RVAgreen 2050 Transportation and Mobility Working Group

Thursday, June 17th, 2021

Impacts & Indicators





Agenda

- I. Intro: Settling in & ground rules
- II. Review: Revised strategies after the prioritization activity
- III. Key concept: Impact mapping
- IV. Activity: Making impact maps for the prioritized strategies
- V. Conclusion: Wrap-up and next steps

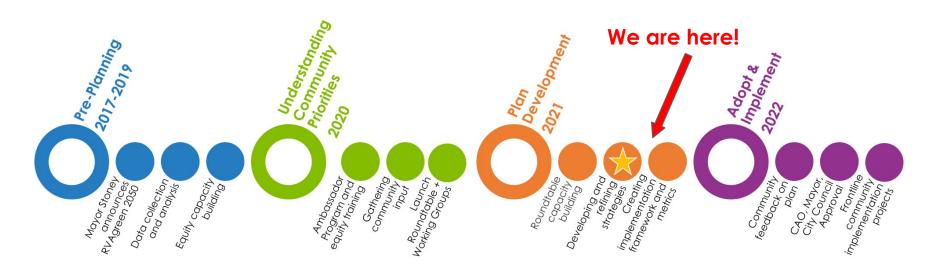
Today's Objectives

- Identify the potential impacts of the prioritized strategies
 - What are we trying to impact?
 - What does success look like for each strategy and what is our shared understanding of what is achievable?

Ground Rules / Group Expectations



Process Overview



Strategy Refinement Process Summer 2021



Strategy Prioritization

Impacts and Indicators

Implementation and Accountability

During our last meeting, we discussed:

- What strategies will most help us achieve our 2030 goals?
- Are we comfortable with the number of strategies to be prioritized?

<u>Today</u>, we will be asking the questions:

- What are the potential impacts of our strategies?
- How can those impacts inform the indicators that we use to measure success?

Over the next two meetings (July 15 & August 5), we will be thinking about:

- How will we equitably implement the plan?
- How will we ensure accountability and transparency?

RVAgreen 2050 DRAFT Structure

Goals	What is the purpose of RVAgreen 2050?
Vision	What does the ideal future look like when RVAgreen 2050 is implemented?
Community Priorities	What cross-cutting public values do we want to center in our plan?
Pathways	What leverage points will lead us towards realizing and operationalizing the goals and community priorities?
Objectives	What are the long-term aims we want to accomplish, organized into the different pathways?
Prioritized Strategies	What are the strategies that will help us achieve our goals and what are the SMARTIE actions that will lead us there?
Impacts	How will our strategies impact the community and lead to a more equitable, resilient, and adaptive Richmond?
Indicators	How will we measure success?
Implementation	How are we going to implement, measure progress, and ensure accountability in this plan?



Refined strategies

Strategy distribution after prioritization

		Obj 1	Obj 2	Obj 3	Obj 4
B&E	12	4	3	3	2
Community	10	6	4		
Transportation	9	4	3	2	
Environment	9	3	3	2	1
Waste	9	2	3	2	2



Objective 1 Refined Strategies

Objective 1: Achieve climate neutrality in municipal fleet operations and increase resilience and stewardship of transportation infrastructure.

- **A. Transportation Demand Management -** Reduce emissions in city operations through the support of employee commute alternatives such as transit and bicycle storage facilities, shower facilities, optimized vehicle routing, telecommuting, and enforcement of the anti-Idling policy among city employee drivers.
- **B. Complete streets -** Promote stewardship of the City's Better Streets policy between neighborhoods by connecting areas and green space in order to promote walkability and continuity for all modes of transportation, including transit, bicycles, and micromobility (e.g. scooters, mopeds, e-bikes, etc..).
- **C. Fleet electrification -** Develop a municipal fleet electrification plan for all new vehicles and equipment purchases, and incorporate alternative fuel vehicles and e-bikes when electric vehicle options are not available in alignment with the Clean and Green Fleet Report.
- **D. Resilience Maintenance Plan -** Develop a Climate Resiliency Maintenance Plan for transportation infrastructure using the Climate Equity Index to prioritize budget requests for resilient maintenance of all bridges, roads, sidewalks, and alleys. Ensure that City infrastructure projects are sited to avoid/minimize impacts to natural resiliency features such as wetlands, forests, and vegetated riparian buffers.

Objective 2 Refined Strategies

Objective 2: Create vibrant neighborhoods where all residents can easily ride transit, walk, or bike to meet daily needs in alignment with Richmond Connects.

