



An À La Carte Approach to Incorporate Sustainable Processes and Projects at JTA

Alexander Traversa
Planner – Environment, Sustainability & TOD
Planning & System Development



AGENDA

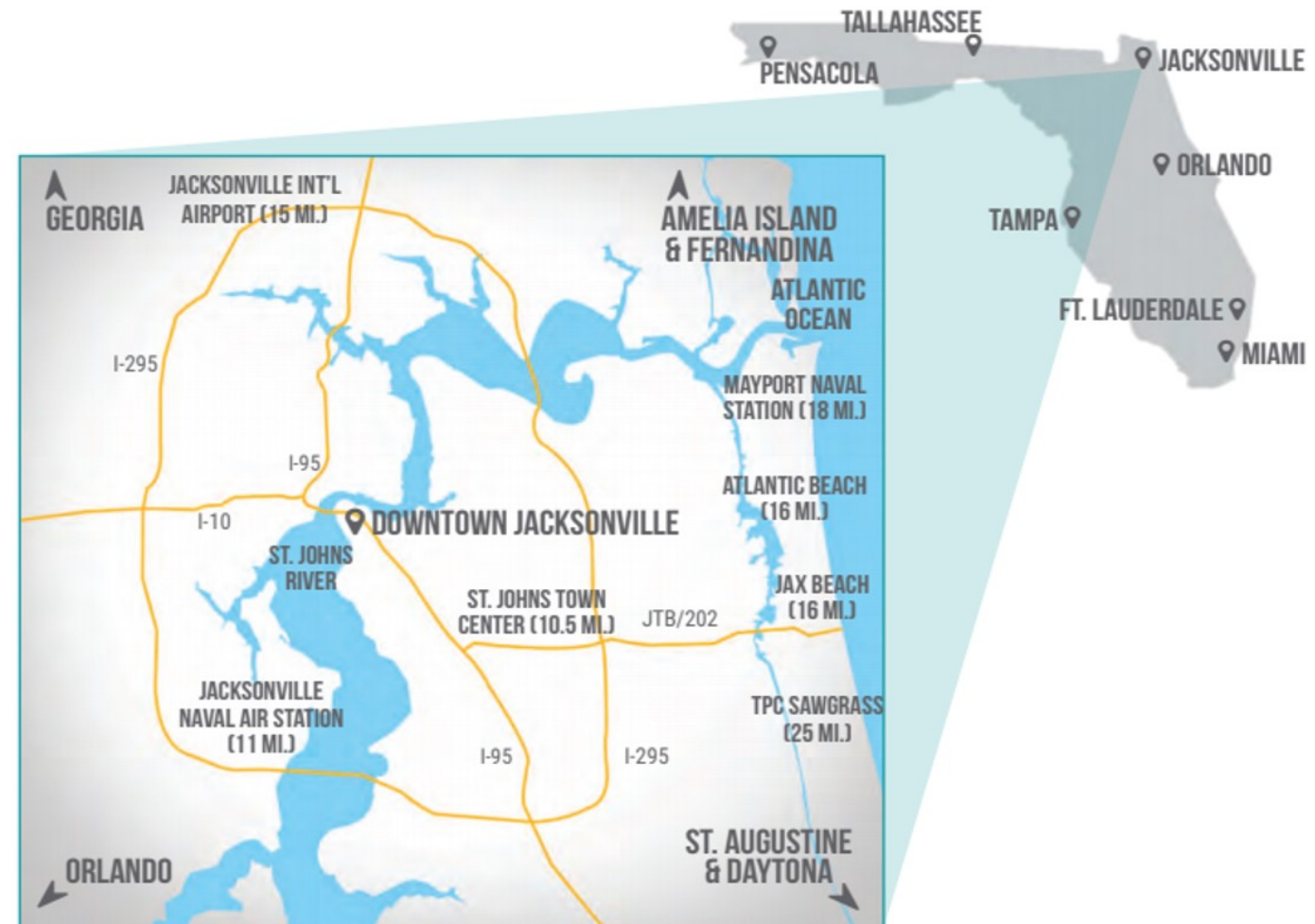
1. About JTA
2. Past Achievements
3. Challenges to Sustainability
4. Sustainability Action Plan
5. Path Forward





