

Rhode Island's State Transportation Improvement Program (STIP) FFY 2022 – 2031 Rewrite





FFY 2022-2031 STIP – Presentation Overview

STIP

- Background
- Program and Financial Analysis
- Performance Management
- Air Quality Conformity Findings
- Transportation Equity Benefit Analysis

STIP Projects

- RIDOT
- RIPTA

STIP Adoption Process - Next Steps

TAC Questions & Discussion

Transportation Planning in Rhode Island

Must be cooperative,
because no single agency is
responsible for the entire
transportation system

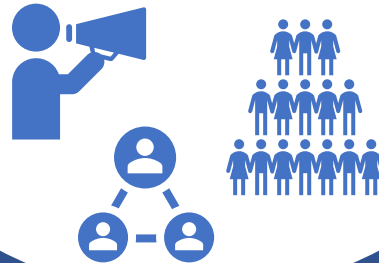


State's Highway network including Bridges, Pavement, Safety, Pedestrian and Bicycle Facilities, Stormwater, Ferry and Rail Transit.



MPO

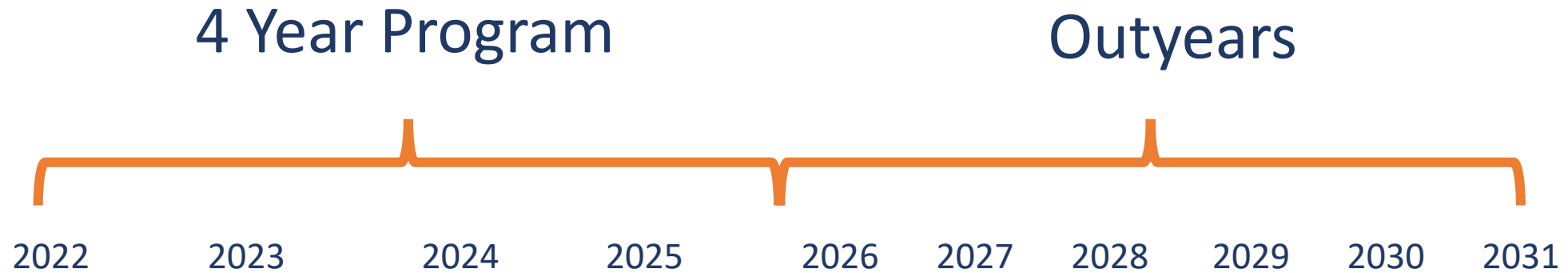
Coordinate and compile program of projects to develop the STIP. Develop the STIP text including program and financial analysis, TEBA, and Air Quality Conformity. Actively seek participation from the public and all relevant stakeholders.



Bus transit, paratransit, flex zone, and commuter services, human services transportation coordination and facilitation of transportation alternatives



STIP FFY 2022-2031 - Timeframe



- Identifies the State's transportation projects and programs for next 10 Federal Fiscal Years (FFY)
- The STIP must be fiscally constrained, meaning cannot spend more on the projects and expenditures than there are funding sources
- Projects in the first 4 years of the STIP (FFY 2022-2025) must identify specific funding sources
- Projects in the last 6 years, or the Outyears (FFY 2026-2031) do not need to identify funding sources, but must reflect reasonably assumed funding levels



MPO Goals & Objectives

Vision

This Plan envisions a multimodal transportation network that connects people, places, and goods in a safe and resilient manner by providing effective and affordable transportation choices that are supportive of healthy communities, provide access to jobs and services, and promote a sustainable and competitive Rhode Island economy.

Goals and Objectives

CONNECT PEOPLE & PLACES

- › Expand connectivity across modes
- › Reduce Travel Congestion
- › Improve regional connectivity

MAINTAIN TRANSPORTATION INFRASTRUCTURE

- › Design roadways to increase transportation choices
- › Achieve a state of good repair
- › Enhance transportation network resilience
- › Enhance transportation safety

STRENGTHEN COMMUNITIES

- › Improve individual and community health
- › Foster social equity
- › Encourage connected communities

PROMOTE ENVIRONMENTAL SUSTAINABILITY

- › Reduce vehicle miles traveled
- › Reduce transportation greenhouse gas emissions
- › Create a network of open space, trails, and paths

SUPPORT ECONOMIC GROWTH

- › Expand connections to jobs
- › Improve freight connectivity access to national/global freight markets
- › Make transportation investments supportive of tourism