- **A. Resilient bus transit system -** Improve public transit frequency, reliability, safety, access, convenience, user experience, and connectivity, considering both service and stops. Prioritize low-income, low car ownership areas and connections to shopping and jobs.
- **B. Resilient greenway systems -** Develop shared-use paths prioritizing the connection of low-income neighborhoods to jobs, necessities, amenities, green spaces, natural resources, and local and regional greenways to empower residents to safely use and protect their biking and walking infrastructure.
- **C. Biking and walking infrastructure -** Develop and prioritize the expansion and repair of pedestrian- and bike-friendly infrastructure networks, especially in connection with Richmond300's development nodes. Prioritize beautification and placemaking efforts along these networks, particularly in underserved and low car ownership communities.

Objective 3 Refined Strategies

Objective 3: Transition the community rapidly and equitably to clean-fuel vehicles and transit.

- **A. Private and commercial electric vehicle transition** Facilitate the transition to affordable, convenient, and reliable electric vehicles for buses, shared vehicles, and private vehicles for all Richmonders.
- **B. Charging infrastructure** Support the equitable build-out of electric vehicle charging stations throughout the City and encourage equitable, geographically distributed installation of these stations in all neighborhoods, reviewing potential barriers to expansion in existing codes/ordinances.

Strategy Impact mapping

Purpose of Impact Mapping

What?

A framework for describing and measuring the wider impacts of urban climate action

Why?

Strategies produce multiple benefits which can become powerful tools for more & better designed climate actions and are critical to reducing barriers to action.

The **distribution** of an impact - whether it is equitable - is at the core of this approach.

For Example...

If the net growth in jobs was focused on a part of the population where employment is already high, such as high-skilled workers, but detracts from those in areas of high unemployment, this could be inequitable and possibly damaging.



"This is the evidence that urban stakeholders need to guide and make the case for climate action."

Structure of impact maps

The area of the action/strategy; these are analogous to the objectives that Sector fall under each Pathway. Any policy, program, or investment initiated with the intention to provide **Strategies** some contribution to equitable climate mitigation or adaptation. What a strategy produces, such as a provided service, facility, infrastructure, Output(s) or a financial tool. The change generated by the output; it is necessary for the intended impact **Outcomes** to occur. The medium- or long-term effect of the outcome (e.g., reduced traffic **Impacts** congestion, reduced energy bills, reduced ground level ozone).

Types of impacts

The 3 Pillars of Sustainability

Social

Economic

Environmental

Racial Equity & Environmental Justice: Potential to promote racial equity and support historically disenfranchised communities

Government Accountability: Potential to promote government accountability and transparency

Community Wealth: Potential to build community wealth and Increase jobs and education access

Housing & Buildings: Potential to expand affordable housing and reduce housing cost burden

Neighborhoods: Potential to support beautiful and safe neighborhoods

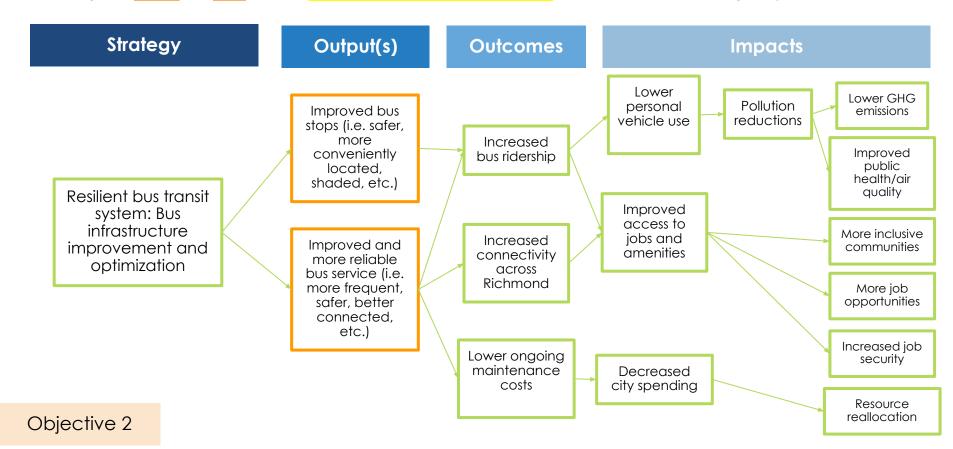
Health: Potential to promote physical and mental health and well-being

Engagement & Communications: Potential to support equitable engagement and communication