About JTA

- Jacksonville, FL
 - Population – 937,934
 - Area – 884 Sq Miles
- Mid-sized Public Transit System
 - 230 Buses
 - Skyway (APM)
 - Ferry
 - Redit-ride (DR)
 - Paratransit
- 769 Employees



Source: Downtown Vision Inc.



Sustainable Achievements



JTA Commits to APTA Sustainability Commitment

- JTA Sustainability Champion Selected and Committee Formed
- Sustainability Incorporated into Authority Mission and Vision Statements

First Coast Flyer Launches Using CNG Buses

- CNG Fueling Station Constructed



Sustainability KPI Added to Agency-wide Monthly Metrics

Myrtle Campus LED Lighting Retrofit

IBT Construction and LEED Silver Certification

Construction of Jacksonville Regional Transportation Center at LaVilla



Sustainability
Action Plan



Challenges



Financial
constraints



Lack of senior
management
commitment



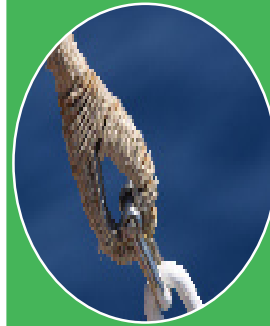
Not an
organizational
priority



Conflicting
priorities



Lack of
employee
commitment
/enthusiasm



Perception of
performance



Perception of
costs



Lack of
knowledge





Sustainability Action Plan Overview

| | |
|------------|--|
| SOLUTIONS | Kick Off Meeting / Interviews |
| | Data Collection / Baseline / Benchmark |
| | Solutions Memorandum |
| ENGAGEMENT | Collaborative Workshops |
| | Development of Goals and Projects |
| | Draft Sustainability Action Plan |
| RESULTS | Funding, Programming and Monitoring |
| | Final SAP |
| | Approval |

