



DASH Q'STRAIT QUANTUM PILOT

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ALEXANDRIA TRANSIT COMPANY
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OVERVIEW

- Quantum System
- DRPT Grant Program
- Bus Selection
- Community Outreach
- Operator Training
- Expansion Plan
- Revenue Operations
- Q&A



QUANTUM SYSTEM

ALEXANDRIA TRANSIT COMPANY

DASH



- Mostly Automated Mobility Securement System
- Rear Facing
- Secures in ~30 Seconds
- Passenger or Operator Controlled
- Safety Features

DRPT MERIT GRANT

- Making Efficient and Responsible Investments in Transit (MERIT)
 - Demonstration Project Assistance
- 80% funded by DRPT - 20% Local Match
- Demonstration projects must be used to test “proof of concept” for tech
- Applied in January 2023, awarded in FY2024



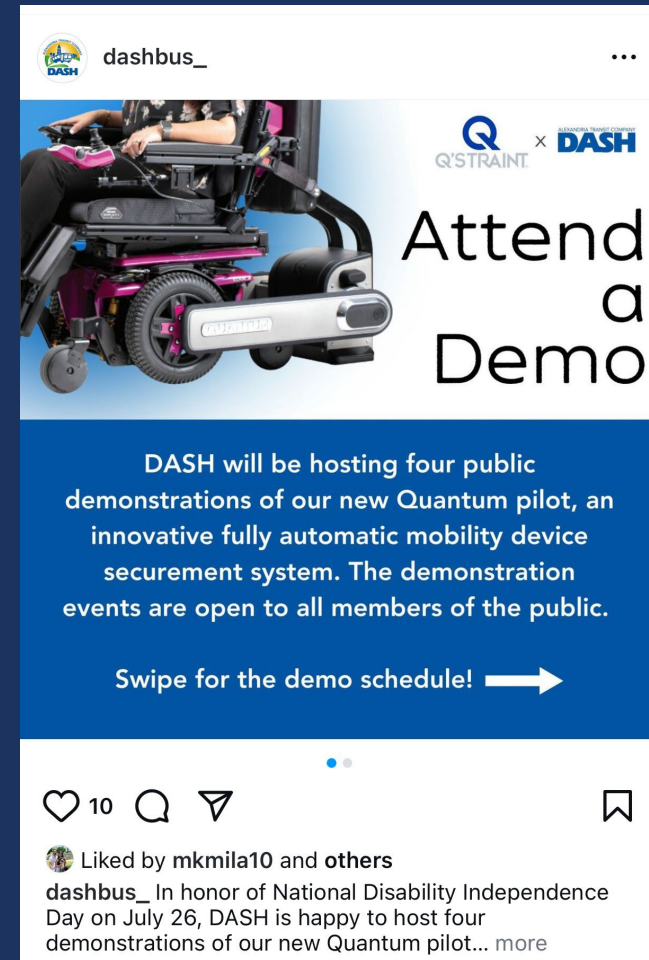
BUS SELECTION

- DASH Operates a wide variety of vehicle types:
 - New Flyer 40' and 60'
 - Gillig 35' and 40'
 - Proterra 40'
 - Trolley Style Gillig 29' and 35'
- Selected Unit 703 – 2020 New Flyer XD40
 - 38 similar buses making it more common
 - Similar specs to buses on order



COMMUNITY OUTREACH

- Hosted four public events in the City of Alexandria
 - Landmark Transit Center
 - Braddock Road Metro Station
 - King Street Metro Station
 - Del Pepper Community Resource Center
- Additional events for specific community groups, as requested
- Feedback Channels:
 - In-Person
 - Online Forms
 - Traditional Customer Service Contacts



COMMUNITY OUTREACH

- Positive Reactions:
 - Independence for People with Disabilities
 - System feels very secure, even without safety belts
- Critiques:
 - Rear Facing for three reasons:
 1. Motion Sickness
 2. Communicating with Operator
 3. Looking directly at other passengers
 - Instructions on Passenger Controls too small to read

OPERATOR TRAINING

- Integrated into New Operator ADA Training for future compliance
- In-Person Training for Current Operators
- Challenges:
 - Summer Months - vacation
 - Nearly 24/7 Operation
 - Limited Bus Availability



EXPANSION PLAN



- Grant awarded 5 Quantum Units total
- Variety of Install Layouts
 - 3 - curbside
 - 2 - streetside
- Install on Gillig and more New Flyer buses

NEXT STEPS

- Collecting more data from Revenue Service Operations:
 - Operators
 - Field Supervisors
 - Passengers
- Analysis on dwell times for units with Quantum
- Observations on Maintenance Issues after many uses

CONCLUSION



- Questions?