



Vienna-Fairfax-Mason Bikeshare Feasibility Study

Town of Vienna

Town Council Update

November 19, 2018

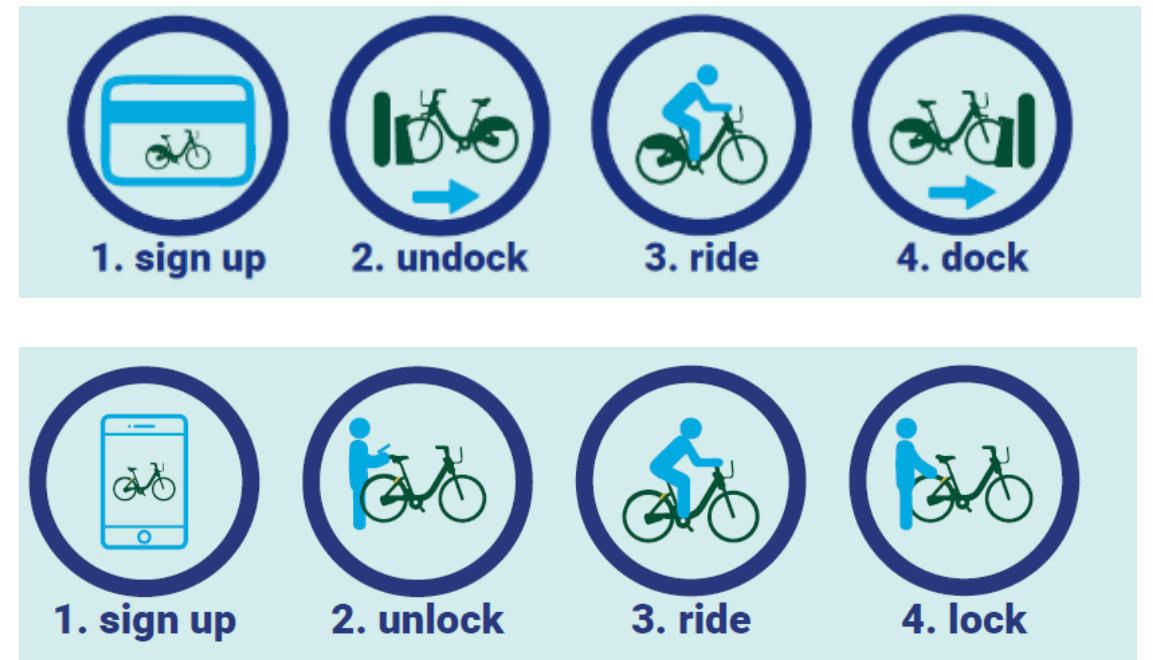
Agenda

- Study Background and Goals
- Activity To-Date
- Existing Conditions, Opportunities, and Challenges
- Technology Options
- Preliminary Recommendations
- Schedule and Next Steps



What is Bikeshare?

- Transportation system ideal for short one-way or round trips
 - Users rent a bicycle at a station and return to any other station.
 - Other systems allow for stationless (“dockless”), and/or e-assist bikeshare, and/or e-scooter share.



Why Bikeshare?

- Part of a flexible multimodal system (“mobility on demand”)
- Complements and extends the reach of transit
- Provides first and last mile connections
- Provides options for short trips
- Increases use of active transportation, supports a “safety in numbers” effect
- Reduces reliance on vehicles, reduces associated impacts of vehicle travel
- Cost-effective travel option
- Increases economic activity in commercial areas



Study Partnership



- Collaboration between multiple jurisdictions to complete feasibility study
- Sets the stage for continued coordination and development of a regional system

