



Mobility Innovation Working Group

Meeting #3
October 1, 2020



Agenda

- 9:00 – 9:02** / Introductions and Meeting Objectives
- 9:02 – 9:05** / Progress and Schedule Update
- 9:05 – 10:45** / Development of Clean Transportation and Mobility Investments/Policy Portfolios
 - Strategies
 - Policies
 - Investment Portfolios
- 10:45 – 10:53** / Recommendation Process
- 10:53 – 11:00** / Wrap-up and Next Steps

Updated Schedule & Progress Report



			Months											
			July	August			September	October		November		December		
Coordination + Regular Meetings	Task 1	Coordination with the Governor’s Mobility Advisor and State Agencies	In-Progress											
		Bi-weekly State Team Meeting/Calls (10)		7/28	8/11	8/25	9/8	9/22	10/6	10/20	11/3	11/17	12/1	12/15
Facility Innovation Working Group	Task 2	Co-Facilitate and Assist with Meeting Agendas, Minutes, Discussion Topics, and Assist Identifying Potential Speakers (5)			8/6		9/3		10/1		11/5	11/19		
		Co-facilitate the Development of an Investment Strategy	In-Progress											
Summaries of Existing Plans Pertaining to the Northeast	Task 3	Identify Relevant RI Agency Plans	Complete					In-Progress						
		Summary of Northeast Mobility & Investment Plans	Complete						In-Progress					
Portfolios of Policies and Programs to Enhance Environmental Equity	Task 4	Draft a Minimum of 3 Investment Portfolios	In-Progress											
		Prepare an Internal Discussion Paper on at least Three Investment Portfolios	In-Progress											
		Finalize Minimum of 3 Investment Portfolios	In-Progress											
		Cost Benefit Analysis	In-Progress											
		Develop and Present an Action Plan for the Portfolios	In-Progress											
Executive Summary and Full Report	Task 5	Draft Executive Summary and Full Report	In-Progress											
		Final Executive Summary and Full Report	In-Progress											
Project Management	Task 6	Project Oversight and Tracking	In-Progress											

- Scheduled Task
- In-Progress
- Complete
- We are Here
- ♦ Meetings/Webinars
- Deliverable



