



SMART MOVES 2045

St. Lucie TPO Long Range Transportation Plan

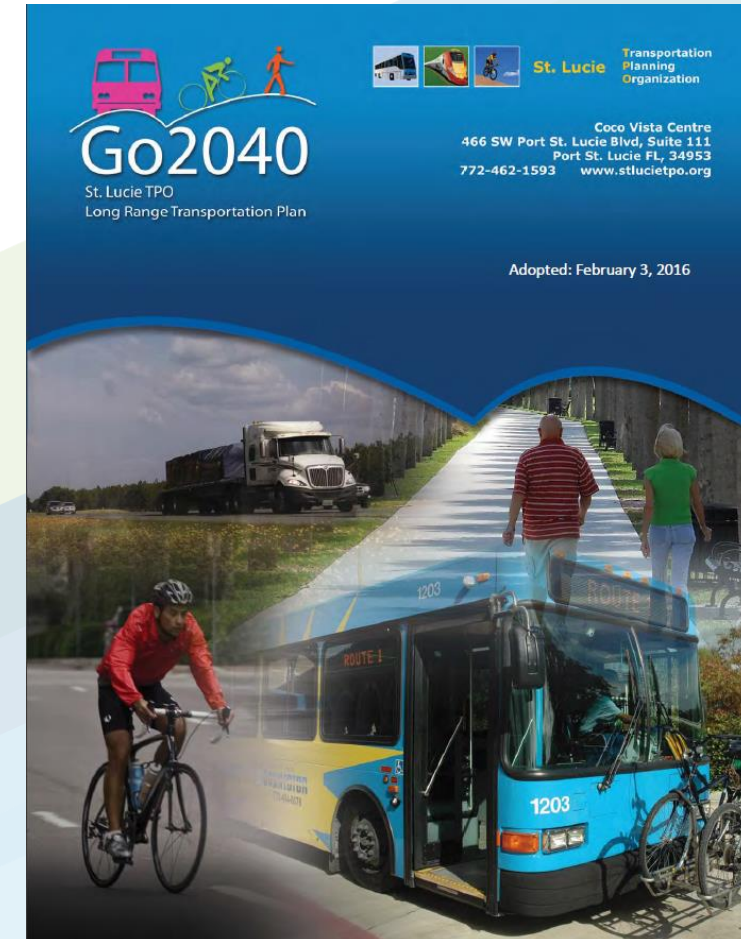
October 2020
Board Meeting

Agenda

- » Background
- » Public Engagement
- » Multimodal Needs Plan
- » Revenue Projections
- » Transportation Alternatives
- » Next Steps

Background

- » The Long Range Transportation Plan (LRTP) 2045 describes how St. Lucie County's multimodal transportation system will evolve over the next 25 years.
- » The St. Lucie TPO is required by federal law to review and update its transportation plan every five (5) years.
- » The St. Lucie 2040 LRTP, referred to as *Go2040*, was adopted by the TPO Governing Board in February 2016.





Public Engagement

Smart Moves 2045 Long Range Transportation Plan

We are developing the Smart Moves 2045 Long Range Transportation Plan. Please take a look at potential projects to vote or comment on them. The most liked rise to the top of the priority list.

- Filter Map Comments
- Filter Map Needs Plan Projects

Map Layers

- ☒ Roadway Projects
Developer roads denoted in blue
- ☒ Sidewalks
- ☒ Proposed New Transit Service
- ☒ Microtransit Operations
- ☒ Transit Operations
Increase Frequency, Extend Weekday Service Hours
- ☒ Bicycle Facilities
- Remove all layers

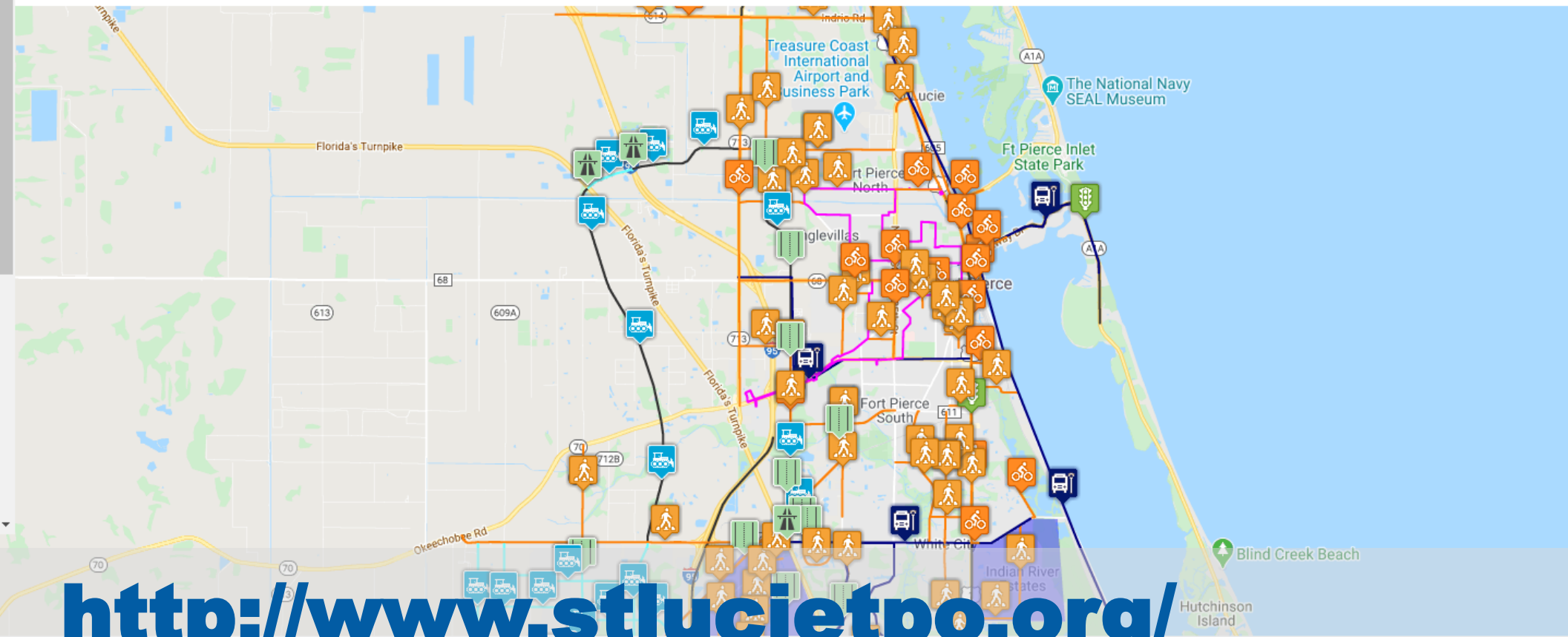
Needs Plan Projects

- Add Lanes
- Bicycle Facilities

Map Menu

SMART MOVES 2045 LONG RANGE TRANSPORTATION PLAN

Click on a needs plan project to comment and vote. You may also drop a pin on a location to suggest a project.