VIENNA-FAIRFAX CITY-MASON-BURKE BIKESHARE



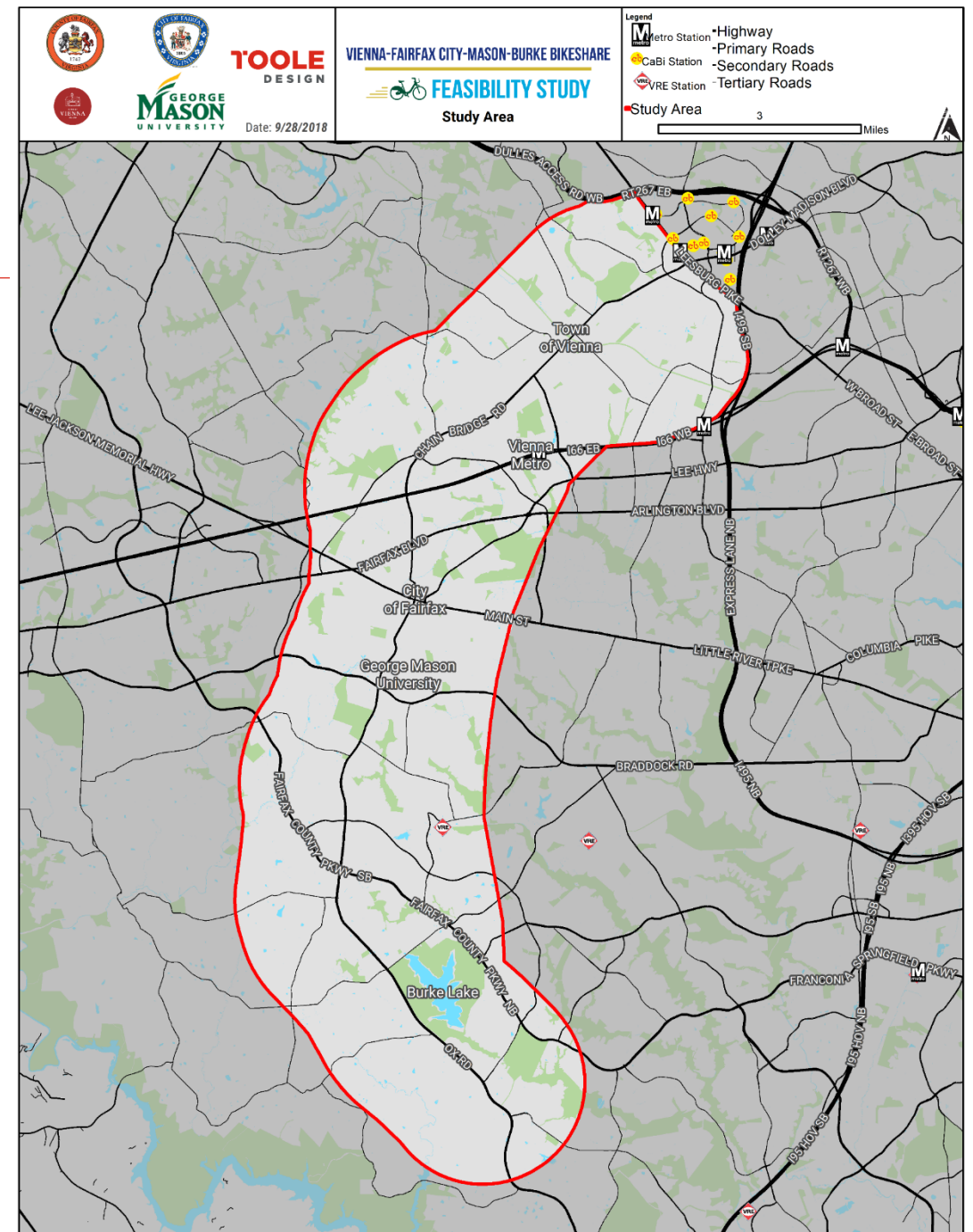
FEASIBILITY STUDY

Study Activities To-Date

- Refine vision and goals for potential bikeshare system
- Conduct public outreach
- Evaluate existing conditions, opportunities, and challenges
- Review technology options, benefits, and costs

System Goals

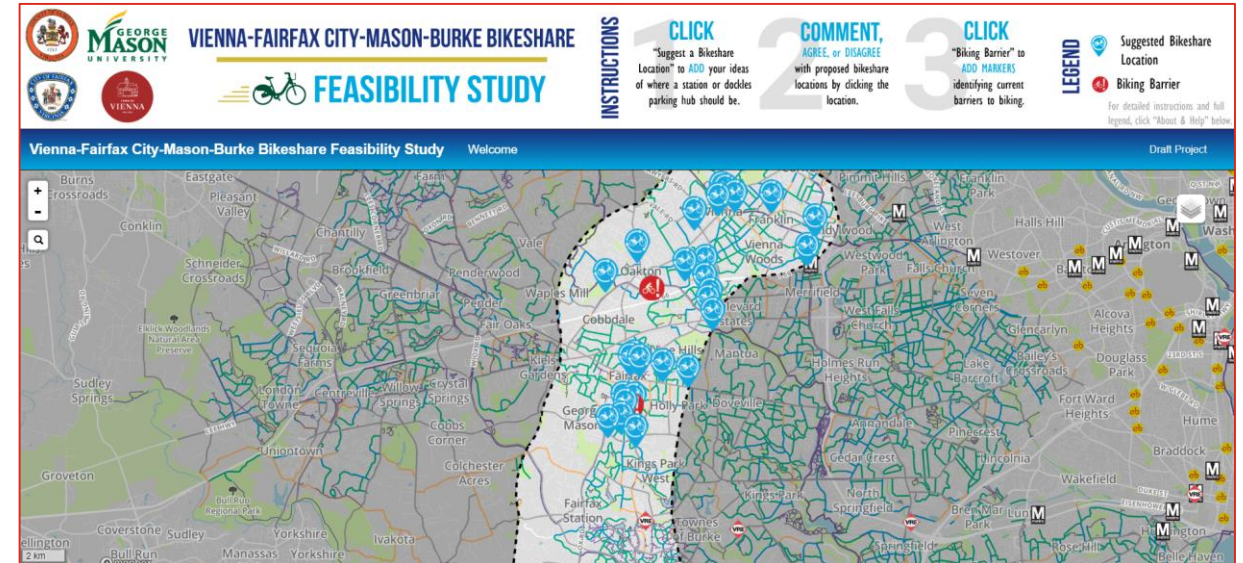
- Connect to trails, transit, and regional transportation options
- Increase healthy living and active transportation options
- Increase attractiveness of area for employers, business, and tourism
- Ensure affordable transportation options with access to all
- Enhance sustainable transportation options and relieve congestion
- Implement a sustainably funded and operated system



Online Public Engagement

- Website & social media
- Survey (online and at events)
- Interactive maps (online and at events)

Fairfax City-Mason-Vienna Region Bikeshare Feasibility Study



Do you support bikeshare in the Fairfax City-Mason-Vienna study area?

| | 1 | 2 | 3 | 4 | 5 | |
|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------|
| Strongly Support | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | Strongly Oppose |

