

# **FY 18 UNIFIED TRANSPORTATION PLANNING WORK PROGRAM**

**July 2017 - June 2018**

**Quarter 2 Report  
October 1, 2017 – December 31, 2017**

**Rhode Island Department of Administration  
Division of Statewide Planning  
One Capitol Hill Providence, RI 02908-5870**

## **PART I - PROJECT STATUS REPORTS**

The following provides a progress report for all projects contained in the Metropolitan Planning Organization's current work program. In addition to the original information included in the work program's project description sheets - project title, Program area/task, project manager and supporting staff, project overview, project management benchmarks by quarter (beginning with July 2017), anticipated products and funding exclusive of personnel and operating costs – sections have been added to show the actual work that took place in Quarter 2 as well as an explanation of any associated project delays where applicable. Project Description sheets are organized and numbered in accordance with their associated task from Section IV of the FY 18 Work Program (see below).

### **Program Area 4 – Transportation Improvement Program (TIP)**

- Project 4.1 – TIP Process and Database Enhancements

### **Program Area 5 – State and Regional Transportation Planning Coordination**

- Project 5.1 – Metropolitan Planning Process Tri-Party Agreement

### **Program Area 6 – Transit Planning**

- Project 6.1 – Transit Master Plan
- Project 6.2 – Human Services Coordinated Plan Development

### **Program Area 8 – Transportation Planning for Economic Development**

- Project 8.1 – Zoning for Economic Development / Implementing LEAN
- Project 8.2 – Addressing Active Transportation Issues to Stimulate Local Economies
- Project 8.3 – Pawtucket-Central Falls Rail Station Multi-Modal Access Plan
- Project 8.4 – Transportation Improvement Districts

### **Program Area 9 – Climate Change Resiliency, Adaptation, and Mitigation**

- Project 9.1 – Transportation Climate Change and Resiliency Synthesis
- Project 9.2 – Assessing Economic Infrastructure Vulnerability to Natural Hazards and Climate Change

### **Program Area 10 – Long-Range Planning**

- Project 10.1 – Long-Range Transportation Plan
- Project 10.2 – Bicycle Mobility Plan
- Project 10.3 – State Conservation and Outdoor Recreation Plan
- Project 10.4 – Pastore Center Master Plan
- Project 10.5 – State Airport Systems Plan

### **Program Area 12 – Transportation and Land Use Coordination Technical Assistance**

- Project 12.1 – Rhode Island Land Use Training Collaborative

### **Program Area 13 – Data Management, Coordination, and Delivery**

- Project 13.1 – Sustaining and Enhancing Access to the RIGIS Geospatial Database
- Project 13.2 – Advanced Continuously Operating Reference Network (ACORN)

### **Program Area 14 – Data Development and Analysis**

- Project 14.1 – Travel Demand Model Update and Maintenance
- Project 14.2 – Drones for Project Surveys and Mapping

## **Project 4.1 TIP Process and Database Enhancements**

**Program Area:** Transportation Improvement Program

**Project Manager:** Statewide Planning: Linsey Callaghan

**Supporting Staff:** Statewide Planning: Michael D'Alessandro and Christina Delage Baza; RIDOT: Michael Gannon, Colin Franco, and Steve Kut; RIPTA: Amy Pettine

**Project Overview:** This project is intended to identify the best tools and process for updating the ten-year TIP and to improve the overall functionality and user-friendly interface of the TIP database. Research will entail site visit and peer-to-peer workshops to one or more states with ten-year TIPs and a review of available software for data updates, project submission, public outreach, and other process components.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Assemble an evaluation team / working group
- Determine the number and locations of site visits
- Schedule site visit(s)

#### **Quarter 1 Actual**

- Assemble an evaluation team/working group
- Developed a preliminary list of desired functionality for software platform
- No further progress has been made due to staffing shortages and their work on the development of the FFY 2018-2027 STIP.

#### **Quarter 2**

- Synthesize results and prepare preliminary report
- Convene stakeholders to review results and make recommendations
- Develop and advertise RFP for software/platform

#### **Quarter 2 Actual**

- Discussed and confirmed with FHWA that there is funding to conduct a peer exchange to help determine procurement of TIP software package.
- Identified five MPOs and DOT to participate in the exchange.
- Made initial contact with the MPOs and DOT requesting to participate in the exchange.
- No further progress has been made due to staffing shortages and their work on the development of the FFY 2018-2027 STIP.

#### **Quarter 3**

- Issue RFP
- Review proposals
- Select and purchase software/system

#### **Quarter 4**

- Implement software/system
  - Institute appropriate database integrity security measures
  - Identify and remedy any glitches in database software or application
- Schedule and hold training workshop(s) for appropriate agencies as well as municipalities

**Products:**

- Improved TIP update process, including potential public facing software and reliable software to eliminate manual components of process

**Project Cost** (other than staff time): \$140,000 (\$112,000 FHWA; \$28,000 RIDOT)

## **Project 5.1 Metropolitan Planning Process Tri-Party Agreement**

**Program Area:** State and Regional Transportation Planning Coordination

**Project Manager:** Statewide Planning: Paul DiGiuseppe

**Supporting Staff:** RIDOT: Meredith Brady; RIPTA: Amy Pettine

**Project Overview:** The Rhode Island Metropolitan Planning Organization, RIDOT, and RIPTA are responsible for maintaining a continuing, cooperative, and comprehensive transportation planning process. A single agreement outlining the roles and responsibilities of each organization in carrying out the metropolitan planning process will serve as the clearest way to articulate each agency's diverse function.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Convene RIPTA and RIDOT to agree to scope of the agreement
- Draft outline of agreement

#### Quarter 1 Actual

- Parties reconvened and agreed upon the scope of the agreement
- A revised draft has been circulated to all parties for completion of the roles and responsibilities

#### **Quarter 2**

- Add detailed roles and responsibilities for each organization
- Meet regularly to discuss content

#### Quarter 2 Actual

- Parties continued to meet to discuss scope of agreement
- Revisions to draft are still being made

#### **Quarter 3**

- Continue to add detailed roles and responsibilities for each organization
- Continue to meet regularly to discuss content

#### **Quarter 4**

- Present draft agreement to Transportation Advisory Committee and State Planning Council for approval
- Sign agreement with RIDOT and RIPTA

#### **Products:**

- Consolidated Tri-Party Agreement for Metropolitan Transportation Planning

**Project Cost** (other than staff time): None

## **Project 6.1 Transit Master Plan**

**Program Area:** Transit Planning

**Project Manager:** Statewide Planning: Nancy Hess; RIPTA: Amy Pettine

**Supporting Staff:** Statewide Planning: Paul DiGiuseppe, Parag Agrawal, Lindsey Langenburg and Michael D'Alessandro; RIPTA: Greg Nordin and Sarah Ingle; RIDOT: Andy Koziol

**Project Overview:** The purpose of the Transit Master Plan will be to identify opportunities for transit network efficiencies, enhancement, and expansion, resulting in a list of clearly identified operational and capital transit projects to be implemented in the coming 5-20 years. The Transit Master Plan will involve significant public participation and analysis of ridership trends and development potential in order to create a clear direction for the growth of transit ridership in Rhode Island. Multiple modes will be evaluated, including bus, BRT, rail, ferry, and emerging alternatives, to determine those that best meet identified public transportation needs and build a culture of transit.