Overview of Clean Transportation and Mobility Strategies and Benefits



Clean Transportation & Mobility Goals

Reduce GHG emissions

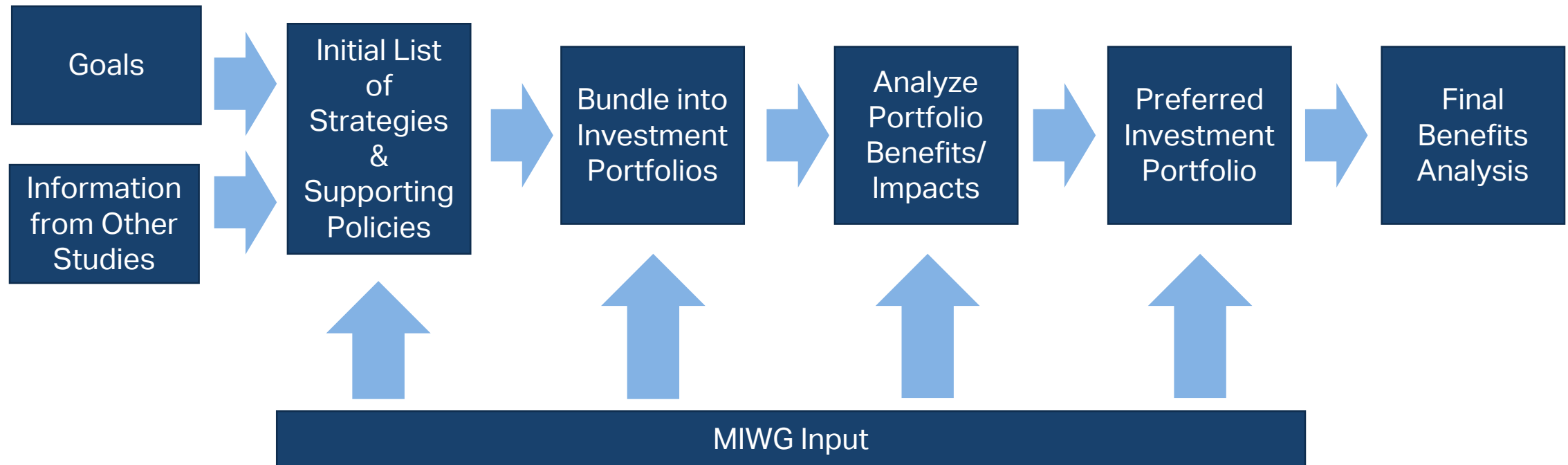
Healthy people & environment

Economic opportunity





Portfolio Development Process





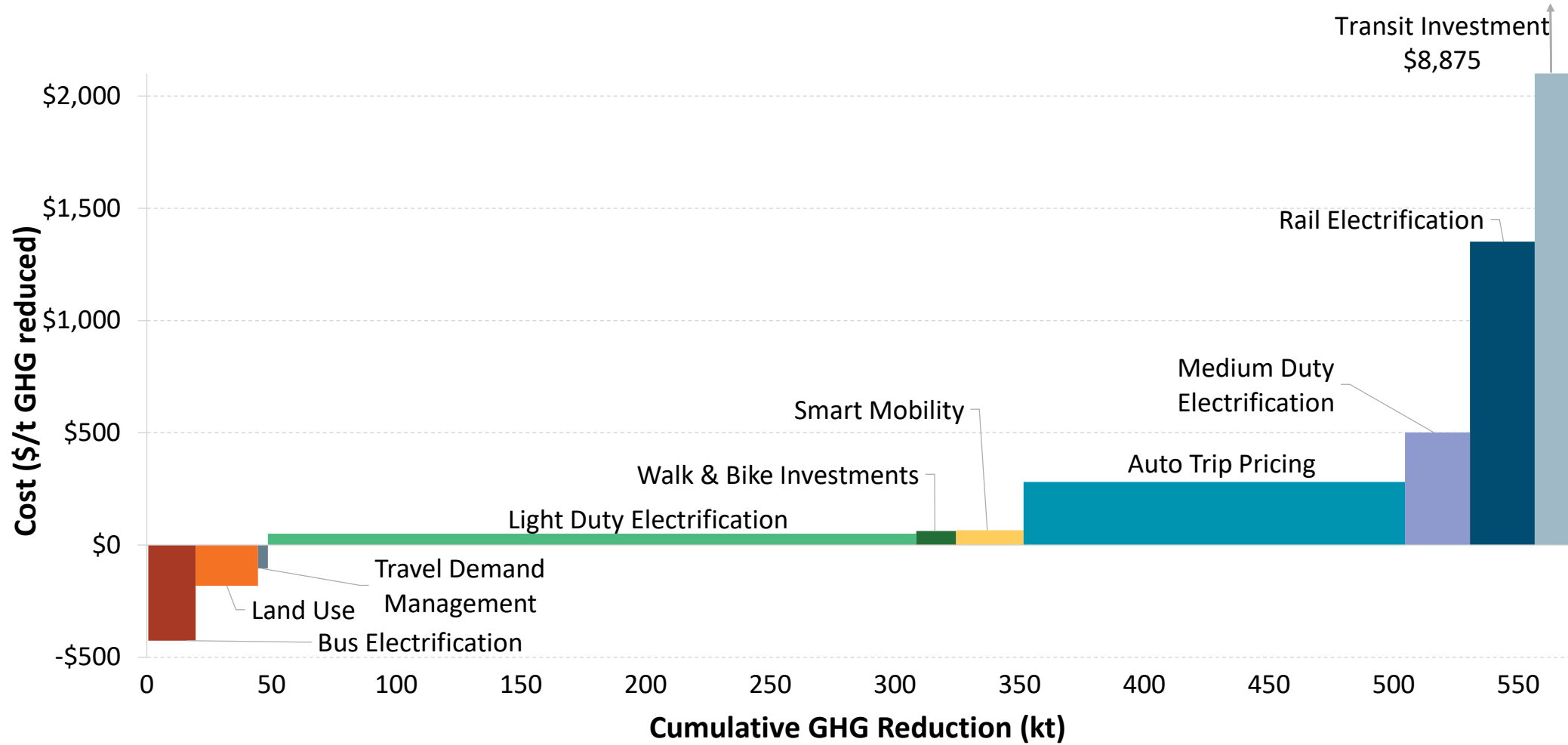
Potential Strategy Implications

	Clean Vehicles	Travel Pricing	Transit, Walking, Biking, Transportation Demand Management	Private CAVs	Smart Mobility
GHG	↑↑	↑	↑	↓	↑↓
Air pollution	↑↑	↑	↑	↑↓	↑↓
Vehicle Miles Travelled	↓	↑	↑	↓↓	↑↓
Mobility	---	↓	↑↑	↑↑	↑↑
Safety	---	↑	↑	↑↑	↑↑
Physical activity and health	---	↑	↑↑	↓	↓
