



**Acadia  
Center**

Advancing the Clean Energy Future

# Transportation and Climate Initiative (TCI)

Reducing Air Pollution & Improving Mobility  
Options in Rhode Island

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# Acadia Center Background

Acadia Center works at the intersections of energy and climate change: power generation and consumer-side energy resources; transportation; land use; and carbon emissions reductions and mitigation.



**CHARITY NAVIGATOR**  
Your Guide To Intelligent Giving

Rating



PERFECT **100**



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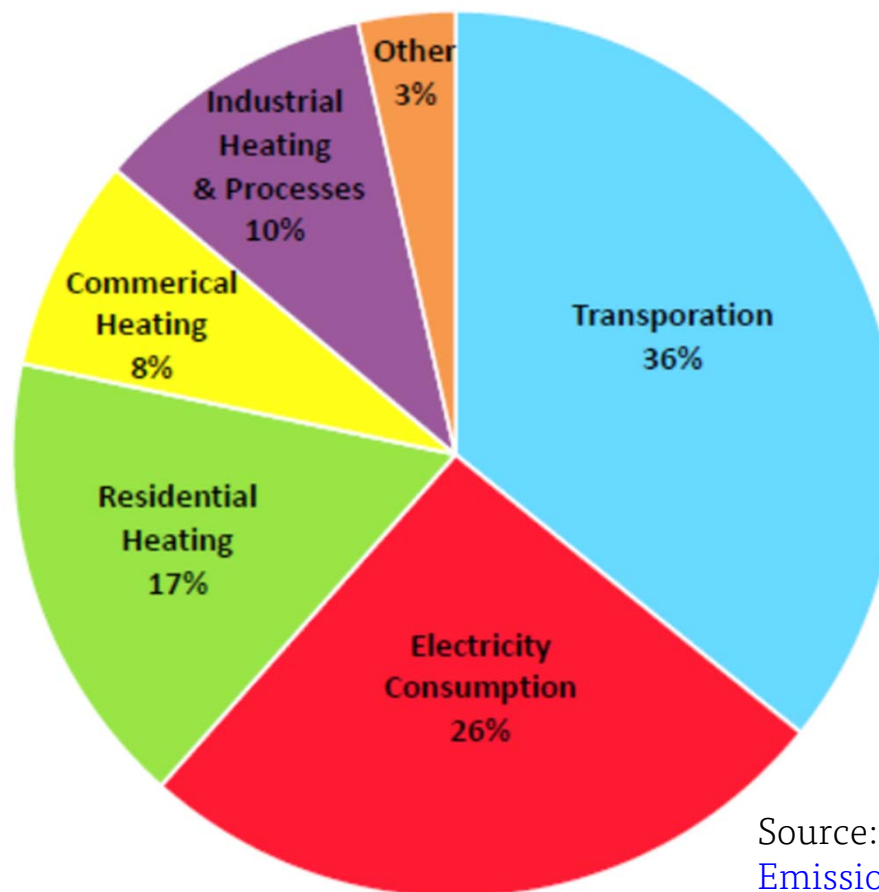
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# RI Greenhouse Gas Emissions

Inventoried GHG Emission Sources 2016



Source: [RI DEM GHG Emissions Inventory](#)