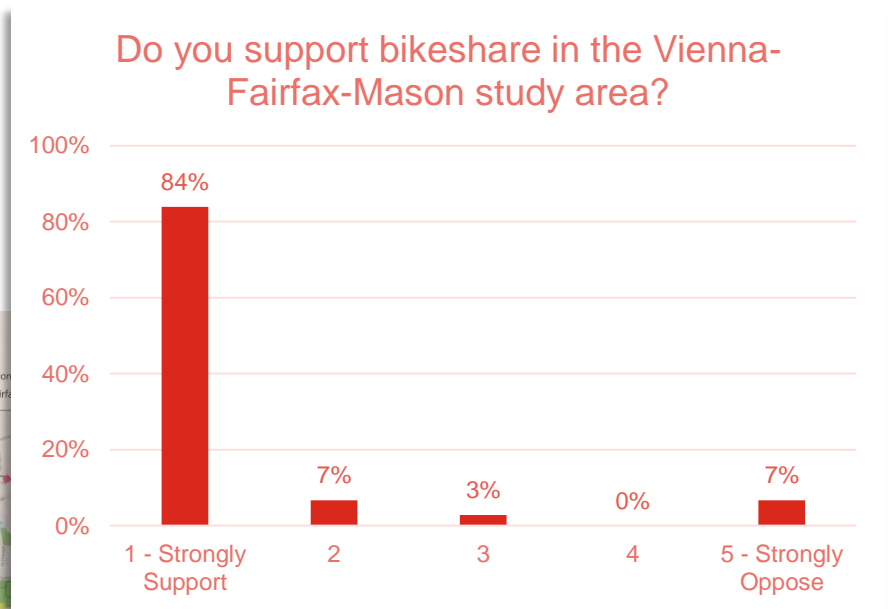
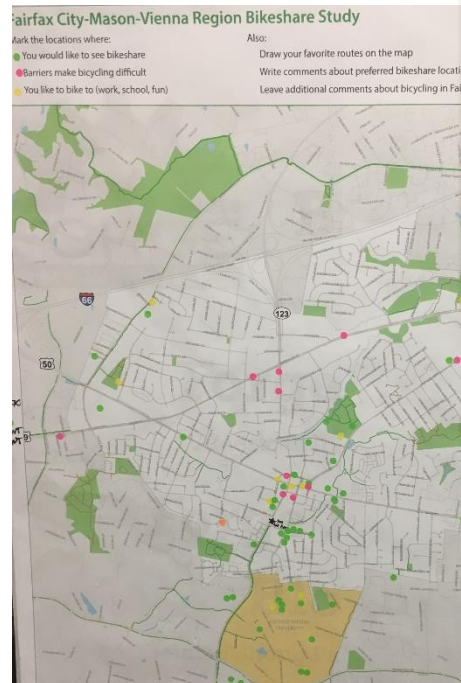
Public Outreach Events

- Bike to Mason Day
- Bike to Work Day
- Rock the Block
- Mason “Get Connected” Fair
- Farmers’ Markets (Fairfax and Vienna)
- Rail station pop-ups (Vienna Metro and Burke VRE)
- Fairfax Fall Festival