STIP Priority Areas

Asset Management
/ State of Good
Repair

Congestion
Management &
Traffic Alleviation

Improve
Connectivity

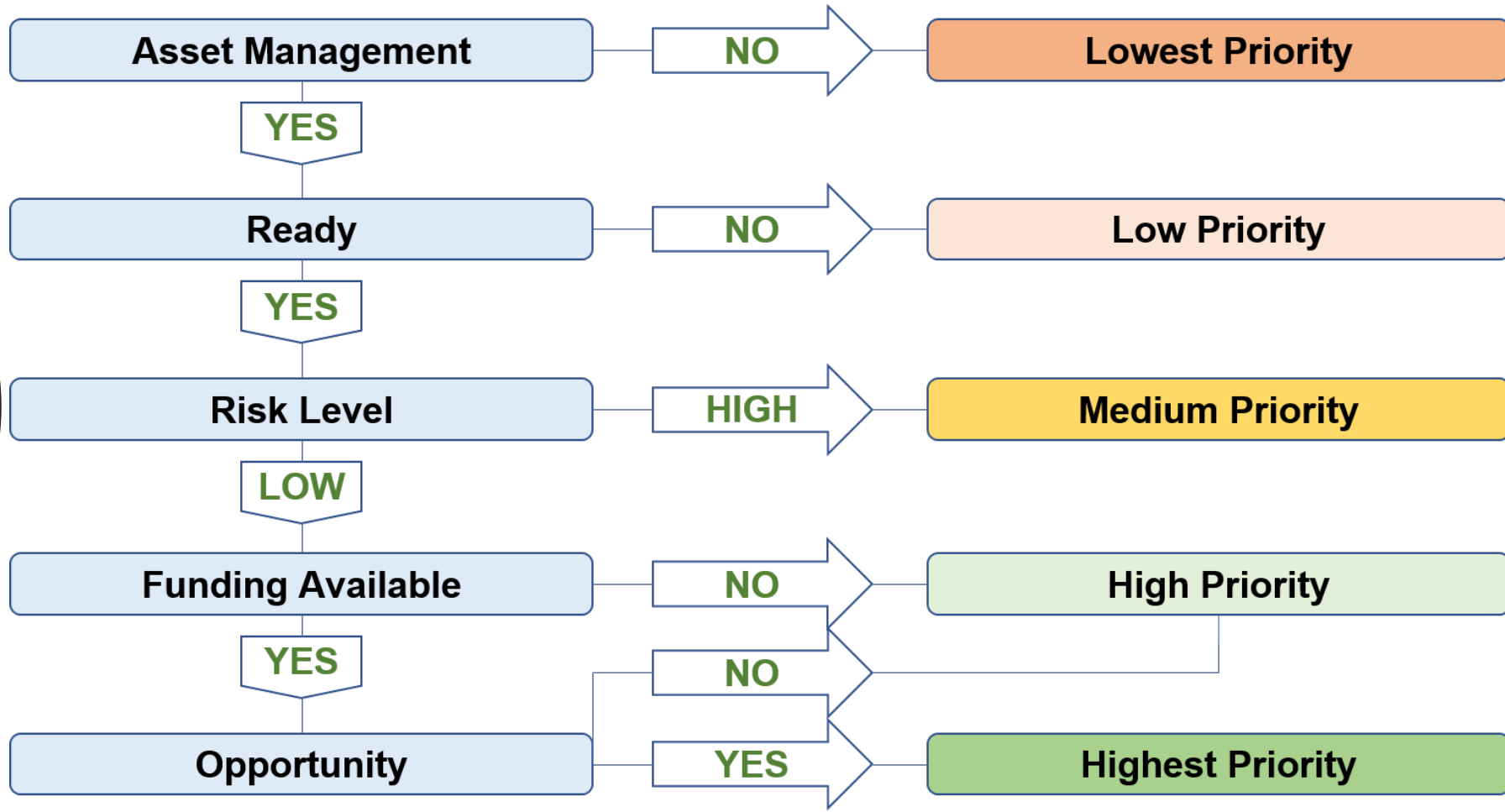
Expand
Transportation
Options

Multimodal
Transportation
Safety

Future Potential
Projects – Study &
Development

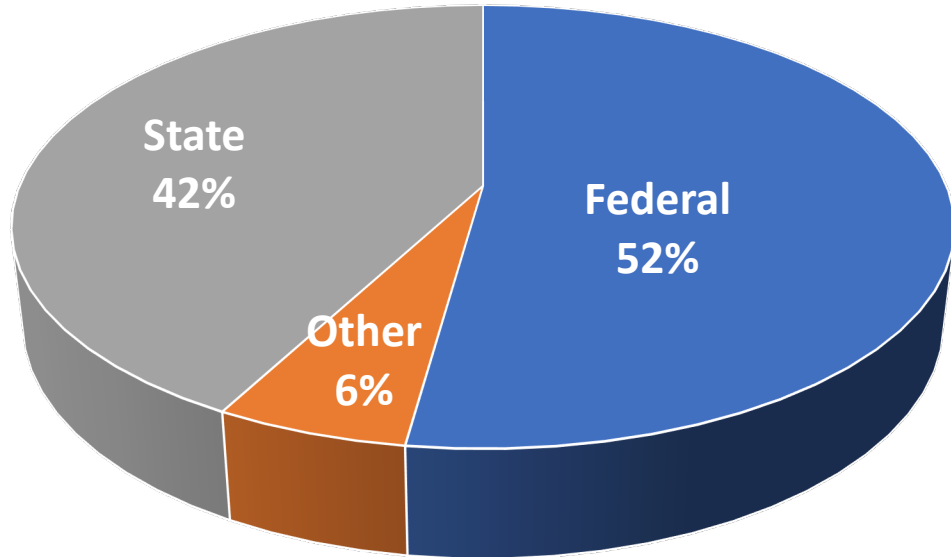


Putting the
STIP
Together

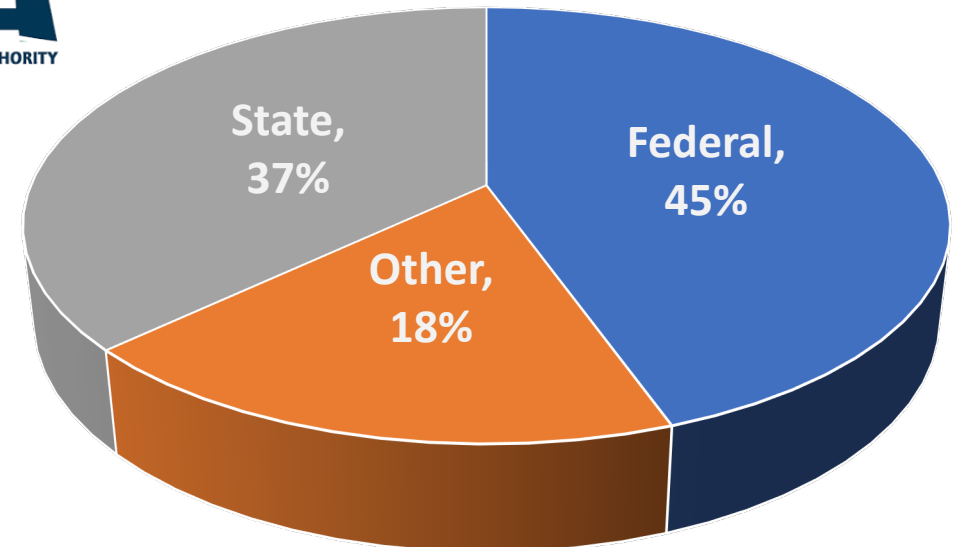
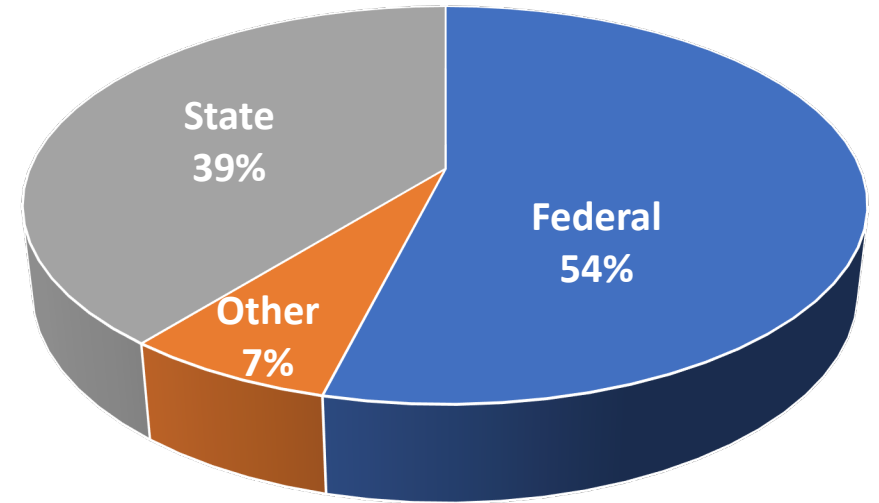


