

Technical Sub Committee Meeting

Meeting Agenda

- 9:00 10:15 Needs Analysis Framework
 - 3 chunks of 5-to-10-minute presentation +15-20-minute Q&A
- 10:15 10:30 Community Engagement Plan & Schedule
- 10:30 10:40 Public Engagement Round 1
 - This will be covered with greater focus during the May 24th Steering Committee meeting
- 10:40 10:50 May 24th Steering Committee Meeting Agenda
- 10:50 11:00 Overall Q&A



Spring 2021

Spring 2022

Winter 2023



Policy Guide for Richmond Connects



POLICY GUIDE

EQUITABLE
MOBILITY &
ACCESSIBILITY
ACTION PLAN

SCENARIO PLAN







We are here

Basic Concepts

Vision:

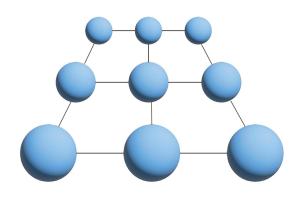
"The vision for this plan, coming from our citizens and our leadership, will be to apply an equity lens as the foremost factor for understanding our multimodal transportation needs"

How are we defining equity in transportation?

- Equity is the fairness with which benefits and costs are distributed
- Transportation Equity is divided into two aspects:
 - Horizontal EquityVertical Equitydescribed on next slide



Equity in Transportation

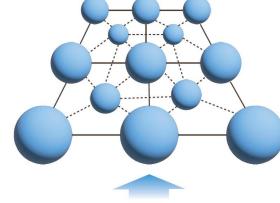


Horizontal Equity (Equality):

Equal access for those with similar needs and abilities

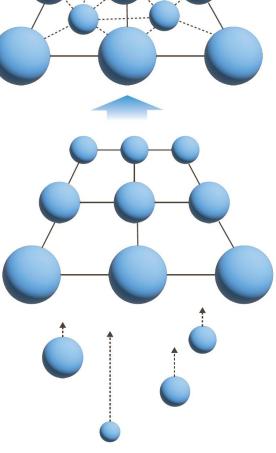
The Goal:

Everyone has equal access to all destinations by all modes



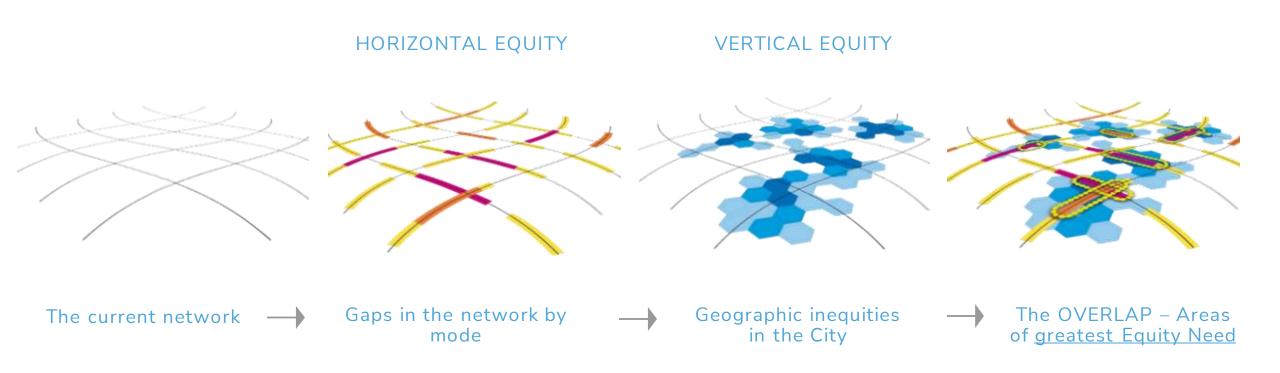
Vertical Equity:

