

Innovation in Transportation

Grant Sparks, AICP Director of Transit Planning June 27, 2023







Public Transit in Virginia



40 transit agencies

- Heavy Rail
- Commuter Rail
- Light Rail
- Ferry
- BRT
- Fixed Route
- Demand Response

90M annual transit riders (2022)



\$800M annual transit allocations

Transit Funding in Virginia

A couple major changes have been made to state and federal transit funding over the last few years:

STATE FUNDING

Omnibus Transportation Bill (2020)

FEDERAL FUNDING

Infrastructure Investment and Jobs Act (2021)







Virginia Transit Equity & Modernization Study

House Joint Resolution 542 (2021)

- Required DRPT to complete a needs assessment that focused on the advancement of transit equity and modernization efforts in Virginia
- Identified six topic areas to be studied
- Emphasis on providing engagement opportunities for underrepresented and underserved communities



Study Process



Needs & Opportunities Assessment FALL 2021

Action Plan WINTER 2021-2022

Final Report SUMMER 2022

- Assessment of existing conditions
- Industry, best practice, and peer research
- Stakeholder review and input
- * Baseline Conditions and Needs Assessment Memo

- Document needs by technical area
- Identify opportunities by technical area
- Stakeholder review and input
- * Interim Study Report

- Brainstorm how to best realize opportunities
- Evaluate for implementation
- Stakeholder review and input

* Detailed Action Planning Summary

UGUST 2022

HJ 542 Final Report

DRP1

Virginia Transit Equity and Modernization Study

www.vatransitequity.com



Key Findings

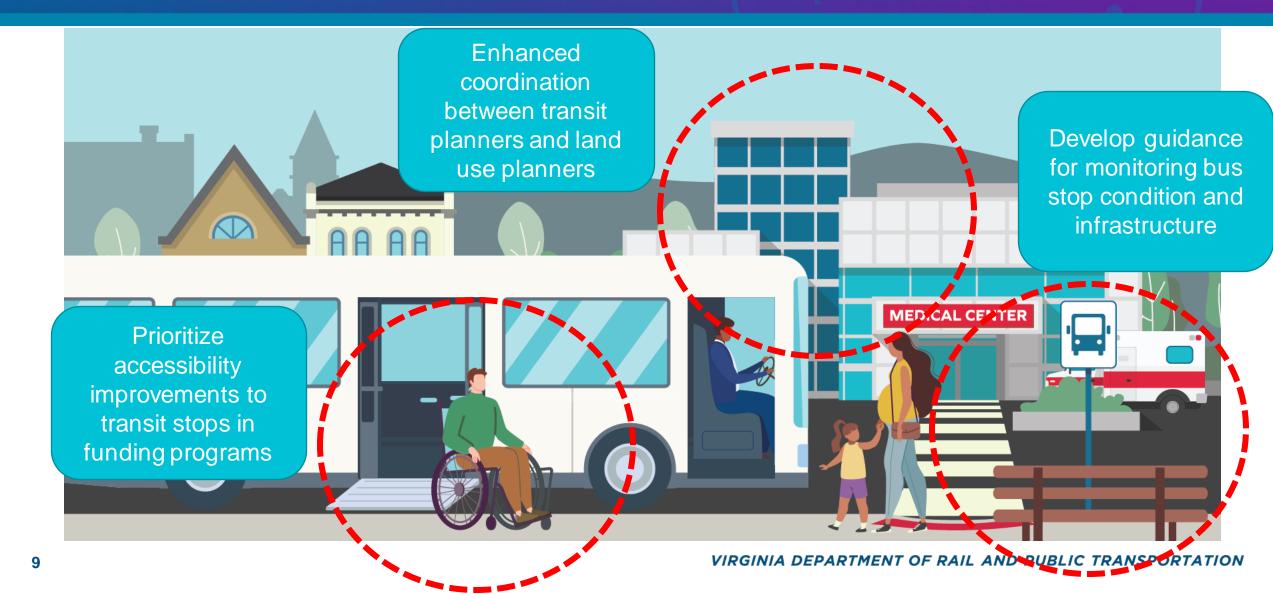
- 1. Many bus stops are poorly placed and not well-connected to sidewalks.
- 2. Basic transit infrastructure is inconsistent.
- 3. There is increasing interest in piloting zerofare service to overcome barriers to transit access.
- 4. The availability of transit in Virginia is high, but gaps exist.
- 5. There is strong interest in transitioning to zero-emission fleets across Virginia transit agencies.



