will provide framework for Stakeholder Outreach & Discussion



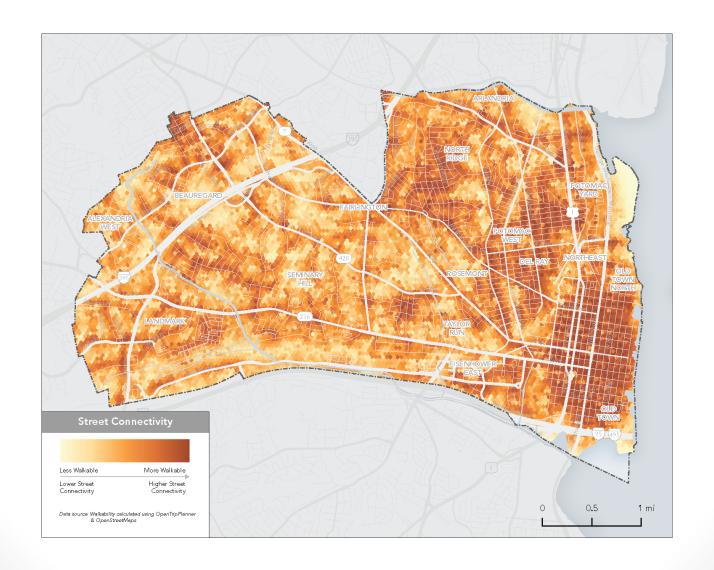
Markets & Needs – Activity Density





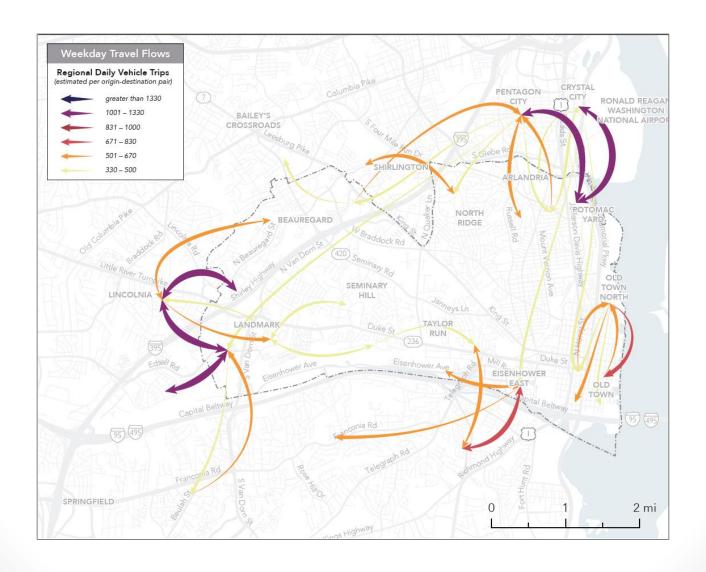
Markets & Needs - Walkability



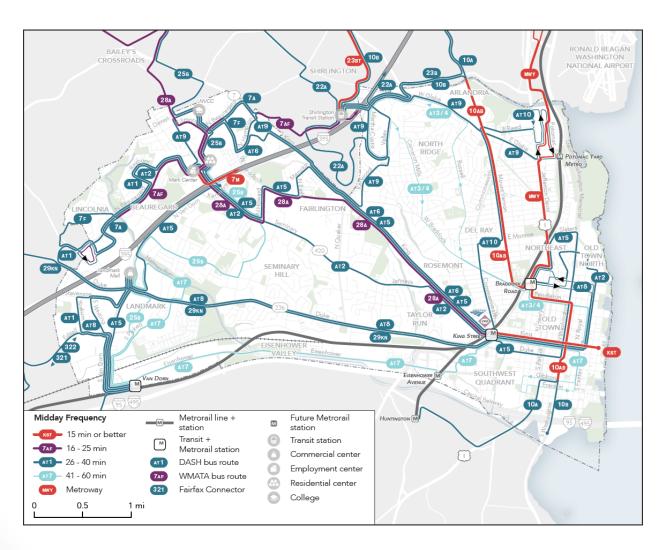


Markets & Needs - Demand





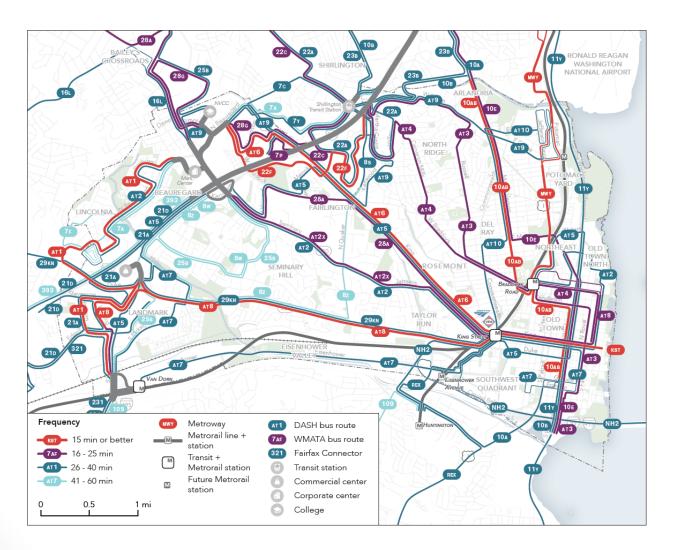
Existing Bus Network (Mid-Day)