Water Use &
Pollutant
Discharge

Facility
Energy Use

Materials
Management

Fleet
Operations

Healthy
Communities

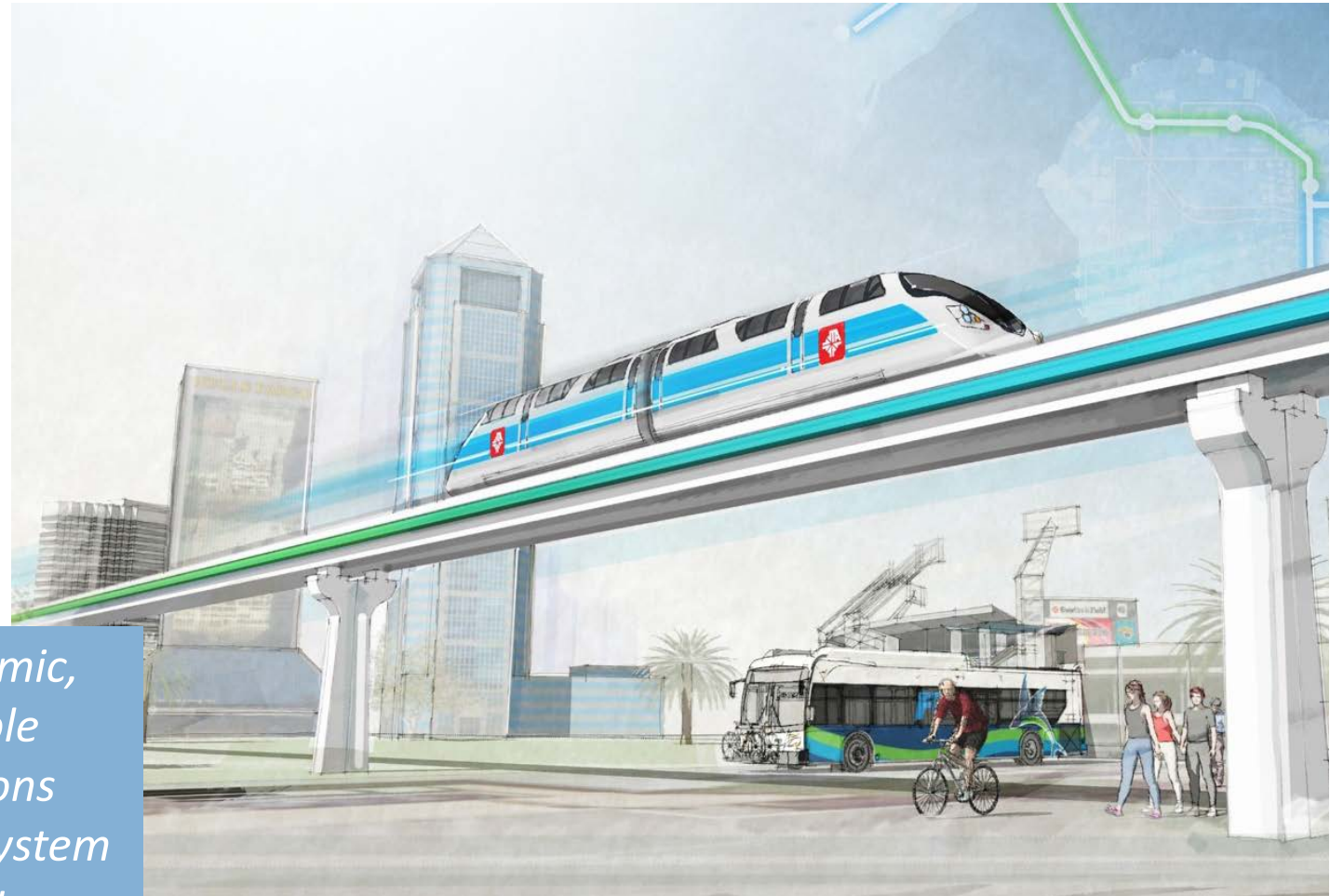
Economic
Vitality



Sustainability Action Plan

- Existing conditions and baseline metrics – Solutions memo
- Development of a sustainability vision, goals, and a portfolio of projects
- Development of an Implementation strategy

“JTA will provide universal access to dynamic, resource-efficient and fiscally responsible transportation and infrastructure solutions that improve quality of life, minimize ecosystem impacts, and enhance economic viability in Northeast Florida.”





Sustainability Action Plan

| # | Focus Area | Goal |
|----|-----------------------------------|--|
| 1 | Water Use and Pollutant Discharge | Reduce potable water consumption for JTA Operations by 50%. |
| 2 | Water Use and Pollutant Discharge | Retrofit 100% of facilities to use non-potable water for irrigation. |
| 3 | Facility Energy Use | Source 50% of facility energy use from renewable resources. |
| 4 | Facility Energy Use | Reduce facility energy consumption by 25%. |
| 5 | Fleet Operations | Require 85% of the revenue fleet meet Green Transportation Criteria. |
| 6 | Fleet Operations | Require 85% of the non-revenue fleet meet Green Transportation Criteria. |
| 7 | Fleet Operations | Displace 85% of fossil fuel use with Green Transportation Criteria fuels. |
| 8 | Materials Management | Divert 50% of total passenger and operations waste from the landfill. |
| 9 | Materials Management | Require 60% of applicable purchases to meet its Sustainable Purchasing Criteria. |
| 10 | Healthy Communities | Increase employee Go365 Participation by 50%. |
| 11 | Healthy Communities | Provide last-mile amenities at 100% of identified transit hubs. |
| 12 | Healthy Communities | Provide access to local / healthy foods at 100% of identified transit hubs. |
| 13 | Economic Vitality | Operate a Revolving Fund for Sustainability Program projects. |
| 14 | Economic Vitality | Incorporate sustainability criteria into 80% of events. |
| 15 | Economic Vitality | Publish an annual sustainability report and provide sustainability training to 100% of new employees in the on-boarding process. employees. |