Key Findings

- 6. There are unique needs for and barriers to adopting new and emerging technology among Virginia's transit agencies.
- 7. Transit is among the safest ways to travel, but there is room to improve both perceived and actual safety for transit riders, operators, and employees.
- 8. More data with better precision is needed to make informed decisions.
- 9. Transit riders have limited opportunities to be a part of the decision-making process.
- 10. Equity and accessibility must be more heavily considered in guidance, requirements, and funding programs for transit agencies.

HJ 542 Recommendations



HJ 542 Recommendations





HJ 542 Recommendations



Funding the Study Recommendations

- Recommendations to be implemented by DRPT or transit agencies/partners
- Many state and federal discretionary funding programs already exist that can address study needs
- Successful implementation will require matching certain recommendations with an appropriate state/federal funding program(s)







Transit Ridership Incentive Program

The INFRASTRUCTURE INVESTMENT and JOBS ACT

Funding the Study Recommendations



- ~\$23M in state funding available per year
- New project types added during 2023 General Assembly
- Can fund project for up-to five years
- Multi-year projects include state funding "step down:"
 - Year 1: 80% state
 - Year 2: 60% state
 - Year 3: 30% state
 - Year 4: 20% state
 - Year 5: 10% state



DRPT Federal Discretionary Grants

2019

- FTA Integrated Mobility and Innovation
 2020
- FTA Passenger Ferry
- FTA COVID Research

2021

- FTA Access and Mobility for All
- FTA Passenger Ferry Program

2022

- FTA Innovative Coordinated Access and Mobility 2023
- FTA Buses and Bus Facilities
- FTA Areas of Persistent Poverty