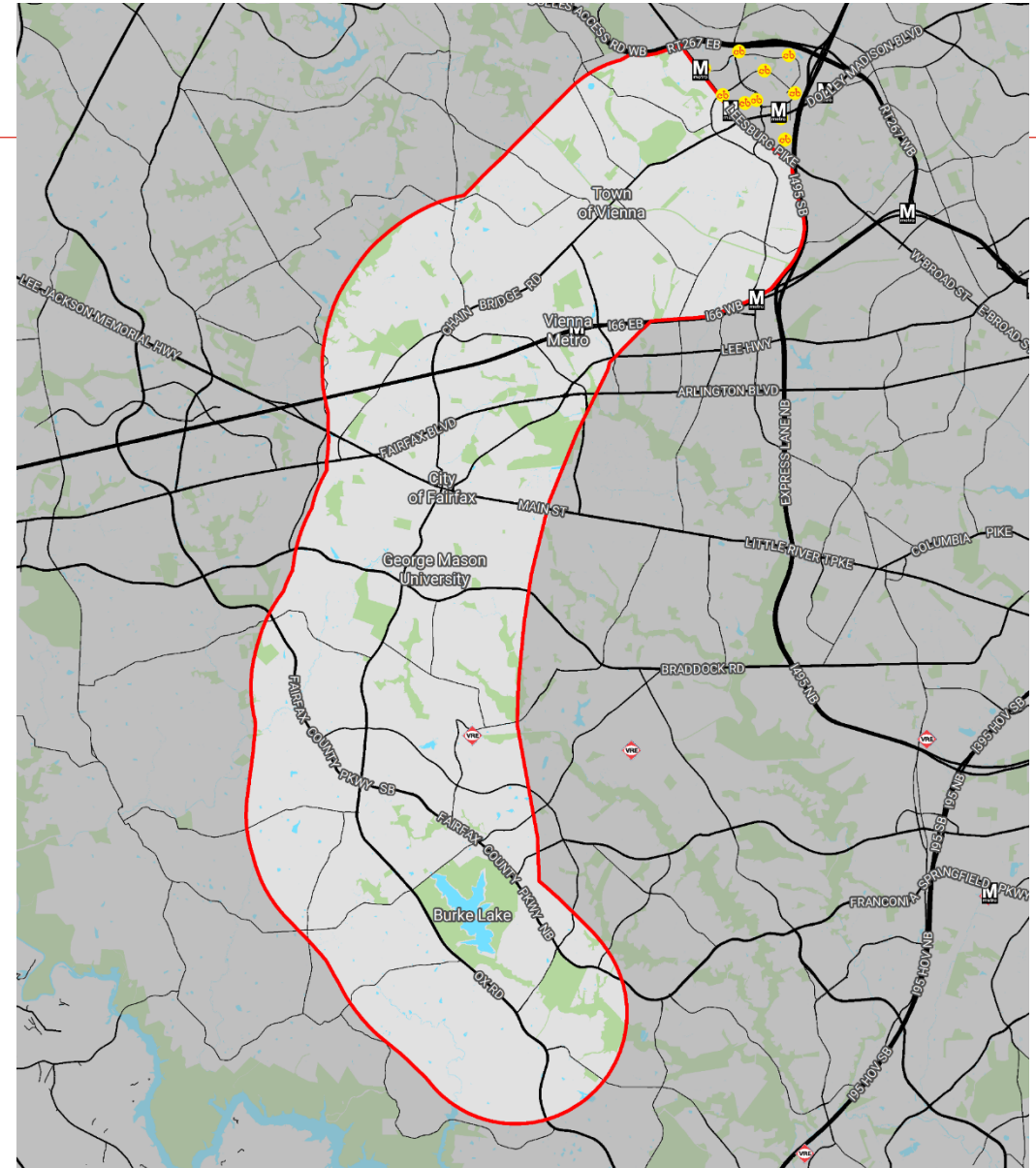
Public Input

- 180 responses to online survey
- 29 bikeshare station location suggestions online
- Numerous bikeshare system preferences noted and bikeshare locations suggested at pop-up events



Existing Conditions

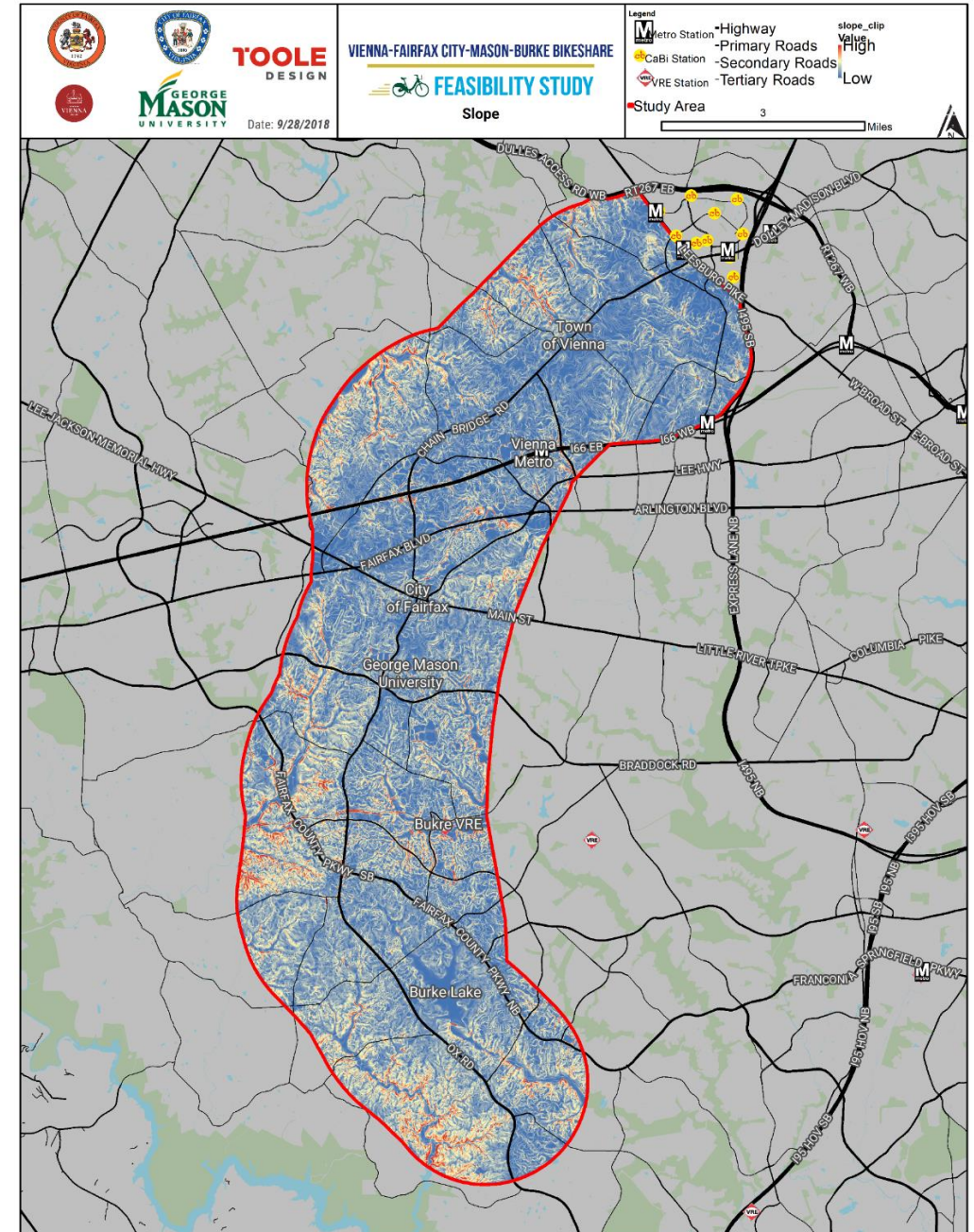
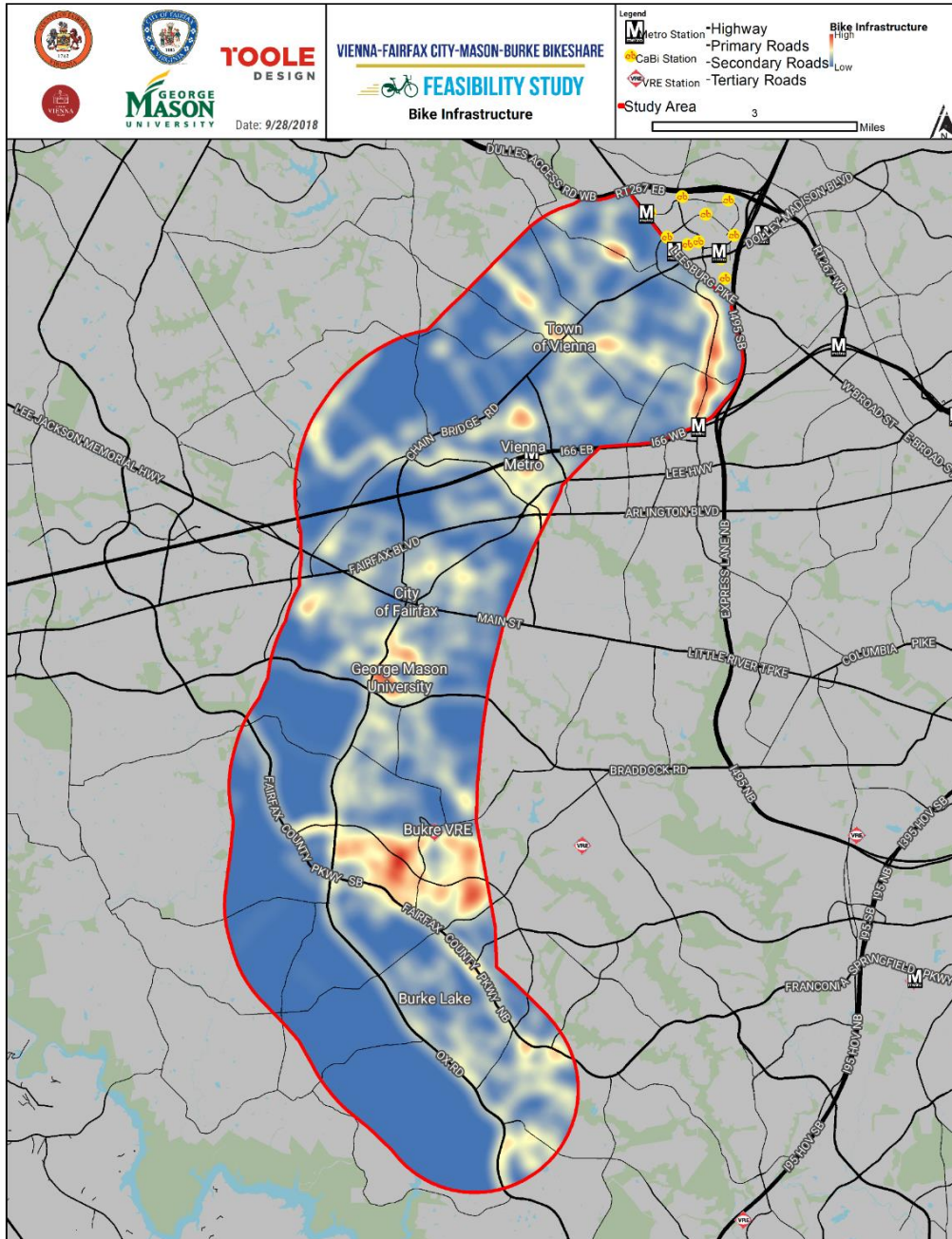
- Opportunities
 - Connections to Metrorail stations and Fairfax bikeshare network
 - Flat topography along Route 123 corridor
 - Activity centers at GMU, Vienna downtown, City of Fairfax downtown, Tysons Corner
- Challenges
 - Transit service gaps
 - Topography in parts of the study area
 - Limited bike infrastructure