Equity	---	↑↓	↑↑	↓	↑

Source: Carbon Free Boston study, 2019



GHG Benefits & Costs



Source: Carbon Free Boston study, 2019



Overview of Strategy Investment Tool

Takes \$-value investment in clean transportation strategies and provides estimates of:

- GHG and emission reductions
- Health benefits – physical activity, air quality, and safety
- Time savings
- Business and consumer cost savings

Based on regional and national studies of effectiveness

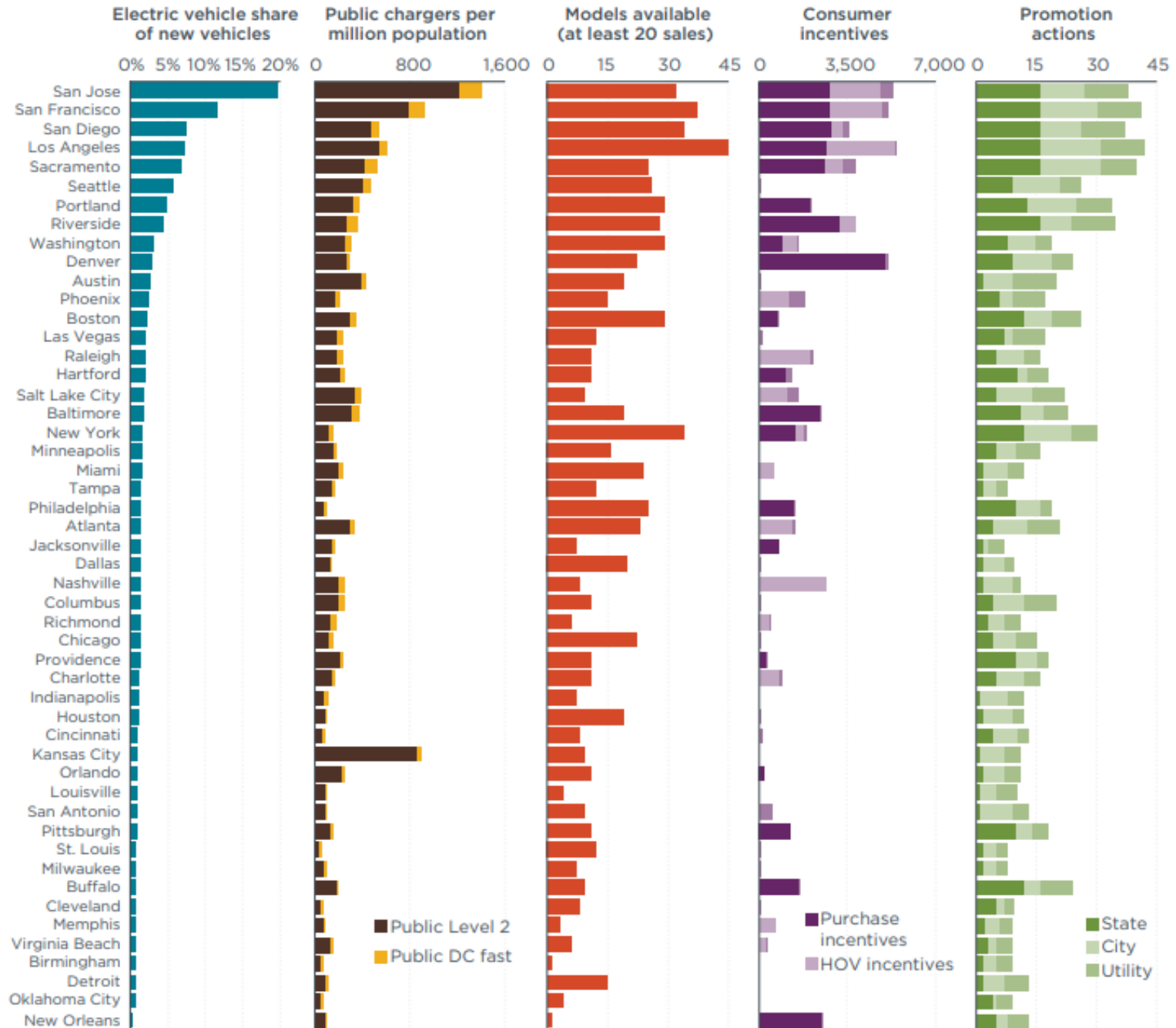
General assessment – actual benefits will depend upon details of specific projects implemented