ТНЕМЕ	IMPACT GROUP	IMPACT	SDG #	SPECIFIC GROUP	DESCRIPTION
		Biodiversity	14, 15, 11	Biodiversity protection	Protection of ecosystems and species.
				Ecosystem services	Value of services offered by ecosystems, and impact on these ecosystems and services.
				Biological diversity	""Biological diversity" means the variability among living organisms from all sources including, inter alia, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are part; this includes diversity within species, between species and of ecosystems." (Convention on Biological Diversity, Article 2). This impact relates to changes to biological diversity and urban green surface.
				Species population	(Changes to) the size of a species population.
стѕ		Climate Change	7, 11, 13	Greenhouse gas emission	Volume of greenhouse gases, which drive global warming, emitted from man-made sources
ECONOMIC IMPACTS		Air quality	3, 11, 15	Indoor air pollution	Air pollution in buildings and households.
MOM				Outdoor air pollution	Air pollution in cities.
ECO				Olfactory pollution	"Pollution produced by gaseous emissions in the atmosphere that, even in very small amounts, may cause injuries or a condition of general unease or sickness to persons living in the vicinity." (European Environment Information and Observation Network)
		Mala	No related SDG	Indoor noise	Noise in buildings.
		Noise		Outdoor noise	Noise due to traffic and other urban activities.
		Soil quality	3, 11, 12, 15	Soil pollution	Contamination of the soil due to the presence of pollutants such as heavy metals and chemicals (herbicides, industrial wastes, and others).
				Soil degradation	"Change in the soil health status resulting in a diminished capacity of the ecosystem to provide goods and services for its beneficiaries." (Food and Agricultural Administration)
				Soil texture	Size and type of soil particles composing the land, and its impact in land subsidence and stability.

Example Transportation impact map

A. Resilient bus transit system - Improve public transit frequency, reliability, safety, access, convenience, user experience, and connectivity, considering both service and stops. Prioritize low-income, low car ownership areas and connections to shopping and jobs.



Activity

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Develop maps of outputs, outcomes, and impacts for each strategy using the Urban Climate Action Impacts Framework structure

Breakout room discussion - 30 minutes per strategy-briefly identify outputs and outcomes and concentrate on impacts

- 1. For the strategy, consider scale and scope, as well as business as usual scenario,i.e. what would it look like if the strategy were not implemented to provide context
- 2. What are the **outputs** of this strategy? What are direct, tangible results of the strategy?
- 3. What are the **outcomes** of this strategy? What is the change generated by the output?
- 4. What are the potential **impacts** that could result from this strategy? Remember to integrate equity considerations. Who are key stakeholders? What are their priorities and concerns? How is the strategy potentially impacting them-positively or negatively?
- 5. Which impacts are most significant?

Activity Groups

Dawn	Alex	David	Wendy
Municipal Transportation Demand Management (Obj 1) Municipal Fleet Electrification (Obj 1)	Complete Streets (Obj 1) Resilience Maintenance Plan (Obj 1)	Resilient Greenway Systems (Obj 2) Biking and Walking Infrastructure (Obj 2)	Private and Commercial Electric Vehicle Transition (Obj 3) Charging Infrastructure (Obj 3)
Sign-Up	Sign-Up Diane Max	Sign-Up • Jason	Sign-Up • Jeff C.

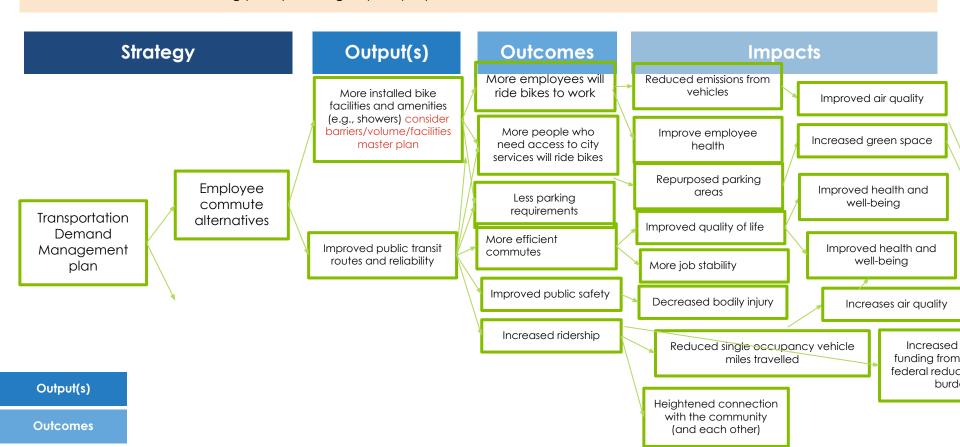
Go into breakout rooms!