Funding opportunities such as Small Starts, New Starts, and statewide bond issuance will be identified for each project in the plan. Public-private partnerships, innovative funding strategies, and alternative service delivery models will be considered and, as with mode options, will be evaluated based on best fit and potential return on investment.

This project is distinct from the Long-Range Transportation Plan in that it specifically focuses on transit investment, establishing a work program for RIPTA and RIDOT's Office of Transit to pursue. The planning process will address Rhode Island's existing organizational structure governing transit planning, development, and operations, and will result in recommendations regarding clarity of roles and best options to ensure efficient project delivery and maintenance.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Form working group comprised of Statewide Planning, RIPTA, and RIDOT
- Conduct data collection and analysis
- Prepare scope of work and advertise RFP

#### **Quarter 1 Actual**

- A working group has been formed and a draft scope of work has been developed. Discussions are currently being held with RIPTA and RIDOT regarding how to best handle the contract moving forward.

#### **Quarter 2**

- Award contract and hold project kick-off
- Continue working group meetings
- Initiate preparation of draft study

#### **Quarter 2 Actual**

- Contract and scope have been largely finalized. RIPTA will work with Nelson\Nygaard consulting to begin the study in earnest in 2018.

#### **Quarter 3**

- Initiate study

#### **Quarter 4**

- Conduct public outreach

### **FY 19 Tasks by Quarter:**

#### **Quarter 1**

- Conduct stakeholder outreach

**Quarter 2**

- Evaluate alternatives
- Begin drafting report

**Quarter 3**

- Review draft study and implementation plan

**Quarter 4**

- Present to TAC
- Complete final report

**Products:**

- Transit Master Plan

**Project Cost** (other than staff time): \$600,000 (\$354,740 FTA; FHWA \$94,260; \$20,000 RIPTA; RIDOT \$131,000)

## **Project 6.2 Human Services Coordinated Plan**

**Project Area:** Transit Planning

**Project Manager:** RIPTA: Sarah Ingle

**Supporting Staff:** RIPTA: Amy Pettine and Greg Nordin; Statewide Planning: Paul DiGiuseppe

**Project Overview:** This project is a continuation from FY 17. This federally-mandated plan involves inventorying existing transportation services for seniors and individuals with disabilities, both public and private; reviewing existing plans, studies, and data; identifying needs and gaps in service; and drafting a plan detailing priorities for the provision of seamless transportation service to the target population.

Expenditure of FTA Section 5310 program funds requires that projects be identified in the Coordinated Plan. Plan content and planning process must be consistent with the provisions of FTA Circular 9070.1G.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Project commencement meeting (consultant previously contracted in FY 17)

#### Quarter 1 Actual

- Project is on schedule.
- Public open house meetings were held in July. Resource assessment is ongoing.

#### **Quarter 2**

- Coordinate planning process
- Develop plan

#### Quarter 2 Actual

- Draft plan was approved by the RIPTA Board of Directors in December

#### **Quarter 3**

- Project closeout

#### **Quarter 4**

- No activities

#### **Products:**

- Coordinated Plan

**Project Cost** (other than staff time): \$150,000 (\$30,000 FHWA; \$90,000 FTA; \$30,000 RIPTA)

## **Project 8.1 Zoning for Economic Development / Implementing LEAN**

**Program Area:** Transportation Planning for Economic Development

**Project Manager:** Statewide Planning: Caroline Wells

**Supporting Staff:** Statewide Planning: Parag Agrawal and Kirsten Bryan; Commerce RI: Elizabeth Tanner

**Project Overview:** This program will enable municipalities to promote their economic development goals through changes to their local zoning ordinances content and administration. Zoning ordinances can present impediments to economic development in numerous ways, such as through outdated definitions and use tables, expensive application fees, lengthy public notice requirements, and extensive staff and board review. Such regulations may create uncertainty for new or expanding businesses and discourage creative reuses for underutilized sites or they may be improperly scaled for Rhode Island's many upcoming entrepreneurs and small businesspeople. Rhode Island municipalities can encourage economic development by crafting updated, agile ordinances and more streamlined procedures. The project will give municipalities funding and technical assistance to update existing zoning ordinances and to apply the lean government approach to zoning administration.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Complete a Request for Qualifications for a "pool" of consultants to provide zoning expertise
- Solicit 4-5 interested municipalities through a Letter of Interest and Application process

#### Quarter 1 Actual

- This project was not funded by the RI Legislature through the RI Commerce Corporation and has been shelved.

#### **Quarter 2**

- Select and execute Agreements with 4-5 municipalities for economic development zoning revisions
- Ascertain proposals from consultant pool to work with municipalities and execute contracts

#### Quarter 2 Actual

- This project was not funded by the RI Legislature and has been discontinued.

#### **Quarter 3**

- Match municipalities and consultants based on zoning needs
- Commence consultant / community work

#### **Quarter 4**

- Projects in progress

### **FY 19 Tasks by Quarter:**

#### **Quarter 1**

- Municipalities submit proposed zoning changes and present a status update on approval process

#### **Products:**

- 4-5 municipalities with economic development zoning updates and LEAN implementation strategies

**Project Cost** (other than staff time): \$250,000 Rhode Island Commerce Corporation

## **Project 8.2 Addressing Active Transportation Issues to Stimulate Local Economies**

**Program Area:** Transportation Planning for Economic Development

**Project Manager:** Statewide Planning: Lindsey Langenburg

**Supporting Staff:** Statewide Planning: Heidi Cho, Parag Agrawal, Roberta Groch, Kirsten Bryan and Michael D'Alessandro;  
RIDOT: Meredith Brady

**Project Overview:** This project will enable municipalities to access transportation and engineering expertise to define multimodal transportation problems, explore alternatives, and create conceptual plans to support economic development efforts in their communities. Through this program, Statewide Planning staff will receive applications and select 3-4 communities with specific multimodal transportation problems, such as traffic control, intermodal connectivity and access, safety, parking, or other issue(s). Statewide Planning will coordinate transportation and engineering professionals for 2- to 3-days of onsite technical review and evaluation of the problem. In addition, Statewide Planning will rely on and coordinate with local municipal officials to schedule meetings with staff and relevant stakeholders. The technical assistance team, in collaboration with the municipality, will develop a report (with renderings, if needed) that defines and evaluates alternatives and next steps for the municipality, and may provide the foundation for a State Transportation Improvement Plan project application.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Consult with the Society of Transportation Engineers and local transportation planners to develop a pool of pro bono expertise
- Solicit 3-4 interested municipalities through an application process

#### **Quarter 1 Actual**

- Project is on schedule
- Pool of consultants will be drawn from RIDOT's existing Master Price Agreement with transportation engineering firms
- Application process complete, 12 municipalities applied for assistance and 3-4 will be selected

#### **Quarter 2**

- Select and execute agreements with 3-4 municipalities for technical assistance

#### **Quarter 2 Actual**

- Three projects were approved for assistance from four municipalities (two municipalities submitted a joint application)
- Collected scopes of work from each applicant to create a master scope of work