Strategies & Supporting Policies: Electrification & Alternative Fuels

Strategy	Supporting Policies
Electrification: personal vehicles	<ul style="list-style-type: none">• Rebate/incentive programs for vehicles and/or EVSE• Public charging stations• Priority parking• EVSE requirements or incentives in zoning/building codes• Rate structures• Grid strategies
Electrification: fleet vehicles	<ul style="list-style-type: none">• Public fleet purchases and EVSE installation• Grants, loans, or rebates to fleet operators for vehicle and/or EVSE purchase and installation• Demonstration programs/partnerships with fleet operators• Grid strategies

Current State of the EV Market





Strategies & Supporting Policies: Vehicle Travel Reduction & Mobility

Strategy	Supporting Policies
Transit & rail improvements	<ul style="list-style-type: none">• Local and regional service expansion• Service efficiency improvements (e.g., signal priority, bus on shoulder, electrification)• Reduced/free fares
Bicycle and pedestrian improvements	<ul style="list-style-type: none">• Path construction & grants• Funding for complete streets policies and projects• Supporting infrastructure (parking, wayfinding, etc.)• Safe routes to school programs• Vision Zero
Shared mobility & micromobility	<ul style="list-style-type: none">• Bike and carshare program subsidies/operation• Higher fees for solo-ride trips• Prioritize curb space for EV and/or HOV rideshare• TNC-transit agency partnerships, demonstrations, & funding• Incentives/rebates for e-bikes, scooters, etc.• Shared fleets - clean & automated vehicles



Strategies & Supporting Policies: Vehicle Travel Reduction & Mobility (cont'd)

Strategy	Supporting Policies
Land use/smart growth/transit-oriented development	<ul style="list-style-type: none">• Funding and technical assistance to revise plans & zoning• Targeted investment in pedestrian access/public realm improvements• Growth boundaries• Transfer of development rights
Travel demand and mobility management	<ul style="list-style-type: none">• Employer-based outreach and incentive programs• School-based outreach• Neighborhood based "travel smart" programs• Subsidized transit pass programs• Telework support• Rideshare and vanpool support• Mobility as a service (MaaS)
Pricing	<ul style="list-style-type: none">• Smart parking• Congestion pricing (highways)• Cordon pricing (urban core)• Feebates



Provisions to Promote Equitable Outcomes & Economic Benefits

Strategy	Equity Assurance	Job Focus
Electrification and alternative fuels	<ul style="list-style-type: none"> Income-tested rebate/incentive programs Income-qualified rate structures Geographic prioritization of publicly funded EVs and EVSE to disadvantaged communities Targeted support for small business electrification 	<ul style="list-style-type: none"> Prioritize local suppliers/contractors for publicly funded investments & services Workforce training for clean technology (e.g., EV maintenance) Business partnerships/investments for clean transportation technology industries
Vehicle travel reduction & mobility	<ul style="list-style-type: none"> Income-based fares/fees Prioritization of infrastructure, services, and subsidies towards underserved areas Requirements to serve underserved areas Affordable housing policies Transit development 	<ul style="list-style-type: none"> Prioritize strategies improving access to jobs & education Local workforce training/capacity building for service provision



Discussion Question

Which strategies would you like to hear more about?



Discussion Question

Based on what you have heard today, what are your top three priorities?