Virginia Breeze

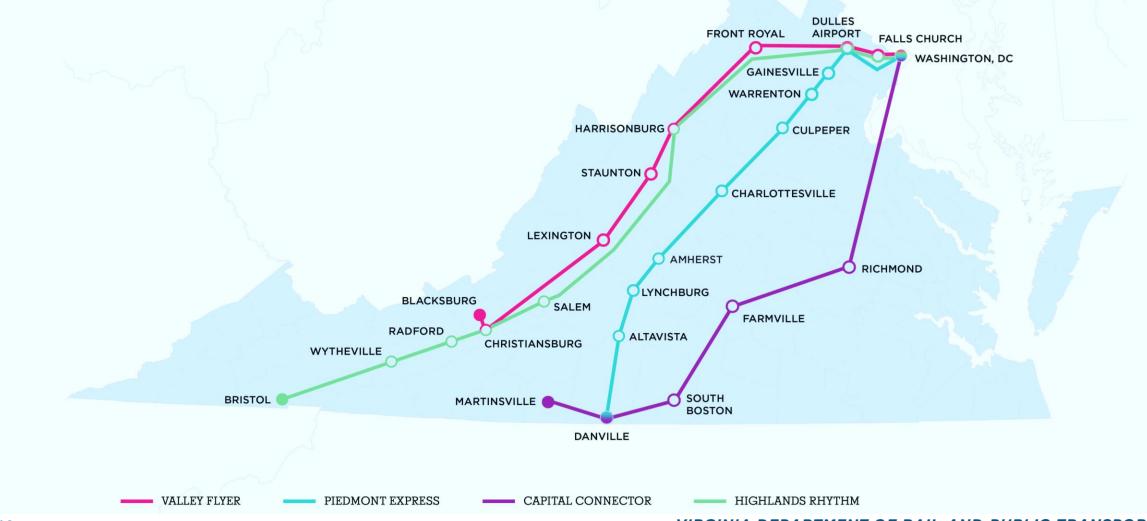




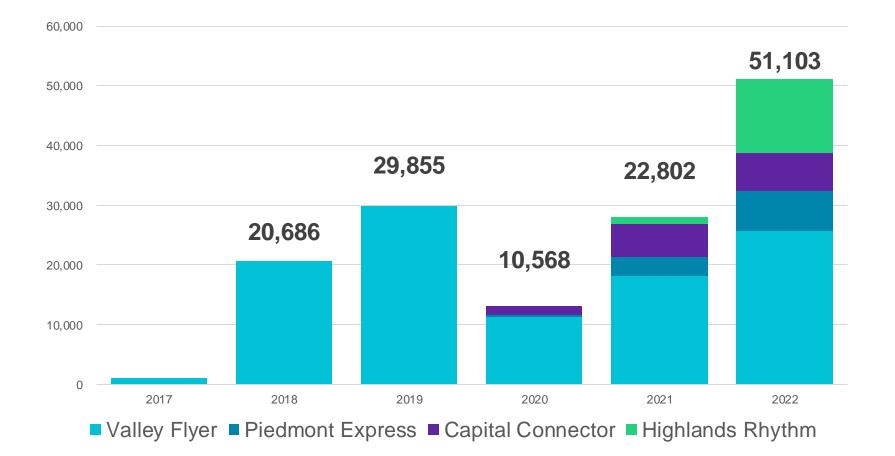
Intercity bus service connecting underserved communities to the national network

- Funded entirely with federal dollars and ticket sales
- Ridership has exceeded pre-pandemic levels and is **110% higher** than original estimates
- Routes:
 - Valley Flyer (Blacksburg-DC)
 - Piedmont Express (Danville-DC)
 - Capital Connector (Martinsville-Richmond-DC)
 - Highlands Rhythm (Bristol-DC)

Four Bus Routes



Virginia Breeze Ridership





Overview



Launched in 2017 to connect underserved rural communities to national bus network and other transportation modes



Operates 365 days a year on all four routes

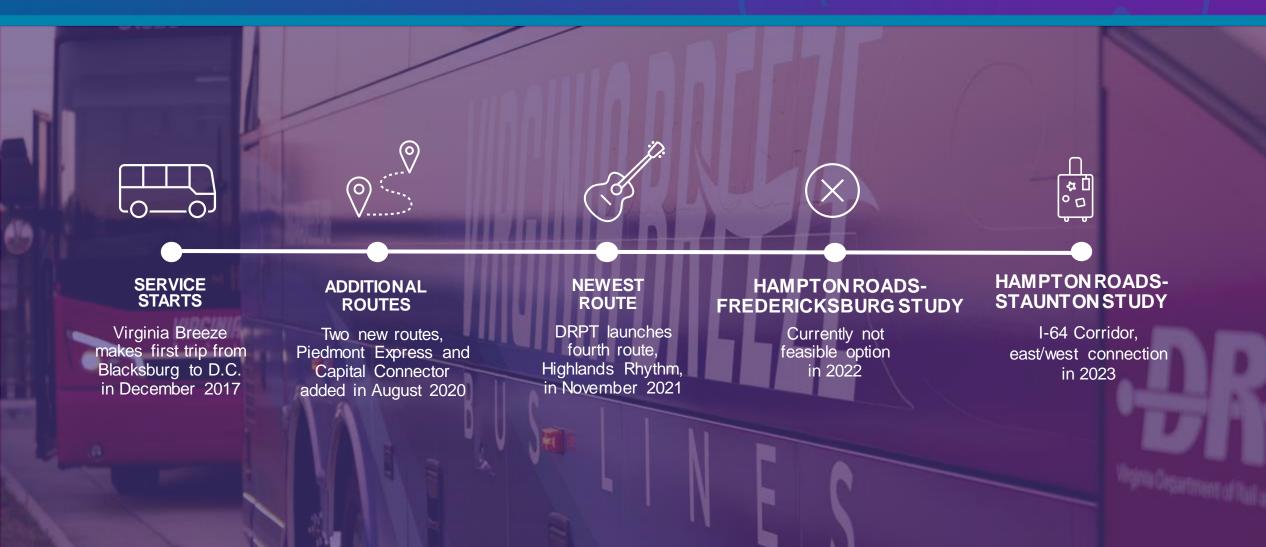


Funded through Federal Transit Administration's Intercity Bus Program (5311(f)) and ticket sales



Dillon's Bus Service operates the service, providing vehicles, drivers, and maintenance, and DRPT manages the service