FFY 2022-2025 STIP Funding Sources

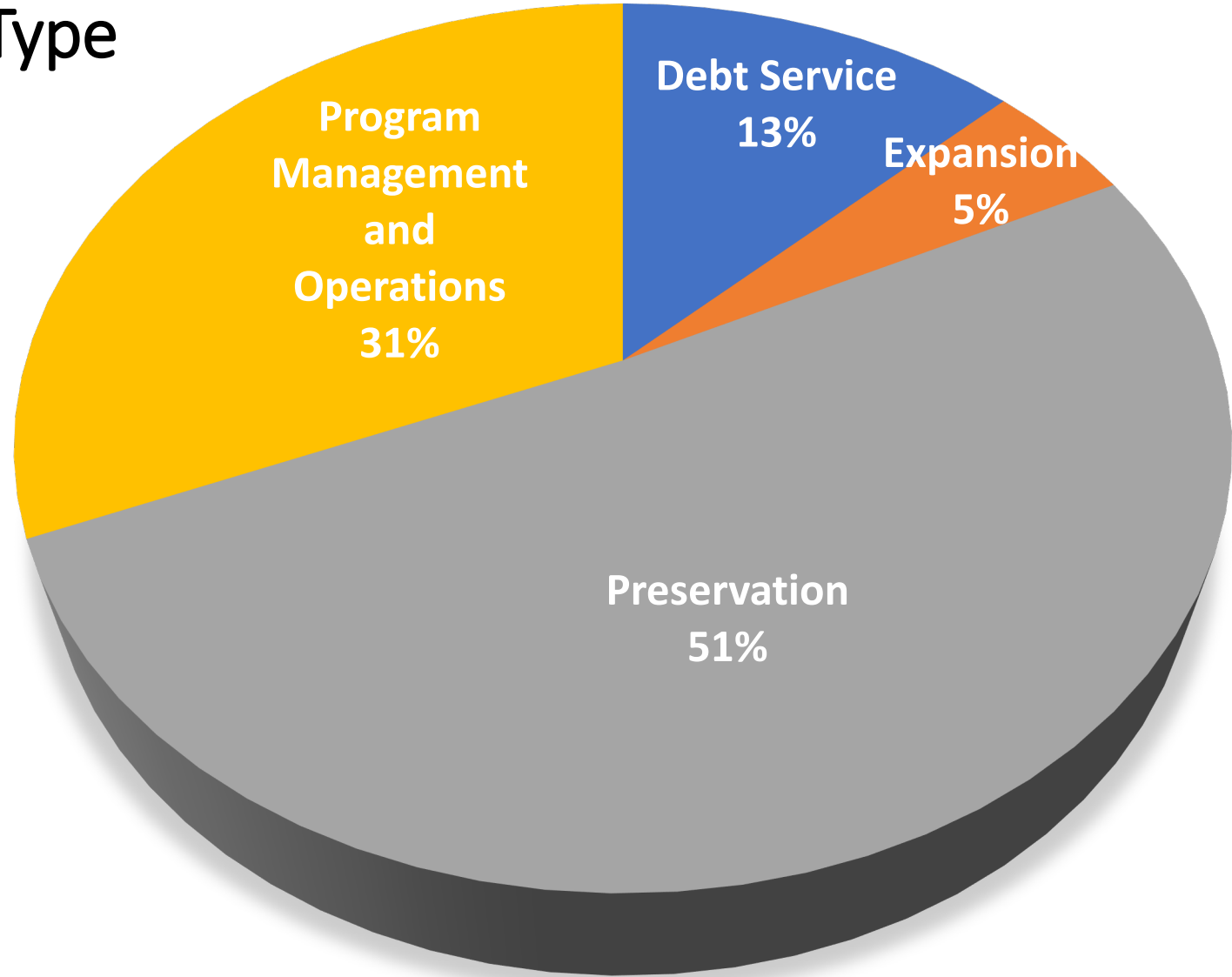
STIP Overall
for RI



Federal - \$1.85 billion
State - \$1.49 billion
Other Non-highway- \$199 million
Total = \$3.55 billion