Recognizes that some people start out with different needs and abilities



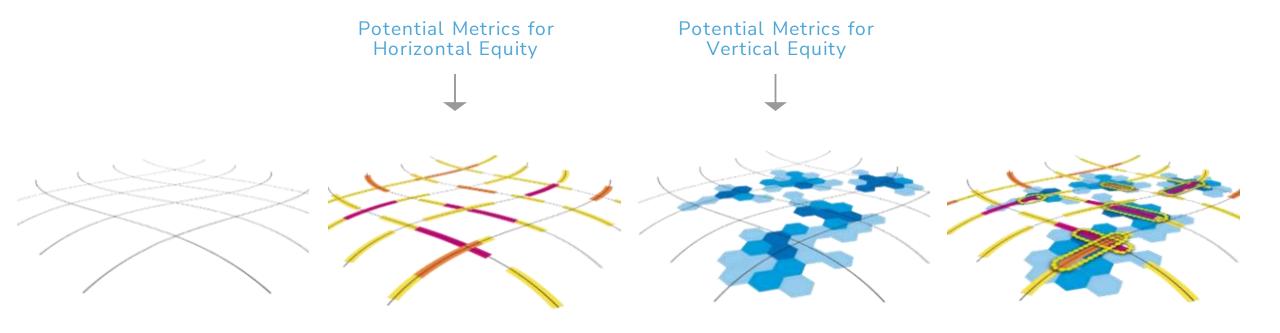


How We Measure Equity in Transportation





What we are Presenting Today



- Today we will ask your feedback on these <u>Potential Metrics</u>
- You will have time to study them and respond in writing
- Next time, we will share <u>Proposed Metrics</u> and <u>preliminary</u> results of testing





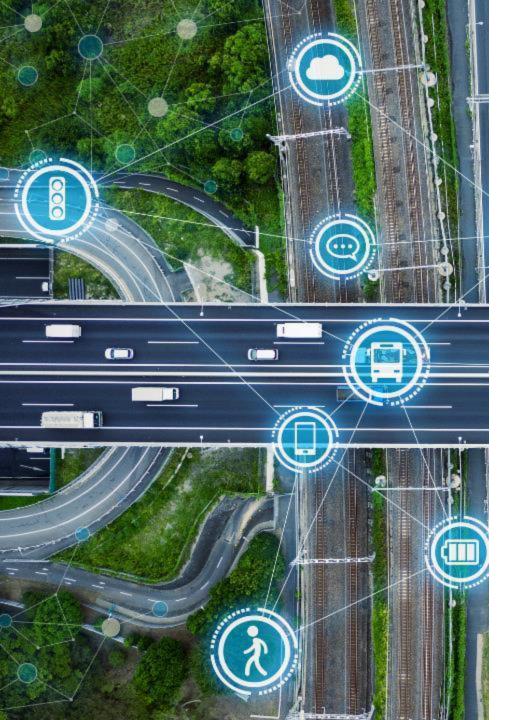


Overview

- Aims of the needs analysis
- Generalized analysis framework
- Examples
- Menu of metrics and supporting data

Aims of the needs analysis





Objectives of the needs analysis

- Identify needed investments across a diverse range of categories
- Elevate needs of communities and users that are or historically have been marginalized in the planning process
- Elevate needs that directly support goals and objectives of key policy documents

Connecting transportation issues and the geography of equity

Horizontal Equity Investment need categories 4-Bike/Ped Transit Freight Land Use Safety Connectivity Maintenance **Economic Development** Technology Sustainability

- Define metrics to highlight key issues in each investment need category
- Identify opportunities to combine metrics to assess system performance comprehensively within each category
 - Analyze the geography of inequity
 - Past practices and investments
 - Current socioeconomic/demographic characteristics
 - Areas emphasized in growth management policy
 - Identify opportunities to combine factors to assess equity needs comprehensively

Vertical Equity --> Geographic and demographic groups Redlined neighborhoods Communities bisected by highways Communities disrupted by Urban Renewal Isolated inner ring suburbs Communities of Concern BIPOC population • Low-income households • Population over 65 Disabled residents • Households with children At-risk youth Growth nodes