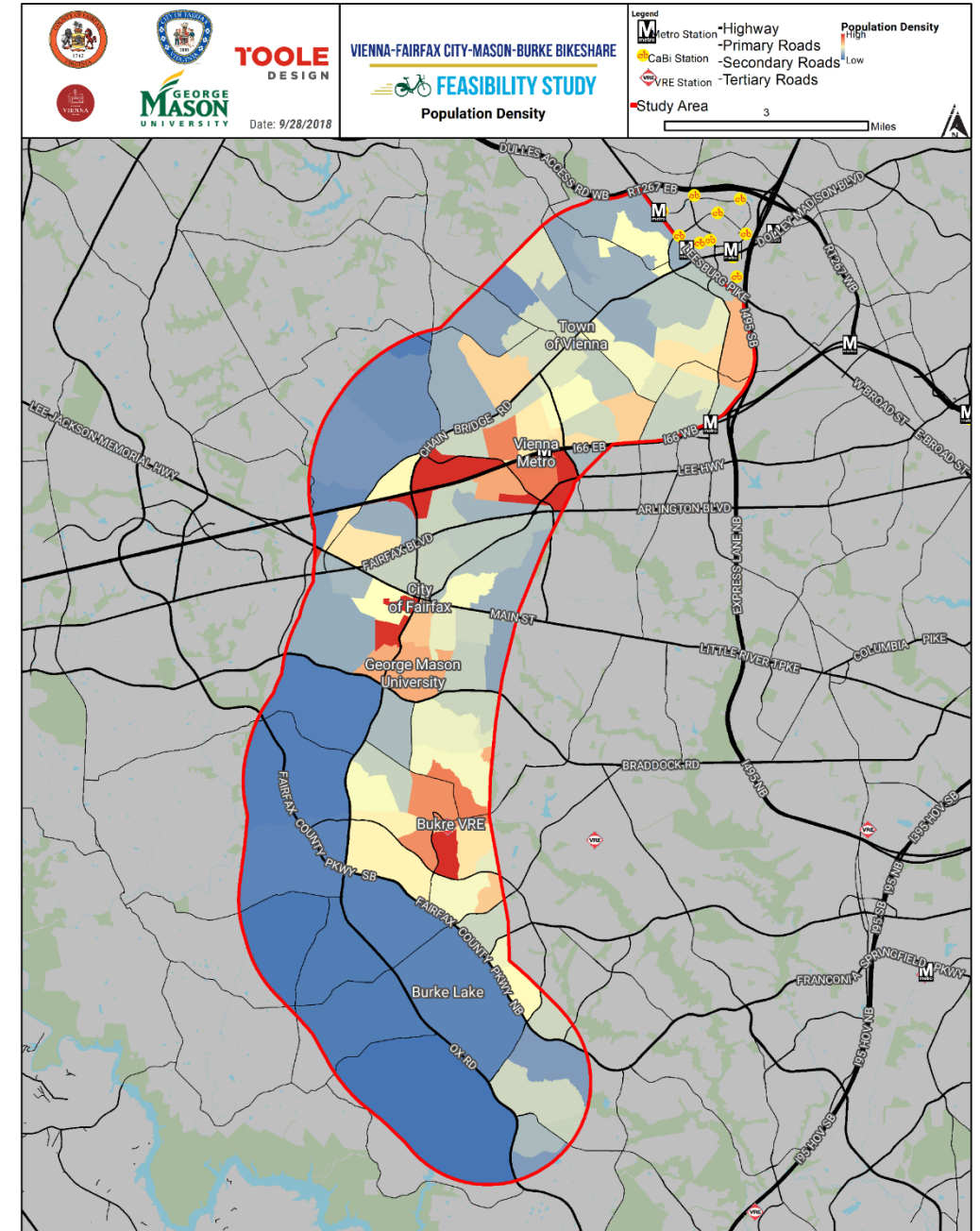
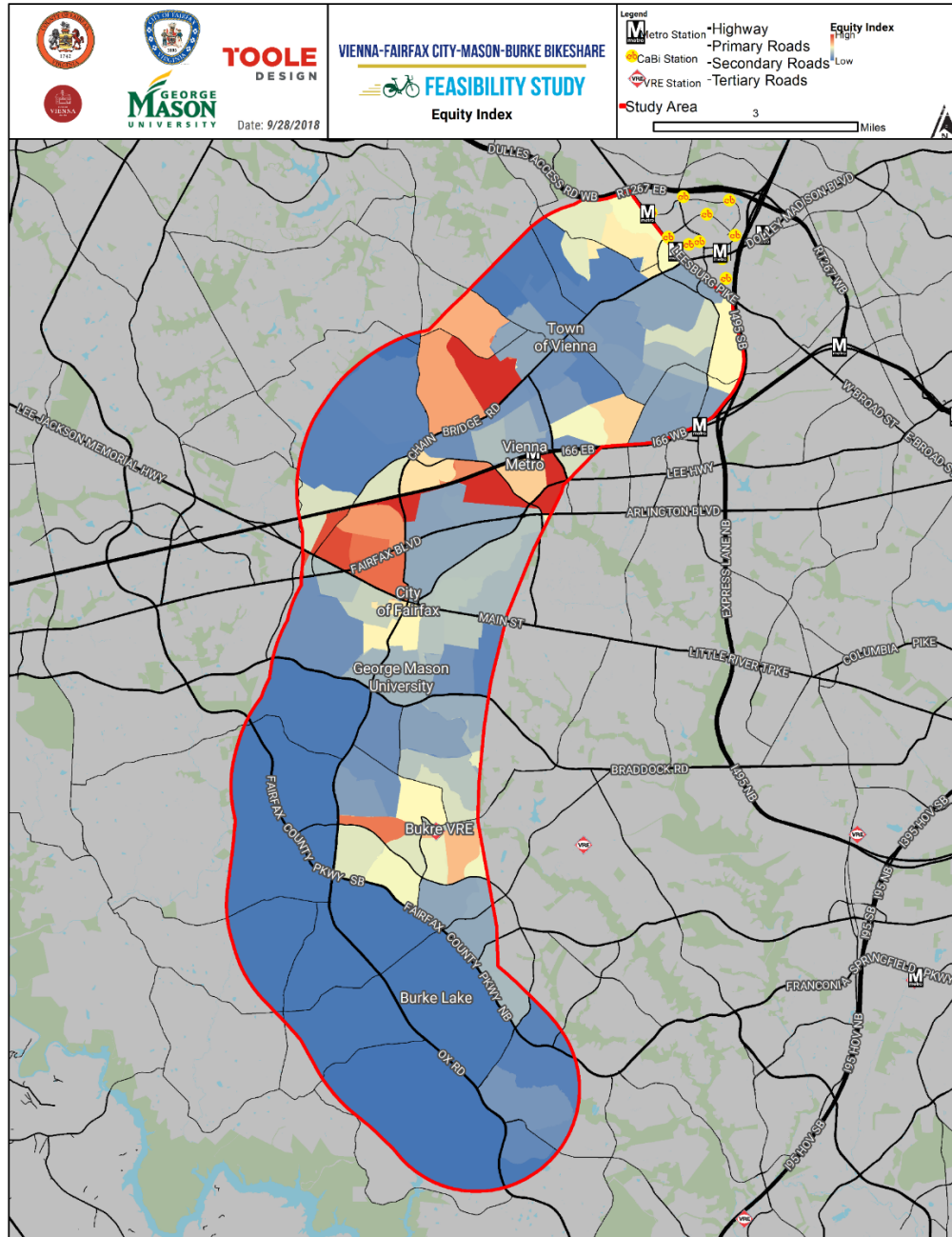
Demand Analysis