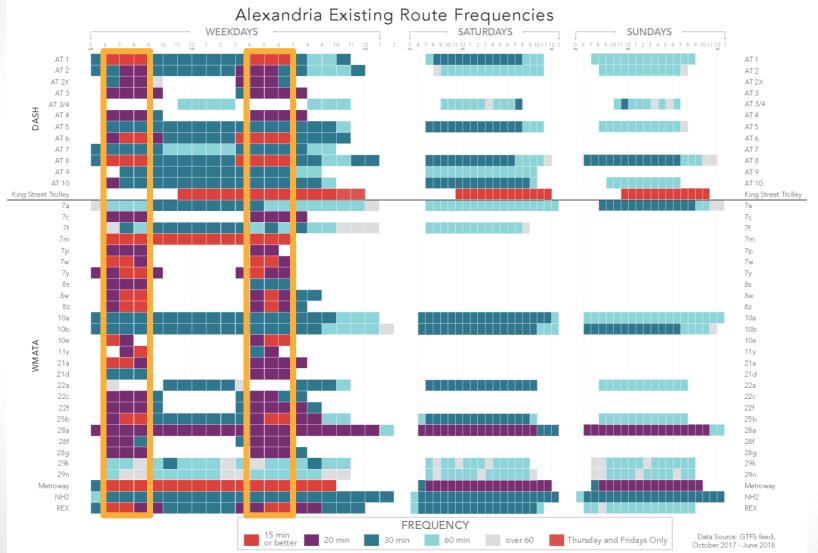
Existing Bus Network (Peak)







Existing Bus Frequency Chart

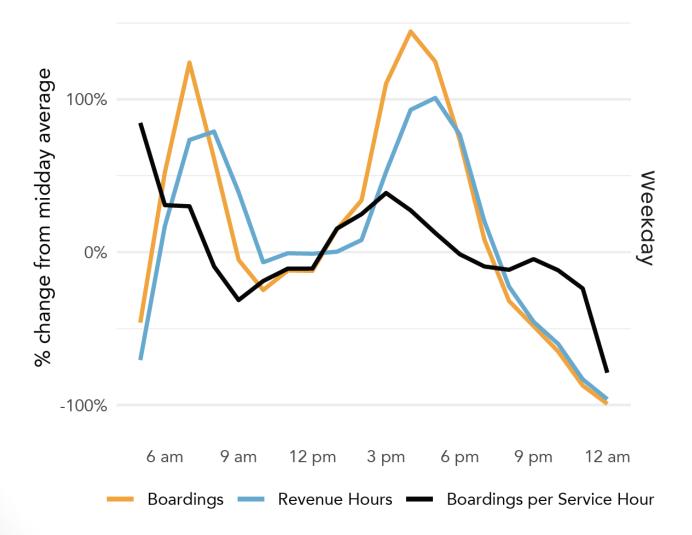




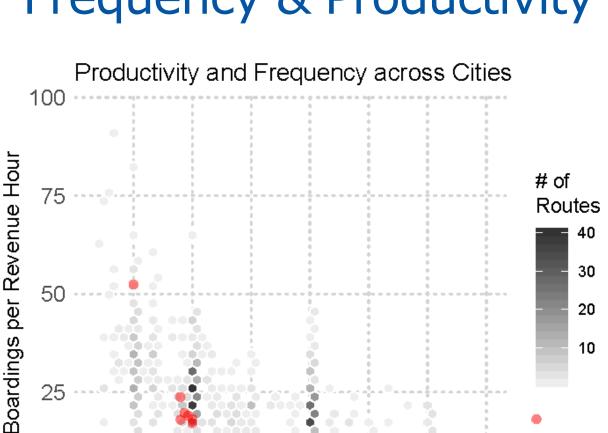


Productivity (Peak vs. Off-Peak)















Benefits of High-Frequency

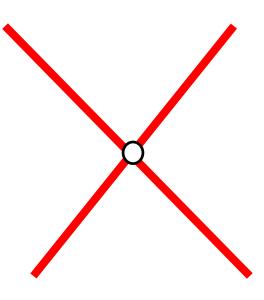
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frequency is the most neglected element.