Integrate transportation and equity analyses to assess needs based on policy

Policy

Values that shape planning 8 investment

Path to Equity: Equity Factors

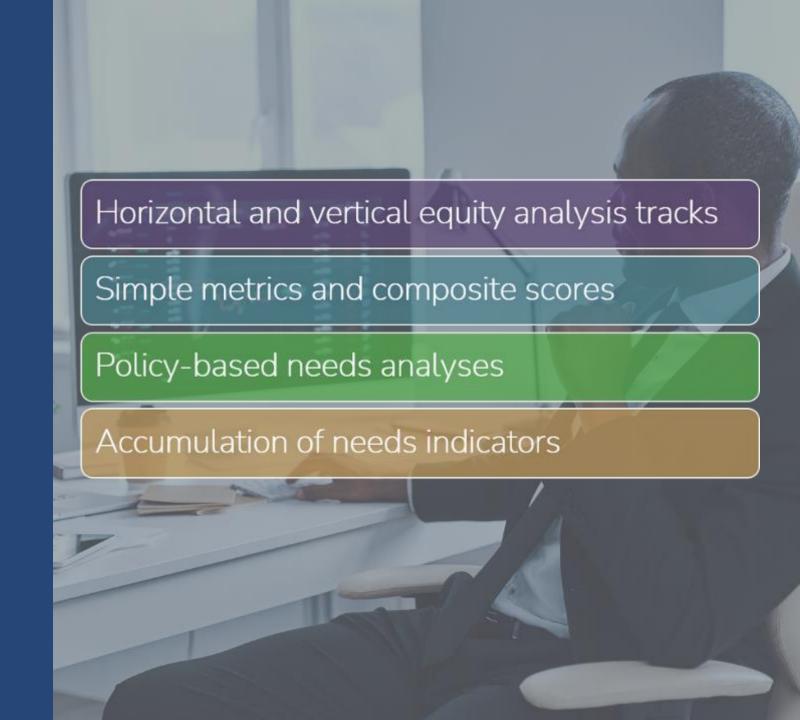
Richmond 300 Goals and Objectives

RVAgreen 2050

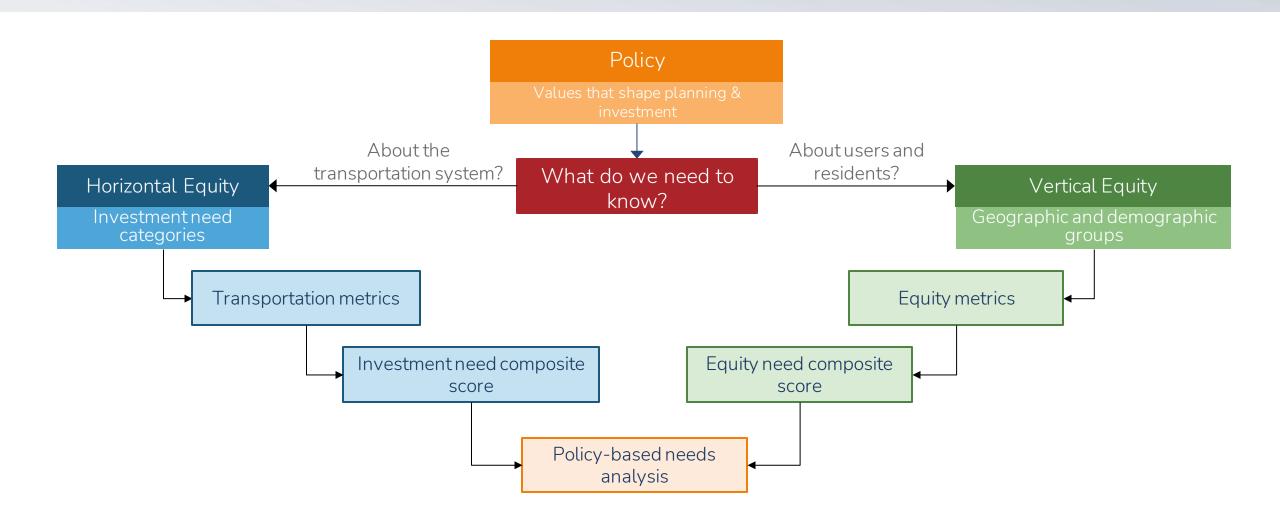
Align analytics with policy emphases

- What transportation needs/issues are emphasized?
- What populations and/or sources of inequity are emphasized?
- How can we combine these considerations to define needs that reflect the City's policies and values?

Generalized analysis framework

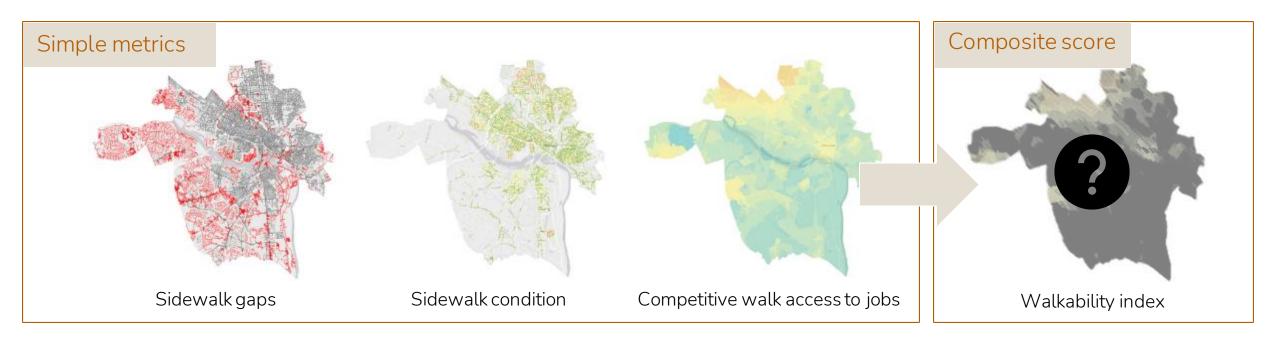


Horizontal and vertical equity analysis tracks



From simple metrics to composite scores

- Simple metrics are intuitive, non-reducible analytical findings that describe performance within an investment need category
- Composite scores combine multiple simple metrics to summarize performance within an investment need category