- Point scoring system used weighted values.
- Demand criteria included employment and population density, attractions, transit, and equity measures.

Bike Infrastructure and Topography

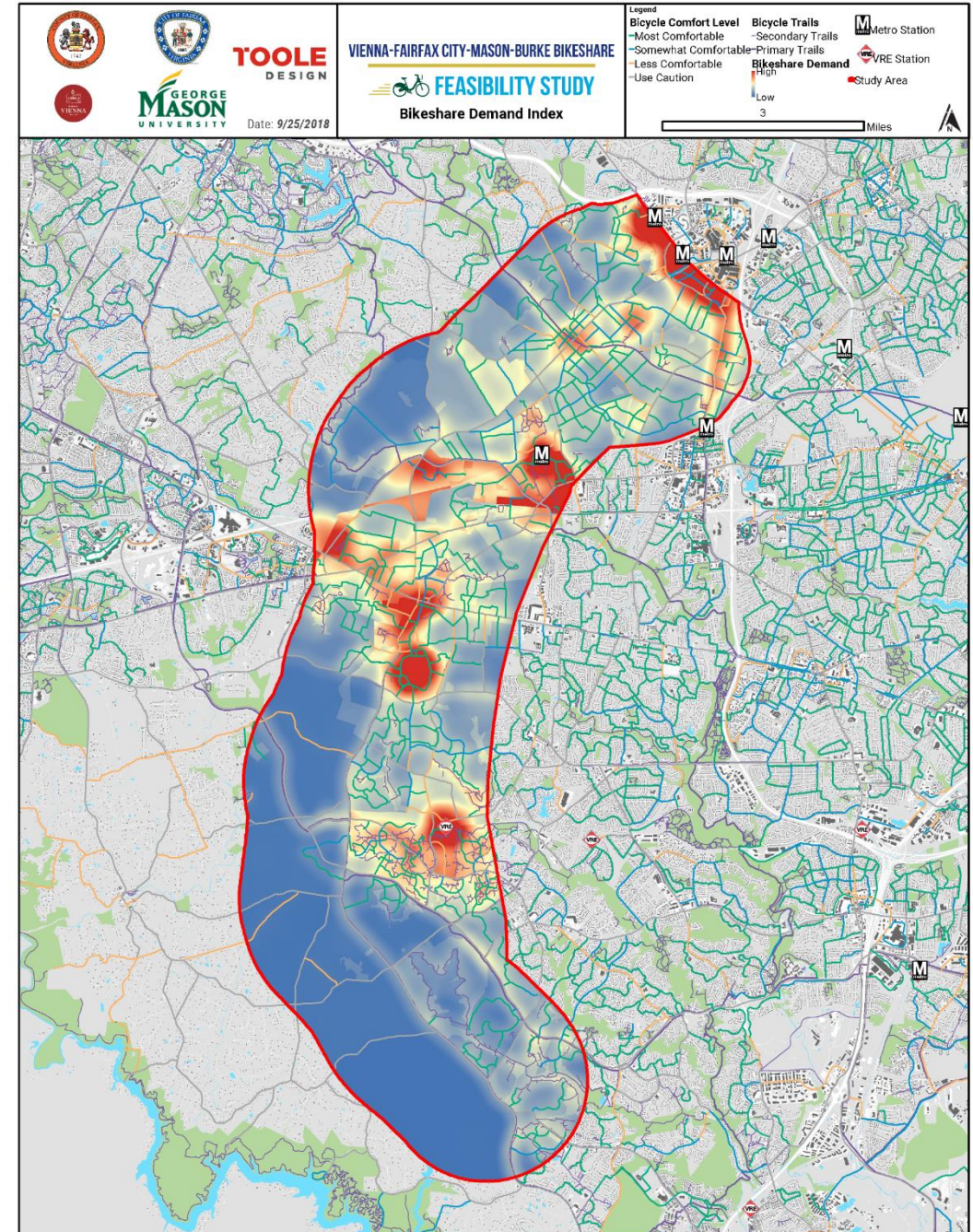


Equity and Population



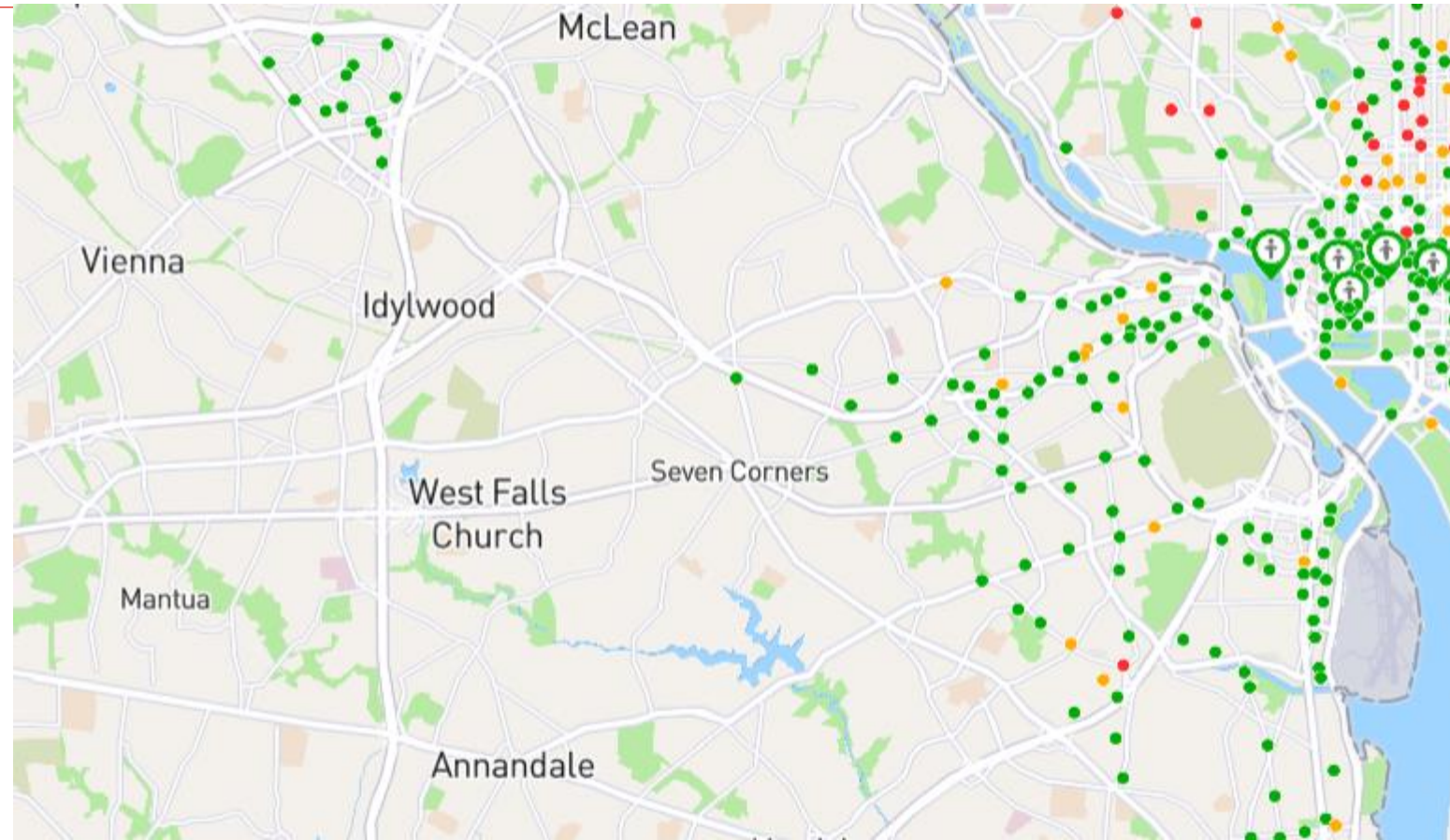
Demand Maps

- Demand mapping results indicate high potential for bikeshare usage at:
 - Tysons Corner
 - Vienna Metro
 - City of Fairfax
 - George Mason University
 - Burke VRE



Regional Integration

- Extend the reach of existing systems
- Enhance connections to regional transit
- Connect with existing area bikeshare members
- Interoperability of multiple bikeshare technologies
- Regional coordination issues, including cost and revenue sharing



Bikeshare Technologies

- Smart Dock
- Dockless Bikeshare
- E-assist Scooters



Smart Dock

- Pros:
 - Capital Bikeshare is an established system in the region
 - Stations organized, visible, and iconic
 - Proven and tested technology
 - Reliable for users to find a bike
- Cons:
 - Siting requires long contiguous space
 - More expensive technology
 - Relies on more components
 - More time to implement



Dockless

- Pros
 - Flexible for users to park a bike
 - Easy and fast to implement
 - Scalable for small or large systems
 - Inexpensive technology and no cost to cities
 - Easy to access and use
- Cons
 - Less organized
 - Less agency control
 - Less proven and tested technology
 - Less reliable for users to find a bike



E-Scooters

- Pros