#### **Quarter 3**

- Send scope to consultants on RIDOT's existing Master Price Agreement: choose lowest qualified bidder
- Implementation of projects

#### **Quarter 4**

- Implementation of projects
- Completed project reports for all municipalities

**Products:**

- 3-4 municipalities with conceptual plans or resolutions to multi-modal issues affecting their economic development efforts

**Project Cost** (other than staff time): \$350,000 (\$280,000 FHWA; \$70,000 municipal match)

## **Project 8.3 Pawtucket-Central Falls Rail Station Multi-Modal Access Plan**

**Program Area:** Transportation Planning for Economic Development

**Project Manager:** Statewide Planning: Roberta Groch

**Supporting Staff:** Statewide Planning: Michael D'Alessandro, Kirsten Bryan and Vincent Flood; RIDOT: Andrew Koziol; RIPTA: Greg Nordin

**Project Overview:** Statewide Planning will provide technical assistance to the communities of Pawtucket and Central Falls for the project area, consisting of approximately 40 acres surrounding the Pawtucket-Central Falls Train Station. Statewide Planning will lead a project team to draft a Multi-modal Access Plan that will: identify primary access routes for each primary mode to/from the station; develop an appropriate signage plan; identify proposed improvements; and prioritize improvements and develop implementation strategies for pedestrians, buses, cars and bicyclists to arrive safely and efficiently at the station. The station is part of the Division-led FY 2017-2025 Transportation Improvement Program.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Meet with working group consisting of representatives from the City of Pawtucket, the City of Central Falls, and the Pawtucket Foundation to identify a scope of work and plan elements
- Revise scope of work and plan elements for Access Plan, based on comments
- Begin baseline data collection

#### Quarter 1 Actual

- Project is on schedule
- Met monthly with working group
- Created scope of work and received comments from working group
- Started baseline data collection, such as existing conditions

#### **Quarter 2**

- Continue baseline data collection
- Identify existing studies/plans for area
- Meet with working group
- Hold public workshop

#### Quarter 2 Actual

- Baseline data collection continues
- Existing studies have been identified
- Existing problems have been identified
- Began drafting of existing conditions memorandum
- Met with working group and internal team
- Public workshop will be held in January 2018

#### **Quarter 3**

- Continue data collection
- Meet with working group
- Identify or estimate available ROW
- Hold public workshop

**Quarter 4**

- Meet with working group
- Recommend specific roadway improvements for buses
- Recommend specific sidewalk improvements for pedestrians
- Recommend appropriate wayfinding for bicyclists
- Recommend improvements to promote “complete streets” principles

**FY 19 Tasks by Quarter****Quarter 1**

- Create draft plan
- Present plan to working group and discuss revisions
- Draft final plan

**Quarter 2**

- Finalize plan

**Products:**

- Multi-Modal Access Plan

**Project Cost** (other than staff time): None

## **Project 8.4 Transportation Improvement Districts**

**Program Area:** Transportation Planning for Economic Development

**Project Manager:** Benny Bergantino

**Supporting Staff:** Paul DiGiuseppe and Roberta Groch

**Project Overview:** This project will research Transportation Improvement Districts (TID) as an innovative funding strategy used to finance transportation infrastructure improvements and services within a bounded geographic area. TIDs can be a means to coordinate general land use and transportation public policy objectives in a manner that will stimulate economic growth and development, enhance public services, and provide tax revenues for the benefit of the district. The project will examine how TIDs function, their advantages and disadvantages, a comparative analysis of TIDs established in other states, and their feasibility within the Rhode Island context.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Research Transportation Improvement Districts
- Begin initial draft of TID report

#### Quarter 1 Actual

- Project is on schedule

#### **Quarter 2**

- Complete draft of TID report

#### Quarter 2 Actual

- Project was presented to Transportation Advisory Committee on August 24, 2017 and State Planning Council on October 12, 2017
- Draft TID report is complete
- Task is complete

#### **Quarter 3**

- Present findings and recommendations to the Transportation Advisory Committee, Technical Committee, and State Planning Council

#### **Quarter 4**

- No tasks scheduled

#### **Products:**

- Report and Recommendations on Transportation Improvement Districts

**Project Cost** (other than staff time): None

# **Project 9.1 Transportation Climate Change and Resiliency Synthesis**

**Program Area:** Climate Change Resiliency, Adaptation, and Mitigation

**Project Manager:** RIDOT: Meredith Brady and Michael Gannon

**Supporting Staff:** RIDOT: Melanie Army, Emilie Holland, and Nicole Leporacci; Statewide Planning: Caitlin Greeley

**Project Overview:** To look at all available information from Rhode Island studies on climate change, sustainability, and resiliency, and the impact on transportation infrastructure, along with a review of procedures, methods, and information from other states that have already integrated climate change and resiliency into their transportation planning processes, with the goals of developing standards to be included in the scoping of projects, a guide for state and local agencies and groups to use in considering climate change and resiliency in the infrastructure development process, and an analysis of the costs necessary to incorporate resiliency and adaptation measures into current projects scheduled in the TIP.

## **FY 18 Tasks by Quarter:**

### **Quarter 1**

- Develop project goals and timeline
- Review all existing studies completed in Rhode Island
- Synthesize existing information
- Perform gap analysis

#### Quarter 1 Actual

- Project is on schedule.

### **Quarter 2**

- Review process and procedures from other states, FHWA, foundations, etc.
- Review options for developing data where gaps exist
- Convene Stakeholders
- Draft outline for work product(s)

#### Quarter 2 Actual

- Project is on schedule
- Project being implemented as part of Asset Management Planning effort.

### **Quarter 3**

- Receive and review any additional information
- Develop analysis of costs for incorporating resiliency and adaptation into projects currently programmed in TIP

### **Quarter 4**

- Finalize scoping standards
- Finalize guide for infrastructure development
- Disseminate information

### **Products:**

- Standards to be included in the scoping of projects

- A guide for state and local agencies and groups to use in considering climate change and resiliency in the infrastructure development process
- An analysis of the costs necessary to incorporate resiliency and adaptation measures into current projects scheduled in the TIP

**Project Cost:** (other than staff time): \$80,000 (\$64,000 FHWA; \$16,000 RIDOT)

## **Project 9.2 Assessing Economic Infrastructure Vulnerability to Natural Hazards and Climate Change**

**Program Area:** Transportation Planning for Economic Development

**Project Manager:** Statewide Planning: Caitlin Greeley

**Supporting Staff:** Statewide Planning: Caroline Wells and Jared Rhodes; Commerce RI: Rebecca Webber

**Project Overview:** This project will offer an understanding of the vulnerability of Rhode Island's coastal job-producing economic assets in Washington and Newport Counties to natural hazards and climate change and provide a quantification of potential losses that can inform decision-making. Economic infrastructure to be considered will include ports and marinas, medical facilities, manufacturing facilities, educational facilities, and small businesses, as well as tourist and agricultural assets. In addition, the planning process will identify strategies that could assist in building resiliency for the state's economic assets. Finally, a pilot project will be identified in this process that demonstrates methods to protect the state's most vulnerable economic assets.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Agreement with Housing & Community Development signed for CDBG DR funding
- RFP developed for consultants

#### Quarter 1 Actual

- Statewide Planning staff met with Housing & Community Development staff to discuss memorandum of agreement but no final document was signed.