Policybased needs analysis

Needs scoring – showing areas that will register high equity needs scores



The overlap – showing where transportation inequities overlap with demographic inequities



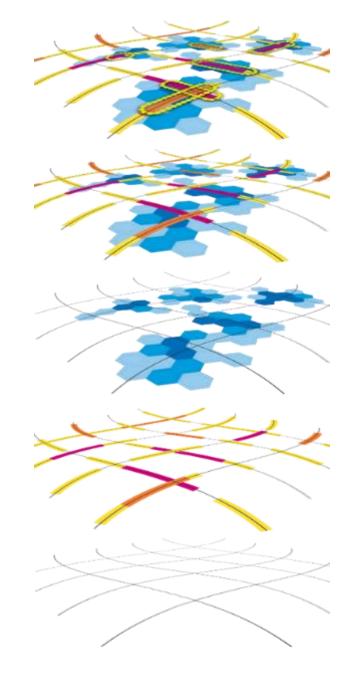
Demographic inequities
by location - the
geography of prior
inequitable practices
(Vertical Equity)



Transportation inequities by mode - gaps or problems in the transportation network (Horizontal Equity)

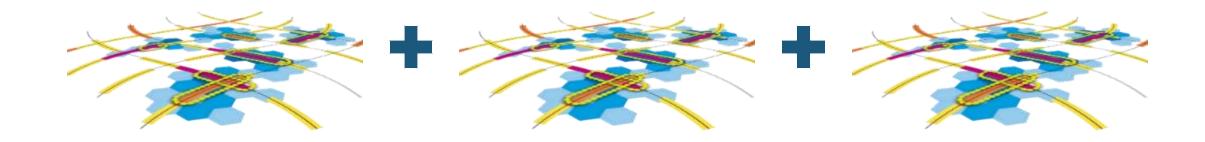


The current transportation network



Accumulation of needs indicators

- Each policy-based needs analysis will highlight areas of needed investment
 - Within particular investment need categories
 - Relative to the communities and users impacted
 - Describing the underlying cause(s) and/or nature of the need
 - Having a distinct geography of need
- Multiple analysis results may indicate multiple needs in the same area



Specification of policy-based needs

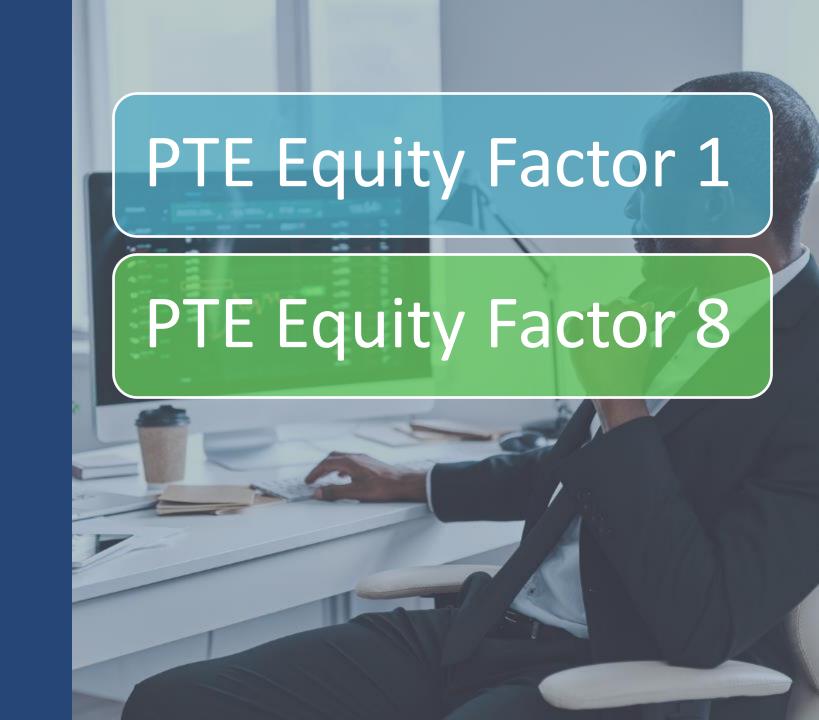
- Highlight key policy directives to guide needs analysis
 - Path to Equity (PTE) Equity Factors
 - Richmond 300 Goals
 - RVAgreen 2050
- Define simple metrics that are needed to understand the nature and geography of the need for both vertical and horizontal equity tracks
- Define composite scores that summarize the transportation and equity dimensions of the policy statement
- Define the overlay of horizontal and vertical equity composite scores to clearly articulate investment needs relative to that policy

