

Transportation Innovation at NVTA

*March 13, 2019
4th Annual Northern Virginia Transportation
Roundtable*



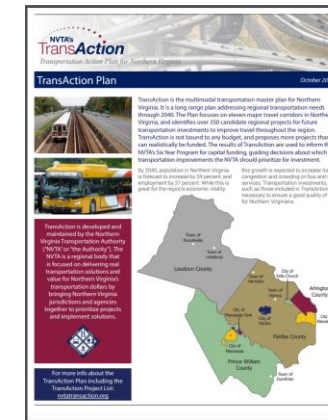
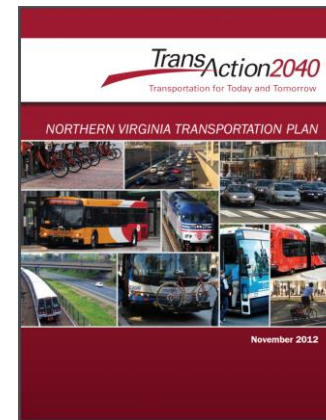
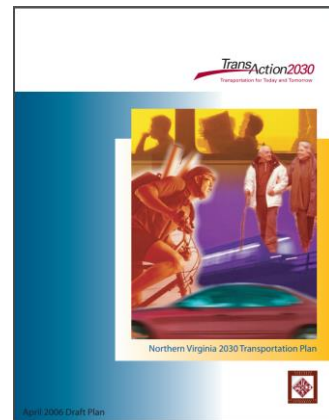
Presented by:

Monica Backmon, Executive Director, Northern Virginia Transportation Authority



Two Primary Responsibilities

1. Develop and update the long-range, multimodal Transportation Plan for Northern Virginia → TransAction



2. Prioritize and fund regional transportation projects → Six Year Program

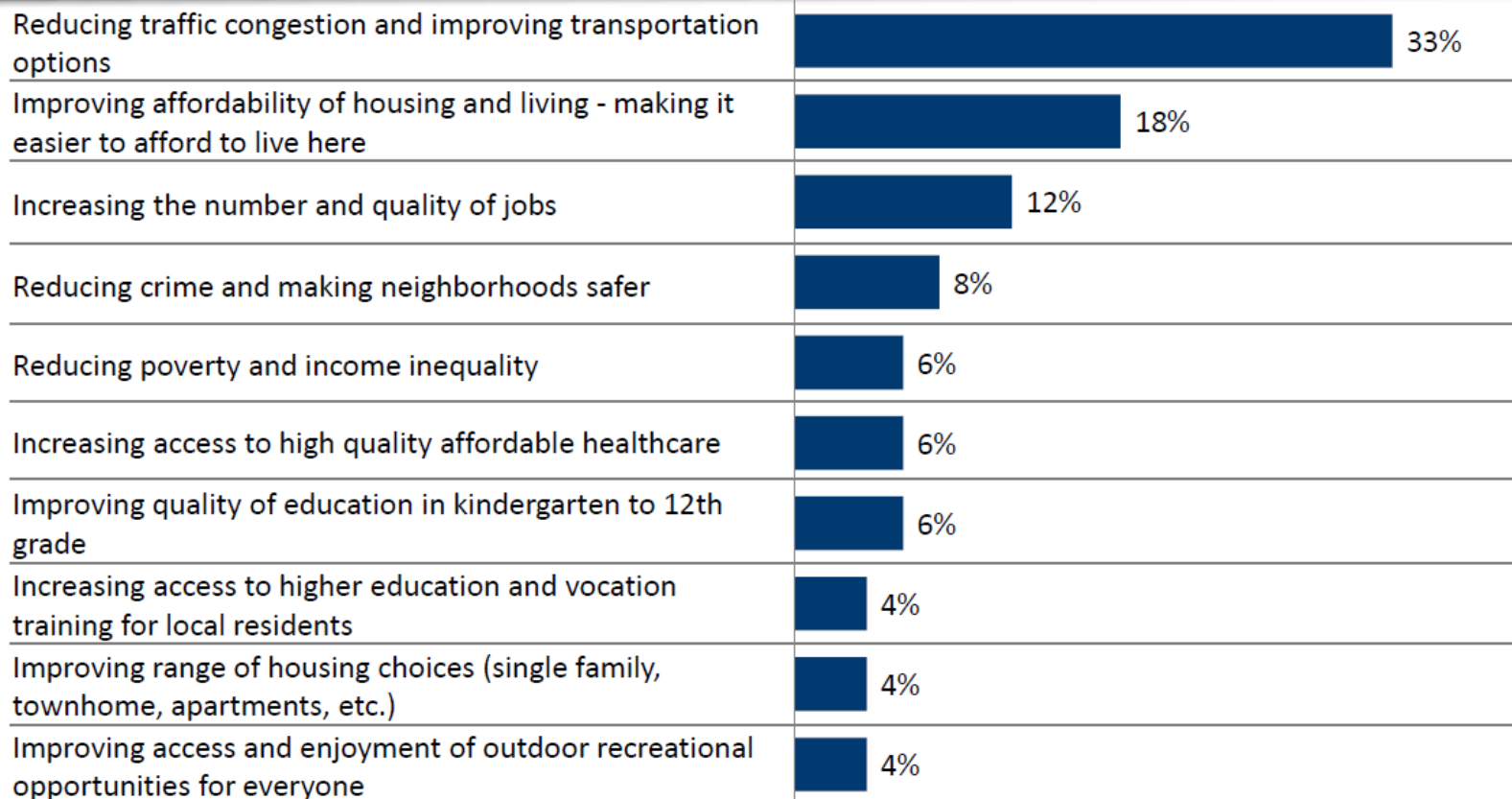




One-third of residents consider “Reducing traffic congestion and improving transportation options” the most impactful factor on their quality of life.



Significant Impact on Quality of Life



9

BASE: ALL RESPONDENTS (n=606)

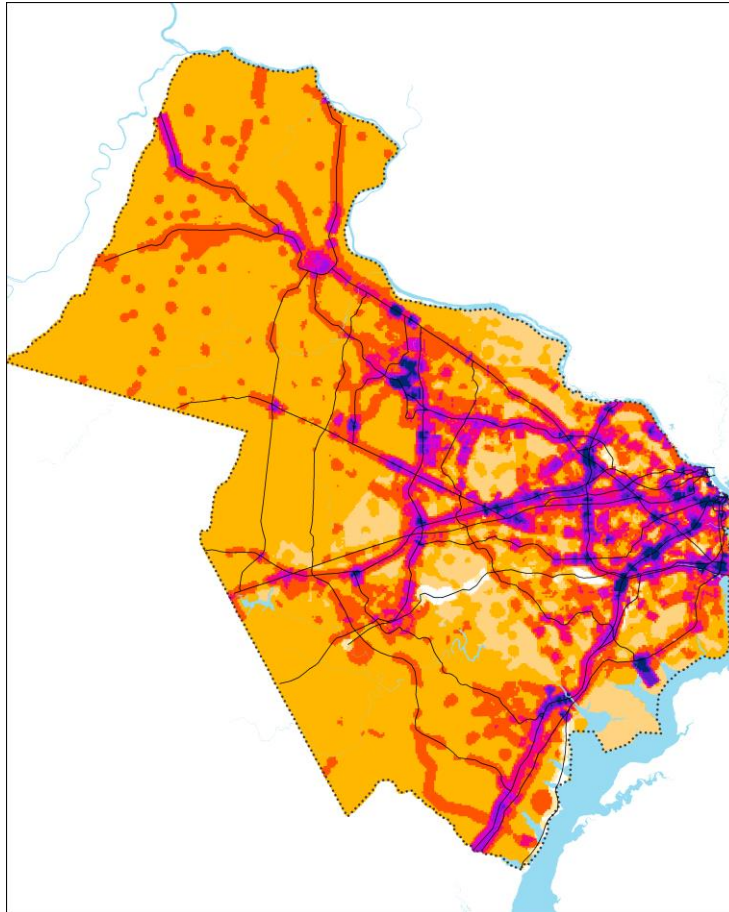
Q156 People in different regions of the country mention many factors that contribute to their quality of life. Thinking about the quality of life specifically in the Northern Virginia region, please identify which one of the following factors has the most significant impact on the overall quality of life for you personally.



