



Clean Transportation and Mobility Innovation Report

PRESENTATION TO EC4
March 4, 2021



Objectives of the Clean Transportation + Mobility Strategy



What were the intended objectives of the Strategy?

To identify concrete policies, investments and initiatives to address the appropriate pathways to support a clean transportation and green economy that are most beneficial to Rhode Island.

How was the Strategy developed?

The Mobility Innovation Working Group has met regularly since August and has formulated a bold and comprehensive set of recommendations for state leadership's consideration.

How will the Strategy be utilized?

The Strategy should be considered as a roadmap that state leadership can use to move towards a clean transportation future.

Working Group Process

By the Numbers

26 Working Group members

6 public meetings

4 expert presentations

Nearly **20** members of the public provided public comment and input

24 recommendations and **30** initial action steps



Meeting Objectives

- 1) To hear from world-renowned clean transportation leaders and state officials to better understand the challenges and opportunities related to clean transportation
- 2) To level-set on the substantial body of clean transportation work that has already been accomplished in the state
- 3) To inform and analyze illustrative investment portfolios
- 4) To provoke ideas and recommendations from Working Group members, that are informed by their unique perspectives, to achieve the shared goals of the Working Group



Working Group Members

State Officials

Scott Avedisian
Meredith Brady
Rachel Calabro
Janet Coit
Pamela Cotter
Terry Gray
Linda George
Katja Hamler
John McCoy
Nick Ucci
Nicole Verdi
Colleen Quinn

Stakeholders

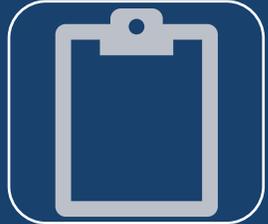
Lloyd Albert (AAA Northeast)
Kara Angotti (Amtrak)
Ashley Brown (Spin)
Josh Brumberger (Utilidata Inc.)
Carmen Diaz-Jusino (Bank Newport)
John Flaherty (Grow Smart)
Junior Jabbie (Banneker Supply Chain Solutions)
Meghan McGuinness (National Grid)
Julia Rege (Alliance for Automotive Innovation)
Peter Rothstein (Northeast Clean Energy Council)
Jennifer Slattery (League of Cities and Towns)
Matthew Taibi (Teamsters Local 251)
Chris Waterson (ProvPort)
Hank Webster (Acadia Center)



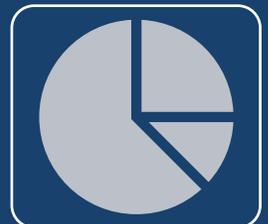
Report Overview



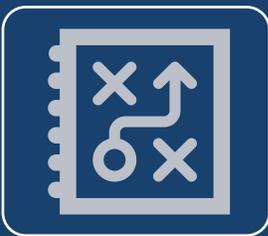
Section 1: Facts, Trends and Issues



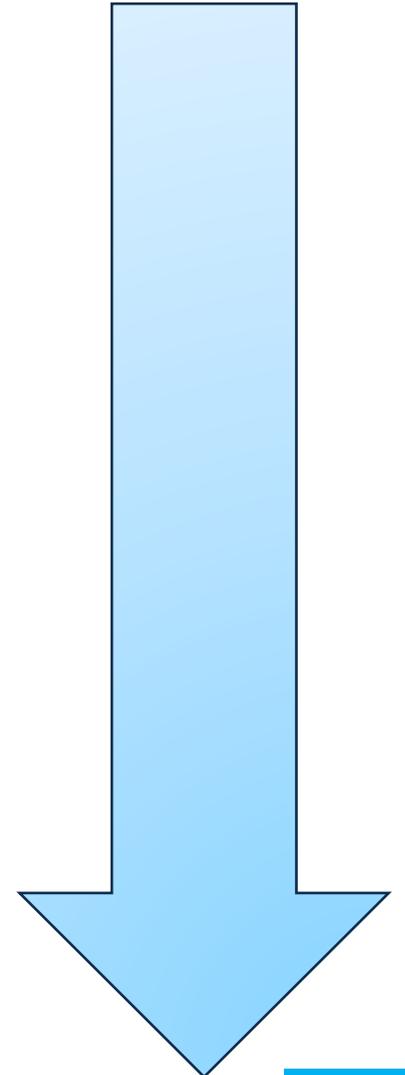
Section 2: Rhode Island Mobility Audit and Peer State Inventory