Review of policy-based needs

- Is each policy directive comprehensively analyzed? Are qualitative considerations needed for a complete needs assessment?
- Are any investment need categories left out or underrepresented after we have analyzed the major policy directives?
- Where do needs overlap/affect the same facility across multiple policy-based analyses?



Examples



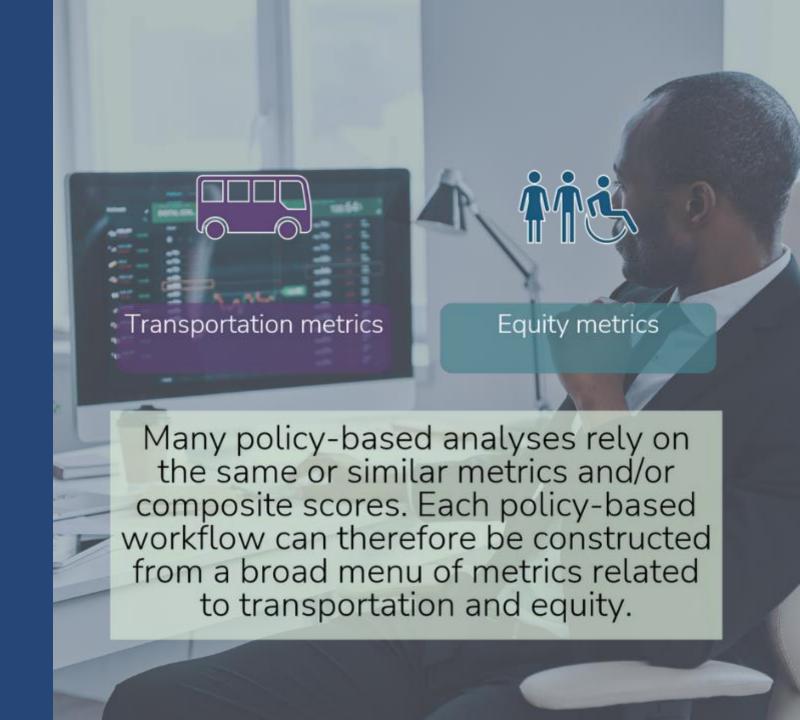
Policy: Path to Equity – Equity Factor #1 Improve access to housing, jobs, services, recreation, and education, addressing remaining inequities created by redlining.

	What do we need to know	
	About the transportation system: Where is access poor?	About users and residents: Where do inequities created by redlining persist?
Simple indicators	 Access to housing, jobs, education by mode Sidewalk gaps, condition, crosswalk gaps Bike facilities, bike protections, bikeshare proximity Transit reliability, transit service frequency, stop proximity 	 Redlined neighborhoods Presence of communities of concern
Composite scores	Composite accessibilityWalkabilityBikeabilityTransit quality index	Areas with remaining inequities created by redlining
Policy-based needs analysis	 Overlay of low composite accessibility scores and areas Overlay of facilities contributing to poor walkability/bike redlining Overlay of areas with poor transit service and areas with 	ability and areas with remaining inequities created by

Policy: Path to Equity – Equity Factor #8 Prioritize the needs of socially vulnerable users and address climate and environmental equity as identified in RVAgreen 2050

	What do we need to know	
	About the transportation system: Where are travelers likely to be impacted by climate risks?	About users and residents: Where are socially vulnerable users and residents?
Simple indicators	 Flood plain Urban heat island Negative air quality generators Access to jobs by mode with facility resilience factors applied 	Presence of communities of concern
Composite scores	 Air quality index Resilient accessibility index 	Communities of concern hot spots
Policy-based needs analysis	 Overlay of air quality index with communities of concern hot spots Overlay of resilient accessibility index with communities of concern hot spots 	

Menu of metrics and supporting data



Potential Transportation metrics

Investment Need Category: Bike/Ped

Simple Metrics

Walk/bike access to jobs

Walk/bike access to essential services (education, health care, healthy food, shopping, etc.)