1. Electrification: personal vehicles
2. Electrification: fleet vehicles
3. Transit & rail improvements
4. Bicycle and pedestrian improvements
5. Shared mobility & micromobility
6. Land use/smart growth/TOD
7. Travel demand & mobility management
8. Pricing



Discussion Question

Which three strategies do you think best achieve healthy communities?

1. Electrification: personal vehicles
2. Electrification: fleet vehicles
3. Transit & rail improvements
4. Bicycle and pedestrian improvements
5. Shared mobility & micromobility
6. Land use/smart growth/TOD
7. Travel demand & mobility management
8. Pricing



Discussion Question

Which three strategies do you think best achieve economic development?

1. Electrification: personal vehicles
2. Electrification: fleet vehicles
3. Transit & rail improvements
4. Bicycle and pedestrian improvements
5. Shared mobility & micromobility
6. Land use/smart growth/TOD
7. Travel demand & mobility management
8. Pricing



Break



Policy Conversation



Policy Discussion Questions

Are there any supporting policies that are missing and should be added for consideration?

Which supporting policies are most valuable?

Are there any that are less valuable for RI?



Discussion: Electrification & Alternative Fuels Policies

Are there any supporting policies that are missing and should be added for consideration?

Which supporting policies are most valuable?

Are there any that are less valuable for RI?

Strategy	Supporting Policies	Equity & Jobs
Electrification: personal vehicles	<ul style="list-style-type: none"> • Rebate/incentive programs for vehicles and/or EVSE • Public charging stations • Priority parking • EVSE requirements or incentives in zoning/building codes • Rate structures • Grid strategies 	<ul style="list-style-type: none"> • Income-tested rebate/incentive programs • Geographic prioritization of publicly funded EVs and EVSE to disadvantaged communities • Targeted support for small business electrification • Prioritize local suppliers/ contractors for publicly funded investments & services • Workforce training for clean technology • Business partnerships/ investments for clean transportation technology industries
Electrification: fleet vehicles	<ul style="list-style-type: none"> • Public fleet purchases and EVSE installation • Grants, loans, or rebates to fleet operators for vehicle and/or EVSE purchase and installation • Demonstration programs/partnerships with fleet operators • Grid Strategies 	



Discussion: Vehicle Travel Reduction & Mobility Policies

Are there any supporting policies that are missing and should be added for consideration?

Which supporting policies are most valuable?

Are there any that are less valuable for RI?

Strategy	Supporting Policies	Equity & Jobs
Transit & rail improvements	<ul style="list-style-type: none"> • Service expansion • Service efficiency improvements • Reduced/free fares 	<ul style="list-style-type: none"> • Income-based fares/fees • Prioritization of infrastructure, services, and subsidies towards disadvantaged areas • Requirements to serve disadvantaged areas • Prioritize projects improving access to jobs & education • Local workforce training/capacity building for service provision
Bicycle and pedestrian improvements	<ul style="list-style-type: none"> • Path construction & grants • Complete streets policies & projects • Supporting infrastructure • Safe routes to school programs • Vision Zero 	
Shared mobility & micromobility	<ul style="list-style-type: none"> • Bike and carshare program subsidies/operation • Higher fees for solo-ride trips • Prioritize curb space for EV and/or HOV rideshare • TNC-transit agency partnerships • Incentives/rebates for e-bikes, scooters, etc. • Shared fleets - clean & automated vehicles 	

Discussion: Vehicle Travel Reduction & Mobility Policies (continued)



Are there any supporting policies that are missing and should be added for consideration?

Which supporting policies are most valuable?







Are there any that are less valuable for RI?

Strategy	Supporting Policies	Equity & Jobs
Land use/smart growth/transit-oriented development	<ul style="list-style-type: none"> Funding and technical assistance for plans & zoning Targeted pedestrian/public realm investment Growth boundaries Transfer of development rights 	<ul style="list-style-type: none"> Affordable housing policies Prioritization of services and subsidies towards disadvantaged areas Prioritize projects improving access to jobs & education Local workforce training/ capacity building for service provision
Travel demand management	<ul style="list-style-type: none"> Employer-based outreach and incentive programs School-based outreach Neighborhood based "travel smart" programs Subsidized transit pass programs Telework support Rideshare and vanpool support Mobility as a service 	
Pricing	<ul style="list-style-type: none"> Smart parking Congestion pricing (highways) Cordon pricing (urban core) Feebates 	