#### Explanation of Project Delay

- The project delay was caused by the temporary reduction of available staff due to maternity leave.

#### **Quarter 2**

- Consultants selected
- Stakeholders identified and meeting scheduled
- Data for GIS modeling gathered

#### Quarter 2 Actual

- Staff met with Housing & Community Development staff to outline the project
- Staff drafted an RFP
- Housing & Community Development staff will edit and submit the RFP to DOA Purchasing

#### **Quarter 3**

- Data modeling completed
- Metrics for asset valuation and vulnerability assessment established
- Vulnerability assessment initiated
- Identify pilot project

#### **Quarter 4**

- Stakeholder review of modeling and metrics
- Vulnerability Assessment completed

- Finalize pilot project

## **FY 19 Tasks by Quarter**

### **Quarter 1**

- Data modeling and analysis completed
- Refine resilience strategies
- Implement pilot project

### **Quarter 2**

- Finalize resilience strategies

### **Products:**

- Final Report and associated mapping of economic assets, related infrastructure, vulnerability assessment, resilience strategies and pilot project

**Project Cost** (other than staff time): \$320,000 (Community Development Block Grant Disaster Recovery funds)

# **Project 10.1 Long-Range Transportation Plan**

**Program Area:** Long-Range Planning

**Project Manager:** Statewide Planning: Michael D’Alessandro

**Supporting Staff:** Statewide Planning: Paul DiGiuseppe, Linsey Callaghan, Parag Agrawal, Jared Rhodes, and Heidi Cho; RIDOT: Meredith Brady and Steve Devine; RIPTA: Amy Pettine, Sarah Ingle, and Greg Nordin

**Project Overview:** The State Planning Council as MPO and its Transportation Advisory Committee must make decisions towards developing the State Transportation Improvement Program. The Long-Range Transportation Plan (LRTP) informs and guides members of these bodies by setting the direction for major transportation investments in the State over a 20-year horizon. This project will update the 2035 LRTP to a 2040 horizon and include updated data and analysis; cost estimates and funding sources; short-term and long-term goals, objectives, and strategies as well as performance measurements that reflect Federal transportation priorities. The State’s Long-Range Transportation Plan will be designed to satisfy Federal regulations related to a long-range statewide transportation plan and a metropolitan transportation plan.

## **FY 18 Tasks by Quarter:**

### **Quarter 1**

- Complete comment report from project kick-off event
- Complete compendium of land use and transportation plans’ goals, objectives, policies, and recommendations
- Baseline data assessment report on infrastructure and system performance (System Performance Report)

#### Quarter 1 Actual

- A comment report for the first phase of public events has been completed.
- The compendium of land use and transportation plans’ goals, objectives, policies and recommendations is 75% and will be complete by November 15 consistent with the project schedule of deliverables.
- The GIS mapping/inventory and an outline of the baseline data assessment report. The report will be completed by November 15 consistent with the project schedule of deliverables.

### **Quarter 2**

- Complete baseline data assessment report on travel trends, demographic, and socioeconomic data
- Complete scenario planning and trend analysis
- Establish of a preliminary vision for land use and transportation for the state, including draft goals, objectives, and policies
- Develop list of performance measures and targets

#### Quarter 2 Actual

- Draft Baseline data reports received and comments provided to consultant.
- Draft Trends report received and comments provided to consultant. Scenario planning in early development stages.
- Visioning for land use and transportation still in preliminary stages. First draft goals, objectives, and policies are complete
- List of performance measures and targets in preliminary development.
- Round 2 of public workshops are scheduled

### **Quarter 3**

- Complete the public System Performance Report
- Release the statewide travel demand model and a list of transportation system needs through 2040
- Written report, maps, and spatial data describing the recommended bicycle network

#### **Quarter 4**

- Complete user-friendly report outlining four distinct investment scenarios
- Complete a preferred scenario analysis and written risk assessment
- Complete the implementation plan (costs, responsible parties, potential funding sources, and performance measurements) and STIP project selection criteria
- Cost-benefit analysis of the top 10 projects for advancement

#### **FY 19 Tasks by Quarter:**

#### **Quarter 1**

- Final draft of FAST Act compliant LRTP and a user-friendly executive summary
- Update Division website

#### **Products:**

- Updated Long-Range Transportation Plan

**Project Cost** (other than staff time): \$485,000 (\$388,000 FHWA; \$97,000 RIDOT)

## **Project 10.2 Bicycle Mobility Plan**

**Program Area:** Long-Range Planning

**Project Manager:** Statewide Planning: Lindsey Langenburg

**Supporting Staff:** Statewide Planning: Linsey Callaghan, Caroline Wells, Jared Rhodes, Parag Agrawal, Michael D'Alessandro and Kirsten Bryan; RIDOT: Mark Felag and Steve Church

**Project Overview:** The Bicycle Mobility Plan (BMP) will be the state's first bicycle master planning process that will run in parallel to the development of the Long-Range Transportation Plan. The BMP will provide a set of policy and infrastructure recommendations, as well as an implementation plan, intended to advance bicycle mobility and safety in the state. The BMP will be built on an analysis of bicycle traffic and crash data, existing bicycle policies, and past and proposed bicycle investments. The plan will outline a strategy for leveraging bicycle, pedestrian, safety, accessibility, air quality, and multimodal mobility dollars to develop a premier alternative transportation system, including a vision for the development of bike-friendly complete streets, a network of off- and on-road trails, and comprehensive bicycle infrastructure at intermodal facilities and city and town centers throughout the state. The plan will identify an inventory of bicycle projects to be developed within the upcoming 10-year TIP horizon and include preliminary cost estimates and implementation timelines.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Comment report from project kick-off event
- Schedule weekly meetings with staff
- Schedule for all public and stakeholder meetings
- Complete report of BMP existing conditions and bicycle facility inventory
- Complete BMP data collection (counts) and summary report

#### Quarter 1 Actual

- Project is on schedule
- A comment report for the first phase of public events has been completed
- Held weekly meetings with staff and consultants
- Scheduled and held first round of public meetings, currently scheduling remaining meetings
- Existing conditions and bicycle facility inventory information gathering is complete and consultant has completed report deliverable
- Data collection is complete and consultant has completed summary report

#### **Quarter 2**

- Complete assessment report of needs and gaps for the BMP and preliminary goals, objectives, and policies
- Complete report on BMP Performance Measures, Narrative and proposed Regional Transportation Plan/Transportation Improvement Program Project Selection and Prioritization Criteria

#### Quarter 2 Actual

- Assessment report of needs and gaps is complete
- Preliminary goals, objectives, and policies are complete
- Round two of public workshops is scheduled

**Quarter 3**

- Complete report listing proposed BMP projects, programs, and policies to address performance gaps (with cost estimates)
- Written report, maps, and spatial data describing the recommended bicycle network

**Quarter 4**

- Completion of a BMP implementation plan and strategy with descriptions
- Final draft of the BMP and standalone executive summary
- State Planning Council/MPO approval