Sidewalk gaps

Sidewalk condition score

Crosswalk gaps

Bike lane gaps

Trail/path gaps

Bike/ped facility-based detriments score

Bikeshare station locations

Bike lane protections

Pavement condition

Bike/ped trip-making

Composite scores

Walk/bike composite accessibility

Walk/bike connectivity hotspots

Walk/bike gap hot spots

Walk/bike trip-making hot spots/cold spots

Walk/bike destination relevance index

Walk/bike opportunities index

Investment Need Category: Transit

Simple Metrics

Transit access to jobs

Transit access to essential services (education, health care, healthy food, shopping, etc.)

Transit reliability/on-time performance

Transit service frequency

Transit stop accessibility

Transit amenities locations

Transit trip-making

Composite scores

Transit composite accessibility

Transit quality of service index

Transit trip-making hot spots/cold spots

Transit propensity/need index

Transit destination relevance index

Transit opportunities index

Transit stop accessibility index

Investment Need Category: Freight

Simple Metrics

Truck routes

Freight generators

Truck traffic

Goods movement bottlenecks

Last-mile freight connectors

Composite scores

Trucking needs score

Freight and land use compatibility

Freight workforce access index

Investment Need Category: Land use

Simple Metrics

Current Land Use/Zoning

Future Land Use/Zoning

Density Supportive Needs

Composite scores

Land-Use Supportive Index

Complete Street Index

Curb Management
Opportunities Index

Investment Need Category: Safety

Simple Metrics

Crash Points

Crime Points

Perceived Safety and Comfort

Speed Safety

Composite scores

Crash Hot Spots

Crime Hot Spots

Safety Hot Spot

Investment Need Category: Connectivity

Simple Metrics	
Reginal Connectivity	
Node Connectivity	
Mobility Corridors	
Circuitous Routes	
Redundancy	
Trip Making	

Composite scores

Multimodal Connectivity
Gap Score

Composite Accessibility
Score

Multimodal Travel Time
Comparison

Investment Need Category: Maintenance Needs

Simple Metrics

Roadway Condition Score

Structural Conditions Score

Sidewalk Condition Score

Bike Share Condition Score

Transit Vehicle Age

Transit Shelter Age

Composite scores

State of Good Repair

Transit Maintenance

Investment Need Category: Economic

Simple Metrics

Virginia Opportunity Zones

Composite scores

Impoverished Community
Index

Investment Need Category: Technology

Simple Metrics

Technology Accessibility (GAP TA)

Composite scores

Investment Need Category: Sustainability

Simple Metrics

Air Quality

Electric Vehicle Charging Stations

Sea Level Rise/Flooding Areas

Urban Heat Vulnerability

Urban Heat Island

Natural Gas Leaks

Household Car Ownership

Composite scores

Unsustainable Options Index

Equity metrics

Investment Need Category: Other

Simple Metrics

User Satisfaction

Equitable Investment

Affordability

Outcome Linked Accessibility

Mobility Substitutes

Programmatic and Education Needs

Barriers to Access

Community Priority Needs

Composite scores

Equity

Equity Focus: Communities of Concern

Simple Metrics

BIPOC population

Low-income households

Population over 65

Disabled residents

Households with children

At-risk youth

Zero-car households / average vehicles owned per person

Composite scores

Communities of concern hot spots

Hot spots of low vehicle availability

Equity metrics

Equity Focus: Geography of Equity

Simple Metrics

Redlined neighborhoods

Neighborhoods bisected by highway construction

Neighborhoods disrupted by Urban Renewal projects

Inner ring suburbs

Composite scores

Areas with remaining inequities created by redlining

Neighborhoods with remaining inequities created by highway construction

Neighborhoods with remaining inequities created by Urban Renewal

Underserved/isolated suburban neighborhoods

Please send us your comments:

By May 13:

 Any changes to the slides for presenting to the Steering Committee

By May 27th:

Detailed comments on the Needs Metrics

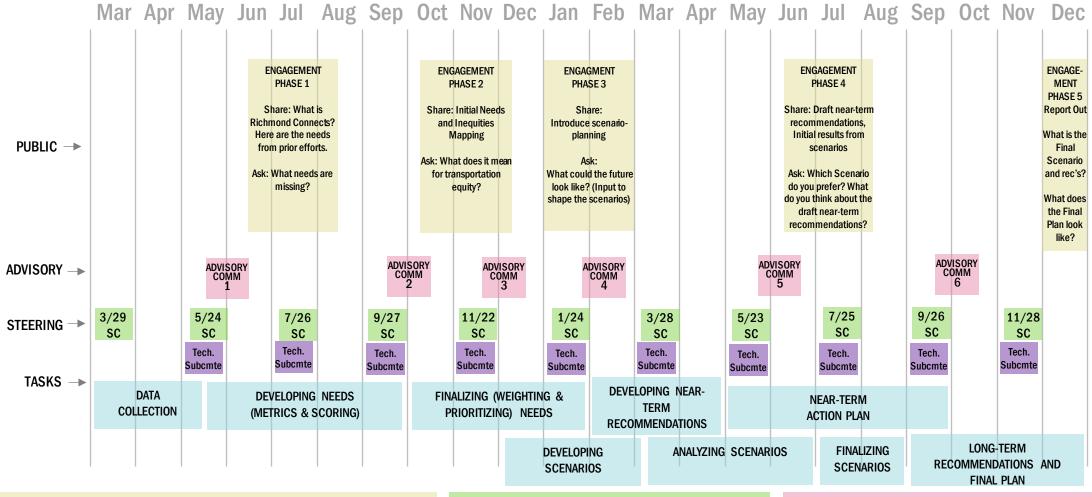
We are happy to schedule calls with you as needed to go over your comments/questions!







2022 2023



Each PUBLIC MILESTONE would include:

- 1. Virtual public meeting or webinar
- 2. New website content
- 3. Online Survey to supplement in person input
- 4. Pop up events or focus group meetings to solicit additional public/stakeholder input

Each STEERING COMMITTEE MEETING would be structured to:

- 1. Shape upcoming Advisory Committee Meetings
- 2. Review public engagement & redirect as needed
- 3. Update progress to date & direct the next steps

Each ADVISORY COMMITTEE MEETING would be structured to:

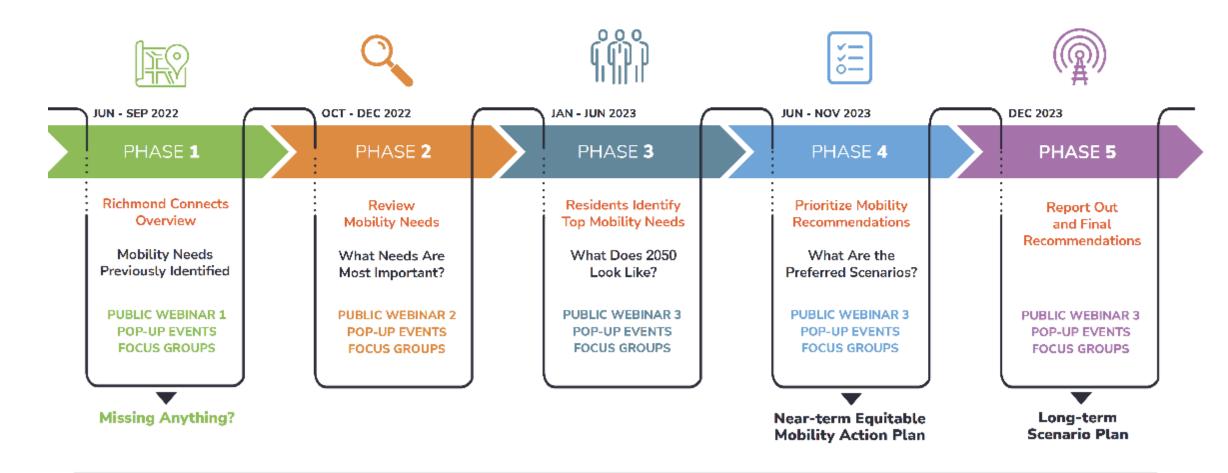
- 1. Guide the next milestone of public engagement
- 2. Direct which people/groups need to be engaged
- 3. Update progress to date & advise on the next steps



ORAF Recinés

RICHM®N® C®NNECTS COMMUNITY ENGAGEMENT TIMELINE

Powered by Path To Equity: Policy Guide





This will be covered with greater focus during the May 24th Steering Committee meeting

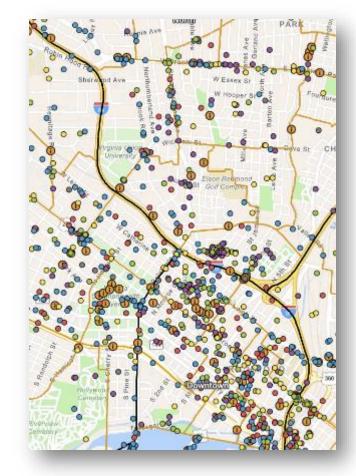


Phase 1 Engagement – What are the

Needs? (June - August 2022)