NVTA's
TransAction

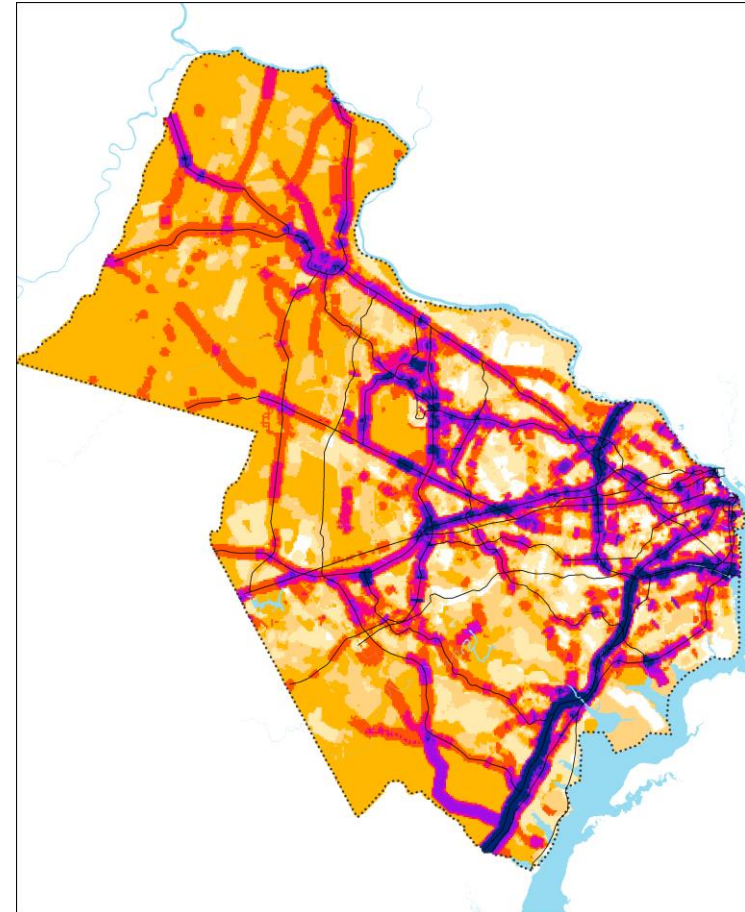


Growth in Population (24%) and Employment (37%) will lead to worsening travel conditions



2016

2040
(No Build)