<http://www.stlucietpo.org/>

SMART MOVES 2045

LONG RANGE TRANSPORTATION PLAN

Check the slides below for potential transportation projects and vote on your favorite transportation alternative scenario

Name (if left blank your name will appear as "Anonymous")

*5 Digit Zip Code of Your Residence (required)

*Which of the 3 scenarios do you support? (required)

Submit

<http://www.stlucietpo.org/>

St. Lucie TPO 2045 Long Range Transportation Plan Survey

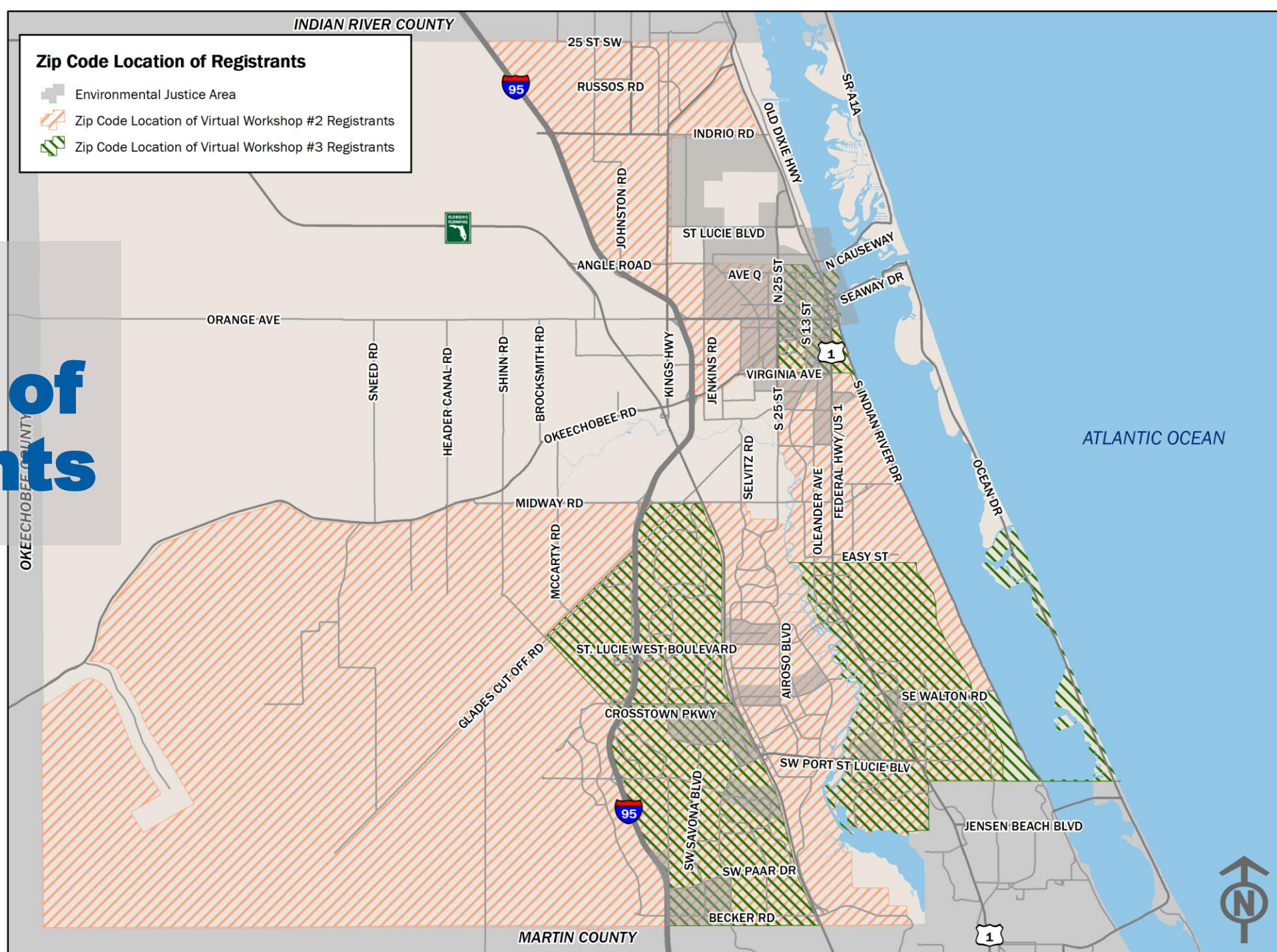
The St. Lucie Transportation Planning Organization (TPO) is currently developing the 2045 Long Range Transportation Plan. Please take approximately 5 to 10 minutes to fill out the survey below, which will help the TPO to identify public priorities. Surveys are anonymous. We appreciate your input.

OK

* 1. What is your home zip code?

<http://www.stlucietpo.org>

Zip Code Location of Registrants

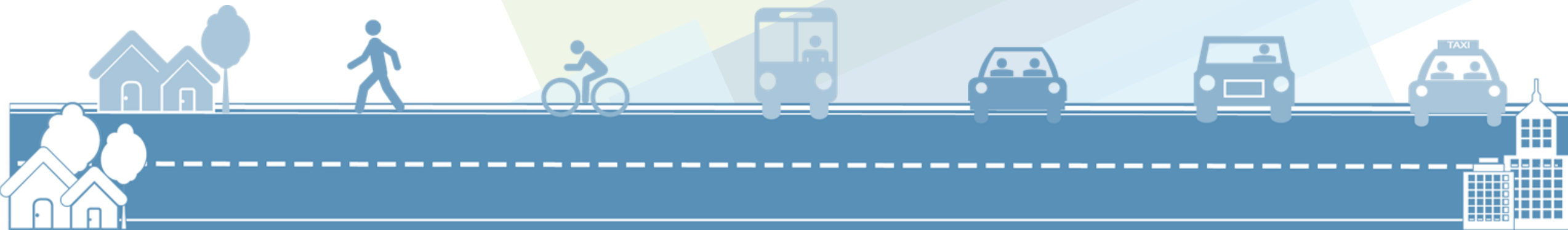
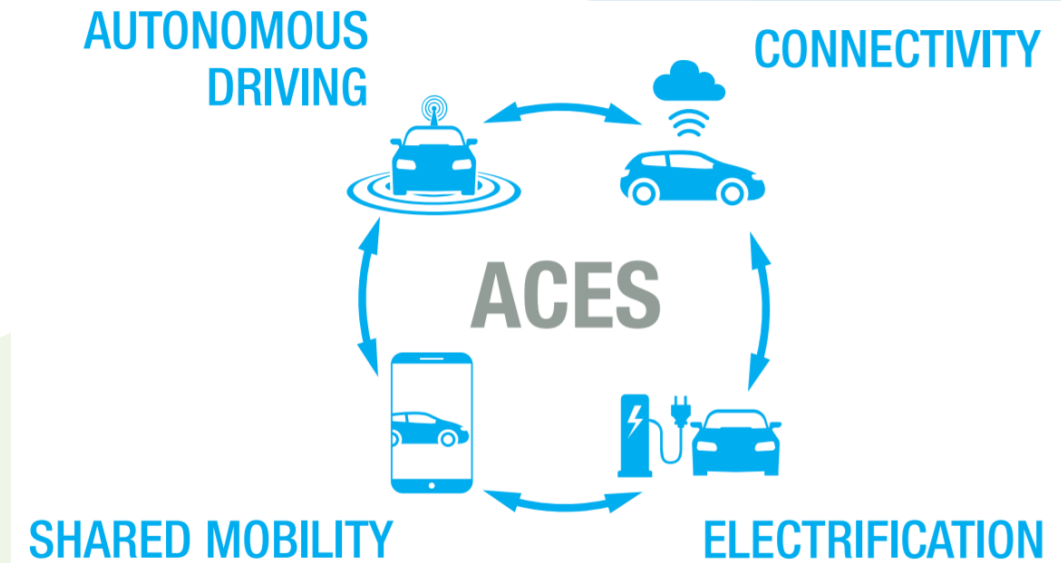