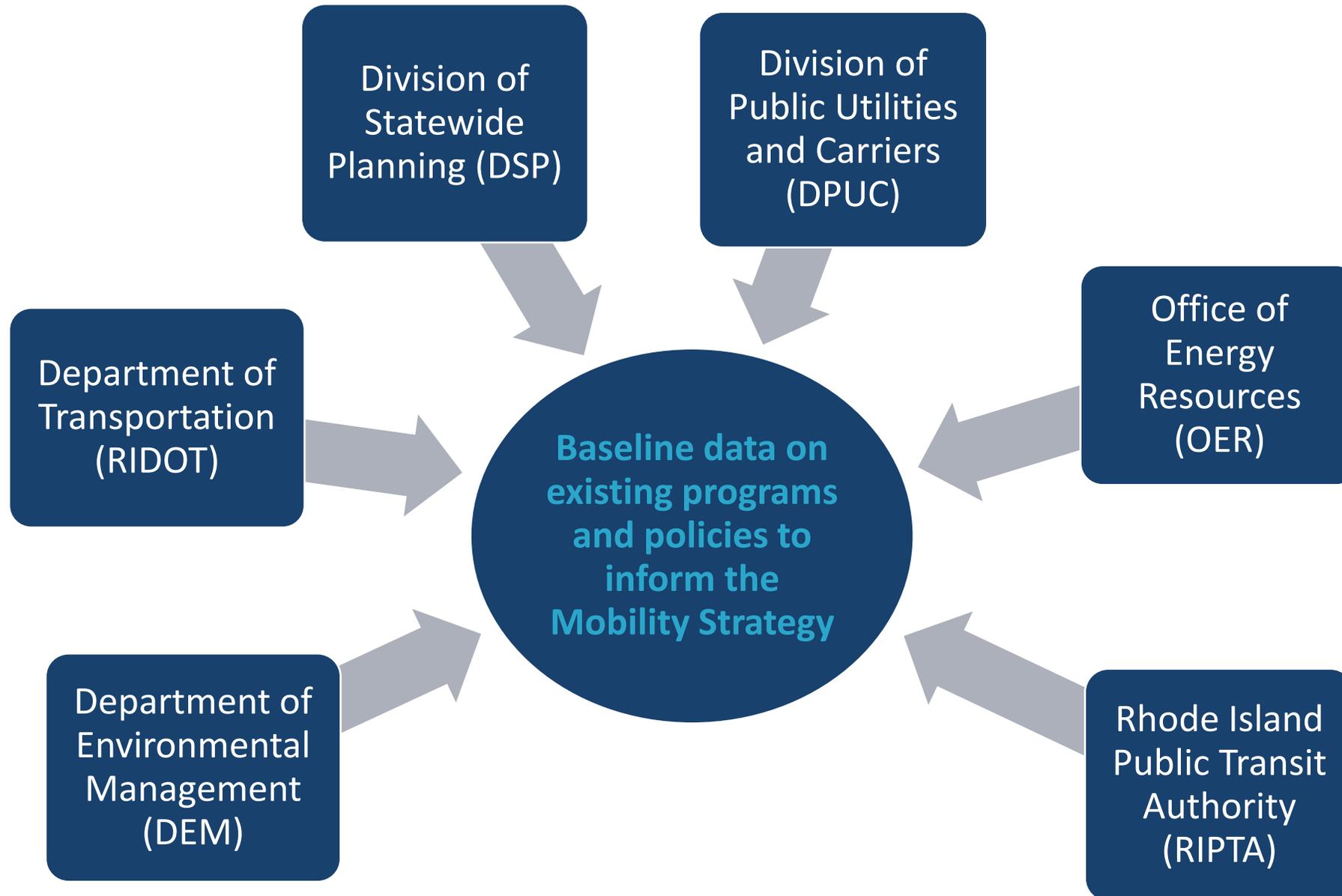
Section 3: Illustrative Investment Portfolios