 - Flexible for users to park a scooter
 - Easy and fast to implement
 - Scalable for small or large systems
 - Inexpensive technology and no cost to cities
 - Easy to access and use
 - May be used by a wider set of people than bikes
- Cons
 - Less organized and less agency control
 - Less proven and tested technology
 - Less reliable for users to find a scooter
 - May introduce issues such as riding on the sidewalk



Preliminary Recommendations

- Prioritize connections to transit, trails, and destinations (Vienna and Fairfax city centers, Mason)
- Leverage existing and planned bikeshare connections
- Pursue multiple bikeshare technologies using a phased approach



Key Takeaways

- Bikeshare is feasible and advances Town goals but requires supporting actions:
 - Concurrent improvements to bicycle infrastructure
 - Review of policies and regulations related to bicycles and emerging shared mobility options
 - Ongoing staff support and operational subsidies (offset by revenues from user fees and sponsorships)
- Benefits and tradeoffs exist with each technology – likely a balanced combination of docked and dockless options will be most effective to serve a variety of users

Schedule & Next Steps

- Refine recommendations and develop implementation plan
 - Phasing
 - Business plan
- Final implementation plan (December)
- Application for I-66 Commuter Choice funding to implement
 - December resolution of support
- Finalize bikeshare station locations with additional input (Spring 2019)



Questions?