MESSAGES:

- 1. The City is developing Richmond Connects! (What this project is about)
- 2. We heard You! (share transportation needs identified from the community engagement from Richmond 300 and Path to Equity)
- 3. What's missing? (web map with opportunity to add needs that are missing)
- 4. What's Next? (convey how the info will be used)



https://experience.arcgis.com/experience/890a fab43ca248daa3ba595d6c9036e8



Phase 1 Engagement (June - August 2022)

EVENTS:

- 1. Kickoff Webinar/Online Input Meeting
- 2. Engagement Activities to Gather Public Input:
 - Survey
 - Pop-up and community events
 - Presentations at community meetings







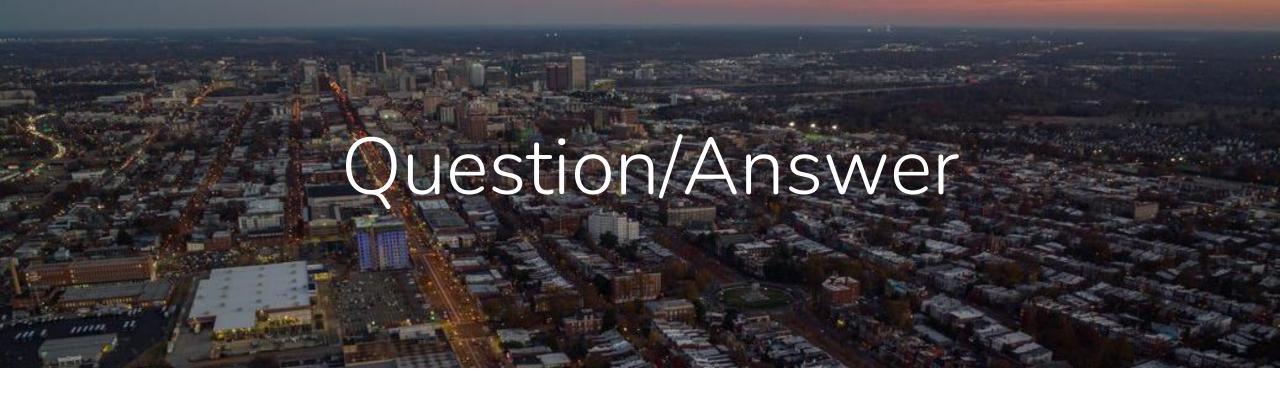


May 24th Steering Committee

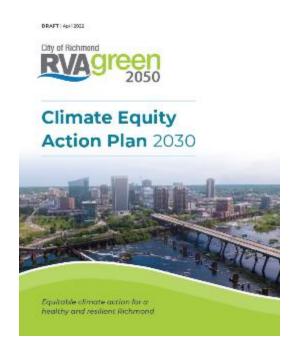
AGENDA:

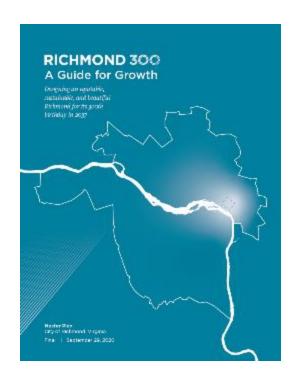
- 1. Needs Analysis Framework
- 2. Community Engagement Plan & Schedule
- 3. Public Engagement Round 1
- 4. June 6th Advisory Committee Meeting Agenda

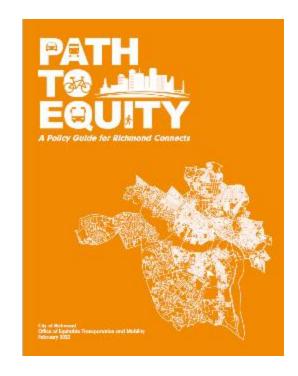












Summary of Plans

Reviewed more than 50 existing plans/policies/programs with an eye toward:

- What are the key project/policy recommendations
- What equity issues need to be elevated for Richmond Connects

Summary of Plans (cont.)

- Strong basis for project recommendations that will be vetted using the Needs Framework
- Plans identify a number of relevant goals/actions that can be incorporated
- There are a number of existing tools that different groups are using to explore equity:
 - Health Opportunity Index
 - Climate Equity Index
 - CEJST
 - USDOT Transportation Disadvantaged Communities
 - RRVTPO Equity Emphasis Areas for EJ
 - Access 2 Opportunity (A2O)