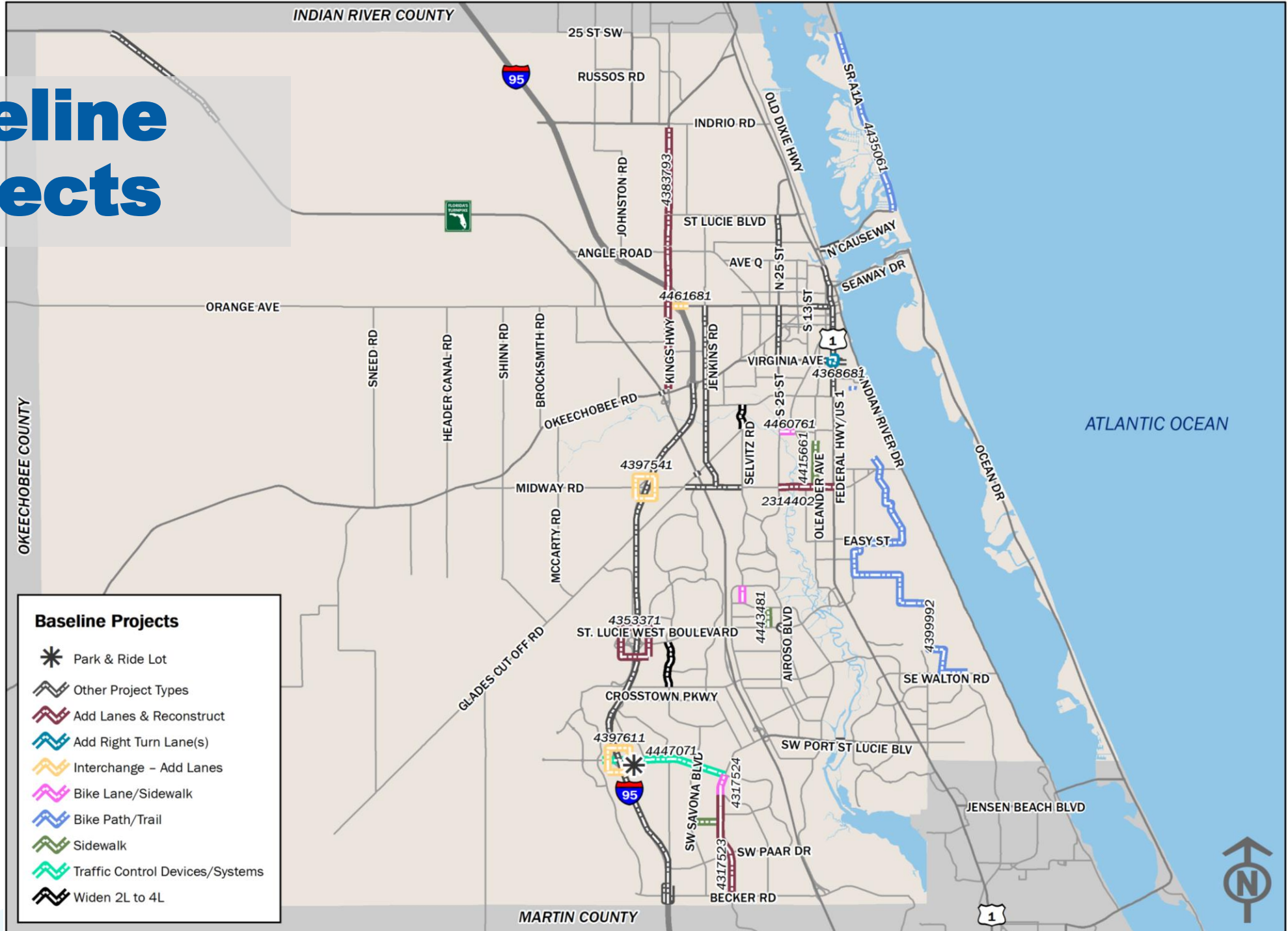
Multimodal Needs Plan

Multimodal Needs Plan

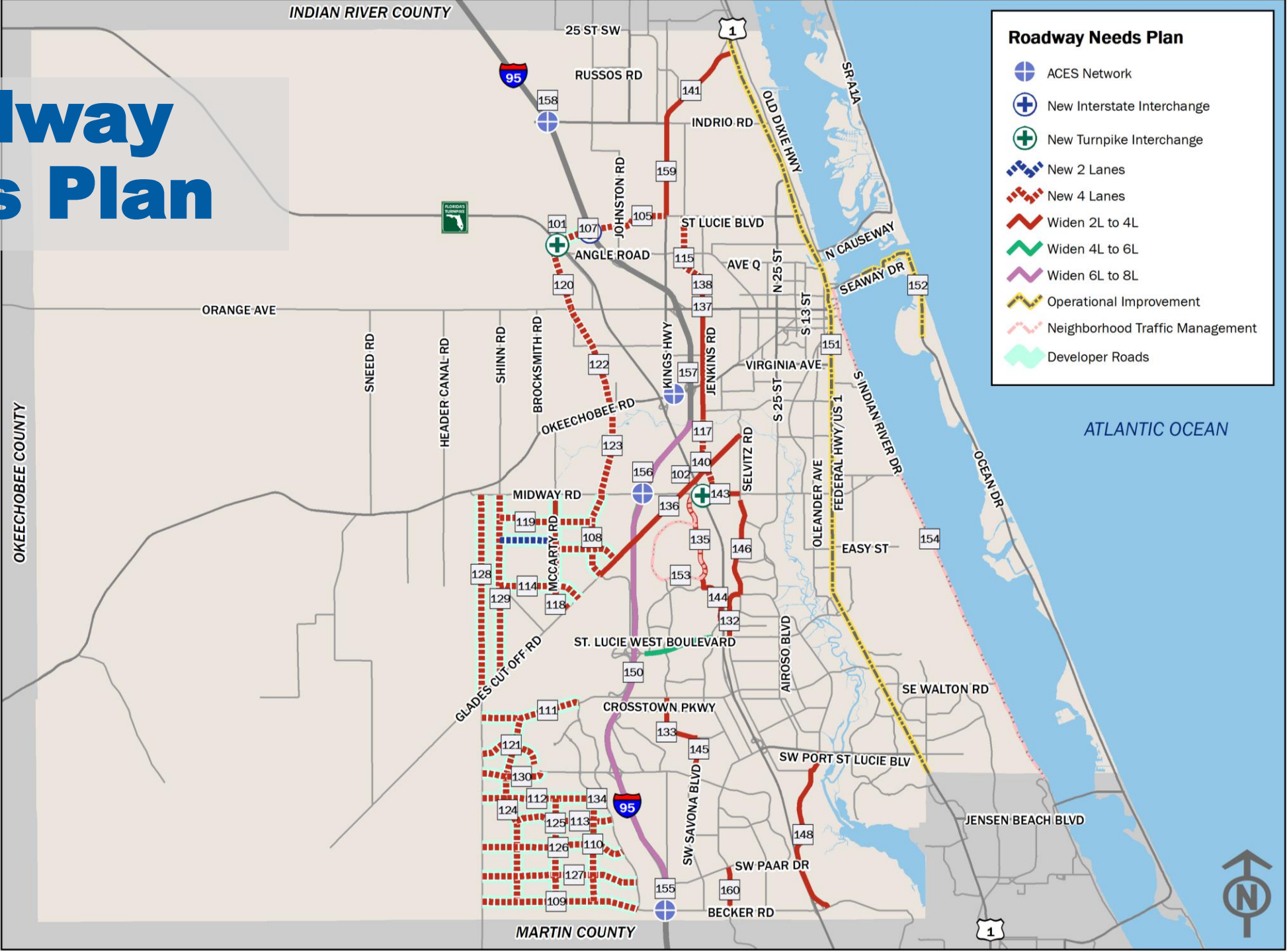
- » Focuses on all modes such as pedestrians, bicyclists, transit riders, and motorists
- » Accommodates future travel demand, addressing safety issues, and meeting community needs for the next 25 years
- » Incorporates technology through the Automated, Connected, Electric, and Shared (ACES) concept