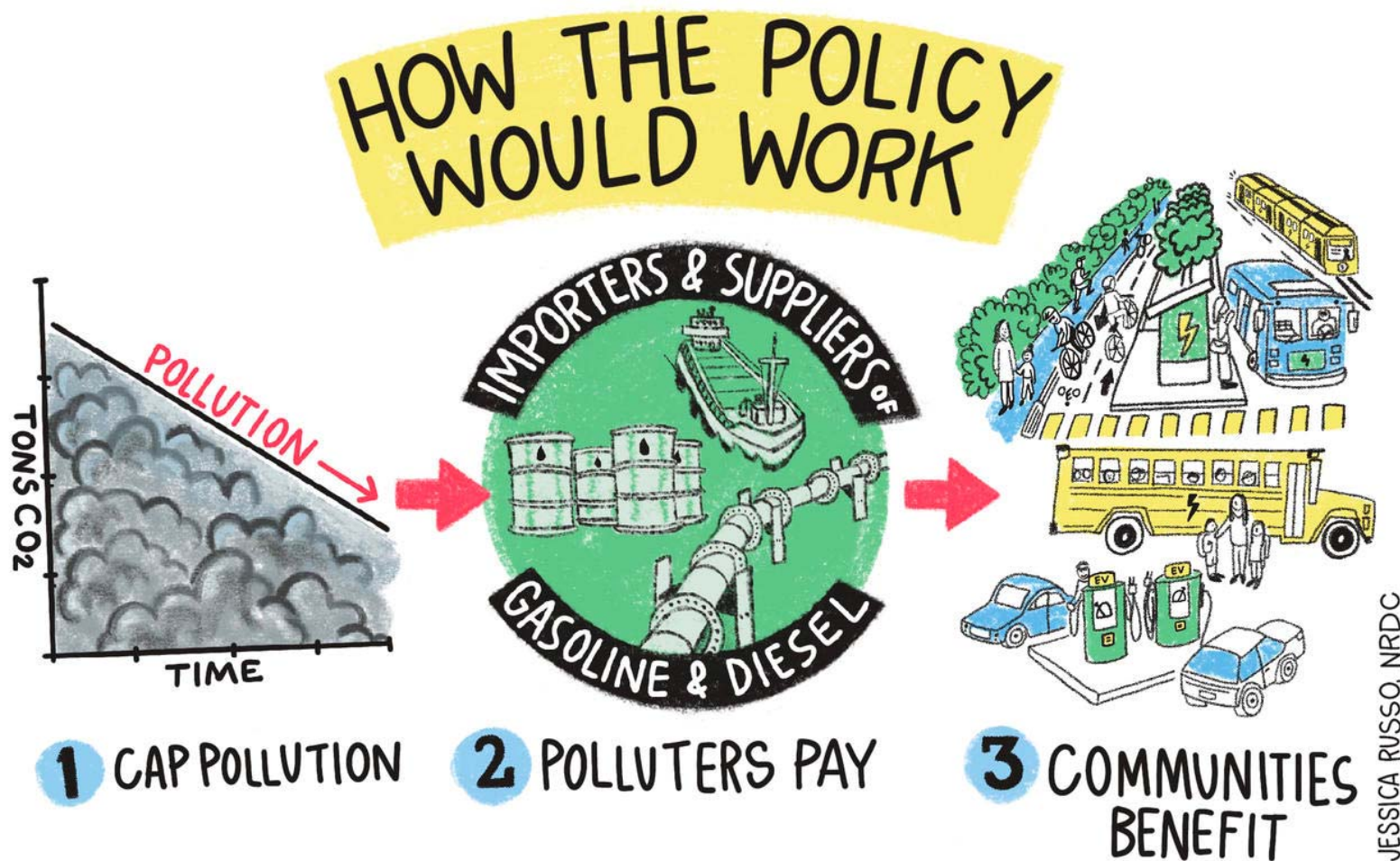
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# How TCI Works



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# Clean Mobility Investments

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**\$20**  
**million**

➤ TCI is projected to bring \$20 million,  
annually, into Rhode Island.



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# Equity Commitments

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- RI will establish Equity Advisory Board with majority representation from overburdened and underserved communities
  - Environmental Justice, Health Equity Zones, Green Justice Zones
  - Advise state on annual investment plans to achieve emissions reduction and enhance access to transportation services



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# Equity Commitments

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- RI will invest a minimum of 35% of TCI Proceeds to reduce transportation pollution in overburdened and underserved communities
  - State and Equity Advisory Board will monitor progress and adjust investment strategies if pollution reduction goals are not met



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# TCI Health Benefits

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**TRECH**  **PROJECT**  
TRANSPORTATION, EQUITY, CLIMATE & HEALTH



**HARVARD T.H. CHAN**  
SCHOOL OF PUBLIC HEALTH

**C-CHANGE**  
CENTER FOR CLIMATE, HEALTH,  
AND THE GLOBAL ENVIRONMENT



**INSTITUTE FOR  
THE ENVIRONMENT**



Columbia University  
**MAILMAN SCHOOL  
OF PUBLIC HEALTH**



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# TCI Health Benefits

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Health Benefits in Rhode Island:

Up to \$140 Million Per Year by 2032



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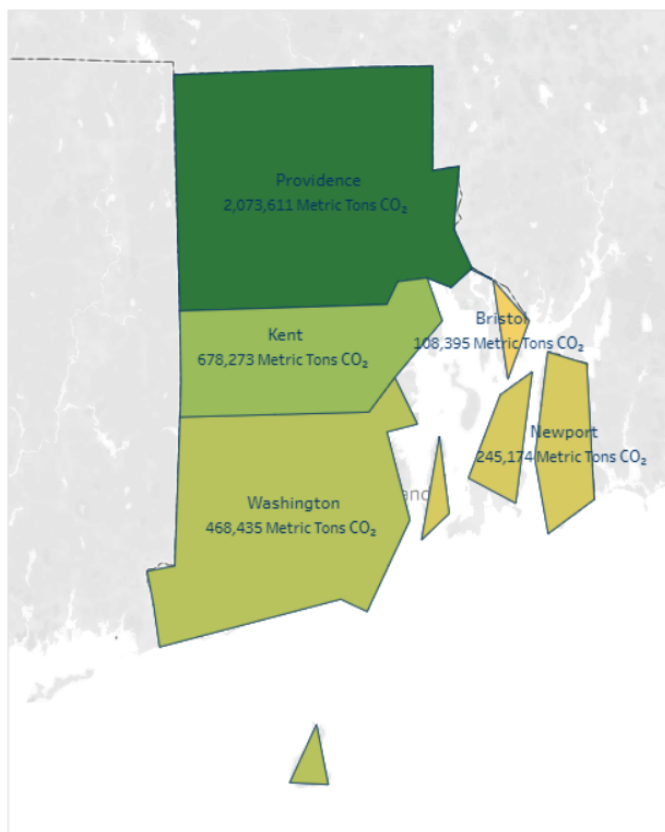


# Current Transportation Pollution



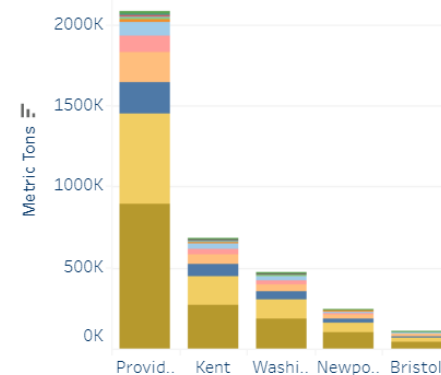
## Transportation Emissions by County

Year: 2017



## Distribution of Emissions by Vehicle Type

Year: 2017

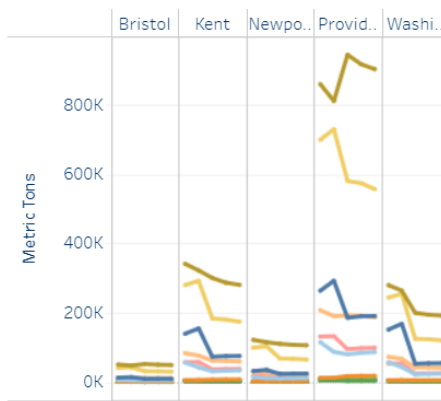


## Vehicle Type

- Motor Home
- Transit Bus
- Refuse Truck
- Single Unit Long-...
- School Bus
- Motorcycle
- Intercity Bus
- Combination Sho...
- Single Unit Short-...
- Light Commercial...
- Combination Lon...
- Passenger Truck
- Passenger Car

## Emissions Over Time

2005-2017



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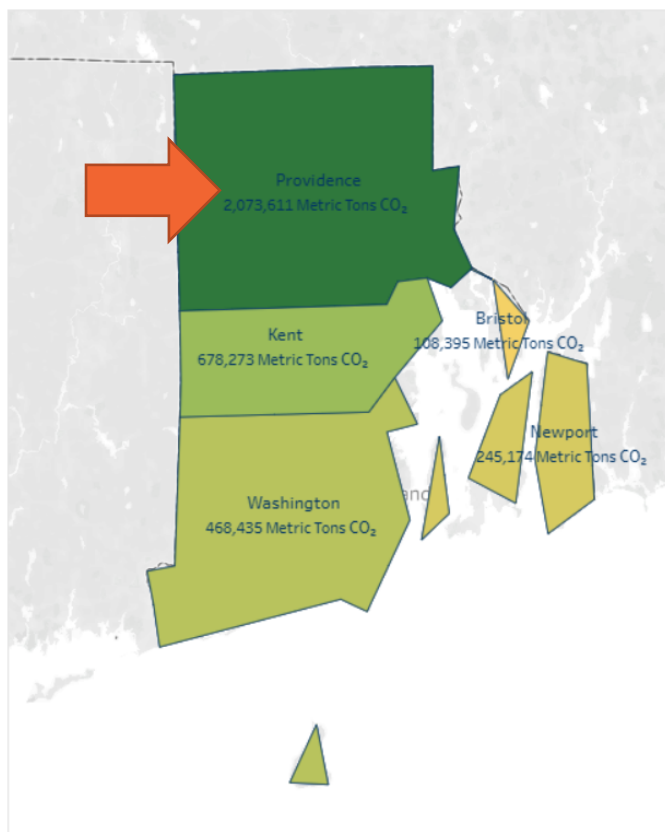