Timeline





5311 (f) Intercity Bus Program Funding

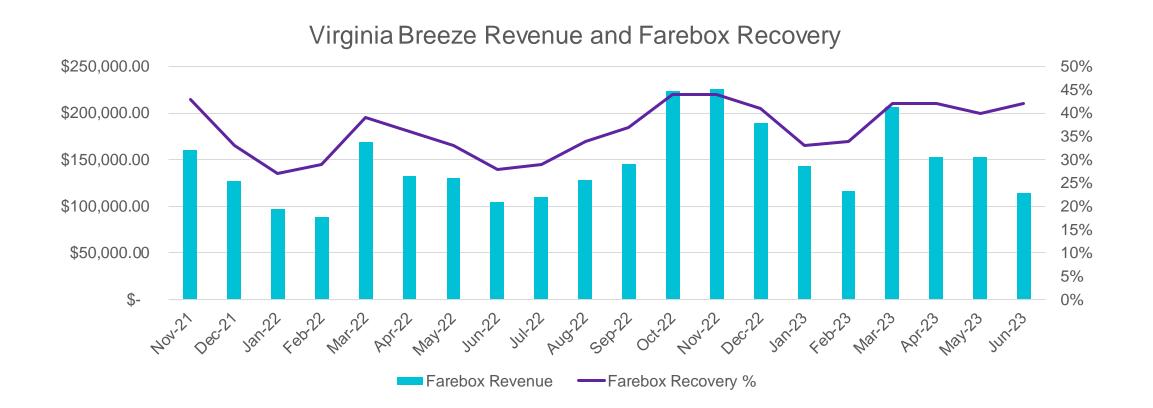
- FTA 5311 funding apportioned to states for rural transit use
- 15% of annual 5311 apportionment must be spent on Intercity Bus Service unless the state can validate that all intercity bus needs are met
- To be eligible for funding, service must provide meaningful connections to rural areas



In-Kind Matching

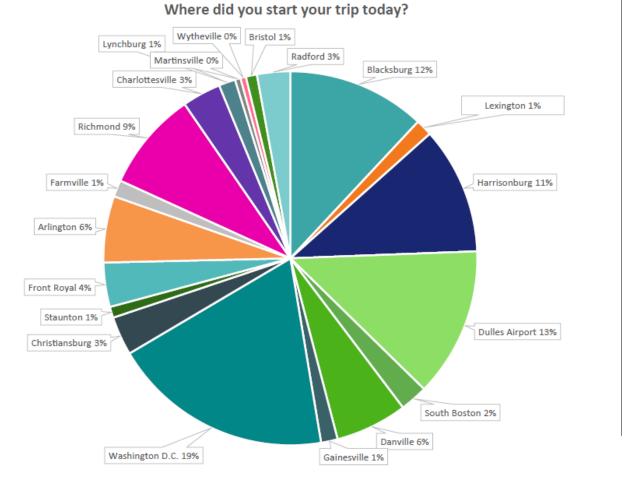
- FTA allows in-kind contributions to be used as a match against federal funding. For 5311(f), in-kind match is provided in the form of service connections that extend beyond the Virginia Breeze terminus in Washington D.C.
- DRPT contractor calculates in-kind contributions by identifying the individuals who made an intercity bus connection in Washington D.C. and assigning a cost per mile value to the additional miles travelled.
- FTA section 5311(f) funds can be used to provide up to 50% of the net cost of service (total cost less farebox revenue). The remaining 50% of the net cost of service must be provided with cash or in-kind match.

Revenue



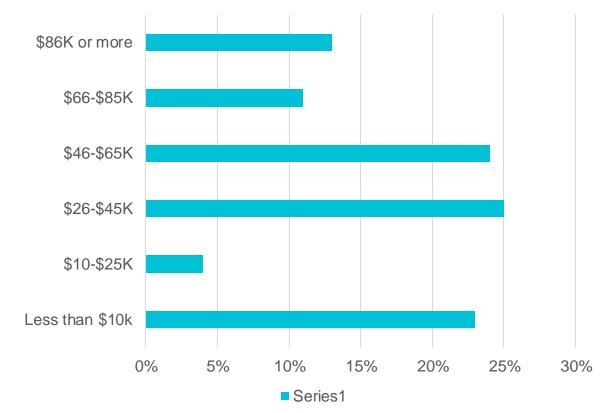
Connecting the Commonwealth

Underserved Communities



Affordable transportation options

• 52% of passengers earn <45k annually





Future Planning

- Amenity enhancements for existing bus stops
- Continued analysis of unmet needs with other bus stops along routes
- I-64 Corridor Study currently underway
- Partnerships with local transit systems to study enhancing passenger access



Grant Sparks Director of Transit Planning, DRPT grant.sparks@drpt.virginia.gov