Baseline Projects



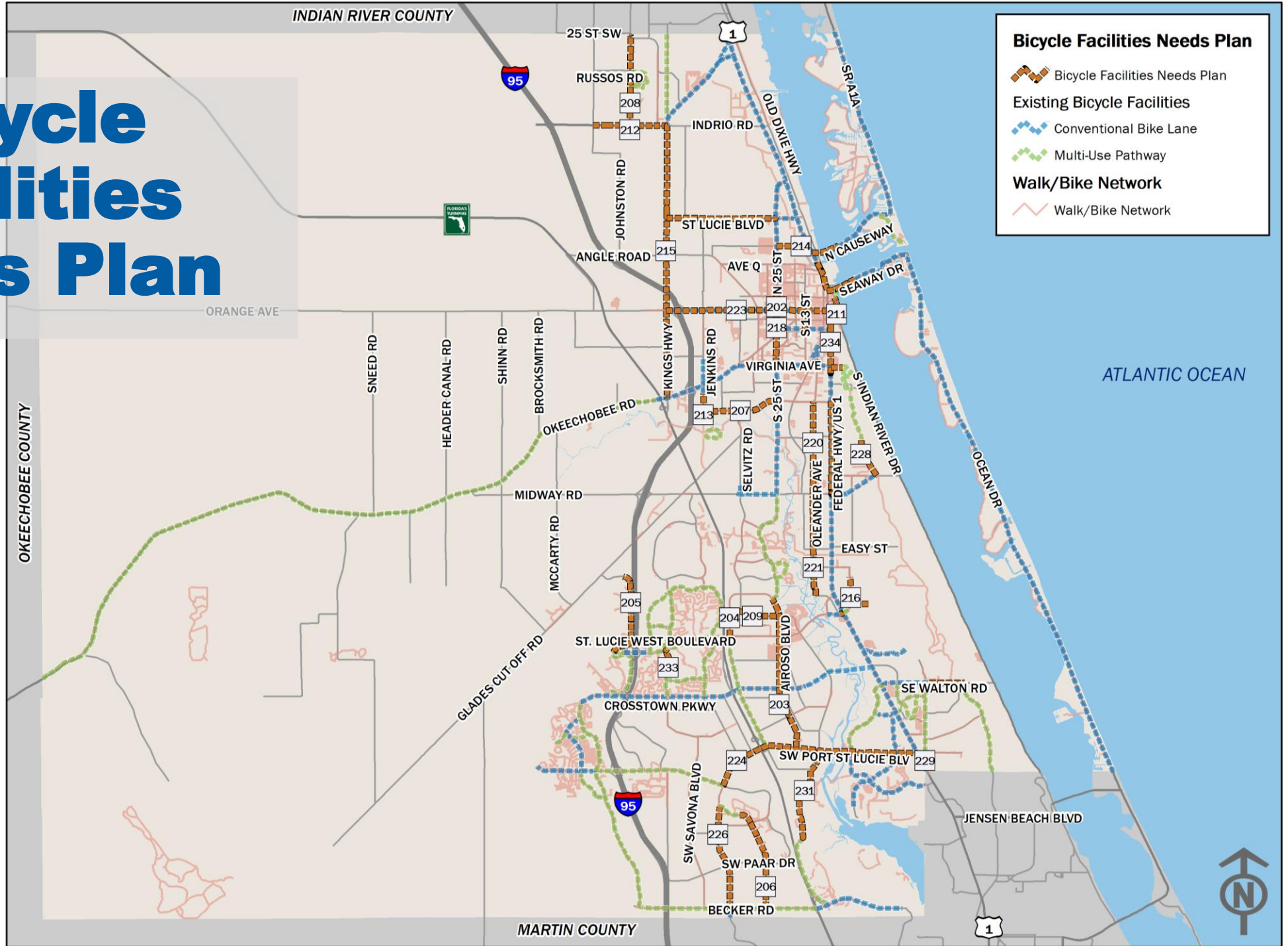
Roadway Needs Plan



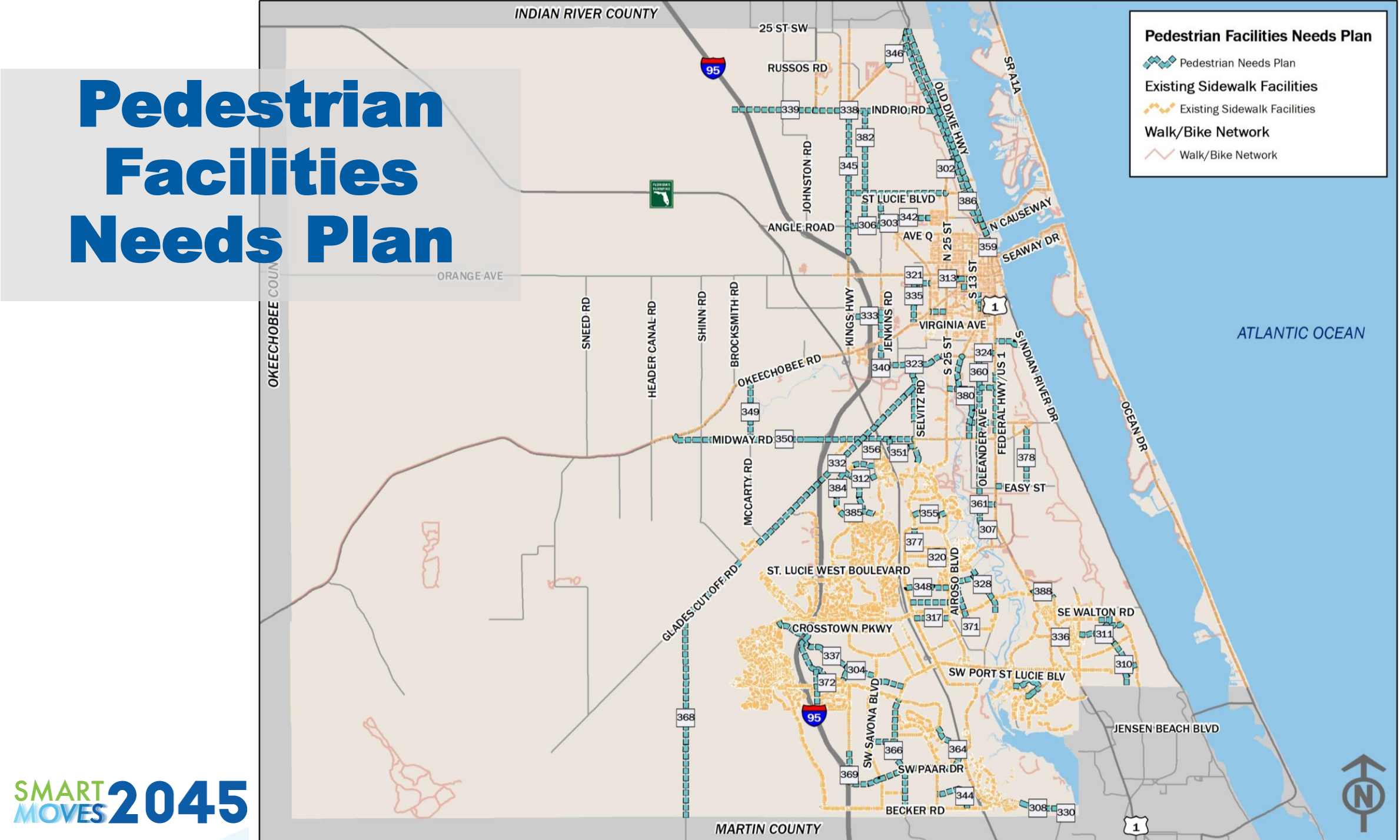
A map of Orange Avenue, showing a street layout with a grid pattern. A vertical line runs through the center, and a horizontal line runs across the middle. The text "Bicycle Facilities Needs Plan" is overlaid in large, bold, blue letters. The text "ORANGE AVE" is written in smaller, blue, uppercase letters at the bottom right of the map.