Section 4: Recommendations and Initial Action Steps



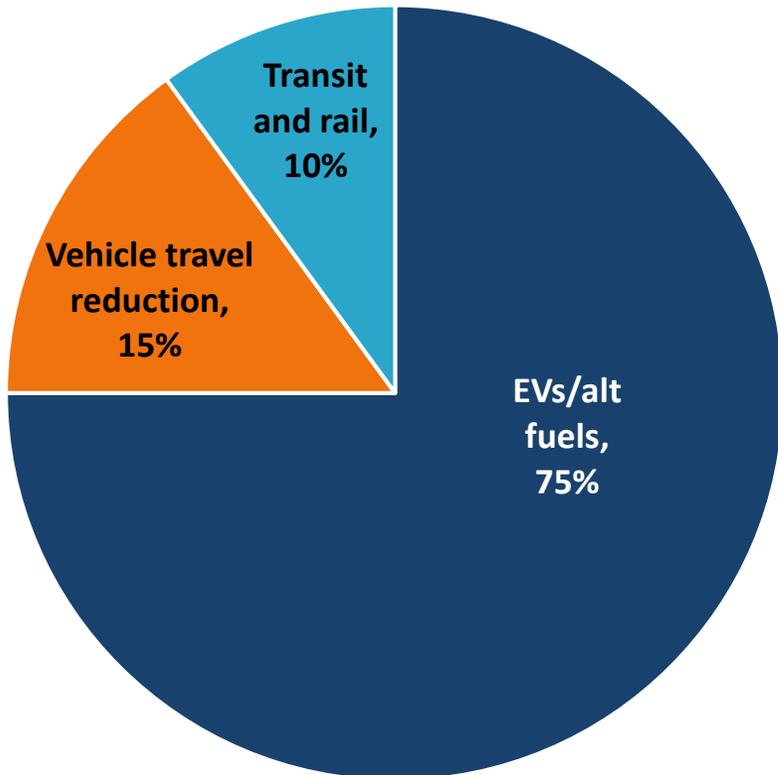
Rhode Island Mobility Audit



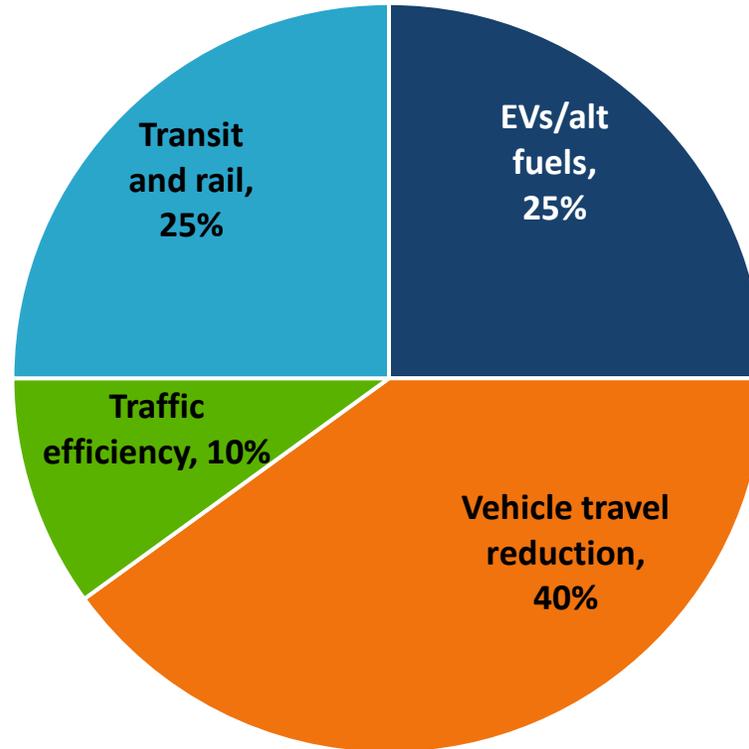


Illustrative Investment Portfolios

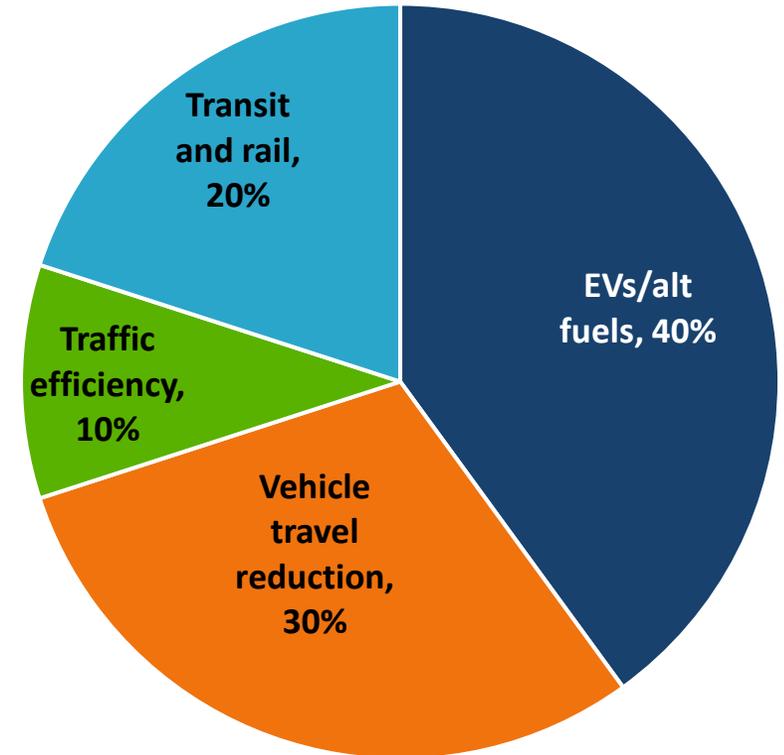
1 – Electrification Emphasis



2 – Mobility Emphasis



3 - Blended



Investment Benefits



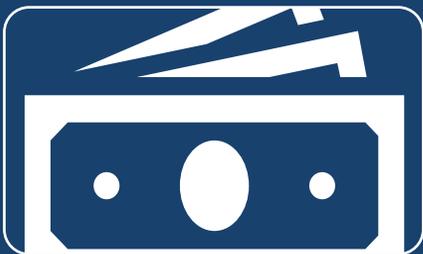
Reductions in GHG emissions and improvements in air quality

- Electrification achieves the greatest GHG and air quality benefits
- Truck/bus electrification improves air quality the most



Equitable mobility outcomes and public health benefits

- Mobility strategies (vehicle travel reduction, transit) achieve the greatest benefits for equitable mobility (non- single-occupancy vehicle (SOV) trips) and health
- Active mobility has the greatest health benefits



Economic benefits including job creation and cost savings

- Direct job creation: highest for bike/pedestrian infrastructure
- Business cost savings: small business clean fleets and electric trucks
- Consumer cost savings: highest for EVs and SOV travel reduction

Recommendation Categories



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Create a healthier environment for all Rhode Islanders with specific benefits for residents of our **most overburdened and underserved communities**



Establish Rhode Island as a national leader in **bold transportation and climate commitments**



Modernize, expand and invest in **state transit and transportation** assets to effectively move more people and improve accessibility



Improve air quality by taking steps to **electrify the transportation sector**



Create a **21st century mobility infrastructure** that capitalizes on the emerging changes in transportation technology



Unlock **economic opportunity**, promote green job creation and support business and supply chain industries

GHG

R
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Highlighted Recommendations

Set a **transportation GHG reduction goal** to substantially reduce GHG emissions specifically in the transportation sector in order to meet the state's climate goals.

Advocate for legislation directing no less than **35% of Transportation and Climate Initiative Program investments** to benefit overburdened communities.

Continue to develop a plan for **ubiquitous charging (and/or alternative fuel) infrastructure** including EV corridors, along roadways/highways, fast charging, hydrogen and fuel cell charging as well as public, workplace, and residential charging. Also includes the need to consider the electrical grid infrastructure to deliver long term benefits to ratepayer.