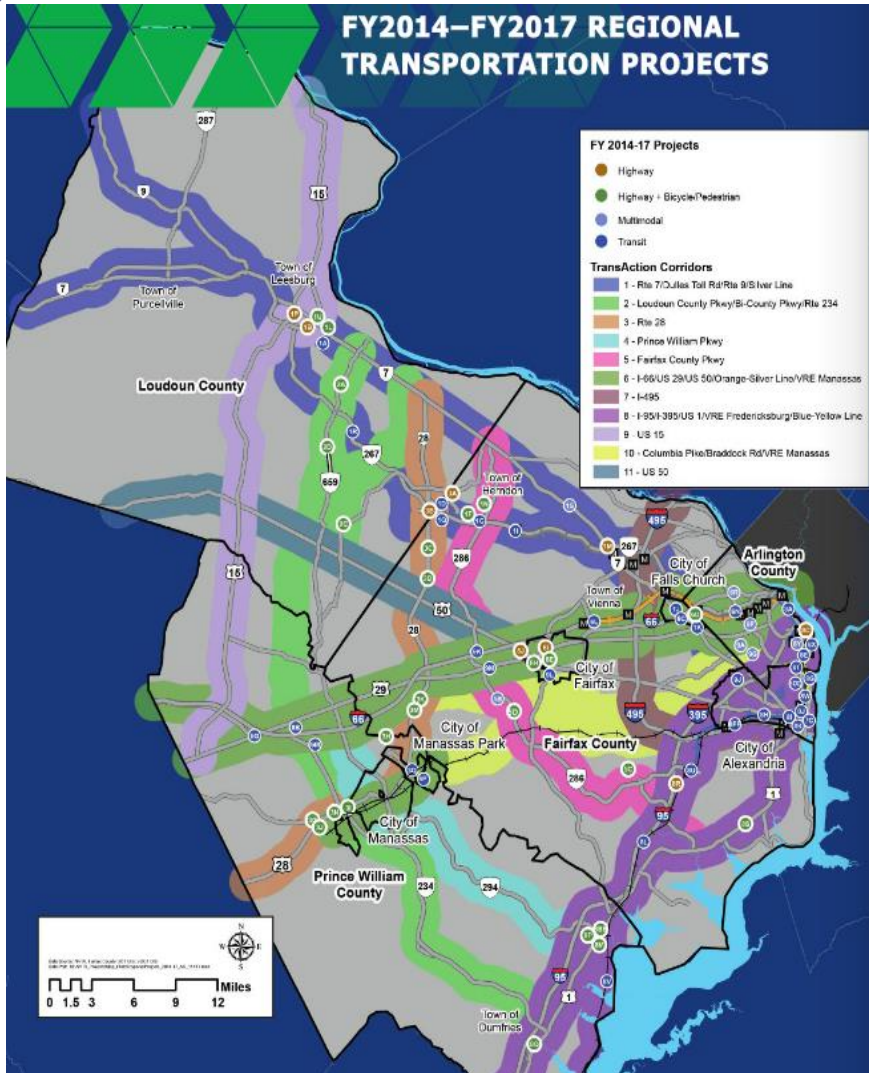


Weighted Performance Measures





NVTA Project Funding (Regional Revenue)



- Since July 2013 when its revenue stream started, the Authority adopted **78 regional projects totaling \$690 million.**
- In June 2018, the Authority adopted its FY2018-2023 Six Year Program including an additional **44 regional projects totaling \$1.285 million.**
- Starting in June 2020, the Authority expects to fund additional projects **totaling \$400+ million every two years** (excluding debt issuance).



NVTA is Funding Seven ITS Deployment Projects Totaling \$17.2M

Project	NVTA Funding
<u>Arlington County</u>	
Lee Highway Corridor ITS Enhancements	\$3,000,000
Glebe Road Corridor ITS Enhancements	\$2,000,000
ITS Improvements	<u>\$10,000,000</u>
	\$15,000,000
<u>City of Alexandria</u>	
Duke Street Transit Signal Priority	\$190,000
Transit Signal Priority/Traffic Signal Upgrades	\$660,000
ITS Projects	\$1,195,491
Bus Network ITS	<u>\$150,000</u>
	\$2,195,491



Annual Northern Virginia Transportation Roundtable

- Jointly organized by ITS Virginia and NVTA (2016-ongoing)
- Focus on disruptive technologies and emerging trends
- Gather thought-leaders in transportation and technology to share insights and ideas





Driven by InNoVation



- Newsletter launched in December 2017
- Biweekly email to subscribers
- Primarily targeted at Authority members, jurisdiction staff, agency partners and those interested in the future of transportation
- Focused on innovative transportation technologies and emerging trends
- Early identification of need for potential policy actions





Regional Multimodal Mobility Program (RM3P)

- **Enhance Commuter Parking Data.**
- **Develop a Mobility as a Service (MaaS) Dynamic Service Gap Dashboard.**
- **Implement an AI-Based Decision Support System with Prediction.**
- **Deploy a Data-Driven Tool to Incentivize Customer Mode and Route Choice.**



Transportation Technology Committee

- Purpose: To advise the NVTA Executive Director on multimodal transportation technologies and related transportation trends that support (or endanger) the vision of the Authority as stated in its current Five-Year Strategic Plan.
- Reflecting the uncertain future trajectory of transportation technologies and related trends, the scope of the topics that the TTC may consider is intentionally broad, including:
 - Challenges and opportunities related to emerging trends in technology and mobility services, on the local, national and international levels;
 - Changes in public perceptions and travel behavior;
 - NoVA deployment opportunities and barriers;
 - NoVA public policy requirements; and
 - NoVA public education needs.





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Northern Virginia Transportation Authority