Bicycle Facilities Needs Plan

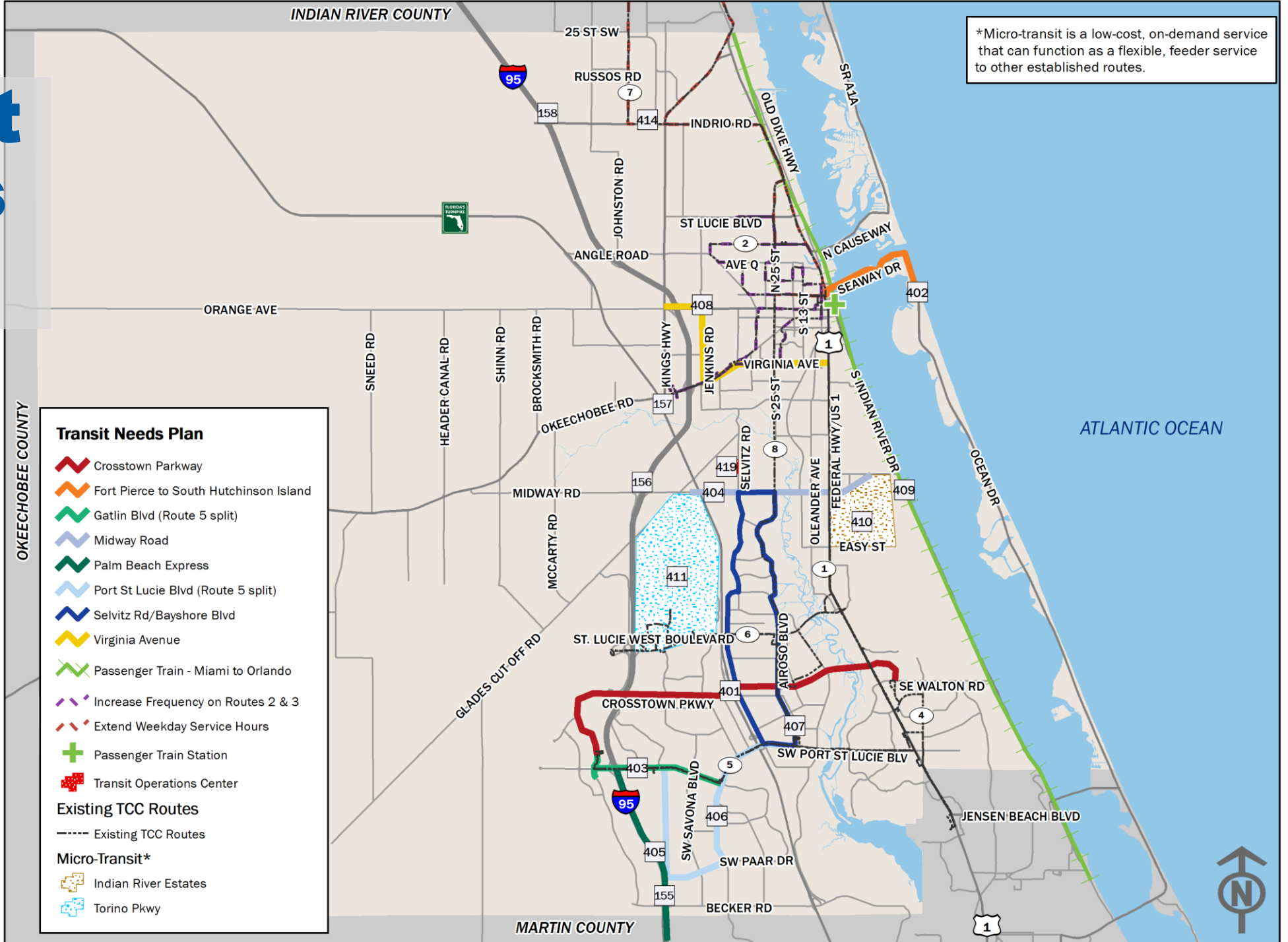
ORANGE AVE



Pedestrian Facilities Needs Plan



Transit Needs Plan



*Micro-transit is a low-cost, on-demand service that can function as a flexible, feeder service to other established routes.

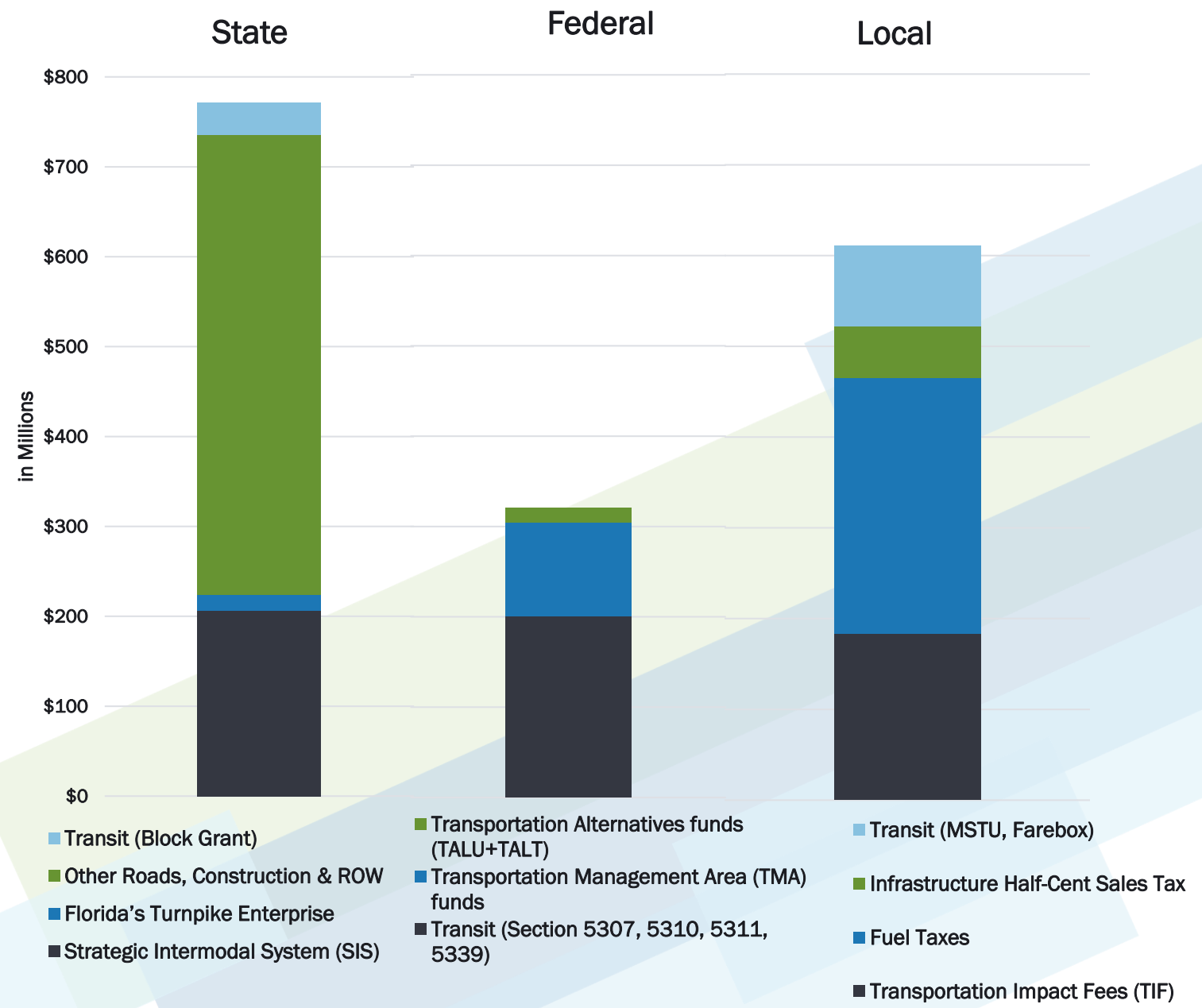


Revenue Projections

- » Provides an overview of how transportation investment will be funded
- » Lays the framework in prioritizing the Multimodal Needs Plan to develop a Cost Feasible Plan
- » Gives a snapshot in time of the current revenue picture and anticipated trends