**Products:**

- Bicycle Mobility Plan

**Project Cost** (other than staff time): \$330,000 (\$264,000 FHWA; \$66,000 RIDOT)

## **Project 10.3 State Conservation and Outdoor Recreation Plan**

**Program Area:** Long-Range Planning

**Project Manager:** Statewide Planning: Nancy Hess

**Supporting Staff:** Statewide Planning: Paul Gonsalves, RIDEM: Michelle Sheehan and Paul Jordan

**Project Overview:** The Department of Environmental Management (DEM) will fully update the 2009, Ocean State Outdoors: Rhode Island's State Comprehensive Outdoor Recreation Plan (SCORP). This plan is an Element of the State Guide Plan (SGP). This Element sets the State's goals, policies, and implementation strategies for open space, conservation, and recreation. It will identify, evaluate outdoor recreation needs statewide, and prioritize implementation strategies to meet the identified needs. The update will also involve consolidating the SGP Element for greenways into the SCORP. The consolidation will incorporate relevant goals, policies, and actions of the SGP Element, A Greener Path: Greenspace and Greenways for Rhode Island's Future into the SCORP. Completion of this update will maintain the eligibility of the State for federally funded land acquisition and outdoor recreational capital projects from the US Department of the Interior Fish and Wildlife Service and also serves as the State's Recreational Trails Plan and Wetlands Priority Plan.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Continue to convene monthly meetings of the advisory committee
- Create an initial preliminary draft plan
- Conduct several regional and focused meetings with target organizations to solicit other stakeholder input
- Include stakeholder feedback in draft plan
- Present a preliminary draft plan to and obtain the consensus of the advisory committee on the plan
- Continue to update topical land use web page for the project on monthly basis

#### Quarter 1 Actual

- Members for the advisory committee were solicited
- An RFP for consultant services was completed
- A public notice for bids was posted by DOA Purchasing

#### **Quarter 2**

- Conduct formal public review and adoption through the Technical Committee and State Planning Council
- Continue to update topical land use web page for the project monthly

#### Quarter 2 Actual

- A bid submission was evaluated
- In agreement, DOA purchasing the project was reposted and advertised until Dec. 27th
- A pre-bid meeting was held on Dec. 6<sup>th</sup> and meeting /bidder's questions were answered for Purchasing

#### **Quarter 3**

- Consult with DEM staff on comments received through the public review process
- Create report of public comments and present the final recommended plan to SPC for approval
- Publish approved plan via website
- Inform municipalities of updated State Guide Plan
- Complete update topical land use web page for the project

**Quarter 4**

- Provide technical support to communities in addressing open space and recreation issues in comprehensive community plans in order to implement the approved plan

**Products:**

- Survey of statewide outdoor recreation needs
- Approved State Conservation and Outdoor Recreation State Guide Plan Element and reduction of total SGP Elements by one
- Updated web page

**Project Cost** (other than staff time): None

# **Project 10.4 Pastore Center Master Plan**

**Program Area:** Long-Range Planning

**Project Manager:** DCAMM: Armino Goncalves; Statewide Planning: Roberta Groch

**Supporting Staff:** Statewide Planning: Kevin Nelson and Heidi Cho; RIPTA: Amy Pettine; RIDOT: Meredith Brady

**Project Overview:** The Pastore Center is comprised of approximately 346 acres and 82 buildings and is a major site for State hospitals. Several other State departments are also located on the grounds. It is also the sole location for the States' prisons. The campus is a regional center of employment and is one of the most heavily-utilized stops in the RIPTA bus system. The purpose of the plan is to develop Pastore Center to its maximum potential as: a multi-purpose State government campus; a hub of safe and efficient transportation choices; and a jobs center.

## **FY 18 Tasks by Quarter:**

### **Quarter 1**

- Finalize and announce RFP
- Establish a Project Selection Review Committee, score responses to RFP, and make a recommendation of a consultant to the Division of Purchases
- Steering Committee formed to guide the consultant planning process and the public participation process

### **Quarter 1 Actual**

- Planning suggested changes to the RFP that DCAMM drafted.
- RFP had was not finalized or announced by the end of Quarter 1.

### **Explanation of delay:**

- Internal DCAMM issues have delayed the finalizing of the RFP.

### **Quarter 2**

- Establish a Project Selection Review Committee, score responses to RFP, and make a recommendation of a consultant to the Division of Purchases
- Gather existing data and plans; document existing conditions
- Identify ongoing initiatives on the Pastore campus and coordinate in planning process
- Coordinate with stormwater retention plan being developed under a separate RFP
- Research existing rail spur for potential transportation use

### **Quarter 2 Actual**

- Internal DCAMM issues have delayed the issuance of the RFP
- Existing plans and documents have been collected
- Rail spur has been researched

### **Quarter 3**

- Provide Develop map incorporating expansion needs of major institutions on campus
- Provide Draft development options with potential building sites
- Hold planning workshops with representatives from all stakeholders
- Provide Draft traffic and parking plan
- Summarize development opportunities and constraints

### **Quarter 4**

- Develop design guidelines for future building development on the campus
- Develop plan for streetscape improvements for pedestrian safety including sidewalk improvements, accessibility improvements, crosswalks, and appropriate lighting
- Provide for public outreach and input
- Provide cost estimates for infrastructure, landscaping, streetscape improvements, and a phased budget recommendation

### **FY 19 Tasks by Quarter:**

#### **Quarter 1**

- Compile draft master plan

#### **Quarter 2**

- Present draft master plan
- Steering Committee reviews and comments
- Revise draft to include comments
- Finalize Master Plan

#### **Products:**

- Pastore Center Master Plan, including:
- Parking and transportation plan
- Design guidelines for streetscape and pedestrian safety improvements
- Cost estimates and tasks to be completed in short-, medium- and long-term timeframes

**Project Cost** (other than staff time): \$500,000 (\$100,000 FHWA; \$400,000 DOA)

# **Project 10.5 State Airport Systems Plan**

**Project Title:** State Airport Systems Plan

**Project Manager:** Statewide Planning: Nancy Hess

**Supporting Staff:** Rhode Island Airport Corporation: Daniel Porter and Vincent Scarano

**Project Overview:** This project will update the 2011 State Airport System Plan. This Plan establishes goals and actions for the development and management of six state-owned airports. The purpose is to ensure that Rhode Island maintains an airport system that can meet the State's long-term transportation and economic needs.

Staff will assist RIAC to present a draft plan compiled by RIAC staff for feedback to the six airport host communities and other stakeholders such as airport businesses, airport users, pilots associations, airport neighbors, the Nature Conservancy, Land Trusts, chambers of commerce, and the National Guard. This will be done by RIAC prior to submitting it for formal review and approval. Staff will review of the draft to ensure that both the planning and proposed project implementation will be consistent with the other elements of the State Guide Plan. The draft plan will be reviewed by the Transportation Advisory Committee, the Technical Committee, and approved through the formal public hearing process of the State Planning Council.