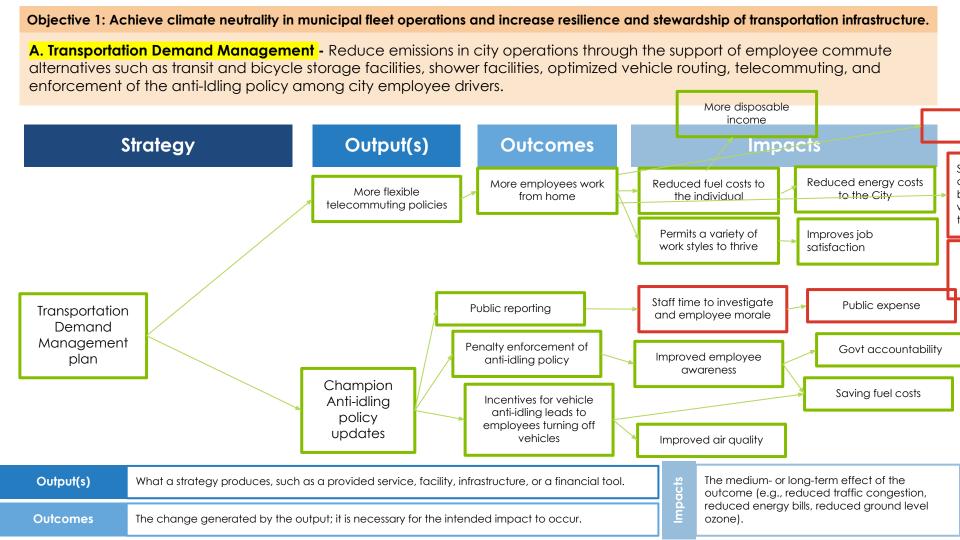
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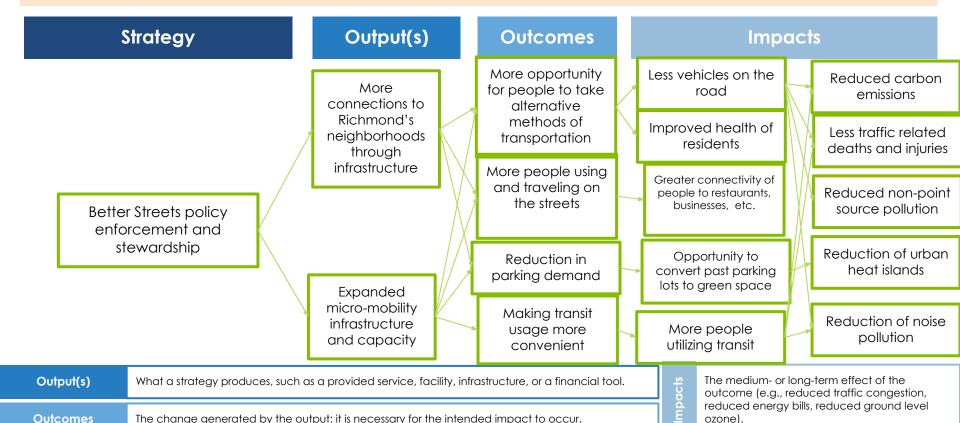