Create a forward-looking transit structure by establishing 5-7 **Next Generation Transit Districts (NGTD)** with rapid, high-capacity, high-interval electrified transit between NGTDs.

Develop a policy agenda focused on **green workforce development and training opportunities** including a plan for training or re-training of existing workers and a plan for the just transition of workers into a clean transportation sector.



Improve air quality by taking steps to electrify the transportation sector



Consider establishing an **ambitious electrification goal** that, by 2040, all new cars, light duty trucks and buses sold in Rhode Island will be electric or technology neutral that meets the same emission standards.

Develop a **ZEV roadmap** that delineates the steps the state must take to materially impact/increase the adoption rate of ZEVs (including BEV's, PHEV's, Fuel Cell/Hydrogen as well as M/HD vehicles) for both private and public sectors in the next 10-15 years.

Promote **Medium/Heavy Duty ZEV fleet adoption** by promulgating regulations based on the M/HD ZEV MOU signed by Rhode Island in July of 2020.

Continue progress on the state's ambitious **public transit bus and school bus electrification plans**.

Move quickly to create faster and more **frequent rail service between Boston and Providence** by electrifying the rail system. For a train to arrive every 30 minutes, the rail system will need to be electrified.



Unlock economic opportunity, promote green job creation and support business and supply chain industries



Develop **incentives for individuals and small businesses** with light-duty vehicle fleets operating in neighborhoods (plumbers, electricians, delivery, etc.) to convert to ZEVs.

Develop a policy agenda, in partnership with the Department of Labor and Training, focused on **workforce development and training opportunities**, including training or re-training of existing workers in impacted fields, partnering with local and regional companies and planning for the transition of workers into a clean transportation sector.

Establish a **Mobility Innovation Transformation Initiative** that supports technology and business model innovations in new transportation services that enable public-private partnerships and financing to enable scale of adoption.

Thank You!