## **FY 18 Tasks by Quarter:**

### **Quarter 1**

- Identify stakeholders
- Conduct a series of public informational meetings

#### Quarter 1 Actual

- Staff drafted outreach program for stakeholder input into a full SGP update
- Staff meet with officials from RIAC and FAA on outreach requirements
- RIAC will not pursue a full State Guide Plan update for lack of resources for outreach
- This project is no longer considered active until RIAC pursues an outreach program for broad stakeholder input

### **Quarter 2**

- Prepare the draft plan update
- Present draft to Transportation Advisory Committee and Technical Committee for review and comment
- Revise as necessary

#### Quarter 2 Actual

- This project is no longer considered active until RIAC pursues an outreach program for broad stakeholder input

### **Quarter 3**

- Conduct public hearing and public comment period
- Develop public hearing / comment report summarizing all public comments and recommended responses
- Present to State Planning Council for approval
- Revise as needed

### **Quarter 4**

- Finalize approved plan
- Publish approved plan on the Division of Statewide Planning website
- Notify municipalities of changes to the State Guide Plan

**Products:**

- Updated State Airport Systems Plan
- Updated webpage

**Project Cost** (other than staff time): None

## **Project 12.1 Rhode Island Land Use Training Collaborative**

**Program Area:** Transportation and Land Use Coordination Technical Assistance

**Project Manager:** Statewide Planning: Nancy Hess

**Supporting Staff:** Statewide Planning: Paul Gonsalves; Grow Smart RI: C.J. Opperthausen, John Flaherty, and Scott Millar

**Project Overview:** This project is to develop and deliver training and technical assistance to ensure that the municipal boards and commissions, elected officials, and professional staff responsible for municipal land use and transportation planning, and the public they serve, will have the knowledge and skills needed to conduct effective land use reviews and write sound decisions consistent with Rhode Island General Laws and State Guide Plan Elements Land Use 2025 and Transportation 2035. The program has the following components:

1. Management and support for the Land Use Training Collaborative – A cooperative effort by two dozen State agencies, and private and non-profit entities to identify municipal training needs, provide affordable training, and evaluate training effectiveness in increasing municipal land use planning capacity, decision-making capacity, and learning about innovative planning, design, and financing strategies. The Collaborative members' expertise includes transportation, comprehensive and municipal planning, land-use law, housing, environmental stewardship, and public health.
2. Development of training and other capacity building resources related to land use and the management and maintenance of a state and regional transportation system that provides convenient and affordable transportation options. Highlighting topics that will implement the State Guide Plan by including but not limited to sessions on directing growth to urban and rural centers that facilitate the use of multiple modes of transportation, sustainable economic development, and strengthening our agricultural sector and local food systems.
3. Delivery of training programs through workshops such as “Making Good Land Use Decisions” which is comprised of three separate workshops: Introduction to Smart Growth and Community Planning; Conducting Effective Land Use Reviews; and Writing Sound Decisions. Transportation is covered under Physical Alteration Development permits and under local permits as well. Transportation experts often testify in town decisions around economic development, and is an important part of the program.
4. In order to ensure the continued excellence and integrity of the Land Use Training Collaborative’s workshops, evaluations are used to gauge workshop and presenters' performance and to gather additional information regarding materials and other topics of interest.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Deliver 1 of 6 training programs on community planning/application review procedures/ special training for Planning Board Chairs
- Develop new workshop on “Revitalizing Transportation Corridors”
- Develop new workshop on “Understanding Federal Transportation Plans Processing in RI”
- Begin development of statewide forum on “Public-Private Partnerships to Support Transportation Infrastructure”
- On-going implementation of training evaluation plan

#### **Quarter 1 Actual**

- Met with new Grow Smart staff and coordinated timeline for deliverables
- Delivered 1 of 6 training programs – Writing Sound Decisions- Middletown on 9.18.17 – 6 participants representing 4 communities attended

- Worked on development of 2 new workshops and new statewide forum
- Quarterly evaluation - Writing Sound Decisions received high ratings regarding both content and speaker presentations. All participants felt that other volunteers would benefit from the workshop. All participants indicated the high value for continuing the workshops and indicated desire to take future workshops.

## **Quarter 2**

- Deliver 2nd of 6 training programs on community planning/application review procedures/ special training for Planning Board Chairs
- Deliver 1 of 2 workshops on “Revitalizing Transportation Corridors”
- Deliver 1 of 2 workshop on “Understanding Federal Transportation Plans Processing in RI”
- Begin development of new workshop on “Innovations in Mass Transit: Vision & Master Plan”
- Report second quarter progress on development of statewide forum on “Public-Private Partnerships to Support Transportation Infrastructure”
- On-going implementation of training evaluation plan

## Quarter 2 Actual

- Met with Grow Smart staff and coordinated timeline for workshops
- Delivered 2 of 2 workshops carried over from FY 2017:
  - *Bringing Active Transportation to Your Community* – 12.12.17 in Newport
  - *Bringing Active Transportation to Your Community* – 11.13.17 in Woonsocket
- Delivered 1 of 2 workshops on *Expanding Regional Transit & Prosperity Across Boundaries* – 10.02.17 in Providence at NEDA Conference
- Worked on development of new workshop Deliver 1 of 2 workshops on *Understanding Federal Transportation Plans Processing in RI* and new statewide forum
- Submitted sessions for RI league of Cities & Towns annual summit next quarter. Will be presenting: *Revitalizing Transportation Corridors, Understanding Federal Transportation Plans Processing in RI, Expanding Regional Transit & Prosperity Across Boundaries* topics
- Quarterly evaluation - *Bringing Active Transportation to Your Community* received high ratings regarding both content and speaker presentations. All participants indicated the high value for continuing the workshops. *Expanding Regional Transit & Prosperity Across Boundaries* presented at NEDA Conference did not have an evaluation process.

## **Quarter 3**

- Convene meeting of Land Use Training Collaborative Partners
- On-going implementation of training evaluation plan
- Deliver 3rd and 4th of 6 training programs on community planning/application review procedures / special training for Planning Board Chairs
- Deliver 2 of 2 workshops on “Revitalizing Transportation Corridors”
- Deliver 2 of 2 workshops on “Understanding Federal Transportation Plans Processing in RI”
- Deliver 1 of 2 workshops on “Innovations in Mass Transit: Vision & Master Plan”
- Report third quarter progress on development of statewide forum on “Public-Private Partnerships to Support Transportation Infrastructure”

**Quarter 4**

- Deliver 5th and 6th of 6 training program on community planning/application review procedures/ special training for Planning Board Chairs
- Prepare FY 2018 evaluation results report
- Deliver 2 of 2 workshops on “Innovations in Mass Transit: Vision & Master Plan”
- Deliver statewide forum on Public-Private Partnerships to Support Transportation Infrastructure

**Products:**

- Outlines and materials for 4 existing training programs
- Delivery of 12 training programs on:
  - (6) community planning/application review procedures
  - (2) Revitalizing Transportation Corridors
  - (2) Understanding Federal Transportation Plans Processing in RI
  - (2) Innovations in Mass Transit: Vision & Master Plan
- Development of 1 new Statewide Forum: Public-Private Partnerships to Support Transportation Infrastructure
- Report on evaluation results

**Project Cost** (other than staff time): \$136,037 (\$78,643 FHWA; \$14,394 FTA; \$43,000 Grow Smart RI)

# **Project 13.1 Sustaining and Enhancing Access to the RIGIS Geospatial Database**

**Program Area:** Data Management, Coordination, and Delivery

**Project Manager:** Statewide Planning: Vincent Flood

**Supporting Staff:** URI: Environmental Data Center staff; Statewide Planning: Christina Delage Baza

**Project Overview:** Subcontract to the University of Rhode Island Environmental Data Center (URI EDC) to continue maintaining and updating the Rhode Island Geographic Information System (RIGIS) consortium's data distribution clearinghouse ([www.rigis.org](http://www.rigis.org)). The primary function of this project is to add new data and map services developed by RIGIS partners and to maintain the underlying software and hardware systems that support the clearinghouse. With the creation of 280 new hosted feature services within ArcGIS Online, it is now possible to create a variety of basic web maps, and more advanced web mapping applications featuring RIGIS data. These web maps and web mapping applications will allow users of all skill levels to access and interact with popular RIGIS datasets, such as RIDOT roads, sea level rise, RIPTA Bus Stops and Routes. The geospatial data distributed by RIGIS with URI EDC support numerous ongoing transportation and economic development planning initiatives.