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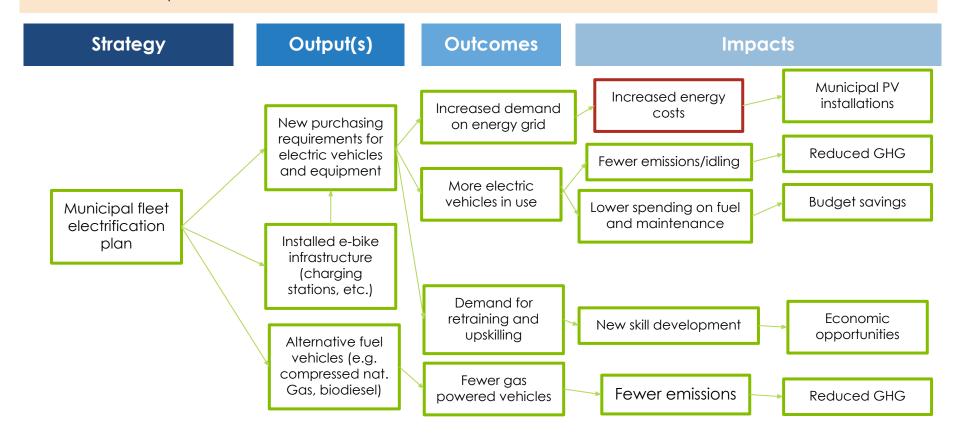
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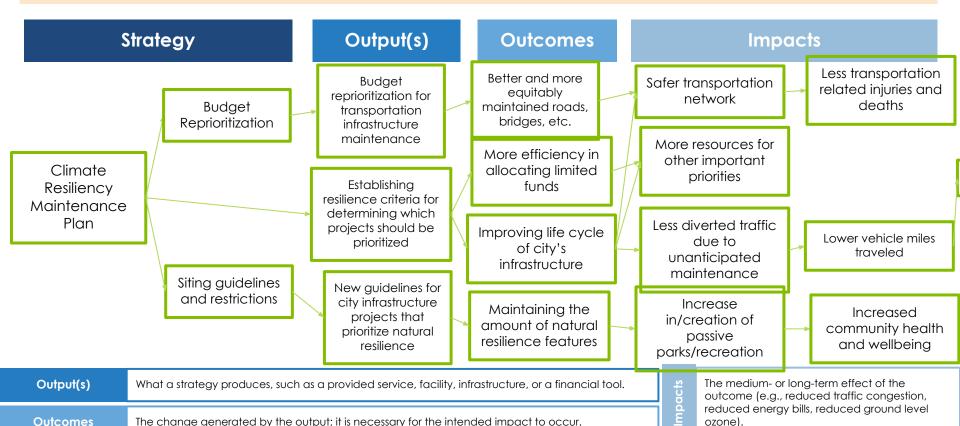
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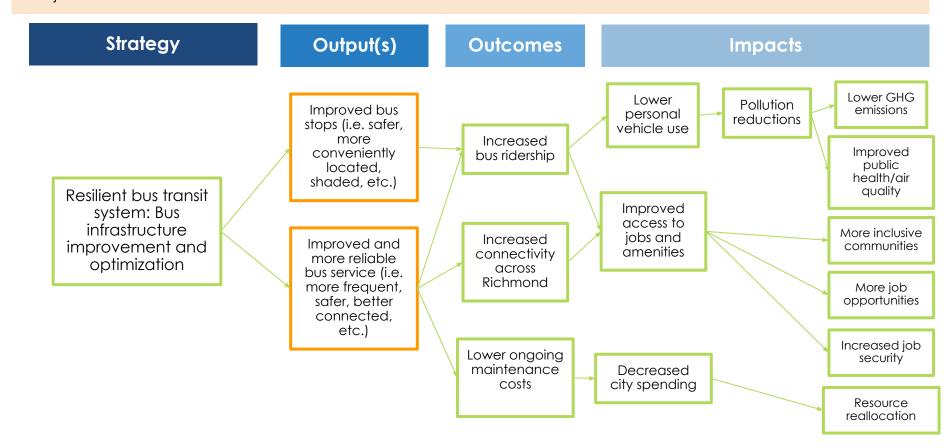