Frequency offers three huge benefits:

- Go when you want to go
- Make connections between frequent routes easily
- Better reliability

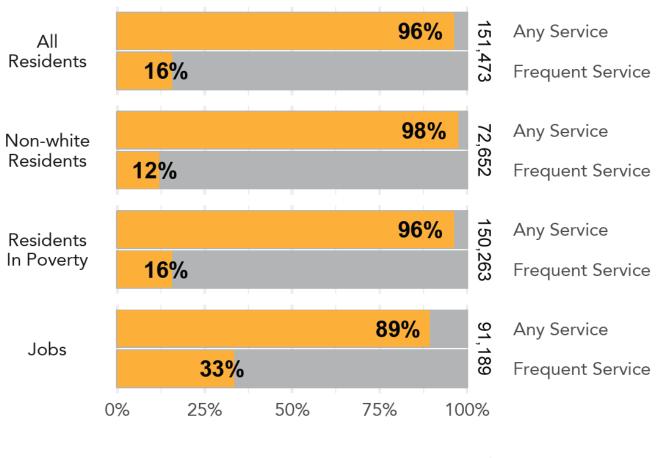
For short trips, waiting can make up most of your travel time!



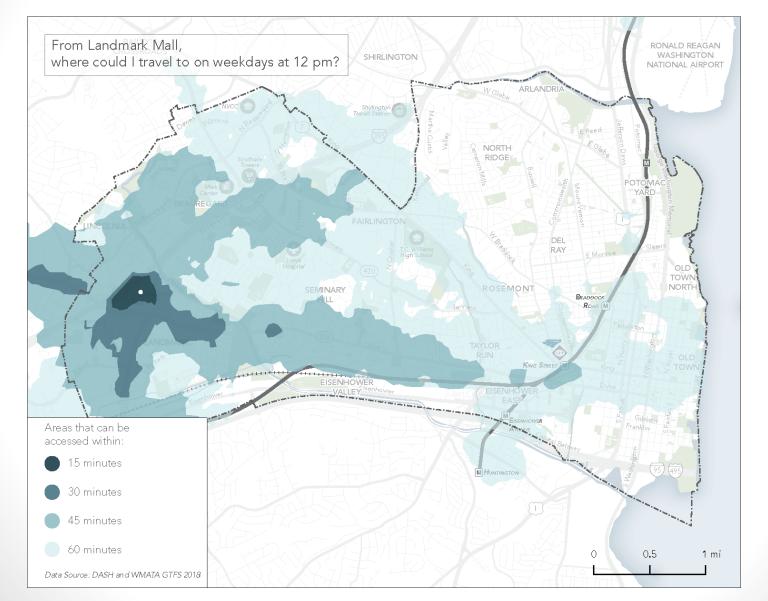


DASH

DASH & WMATA Midday Coverage



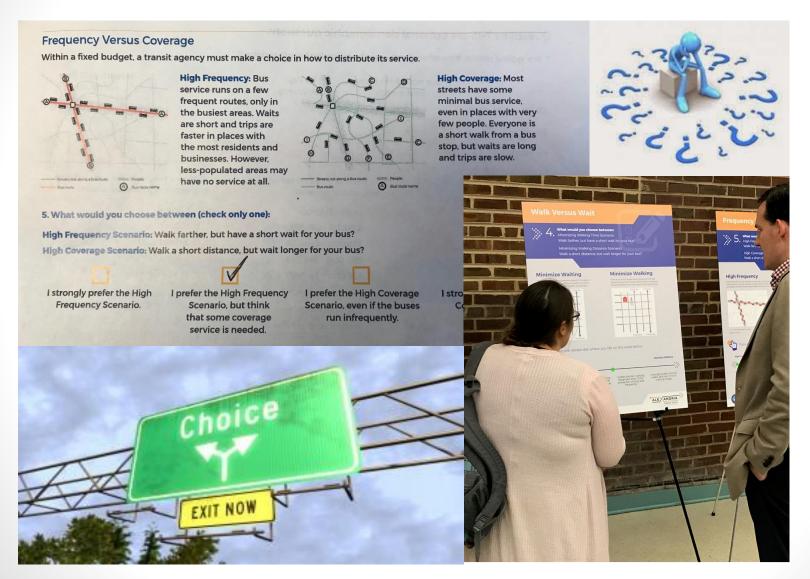
Existing Access via Transit







Key Choices

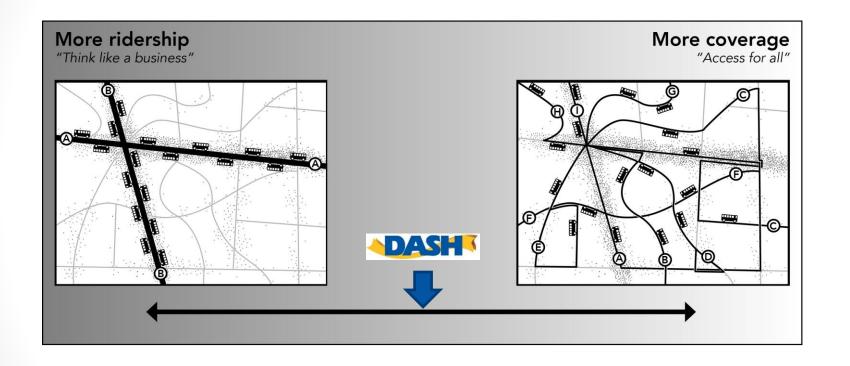






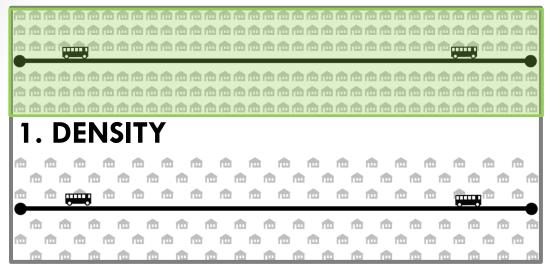
#1 / Ridership vs. Coverage

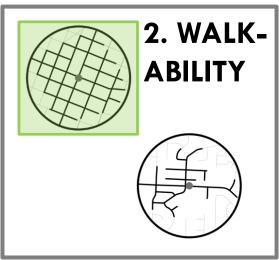


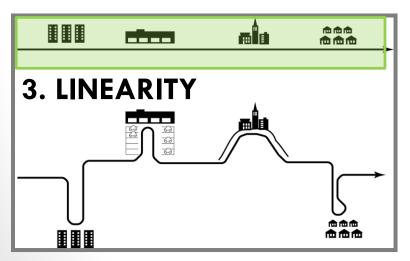