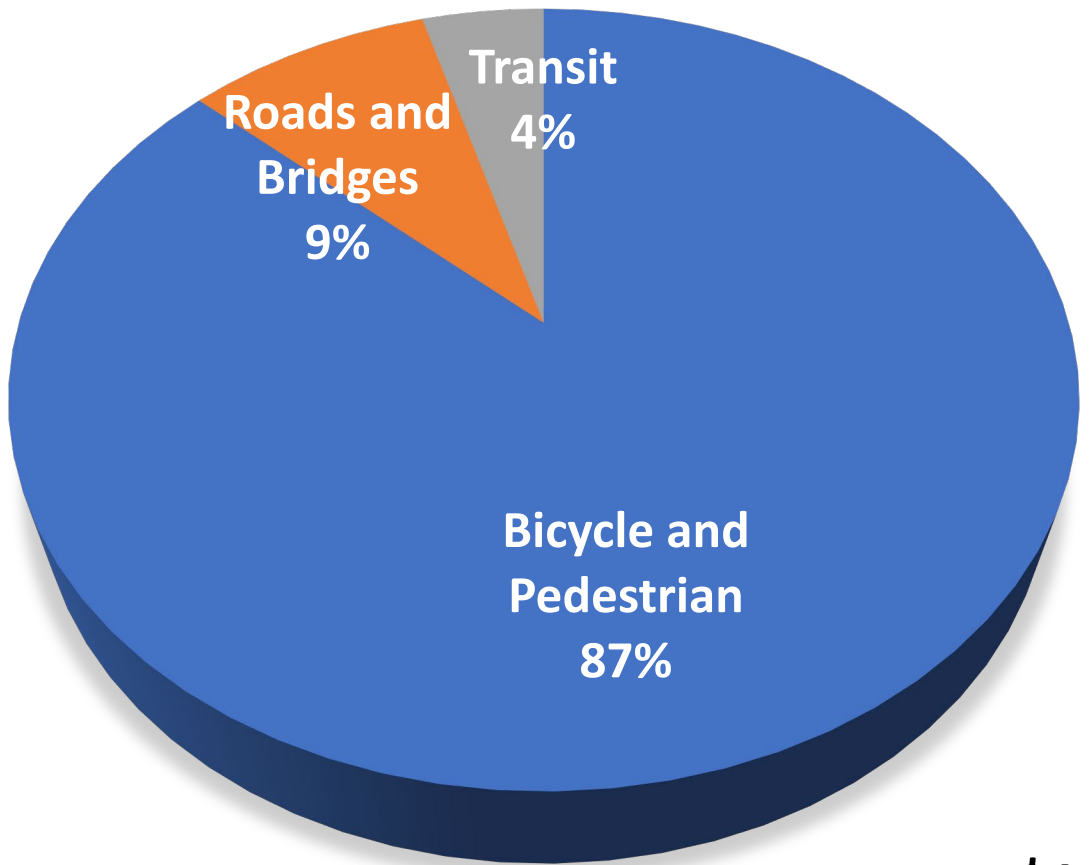


FFY 2022-2025 STIP Spending by Investment Type



FFY 2022-2025 STIP System Expansion by Mode

Number of Projects

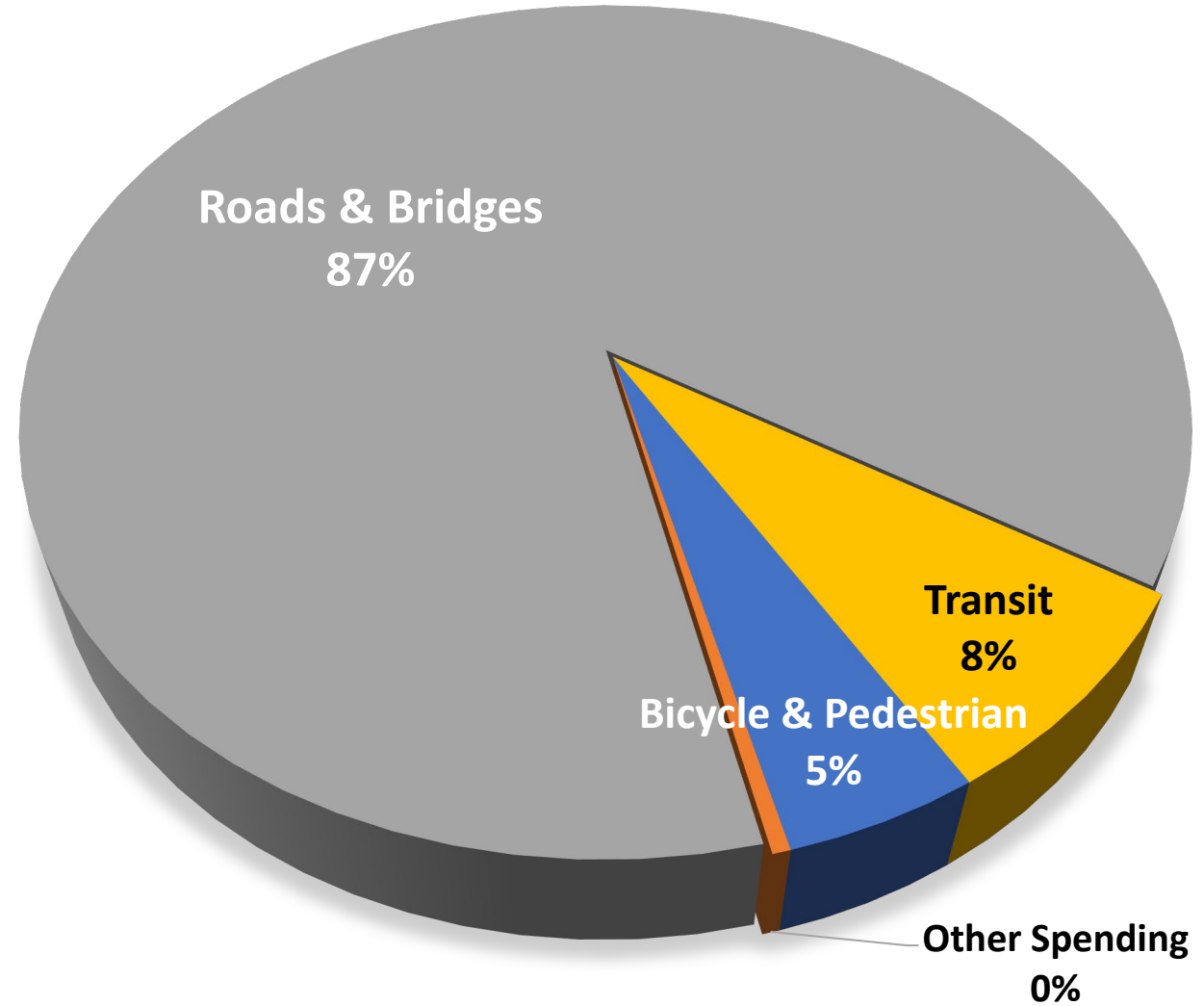


Roads & Bridges System Expansion

1. Atwood Ave., Cranston - Pavement Reconstruction and New Sidewalks
2. Oaklawn Ave., Pavement Reconstruction and New Sidewalks
3. I-295 Major Rehab and Adding Auxiliary Travel Lane in Cranston Canyon
4. I-95 / RT. 4 Missing Move

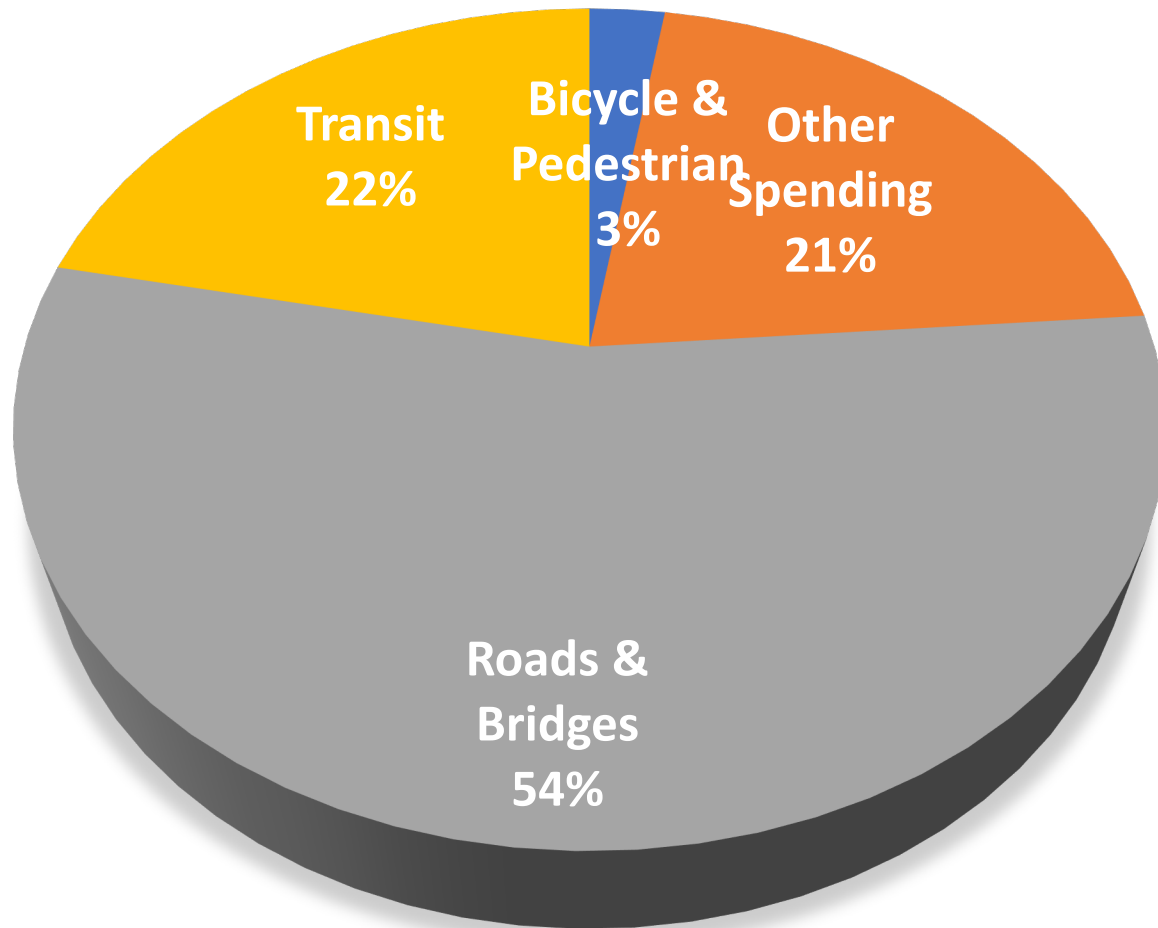
**\$168 million in
System Expansion Projects**