# Current Transportation Pollution



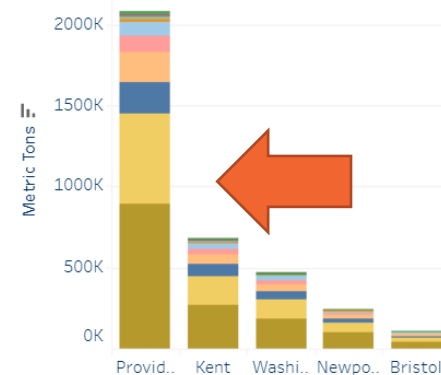
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Year: 2017



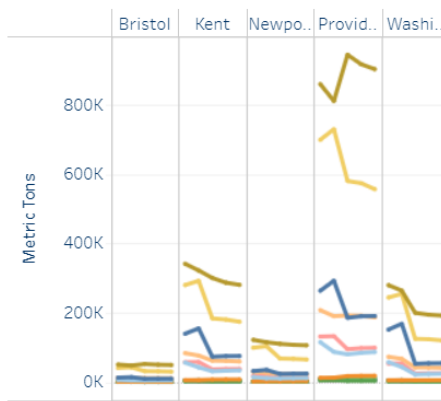
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## Emissions Over Time

2005-2017



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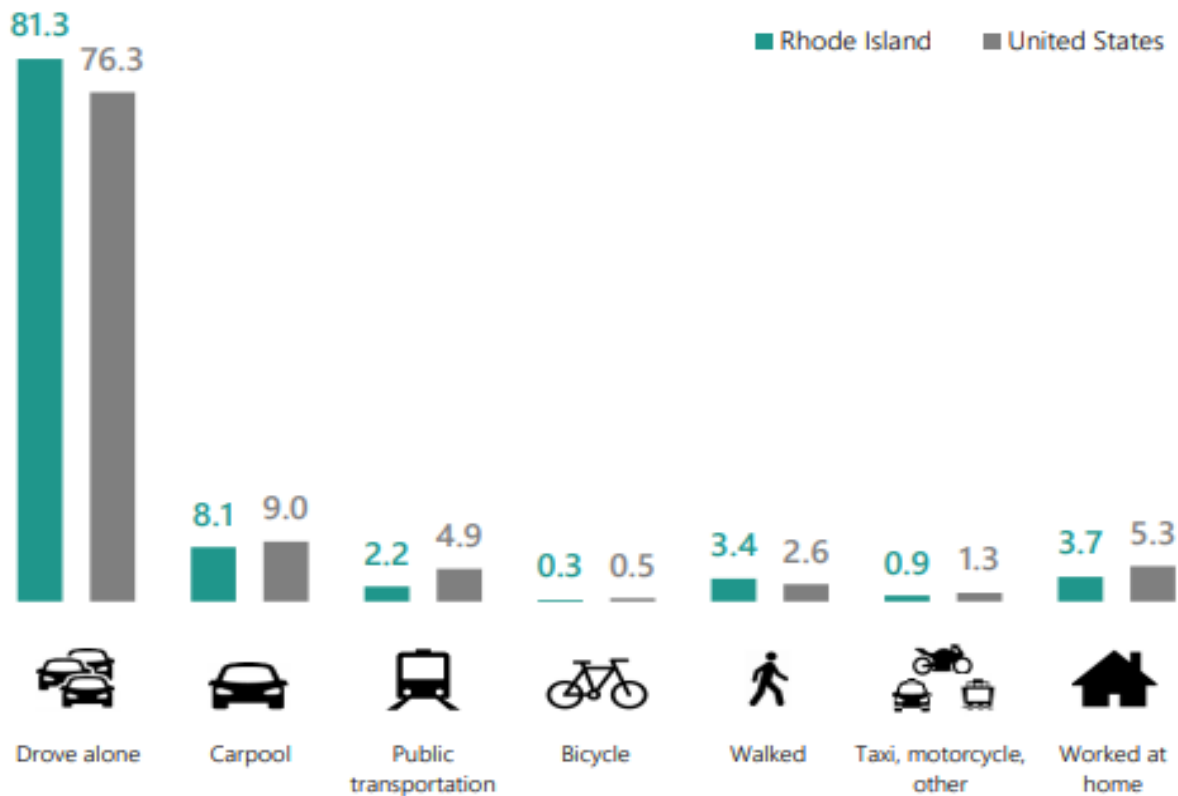
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# Current Mobility Trends