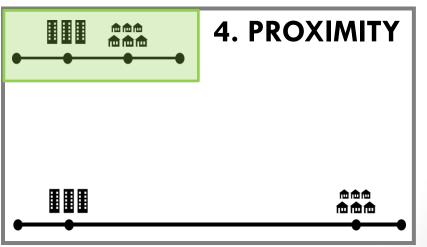
High Ridership Recipe



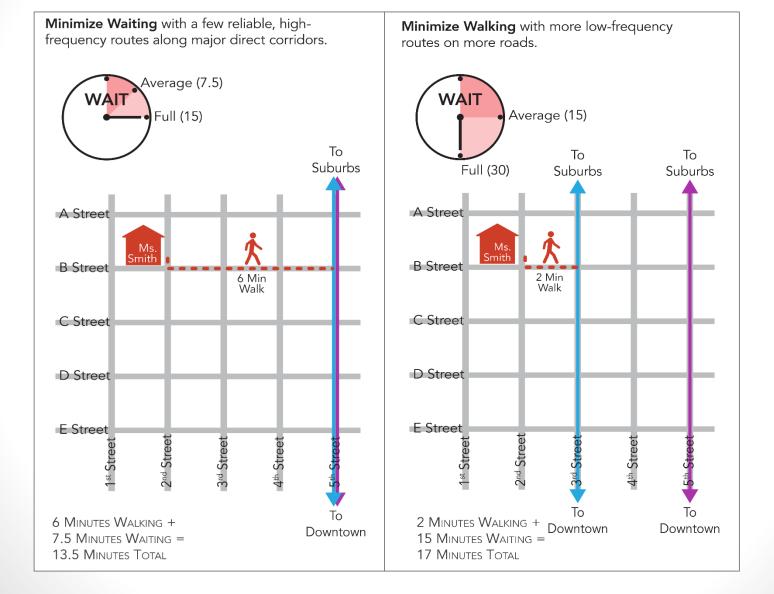








#2 / Walking vs. Waiting

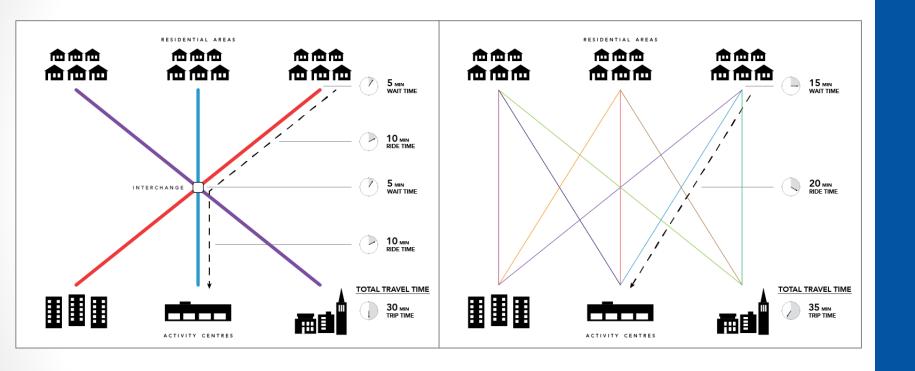




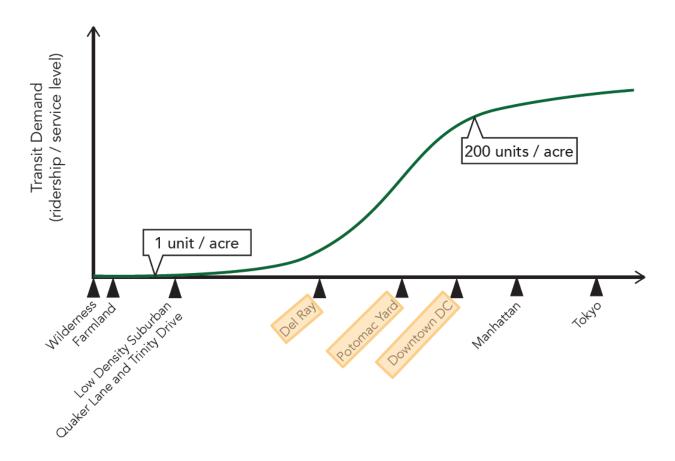


#3 / Connections vs. Complexity





#4 / Level of Investment



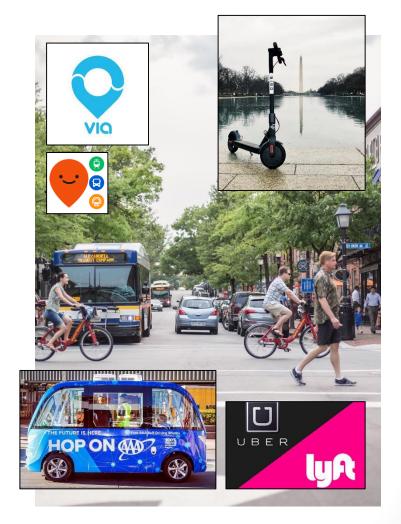
Density of Development (people / area)





Emerging Transit Technology

- Bike-/Scooter-shares
- Full automation is a longterm change
- Ride sourcing is disruptive for patron expectations; often competes for transit passengers but encourages shared mobility
- Near-term technology solutions in fare collection and service data may improve ridership
- Research from transit
 agencies in VA indicate desire
 to adapt to trend towards a
 broader focus on mobility







Technology Doesn't Change Geometry







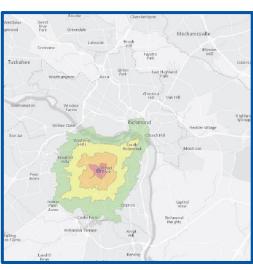
Core Network Design Workshop

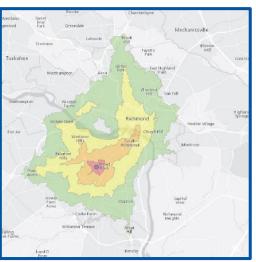




Next Steps

- ✓ Finalize & evaluate two draft network concepts
- ✓ Public Outreach & Engagement (Jan/Feb)
- ✓ Final Network Design Workshop (Spring)
- ✓ Release Final Network Plans (Summer '19)











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Project Webpage

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