FFY 2022-2025 STIP Capital Project Spending by Mode

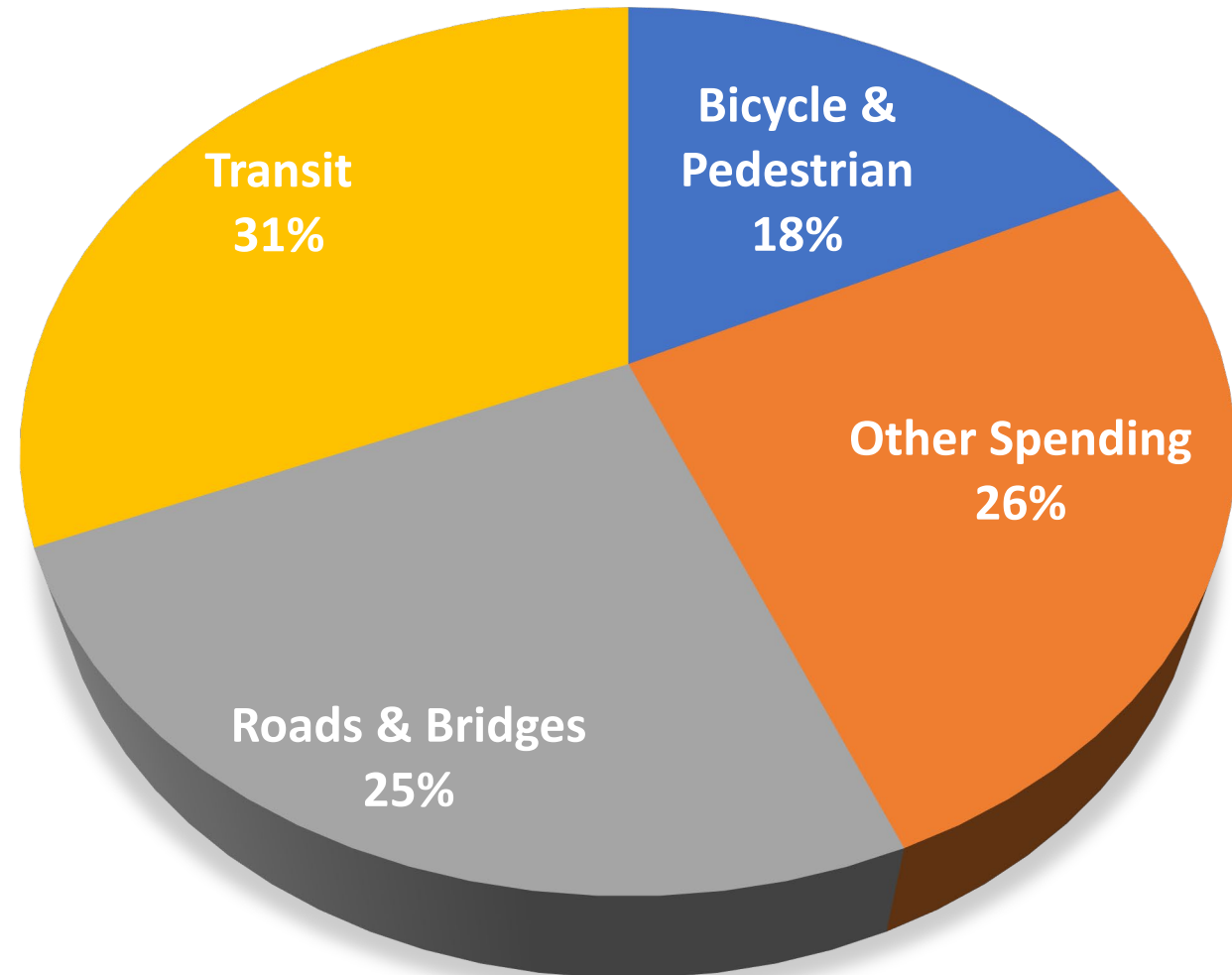


FFY 2022-2025 STIP Spending by Mode

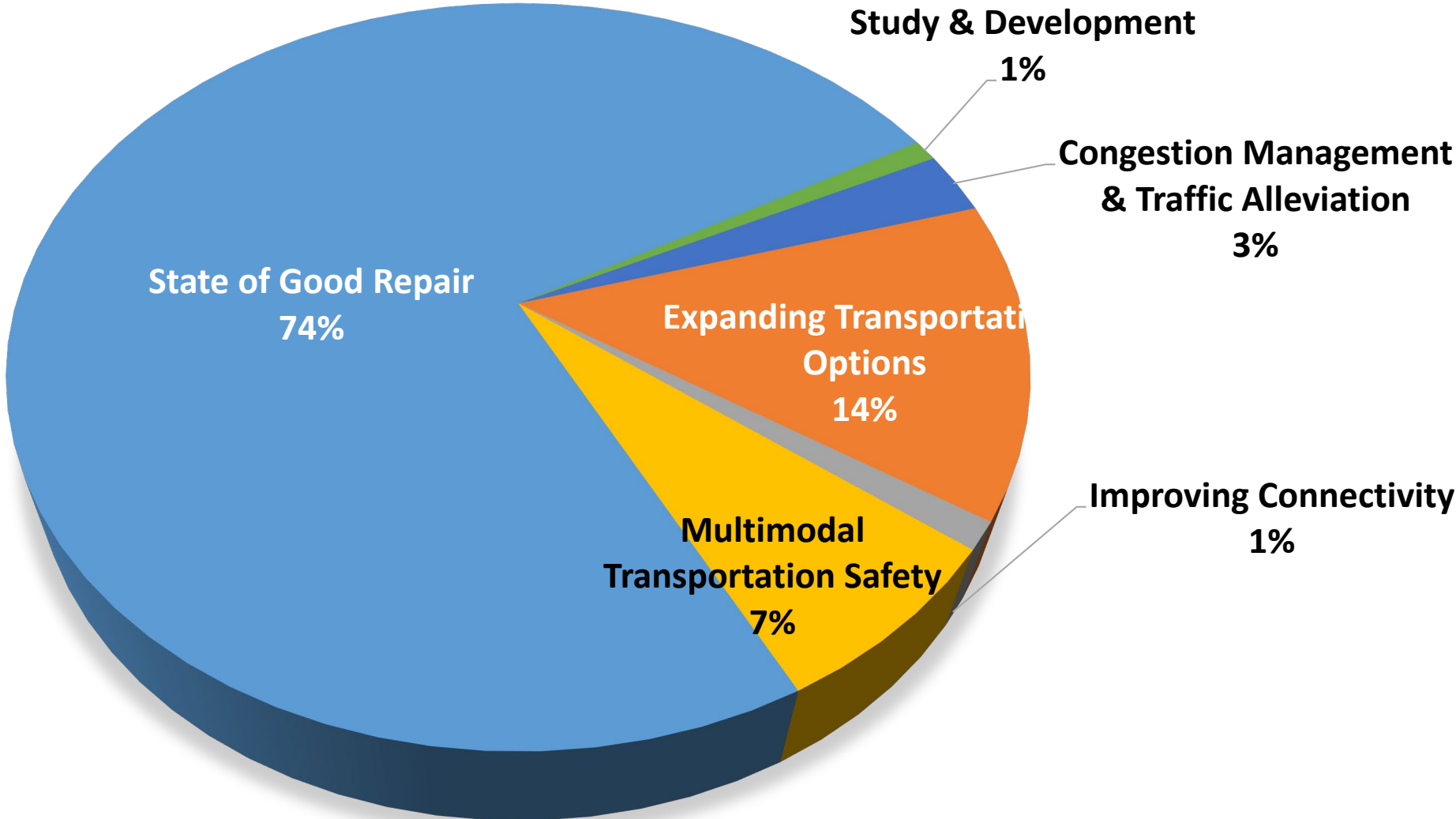
Primary Mode



Secondary Mode



FFY 2022-2025 STIP Spending by Priority Area



FFY 2022-2031 STIP Projects by the Numbers



Addressing Safety

- Fix **391** number of Bridge Structures
- **106** miles of sidewalks
- **404** miles of pavement
- **31** intersection improvements
- **77** Safety Improvements in **27** municipalities (and counting)