## HOW RESIDENTS GET TO WORK

Percentage of workers over age 16, 2018



Source: [Federal Bureau of Transportation Statistics](https://www.bls.gov/news.release/archives/whs0108.pdf)



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# Clean Mobility Investments



**TCI will significantly cut pollution, while investing in cleaner transportation and healthier communities for all. This program is expected to:**



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# Investments in Your Communities



RIDOT & OER kick off electric vehicle charging station pilot at Park and Ride Lots in Warwick and Hopkinton



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# TCI Investments-ZEV

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Fund and Update DRIVE Rebate Program for Electric Vehicles:

- Institute MSRP Cap for Rebate Eligibility
- Add incentives for used EV purchases
- Allocate portion of incentives for underserved communities
  - Set asides or bonus incentives for purchasers in Health Equity Zones
- Expand eligibility to E-bikes



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- Leverage Existing National Grid Incentives
- Expand Electrify RI Program
- Prioritize Public Access and Public Properties
  - Beaches, parks, transit hubs, park & rides
  - State offices, higher education facilities

A small inset map of Rhode Island is located in the bottom right corner of the slide. It shows the state's coastline and major roads. Several green location pins are placed on the map, indicating specific locations of interest. The pins are clustered in the southern and central parts of the state.

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# TCI Investments-Transit

Continue to increase and expandRIPTA service with low- and zero-carbon vehicles, particularly on routes in frontline communities.



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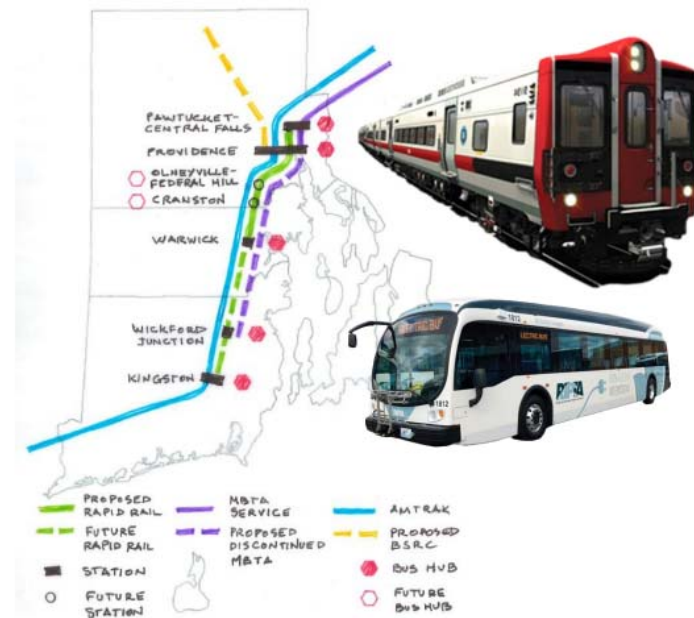


# TCI Investments- Rail

## Expanding Commuter Rail Service Within Rhode Island

- More frequent service
- Additional stations along spine connected as mobility hubs

Rhode Island Rapid Rail





# TCI Investments- Ports and Regulated Ferry Services

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## Electrifying Port & Dock Operations

- Reduce Ship Idling
- Electrify Drayage Vehicles, Cranes, Forklifts, etc.
- Ferry Services
  - Hybrid Ferry Boats Entering Service in Washington State in 2022



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# TCI Investments-Connected Communities

Accelerate investments in complete streets, safe pedestrian and bicycling investments that connect communities.

Statewide Bike Share Connected to Transit/Tourism Hubs



DRAFT Proposed Citywide Urban Trail Network



Citywide Urban Trail Network | PROVIDENCE GREAT STREETS MASTER PLAN DRAFT |



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# RI Groups Working Together on TCI



...And many more! Next Call this Friday April 9<sup>th</sup> at 2pm.  
Email [hwebster@acadiacenter.org](mailto:hwebster@acadiacenter.org) to join.



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# Additional Resources

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- [www.TCI4RI.com](http://www.TCI4RI.com)
- [www.TransportationAndClimate.org](http://www.TransportationAndClimate.org)
- Or, just call or text me anytime!



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