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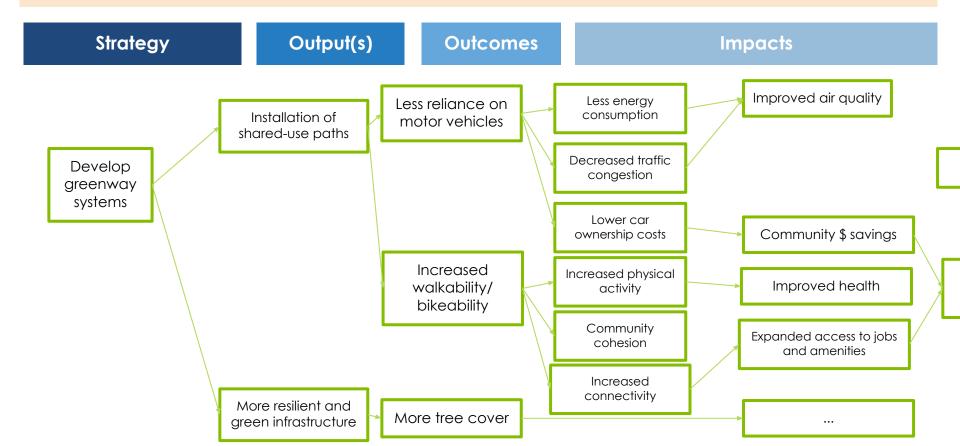
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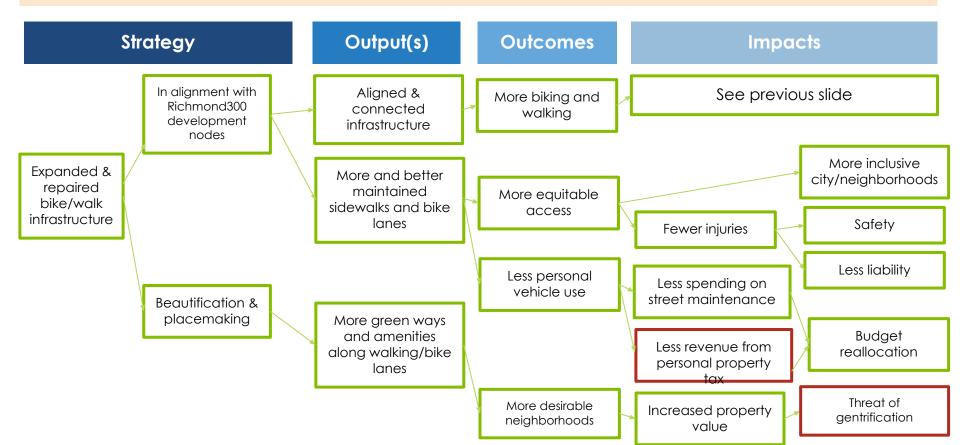
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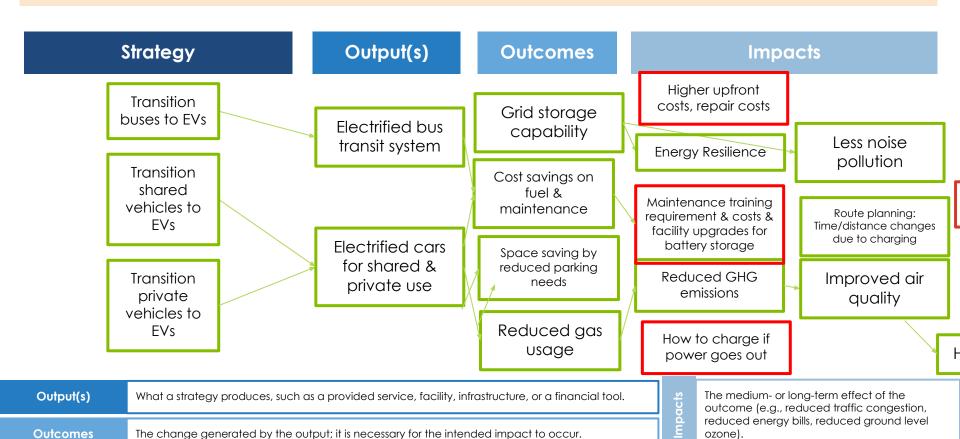
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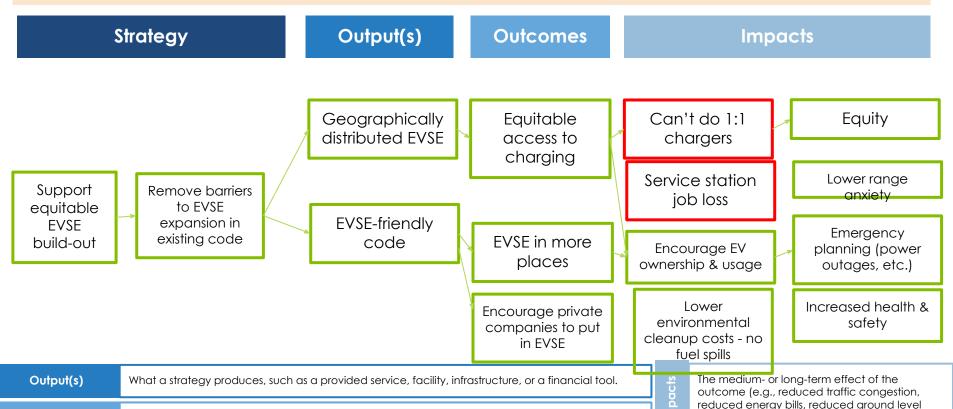


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Outcomes

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ozone).

Exit breakout rooms!

Wrap-up and next steps

- Next meeting: July 15th @ 1pm, "RVAgreen2050 Implementation and Accountability"
- NOW:
 - General reflections?
 - Fill out feedback survey
 - Share updates, upcoming events, and resources in the chat

THANK YOU!

Example