Adding Capacity and Access

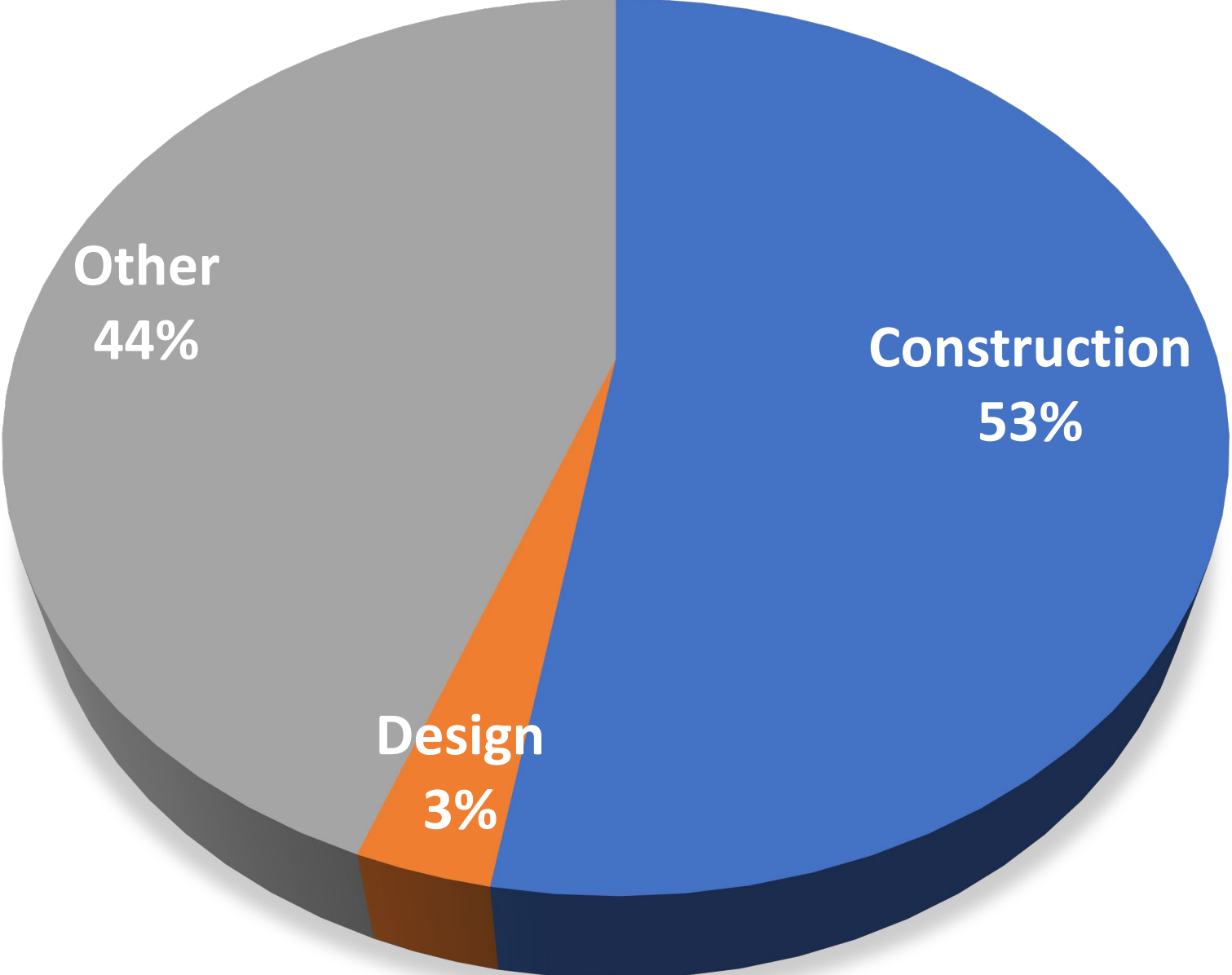
- **14** miles to the sidewalk network
- **54** projects improve intermodal connections or access to transit



Geographic Distribution

County	Project Count
Bristol	17
Kent	48
Newport	37
Providence	159
Washington	58

FFY 2022-2025 STIP
Spending by Phase
RIDOT Program



Guide to the FFY 2022-2031 STIP Project Tables - Sample Project Listing

EXAMPLE

STIP Tables

STIP Program Name: **RIDOT Major Capital Projects Program**

STIP Project ID (number is unique to each project): **TIP ID: 3007** **PTSIDs: 2603M**

Project Name: **Project Name: Bridge Group 04_R--Huntington Viaduct** **Responsible Agency: RIDOT**

Municipalities where the project is located: **MUNICIPALITIES: Cranston, Providence**

Project description: **DESCRIPTION: Bridge #065801: Fill in and replace with an embankment or concrete arch; Bridge #066001: Replace superstructure, eliminate end spans, and rehabilitate center pier. Bridge #066201: Major rehabilitation, partial deck replacement. Bridge #066501: Major rehabilitation, some deck replacement over highway portion, rehabilitate substructure, additional strengthening, steel repairs, and replace superstructure over railroad. Bridge #066701: Deck over backwall, repaint, repairs to steel, concrete, and deck. Bridge #066301: Preservation, partial deck replacement.**

Federal Fiscal Year

DESIGN		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
Funding source	Funding											
	2020 Bridge	\$2.400	-	-	-	-	-	-	-	-	-	\$2.400
	RIDOT	\$0.600	-	-	-	-	-	-	-	-	-	\$0.600
	RIHMA											
	SUBTOTAL	\$3.000	-	-	-	-	-	-	-	-	-	\$3.000

Funds in millions by project phase

CONSTRUCTION		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
Project phase	Funding											
	2020 Bridge	-	\$12.000	-	-	-	-	-	-	-	-	\$12.000
	2021 Bridge	-	-	\$20.000	-	-	-	-	-	-	-	\$20.000
	OutYear	-	-	-	-	\$20.000	-	-	-	-	-	\$20.000
	RIDOT	-	\$3.000	\$5.000	\$5.000	-	-	-	-	-	-	\$13.000
	RIHMA	-	-	-	-	-	-	-	-	-	-	-
	STBG	-	-	-	\$20.000	-	-	-	-	-	-	\$20.000
	SUBTOTAL	-	\$15.000	\$25.000	\$25.000	\$20.000	-	-	-	-	-	\$85.000

OutYear funding FFY 2026-2031

OTHER		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	TOTAL
	Funding											
	OutYear	-	-	-	-	-	\$2.500	\$2.500	-	-	-	\$5.000
	SUBTOTAL	-	-	-	-	-	\$2.500	\$2.500	-	-	-	\$5.000
	TOTAL	\$3.000	\$15.000	\$25.000	\$25.000	\$20.000	\$2.500	\$2.500	-	-	-	\$93.000

Municipality location of asset

ASSETS WITHIN Bridge Group 04_R--Huntington Viaduct								Asset Treatment	Sea Level Rise vulnerability
Asset Type	Asset ID	Asset Name	Facility Carried	Municipality	Treatment	SLR			
Bridge	066701	Elmwood Ave South	RI 10 HUNTINGTN EXP	Providence	Preservation	No			
Bridge	066501	Huntington Viaduct	RI 10 HUNTINGTN EXP	Cranston	Major Rehab	No			
Bridge	065801	Narragansett Electric Co	I-95 NB & SB	Providence	Removal	No			
Bridge	066301	Ramp B-EL	I-95 RAMP B-EL	Cranston	Minor Rehab	No			
Bridge	066201	Ramp CB	I-95 RAMP CB	Cranston	Major Rehab	No			
Bridge	066001	West Elmwood RR	I-95 NB & SB	Providence	Replace	No			

Individual assets the comprise the project

Unique asset ID number

Amendment Version: **28** Date Published: **06/08/2021**

Amendment Version Individual asset name Facility carried (typically a roadway) Date this project table was published

STIP Online Project Mapping Application

FFY2022-2031 STIP Project Dashboard

Select Your Town:

Showing 1

Asset Information

TIP ID	1,300
Asset Type	Sidewalk
Asset ID	SDW_41
Asset Name	SDW RI-114N Hope St (Washington St. to Donna Ct.)
Facility Carried	RI-114N
Municipality	Bristol
Asset Treatment	Rehabilitation

Infrastructure Improvements Coming to Your Town

- Pavement: RI-136, Metacom Ave. (Chestnut St. to Warren T/L)
- Pavement: RI-114, Wood St. to Constitution St.
- Sidewalk: SDW RI-114N Hope St (Washington St. to Donna Ct.)**
- Sidewalk: SDW RI-114S Hope St (N Farm Dr. to Washington St.)
- Sidewalk: SDW SPC Hope St S (Constitution to Union)

Last update: a few seconds ago

Project Information

STIP Program	Active Transportation Program
TIP ID	1300
Project Name	Hope and Main Street Sidewalks - Phase 1 (Washington St. to Dyer St.)
Project Description	This project will repair and replace sidewalks along RI-114 from Washington Street to Dyer Street in Bristol and Warren. This project will be coordinated with TIPID 1299, Hope Street and Ferry Road Resurfacing and Sidewalks - Phase 2.