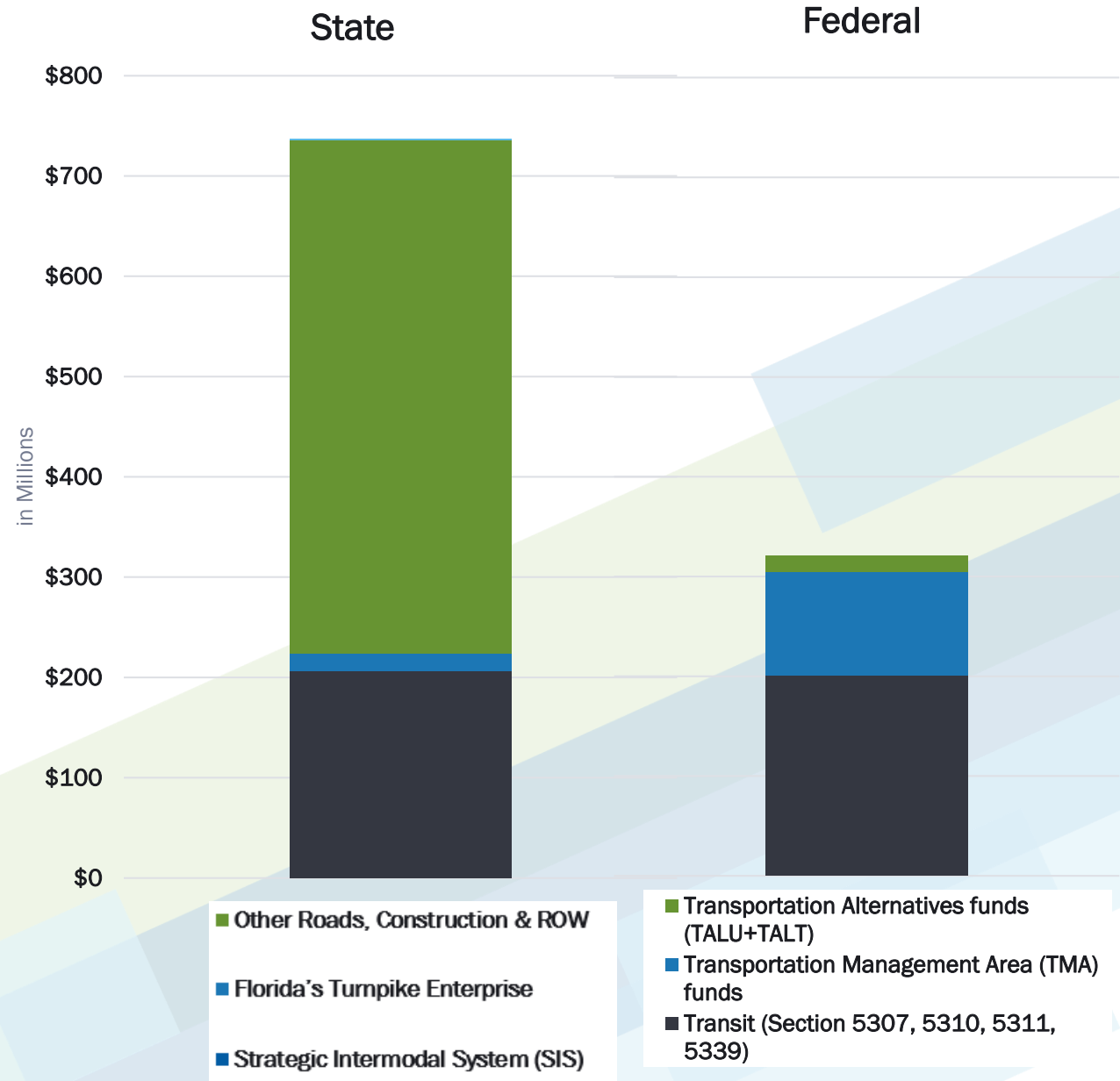
Projected Revenues, 2021 to 2045 in Millions (Year of Expenditure)

» 10% of the Other Roads Construction & ROW can be used for off-system roads.



Projected Revenues, 2021 to 2045 in Millions (Year of Expenditure) available to *SmartMoves 2045*

- » 10% of the Other Roads Construction & ROW can be used for off-system roads.
- » The Transportation Alternatives and Cost Feasible Plan does not account for Local Projected Revenues and State Transit (Block Grant).



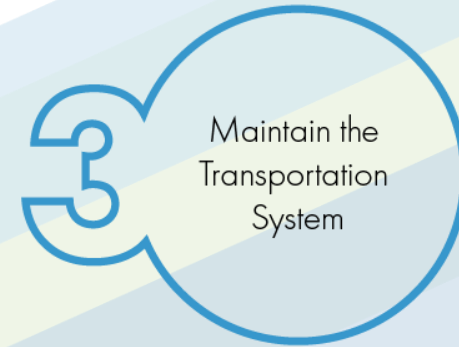


Transportation Alternatives

- » The Multimodal Needs Plan exceeds the available projected revenues.
- » The Transportation Alternatives address travel demand/mobility needs and the community, goals, objectives, and performance targets.

Multimodal Project Priorities

- » Project ranking criteria is linked to the goals, objectives, and performance measures.
- » Each project ranking criterion has a corresponding point value and a project can score a maximum of 100 points.



| Goals | Objectives | Project Ranking Criteria | Score |
|---|---|---|-------|
| Support Economic Activity | Enable the efficient movement of people and goods on the roadway network | 0.85 - 1.00 volume-to-capacity ratios | 1 |
| | | 1.00 - 1.20 volume-to-capacity ratios | 3 |
| | | Greater than 1.20 volume-to-capacity ratios | 5 |
| | | Is the project on the Designated Freight Network? Yes | 5 |
| | Optimize the management and operations of the transportation system | Is the project on the TSM&O Strategic Network/ATMS Network? Yes | 4 |
| | Maximize the efficiency and effectiveness of the current transit system and improve access to destinations that support economic growth | Does project increase service hours or frequency? Yes | 3 |
| Is the project within ¼ mile of a Major Activity Center(s)? Yes | | 3 | |
| Provide travel choices | Encourage walking, cycling, and other micromobility options | Does project fill a gap/enhance existing sidewalk infrastructure? Yes | 3 |
| | | Does project fill a gap/enhance existing multi-use pathways infrastructure? Yes | 4 |
| | | Does project fill a gap/enhance existing bike lanes infrastructure? Yes | 3 |
| | | Is the project on a transit route? Yes | 5 |
| | Improve transit accessibility | Is the project within 1/4 mile of a shared bike locations and/or within the area for designated areas for e-scooter riding? Yes | 5 |
| | | | |
| Maintain the transportation system | Maintain condition of existing roadway transportation assets | Does project improve pavement condition? Yes | 5 |
| | | Does project improve bridge condition? Yes | 5 |
| | Maintain condition of existing transit assets | Does project replace aging fleet? Yes | 10 |
| Provide equitable, affordable, and sustainable urban mobility | Support healthy living strategies, programs, and improvements to create more livable communities | Does project add a sidewalk/multi-use pathways? Yes | 3 |
| | | Does project add a bicycle lane? Yes | 3 |
| | | Does project increase service hours or frequency? Yes | 3 |
| | Ensure community participation is representative | Attendance in public engagement from an Environmental Justice area? Yes | 2 |
| | Provide for transportation needs of transportation disadvantaged | Is project in an Environmental Justice area? Yes | 5 |
| | Make transportation investments that minimize impacts to natural environment and allocate resources toward mitigation | Project is not in an environmentally-sensitive area | 2 |
| | | Project is in environmentally-sensitive area | 1 |
| | Improve transportation system's stability/resiliency in event of climate change, emergencies, or disasters | Is project a vulnerable roadway due to sea level rise? Yes | 2 |
| Improve safety and security | Improve safety and security in the Highway System | Does project address a motorized safety issue? Yes | 10 |
| | Improve safety and security in the Transit System (if applicable) | | |
| | Improve safety and security in the Non-Motorized System | Does project address a non-motorized safety issue? Yes | 10 |