## **FY 18 Tasks by Quarter**

The following Tasks are undertaken on an ongoing basis and therefore could occur in any quarter:

- Process and publish dataset contributions developed by RIGIS partners by reviewing the integrity and metadata of new data; importing the new data into two geodatabases, publishing new data to the RIGIS website, and updating the RIGIS community via RIGIS-L
- Introduce new/updated datasets; remove retired/archived datasets
- Maintain RIGIS data distribution site by adding additional online resources on all Dataset Details and Tiled Data Download Details pages, diagnose and fix bugs that may arise, and add software updates
- Maintain the server system that supports RIGIS data distribution by providing nightly backups, and maintain a separate, offline, dark archive of all RIGIS data
- Research and apply virtualization, operating system, and server software updates
- Monitor hardware health, adjust systems as necessary to accommodate hardware changes, task repairs as necessary
- Monitor and optimize network traffic
- Respond to technical assistance requests

## **Quarter 1**

- Develop Local Perspective Application allowing users to highlight RIGIS dataset features within a buffered user selected location, for example a selection roads and commercial E-911 commercial sites within a ½ mile of specified location
- Develop 1st Interactive Web Application
- Publish RIGIS blog post
- Publish updated RIGIS vector data geodatabase
- Provide administrative assistance and attend RIGIS Executive Committee meeting

## **Quarter 1 Actual**

- Publicly released the new RIGIS website on August 6, 2017. Brought the old website offline, and archived its content. The old website is currently “mothballed,” ready to be brought quickly back online should a significant issue arise with the new website.
- Created a new WordPress-based website to host the RIGIS blog. Available at <http://blog.rigis.org>, this site is hosted directly by the URI EDC. Migrated pertinent blog entries from the old site to this new site.

- Opened an ESRI technical support incident regarding editorial functions on ArcGIS Online Open Data hosted websites, and approaches to tiled data distribution. This technical support incident is still ongoing.
- Introduced the new RIGIS data distribution website in a presentation to the Statewide Planning Council on August 10, 2017.
- Introduced the new RIGIS data distribution website in a plenary presentation to the National States Geographic Information Council on September 28, 2017.
- Completed new theme suggestions for use with ArcGIS Online products produced by RIGIS. ArcGIS Online largely controls all design elements, which eases product updates. Consequently, the result is that ArcGIS Online design elements are mostly not configurable by the end user.
- Responded to 23 requests for technical assistance. Documented in three monthly technical assistance summaries provided on September 27, 2017.
- Published a new blog post introducing the new RIGIS data distribution website on July 16, 2017.
- The RIGIS Executive Committee did not meet this quarter.

#### Explanation of Project Delay

- Due to contract procurement delays and internal staff availability, the URI EDC assigned a reduced level of staff support to this project during this quarter. This led to a delay for deliverables beyond essential RIGIS data distribution functions. The URI EDC expects to return to full staff support for this project during Quarter 2.

#### **Quarter 2**

- Work with RI E-911 to recreate the data redlining app
- Begin web apps project using the templates and proposed ideas listed in the FY 2018 Objective Overview, Enhancement of the RIGIS Website Utilizing RIGIS Feature Services section
- Publish RIGIS blog post
- Publish RIGIS vector geodatabase update
- Provide administrative assistance and attend RIGIS Executive Committee meeting

#### Quarter 2 Actual

- Reviewed and posted the following datasets for public distribution via RIGIS:
  - RI E-911 Roads, Sites and Fire Hydrants
  - USDA NRCS Soil Survey
  - RI Secretary of State 2016 Voting Precincts
- Initiated conversation with RI E-911 to learn if a new data redlining app would meet their current needs.
- Began developing a new local perspective web mapping application originally proposed for Quarter 1.
- Began framing out a new web mapping app describing a new proposed Pawtucket / Central Falls train station.
- Met with Division of Planning staff representing the Planning Information Center on December 4, 2017.
- Wrote the Quarter 1 progress report, submitted on October 23, 2017.
- Produced three monthly technical assistance summaries for October, November, and December 2017. Submitted October 18, December 21, and December 21, 2017, respectively.
- Drafted one new RIGIS blog post describing the different data download options now available on RIGIS.org. Publication date is anticipated for the first week of January 2018.

#### Explanation of Project Delay

- The URI EDC has fully staffed this project, and has also hired an undergraduate student to assist as well. We expect to fully comply with the project timeline by the end of Quarter 3.

#### **Quarter 3**

- Work on creating a Story Map Journal that focuses on Transportation Planning or Economic Development in Rhode Island
- Publish RIGIS blog post
- Publish RIGIS vector geodatabase update
- Provide administrative assistance and attend RIGIS Executive Committee meeting

#### **Quarter 4**

- Create a variety of web apps utilizing the Web App Builder to be featured on RIGIS open data site
- Continue Story Map Journal focusing on Transportation Planning or Economic Development in Rhode Island
- Publish RIGIS blog post
- Publish RIGIS vector geodatabase update
- Provide administrative assistance and attend RIGIS Executive Committee meeting

#### **Products:**

- Approximately 25 new or updated datasets reviewed, processed, and published on behalf of RIGIS contributors
- Four quarterly updates of the publicly available Esri file geodatabase that contains nearly all vector datasets distributed by RIGIS
- Four quarterly blog posts summarizing new, updated, and retired RIGIS-distributed datasets
- Responses to approximately 12 requests for technical assistance summaries.
- Approximately 10 metadata records updated with the new URL of the new RIGIS data distribution website
- Reliable access to the RIGIS data distribution website

**Project Cost** (other than staff time): \$104,379 (\$67,846 FHWA; \$15,657 FTA; \$20,876 URI)

## **Project 13.2 Advanced Continuously Operating Reference Network (ACORN)**

**Program Area:** Data Management, Coordination, and Delivery

**Project Manager:** RIDOT: Michael Gaston

**Supporting Staff:** RIDOT: Jim Primeau and Steve Kut

**Project Overview:** The Advanced Continuously Operating Reference Network is a network of Global Navigation Satellite System reference station receivers operated by University of Connecticut and Connecticut DOT. The ACORN receivers are part of the NOAA-NGS network of Continuously Operating Reference Stations (CORS), which constitute the fiducial stations for the National Spatial Reference System. Currently, RIDOT is the only New England state, and one of only four state-DOT's nationwide, not participating in the CORS program. This project would allow RIDOT to establish and maintain two new/updated CORS stations: one at URI and one at 2 Capitol Hill. In addition to allowing new construction inspection techniques using real-time GPS to verify construction activity, CORS applications will support land surveying, construction & design activities, construction inspection, transportation needs, GIS development, environmental surveys, remote sensing, emergency management/ police, as well as education and science.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Complete agreement to install and maintain antennae

#### Quarter 1 Actual

- Project is on schedule.