Last update: a few seconds ago

FFY 2022-2025 STIP Performance Management

Goal Area	Measures	Duration	Status
Highway Safety	Fatalities, Serious Injuries	Annual	Annual
Pavement & Bridge	Good and Poor Condition	2- and 4- years	Mid-Period
System Performance and Freight	Interstate, Non-Interstate, Truck Travel	2- and 4- years	Mid-Period
Congestion Mitigation and Air Quality	Not applicable	Not applicable	Not applicable
Transit Safety	Fatalities, Injuries, Safety Events, Mechanical Failures	Annual	Annual
Transit Asset Management	Rolling Stock, Equipment, Facilities, Infrastructure	2- and 4- years	Mid-Period

Performance Measures



Performance Assessment

FFY 2022-2025 STIP

Transportation Conformity

- Section 6 of the STIP includes a preliminary determination of transportation conformity in accordance with Clean Air Act
- Rhode Island is currently in attainment for the six criteria pollutants including CO, Ozone, PM2.5, PM10, NOx, and VOCs under all 1- and 8-hour standards
- Preliminary Transportation Conformity determination based on 1) 40 CFR 93.109(c), 2) application of Transportation Control Measures in SIP, 3) Interagency Consultation, and 4) Fiscal Constraint.
- Section 4 details Regionally Significant Projects > 11 Highway Projects > 3 Passenger Rail Projects > 3 Bus Transit Projects.

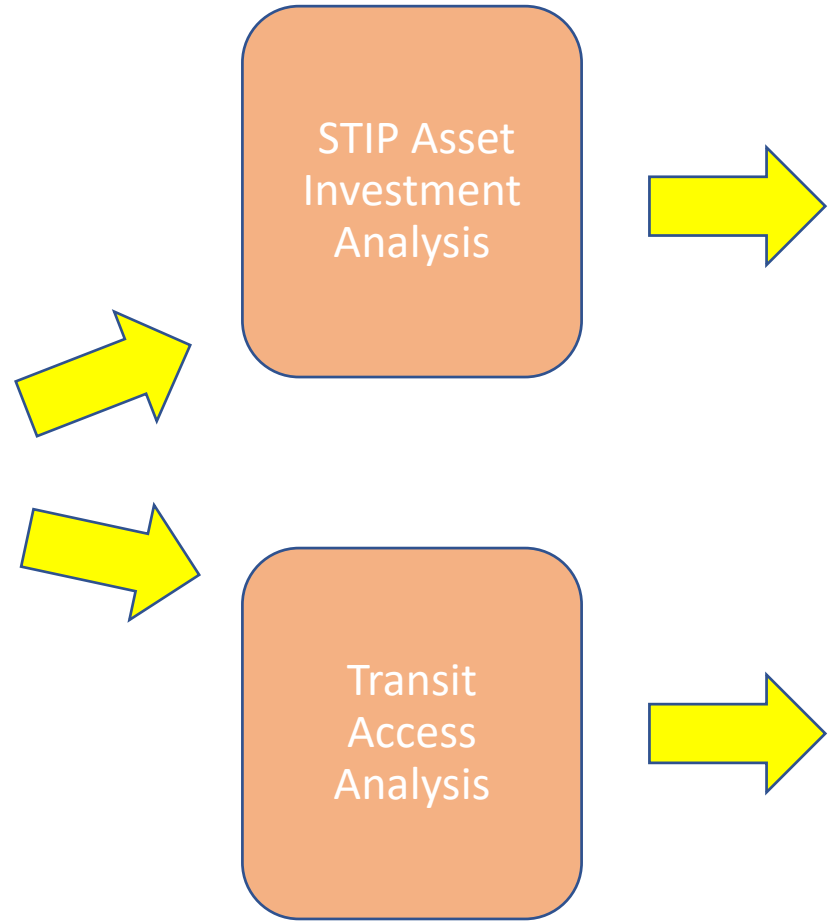


FFY 2022-2025 STIP Transportation Equity Benefit Analysis (TEBA)

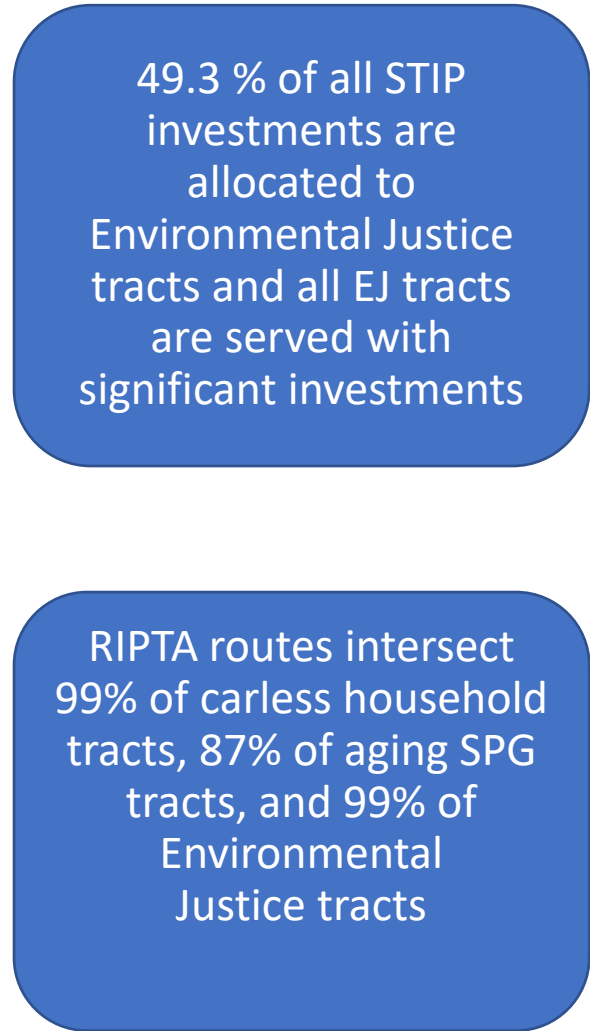
Research



Analysis



Findings





RIDOT Projects in the FFY2022-2031 State Transportation Improvement Program (STIP)