Project Ranking Criteria

Top 10 Projects (all modes)

| Rank | Project Type | Roadway Name | From | To | Points |
|------|-------------------------|--|--------------------|--------------------------|--------|
| 1 | Operational Improvement | US-1 | Martin County Line | Indian River County Line | 74 |
| 2 | Bicycle Facilities | Orange Avenue | Kings Highway | US-1 | 65 |
| 2 | Bicycle Facilities | US-1 | Seaway Drive | Old US Highway 1 | 65 |
| 4 | Bicycle Facilities | US-1 | Gardenia Avenue | Orange Avenue | 60 |
| 5 | Bicycle Facilities | Port St. Lucie Boulevard | Gatlin Boulevard | US-1 | 56 |
| 6 | Bicycle Facilities | N 25th Street | Virginia Avenue | Avenue E | 55 |
| 6 | Bicycle Facilities | US-1 | Baysinger Avenue | Edwards Avenue | 55 |
| 8 | New Transit Services | Fort Pierce to South Hutchinson Island | | | 53 |
| 9 | Widen 4L to 6L | St. Lucie West Boulevard | E of I-95 | Cashmere Boulevard | 52 |
| 10 | New Transit Services | Port St. Lucie Boulevard (Route 5 split) | | | 50 |

Top 10 Projects (roadway)

| Rank | Project Type | Roadway Name | From | To | Points |
|------|---------------------------------|--------------------------|------------------------------|-------------------------------|--------|
| 1 | Operational Improvement | US-1 | Martin County Line | Indian River County Line | 74 |
| 9 | Widen 4L to 6L | St. Lucie West Boulevard | E of I-95 | Cashmere Boulevard | 52 |
| 17 | Neighborhood Traffic Management | Indian River Drive | Martin/St. Lucie County Line | Seaway Drive | 47 |
| 18 | Widen 2L to 4L | Kings Highway | St. Lucie Boulevard | South of Indrio Road | 40 |
| 18 | Widen 2L to 4L | Port St. Lucie Boulevard | Becker Road | Paar Drive | 40 |
| 24 | Widen 2L to 4L | Kings Highway | South of Indrio Road | US-1 | 37 |
| 28 | Operational Improvement | Seaway Drive | Harbor Isle Marina | north of Blue Heron Boulevard | 34 |
| 40 | New 4L | Airport Connector | Florida's Turnpike | Kings Highway | 30 |
| 40 | Widen 2L to 4L | Midway Road | East Torino Parkway | Selvitz Road | 30 |
| 46 | Widen 2L to 4L | Jenkins Road | Altman Road | Orange Avenue | 29 |

Top 10 Projects (bicyclists)

| Rank | Roadway Name | From | To | Points |
|------|--------------------------|------------------|------------------|--------|
| 2 | Orange Avenue | Kings Highway | US-1 | 65 |
| 2 | US-1 | Seaway Drive | Old US Highway 1 | 65 |
| 4 | US-1 | Gardenia Avenue | Orange Avenue | 60 |
| 5 | Port St. Lucie Boulevard | Gatlin Boulevard | US-1 | 56 |
| 6 | N 25th Street | Virginia Avenue | Avenue E | 55 |
| 6 | US-1 | Baysinger Avenue | Edwards Avenue | 55 |
| 13 | Port St. Lucie Boulevard | Becker Road | Darwin Boulevard | 49 |
| 13 | Prima Vista Boulevard | Banyan Drive | US-1 | 49 |
| 27 | Indrio Road | Johnston Road | Kings Highway | 35 |
| 28 | 25th Street | Orange Avenue | Avenue F | 34 |

Top 10 Projects (pedestrian)

| Rank | Roadway Name | From | To | Points |
|------|--------------------------|-----------------------|---|--------|
| 10 | US-1 | North Causeway Bridge | St. Lucie County/Indian River County Line | 50 |
| 10 | US-1 | Traub Avenue | High Point Boulevard | 50 |
| 13 | Port St. Lucie Boulevard | Becker Road | Gatlin Boulevard | 49 |
| 20 | Old Dixie Highway | US-1 Junction | Kings Highway | 39 |
| 28 | Indrio Road | Kings Highway | Old Dixie Highway | 34 |
| 28 | Indrio Road | Aico Road | Kings Highway | 34 |
| 35 | 25th Street | Industrial Avenue | US-1 | 32 |
| 35 | Kings Highway | north of I-95 | Indrio Road | 32 |
| 51 | 53rd Street | Angle Road | Juanita Avenue | 27 |
| 51 | Floresta Drive | Southbend Boulevard | Prima Vista Boulevard | 27 |

Top 10 Projects (transit)

| Rank | Project Type | Roadway Name | Points |
|------|----------------------------------|---|--------|
| 8 | New Transit Services | Fort Pierce to South Hutchinson Island | 53 |
| 10 | New Transit Services | Port St. Lucie Boulevard (Route 5 split) | 50 |
| 16 | New Transit Services | Selvitz Road/Bayshore Boulevard | 48 |
| 20 | Improvements to Existing Service | Increase frequency from 60 minutes to 30 minutes on Route 2 & Route 3 | 39 |
| 20 | Improvements to Existing Service | Expand service hours on Route 7 to reflect the other route schedules (currently 7 am – 6 pm) | 39 |
| 20 | Improvements to Existing Service | Expand Saturday service hours to reflect weekday span of service (currently 8 am – 12 pm/1 pm – 4 pm) | 39 |
| 25 | New Transit Services | Crosstown Parkway | 36 |
| 25 | New Transit Services | Passenger Train – Miami to Orlando | 36 |
| 34 | New Transit Services | Virginia Avenue | 33 |
| 48 | New Transit Services | Midway Road | 28 |