#### **Quarter 2**

- Install antennae

#### Quarter 2 Actual

- The University of Connecticut is drafting a memorandum of understanding.
- RIDOT working with the Capital Asset Management and Maintenance Division to install one of the antennas on the RIDOT building (2 Capitol Hill).

#### **Quarter 3**

- Integrate data into processes

#### **Quarter 4**

- Project complete

#### **Products:**

- Antennas and receivers
- Participation in ACORN

**Project Cost** (other than staff time): \$100,000 (\$80,000 FHWA; \$20,000 RIDOT)

## **Project 14.1 Travel Demand Model Update and Maintenance**

**Program Area:** Data Development and Analysis

**Project Manager:** Statewide Planning: Benjamin Jacobs

**Supporting Staff:** Statewide Planning: Paul DiGiuseppe and Linsey Callaghan

**Project Overview:** In conjunction with hired consultants, Statewide Planning staff will maintain, work with partner agencies (including RIDOT, RIPTA, and RIDEM) on data inputs/outputs and functioning of the Rhode Island Statewide Model (RISM), and make enhancements and updates to the RISM. Staff will complete a plan for the future use and expansion of the model, build state competency through a training program, and seek to make the model more useful for the state.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Implement first annual Model Maintenance Update
- Craft update memo for inclusion in appendix of Technical Paper 157 - Statewide Travel Model Update
- Produce report containing relevant data for RISM stakeholders
- Craft appendix section for Technical Paper 157 - Statewide Travel Model Update explaining usability updates
- Begin work on Transit assignment
- Begin work on incorporation of RIPTA ridership survey
- If funding becomes available, begin work on incorporation of MBTA ridership survey

#### Quarter 1 Actual

- Began work on Annual Model Maintenance Update
- Began work on Transit Assignment
- Began work on RIPTA ridership survey
- Began work on report for RISM stakeholders

#### Explanation of Project Delay

- Difficulty in securing data for update
- Determined that it would be better to conduct three updates in tandem to secure increased efficiency
- Reports contingent on completion of updates

#### **Quarter 2**

- Complete implementation of Transit Assignment
- Complete implementation of RIPTA ridership surveys
- Draft updates to Technical Paper 157 - Statewide Travel Model Update documenting Transit Assignment and RIPTA Ridership Survey alterations
- If funding becomes available, draft updates to Technical Paper 157 - Statewide Travel Model Update documenting MBTA Ridership Survey alterations
- Continue to work with consultant and partner agencies on the RISM, in line with tasks discussed in Model Maintenance Plan

#### Quarter 2 Actual

- Completed work on Annual Model Maintenance Update
- Completed work on Transit Assignment
- Completed work on RIPTA ridership survey

- Continued work on report for RISM stakeholders
- Secured funding for Truck Model Update

#### Explanation of Project Delay

- Difficulty in securing data for update
- Determined that it would be better to conduct three updates in tandem to secure increased efficiency
- Reports and documentation contingent on completion of updates
- Secured SHRP II grant funding, for which Truck Model was more appropriate

#### **Quarter 3**

- Final updates to Technical Paper 157 - Statewide Travel Model Update documenting Transit Assignment Application and insertion of RIPTA Ridership Survey Data
- If funding becomes available, final updates to Technical Paper 157 - Statewide Travel Model Update documenting MBTA Ridership Survey alterations
- Informational presentation to TAC, Technical Committee, and/ or State Planning Council on the Model Maintenance Plan first annual update, and recent upgrades
- Organize meeting with stakeholders to assess ongoing progress towards fulfilling goals set out in Model Maintenance Plan
- Continue to work with consultant and partner agencies on the RISM, in line with tasks discussed in Model Maintenance Plan

#### **Quarter 4**

- Gather data for annual Model Maintenance Update
- Continue to work with consultant and partner agencies on the RISM, in line with tasks discussed in Model Maintenance Plan

#### **Products:**

- RISM Model Maintenance and Update Plan FY 2017-2021
- RISM and associated TransCAD and ESRI GIS data
- Report containing relevant data for RISM stakeholders
- Memo appended to Technical Paper 157 - Statewide Travel Model Update describing annual update
- RISM and associated TransCAD and ESRI GIS data updated with Transit Assignment Application
- RISM and associated TransCAD and ESRI GIS data updated with RIPTA Passenger Survey Data
- If funds become available, RISM and associated TransCAD and ESRI GIS data updated with MBTA Ridership Survey Data
- Appendix of Technical Paper 157 - Statewide Travel Model Update changed to reflect addition of Transit Assignment, and RIPTA Passenger Survey
- If funds become available, appendix of Technical Paper 157 - Statewide Travel Model Update changed to reflect addition of MBTA Passenger Survey

**Project Cost** (other than staff time): \$393,033 (\$255,471 FHWA; \$58,955 FTA; \$78,607 RIDOT)

## **Project 14.2 Drones for Project Surveys and Mapping**

**Program Area:** Data Development and Analysis

**Project Manager:** RIDOT: Stephen Kut

**Supporting Staff:** RIDOT: Jeremy Abraham and Jim Primeau

**Project Overview:** RIDOT has recently established a scoping section responsible for the development of projects scopes. In order to develop accurate scopes for each project RIDOT must ensure it is using the latest data and base information for each site. Utilizing the latest survey and mapping technology including drones will help RIDOT achieve this. This project will provide RIDOT with equipment and training which will be used to establish the latest mapping, imagery, and site conditions for projects.

### **FY 18 Tasks by Quarter:**

#### **Quarter 1**

- Procure drone equipment and attend certified FAA training
- Establish procedures and workflows for collecting and processing data

#### **Quarter 1 Actual**

- Project is behind schedule

#### **Explanation of Project Delay**

- Drone specifications are more complex than expected, requiring additional staff time to review needs.
- Limited staff in survey office has leads to the need to shift project so training does not occur during construction season.
- Drone likely to be procured in Quarter 2, Training sought late in Quarter 2.
- Imagery will be acquired beginning in Quarter 3 and Quarter 4.
- No change in project cost anticipated.

#### **Quarter 2**

- Acquire imagery and mapping data for project scoping

#### **Quarter 2 Actual**

- Drone to be procured in Q3, training pilot applied for with LOI through FHWA/FAA for drones to use in field and bridge inspections.
- Additional resources being used to supplement UPWP funding and procure more advanced drone and training.
- Pilot sites chosen – 7 bridges at 5 locations statewide.
- No change in project cost anticipated.

#### **Quarter 3**

- No activities scheduled

#### **Quarter 4**

- No activities scheduled

#### **Products:**

- Documentation on the use of drones for project mapping and scoping
- Production site imagery and mapping for pilot projects

**Project Cost:** (other than staff time): \$22,300 (\$17,840 FHWA; \$4,460 RIDOT)

## **Part II FINANCIAL REPORTING**

See attached report.