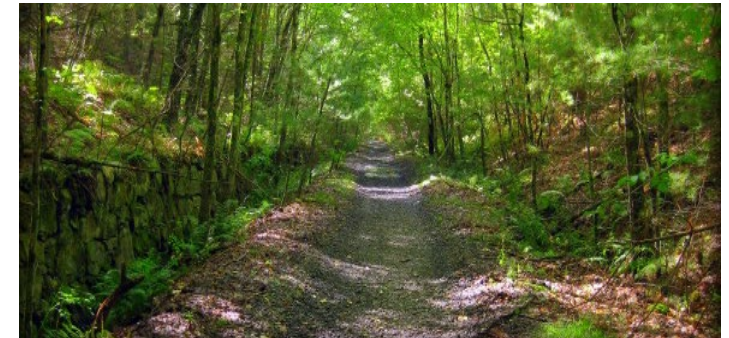
State Planning Council — June 10, 2021

Pamela Cotter, RIDOT



Active Transportation Program

- **TIPID 1300 – Hope and Main Street Sidewalks – Phase 1**
 - Repair sidewalks, other ADA improvements
 - Invest in Revolutionary Heritage Byway
 - \$9M beginning in 2023
- **TIPID 5107 – Bellevue Avenue ADA Sidewalk / Access Improvements**
 - Sidewalk repair and replacement, ADA accessibility improvements
 - Improve walkability near retail and dining, Newport Mansions
 - \$11.5M beginning in 2025
- **TIPID 9002 – Trestle Trail – West Section - Paving**
 - 5 miles of new bike path from the CT state line to Old Summit Rd.
 - Commitment to RI's component of the East Coast Greenway
 - \$5.5M beginning in 2027



Pavement Program

- **TIPID 9536 – RI-117, Centerville Road (Quaker Lane to I-95 SB Ramp)**
 - 1.2 miles of resurfacing with new sidewalks
 - Access for schools, retail, recreation centers
 - \$7.5M beginning in 2022
- **TIPID 1298 – RI-103, Willett Ave (Bullocks Point Ave. to Wampanoag Trail)**
 - Full roadway resurfacing from Providence River to Barrington River
 - Sidewalk repairs and extension, ADA ramps
 - \$9M beginning in 2023
- **TIPID 1329 – RI-94, Reynolds Rd. (Foster T/L to US-44)**
 - Reclaim 5½ miles of roadway
 - Improve access to FM Global Research Campus
 - \$6.4M beginning in 2024



- **TIPID 9994 - Bridge Group 47_R -- Pawtucket/Central Falls Amtrak Bridges**

- Rehabilitate or replace five bridges spanning Amtrak's Northeast Corridor
- Maintain links to transit, freight connections in Pawtucket and Central Falls
- \$29M beginning in 2023



- **TIPID 3231 - Bridge Group 24C_H -- Ashton Viaduct**

- Rehabilitate historic bridge, including 50,000 square feet of deck area
- Preserve Kelly House bridge link to Blackstone River Bikeway
- \$27M beginning in 2025



- **TIPID 3207 – Corridor - Woonsocket**

- Preserve and rehab 8 bridges and culverts
- Resurface 1.2 miles of roadway
- Repair / replace 100,000 square feet of sidewalk
- \$16M beginning in 2023



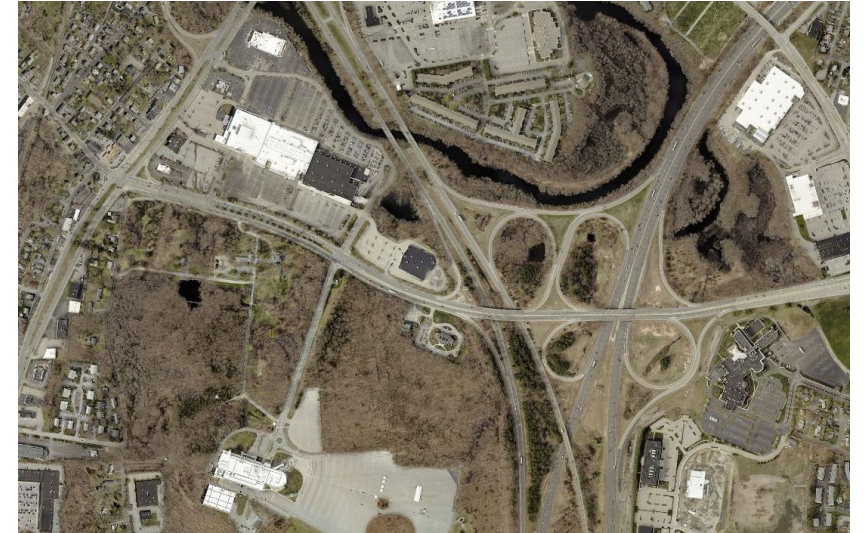
- **TIPID 3346 – Corridor – Saylesville**

- Rehab or replace of 6 bridges, including 2 historic structures
- Resurface 4.5 miles of road
- Repair / replace 110,000 square feet of sidewalk
- \$12.5M beginning in 2025



- **TIPID 9998 – Bridge Group 97 – East Avenue Corridor**
 - Rehab and replace 50,000 sq ft of bridge deck area
 - Resurfacing, Active Transportation, transit and safety improvements
 - \$27.8M beginning in 2023

- **TIPID 9999 - Bridge Group 16D – Route 6 Corridor Improvements**
 - Rehab 3 bridges, safety improvements, 5¼ miles resurfacing
 - Complete link between I-295 and new 6/10 Connector
 - \$23M beginning in 2022



Thank You



Pamela Cotter
Policy Director
RIDOT



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TIP Program FFY 2022-2031: RIPTA Project Highlights

State Planning Council : June 10, 2021

Fleet replacement: The new diesels

- RIPTA's 2020 Gillig diesel buses are more than 50% less polluting than 2005 fleet and are more fuel efficient



17 additional ZEVs slated for delivery in 2022

Electric bus facts:

- Current range is roughly 140 miles per charge vs. 400 miles per diesel tank
- On-route chargers coming soon
- Technology continuing to evolve and improve



TIP ID 7010 - Preventative Maintenance

RIPTA employs 43 mechanics

- Working three shifts daily, including weekends and holidays
- Nearly 900,000 hours of maintenance service over ten years



TIP ID 7019 - East Side Bus Tunnel

In an average month, RIPTA buses make **6,982 trips** the bus tunnel, covering a total of **2,883 miles**



TIP ID 7023 - Vanpool Program

ANNUAL ENVIRONMENTAL IMPACT

COMMUTER MILES
REDUCED



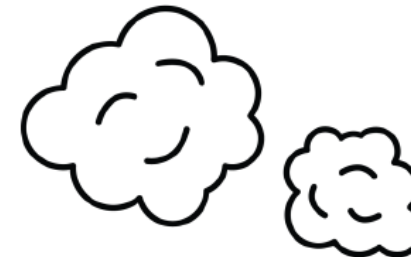
2,108,581

TOTAL TRIPS ELIMINATED



50,619

CO2 EMISSIONS
REDUCED (LBS)



1,626,128

FY 2020 Annual Report

Ongoing service planning and scheduling as well as Transit Master Plan implementation:

- West Bay service changes – public hearings next month
- Light Rail and/or Bus Rapid Transit – RAISE grant proposal



The Path Forward FFY 2022-2031 STIP Adoption Schedule

Milestone	Public Notice (Mail, Web)	Transportation Advisory Committee (TAC)	State Planning Council (SPC)
Draft STIP Presented & Request to Authorize Public Hearing	-	May 27	June 10
Public Comment Period / Public Hearing	June 10 – July 12	June 29 & 30	-
Public Comment Report Presented / Draft STIP	-	July 22	August 12
Final STIP Presented / Adopted	-	August 26	September 9
Forwarded to Governor, then FHWA/FTA for final Approval	<u>DEADLINE FOR APPROVAL: September 30, 2021</u>		