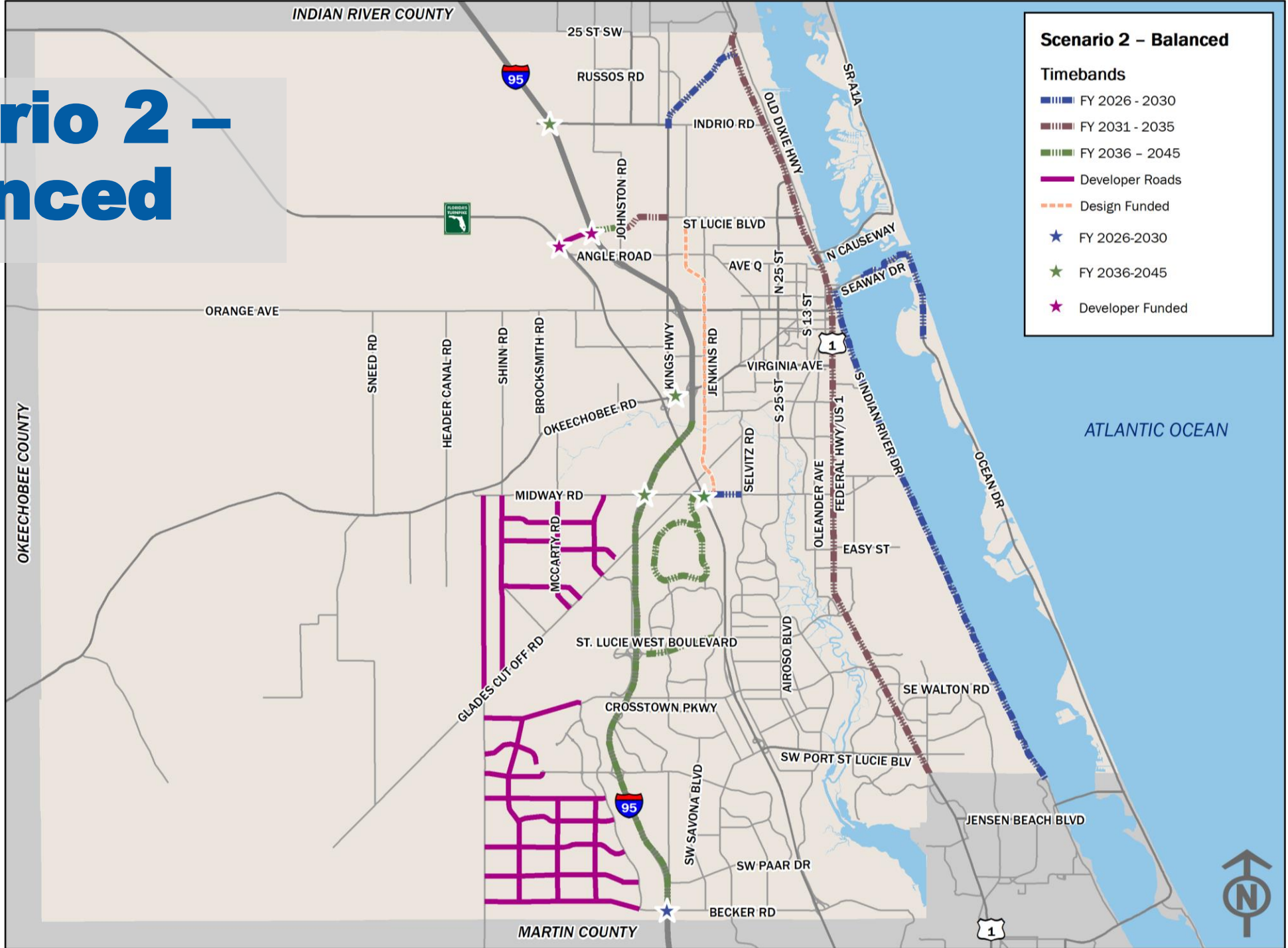
Scenario Themes

- » Mix of investment in modes (Roadway, Bike, Walk, Transit).
- » Three funding scenarios considered
 - » Historical Trend
 - » Balanced
 - » Max Multimodal
- » Aspects common to all funding scenarios
 - » Strategic Intermodal System (SIS)
 - » Continued investment in partially-funded projects in the current TIP
 - » Transit operations and maintenance
 - » ACES Network – park-and-ride lots, EV charging stations, and transit connectivity
 - » Public-private partnerships

| | Scenario 1 – Historical | Scenario 2 – Balanced | Scenario 3 – Max Multimodal |
|---|--|--|--|
| Roadway – Strategic Intermodal System (SIS) | <ul style="list-style-type: none"> I-95 from Martin/St. Lucie County Line to south of Okeechobee Road – Widen 6L to 8L | <ul style="list-style-type: none"> I-95 from Martin/St. Lucie County Line to south of Okeechobee Road – Widen 6L to 8L | <ul style="list-style-type: none"> I-95 from Martin/St. Lucie County Line to south of Okeechobee Road – Widen 6L to 8L |
| Roadway – continued investment in Transportation Improvement Program (TIP) projects | <ul style="list-style-type: none"> Midway Road from East Torino Parkway to Selvitz Road – Widen 2L to 4L Kings Highway from St. Lucie Boulevard to south of Indrio Road – Widen 2L to 4L Port St. Lucie Boulevard from Becker Road to Paar Drive – Widen 2L to 4L | <ul style="list-style-type: none"> Midway Road from East Torino Parkway to Selvitz Road – Widen 2L to 4L Kings Highway from St. Lucie Boulevard to south of Indrio Road – Widen 2L to 4L Port St. Lucie Boulevard from Becker Road to Paar Drive – Widen 2L to 4L | <ul style="list-style-type: none"> Midway Road from East Torino Parkway to Selvitz Road – Widen 2L to 4L Kings Highway from St. Lucie Boulevard to south of Indrio Road – Widen 2L to 4L Port St. Lucie Boulevard from Becker Road to Paar Drive – Widen 2L to 4L |
| Local Roadway projects (funded) | <ul style="list-style-type: none"> Selvitz Road from Glades-Off Road to Edwards Road – Widen 2L to 4L California Boulevard from Crosstown Parkway to St. Lucie West Boulevard – Widen 2L to 4L | <ul style="list-style-type: none"> Selvitz Road from Glades-Off Road to Edwards Road – Widen 2L to 4L California Boulevard from Crosstown Parkway to St. Lucie West Boulevard – Widen 2L to 4L | <ul style="list-style-type: none"> Selvitz Road from Glades-Off Road to Edwards Road – Widen 2L to 4L California Boulevard from Crosstown Parkway to St. Lucie West Boulevard – Widen 2L to 4L |
| Transit Needs Plan | <ul style="list-style-type: none"> Maintain existing transit system – Fixed Route (Routes 1 – 8) and ADA/Paratransit Improvements to existing services New routes identified in TDP | <ul style="list-style-type: none"> Maintain existing transit system – Fixed Route (Routes 1 – 8) and ADA/Paratransit Improvements to existing services New routes identified in TDP | <ul style="list-style-type: none"> Maintain existing transit system – Fixed Route (Routes 1 – 8) and ADA/Paratransit Improvements to existing services New routes identified in TDP |
| Operational Improvements | <ul style="list-style-type: none"> US-1 from Martin County Line to Indian River County Line Seaway Drive from Harbor Isle Marina to north of Blue Heron Boulevard | <ul style="list-style-type: none"> US-1 from Martin County Line to Indian River County Line Seaway Drive from Harbor Isle Marina to north of Blue Heron Boulevard | <ul style="list-style-type: none"> US-1 from Martin County Line to Indian River County Line Seaway Drive from Harbor Isle Marina to north of Blue Heron Boulevard |

| | Scenario 1 – Historical | Scenario 2 – Balanced | Scenario 3 – Max Multimodal |
|---------------------------------|---|---|--|
| Neighborhood Traffic Management | <ul style="list-style-type: none"> Torino Parkway Indian River Drive | <ul style="list-style-type: none"> Torino Parkway Indian River Drive | <ul style="list-style-type: none"> Torino Parkway Indian River Drive |
| Roadway Needs Plan | <ul style="list-style-type: none"> Florida’s Turnpike at Midway Road – New Interchange (ROW cost TBD) Airport Connector from I-95 to Kings Highway – New 4 Lanes Kings Highway from south of Indrio Road to US-1 – Widen 2L to 4L Jenkins Road from Midway Road to Orange Avenue – New 4L/ Widen 2L to 4L (design funding) St. Lucie West Boulevard from I-95 to Cashmere Boulevard – Widen 4L to 6L California Boulevard from Savona Boulevard to Crosstown Parkway – Widen 2L to 4L ACES Network <ul style="list-style-type: none"> I-95 at Becker Road I-95 at Midway Road Okeechobee Road between Florida’s Turnpike and I-95 I-95 at Indrio Road | <ul style="list-style-type: none"> Florida’s Turnpike at Midway Road – New Interchange (ROW cost TBD) Airport Connector from I-95 to Kings Highway – New 4 Lanes Kings Highway from south of Indrio Road to US-1 – Widen 2L to 4L Jenkins Road from Midway Road to Orange Avenue – New 4L/ Widen 2L to 4L (design funding) St. Lucie West Boulevard from I-95 to Cashmere Boulevard – Widen 4L to 6L ACES Network <ul style="list-style-type: none"> I-95 at Becker Road I-95 at Midway Road Okeechobee Road between Florida’s Turnpike and I-95 I-95 at Indrio Road | <ul style="list-style-type: none"> Florida’s Turnpike at Midway Road – New Interchange (ROW cost TBD) Airport Connector from I-95 to Kings Highway – New 4 Lanes Kings Highway from south of Indrio Road to US-1 – Widen 2L to 4L Jenkins Road from Midway Road to Orange Avenue – New 4L/ Widen 2L to 4L (design funding) ACES Network <ul style="list-style-type: none"> I-95 at Becker Road I-95 at Midway Road Okeechobee Road between Florida’s Turnpike and I-95 I-95 at Indrio Road |
| Bicycle & Pedestrian Needs Plan | <p>\$10 million investment</p> <p>15 miles of bicycle facilities</p> <p>20 miles of sidewalks</p> | <p>\$40 million investment</p> <p>60 miles of bicycle facilities</p> <p>80 miles of sidewalks</p> | <p>\$60 million investment</p> <p>90 miles of bicycle facilities</p> <p>120 miles of sidewalk</p> |

Scenario 2 – Balanced



Next Steps

- » Continue the refinement of the Cost Feasible Plan
- » Prepare for the adoption of *SmartMoves 2045* by February 2021