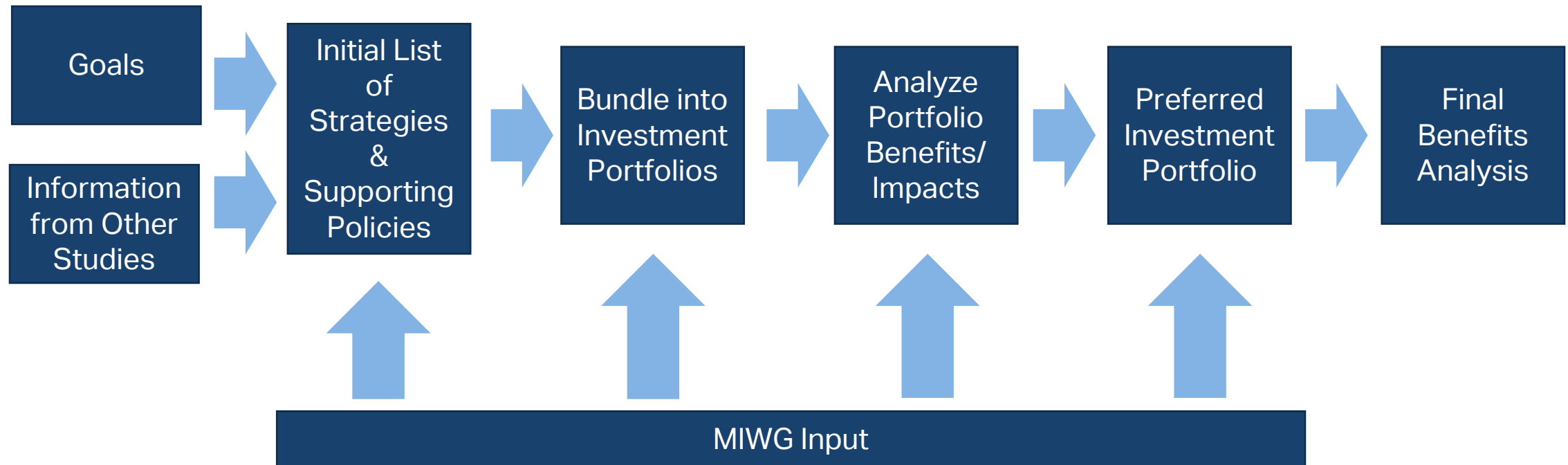
Investment Portfolios

Developing Investment Portfolios

	Diverse	Hybrid	Max GHG	
	5%	30%	54%	Electric cars, light trucks and vans
	21%	23%	27%	Low & zero-emission buses and trucks
	35%	18%	-	Transit expansion and upkeep
	16%	14%	10%	Pedestrian and bike safety, ride sharing
	7%	8%	8%	System efficiency
	17%	8%	-	Indirect/ Other



Portfolio Development Process





Investment Strategy Summary

Have your thoughts on the investment strategies shifted based on today's discussion and why?

Do you have any other questions or comments?



Recommendation Process Overview

Recommendations will be modeled around the mission and guiding principles of the MIWG and will be relevant to Rhode Island.

Sources for Recommendations:

- Consider audit and all existing state plans
- Speaker presentations
- Working Group Members ideas/presentations
- Best practices from other States and academia
- Input from the public

Scope- Recommendations can include:

- **BIG IDEAS**
- Goal specific
- Investments
- Complementary policies

Next Steps

- The recommendation template and guidance memorandum will be circulated today
- Please review both documents
 - We are asking for your input by October 26
- We will discuss recommendations at the November 5th meeting



Public Input Meeting: October 22nd

To request an opportunity to provide comment, please contact:

colleenquin@gmail.com and katja.hamler@governor.ri.gov

Next Steps



10/22
Public Meeting

11/19 Meeting
Implementation
and Action Plan

**Report to
Governor**

11/05 Meeting
Recommendations

For more information:

<http://climatechange.ri.gov/state-actions/mobility-innovation.php>

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Governor's Mobility Advisor | Policy Advisor, Office of the Governor



Thank You