**These goals will be achieved by 2025.*



Sustainability Action Plan

- \$2.3 Million in Net Benefit over 10 years
- Environmental Benefits
 - Save 108 million gallons of water
 - Save 6.5 million kilowatt-hours of energy
 - Save 2.9 million gallons of petroleum fuels
 - Divert 6,850 tons of waste from the landfill
 - Reduce CAP and avoid 33,000 tons of GHG emissions

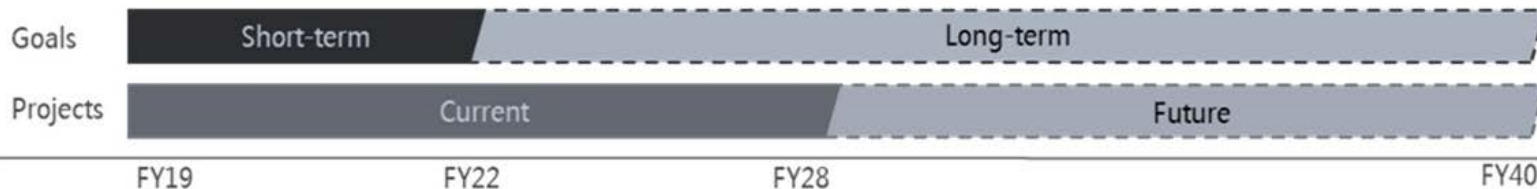
| Project | Net Benefit* | Investment |
|---|--------------|-------------|
| Reclaimed Water for Bus Wash | \$162,000 | \$683,000 |
| Alternative Water Supply for Irrigation | \$19,000 | \$186,000 |
| Water Smart Irrigation | \$11,000 | \$41,000 |
| Flow and Flush Fixture Efficiency in New & Existing Buildings | \$237,000 | \$40,099 |
| HVAC Upgrades | \$11,000 | \$57,000 |
| Lighting Upgrades | \$63,000 | \$355,911 |
| Renewable Energy Projects | \$685,000 | \$755,480 |
| Submetering | \$15,000 | \$20,280 |
| Waste Audit and Recycling Revenue | \$25,000 | \$43,000 |
| Paperless Office / Printer Replacement | \$76,000 | \$0 |
| Establish a JTA Sustainable Purchasing Program | \$51,000 | \$0 |
| Expand Recycling Infrastructure at Bus Stops | -\$19,000 | \$70,000 |
| Green Transportation Criteria for Connexion (CTC) Vehicles | \$534,000 | \$1,926,568 |
| Anti-Idling Technology | \$176,000 | \$421,200 |
| Green Transportation Criteria for Non-Revenue Fleet | \$118,222 | \$310,396 |
| Expand local food programs | \$0 | \$0 |
| Implement First / Last-mile Mobility Amenities | \$0 | \$0 |
| Increase participation in Go365 program | \$35,000 | \$0 |
| Sustainability Training and Certifications | \$41,000 | \$20,600 |
| Sustainability Revolving Fund | \$0 | \$0 |
| Green Event Policies | \$0 | \$0 |
| Sustainability Branding Program | \$0 | \$0 |
| Sustainability Data Management / Reporting / Stakeholder Communications | \$11,000 | \$50,000 |
| Total | \$2,250,000 | \$4,960,000 |



Sustainability Action Plan

- Implementation Strategy
 - Management
 - KPI
 - Reporting
 - Funding
 - Schedule

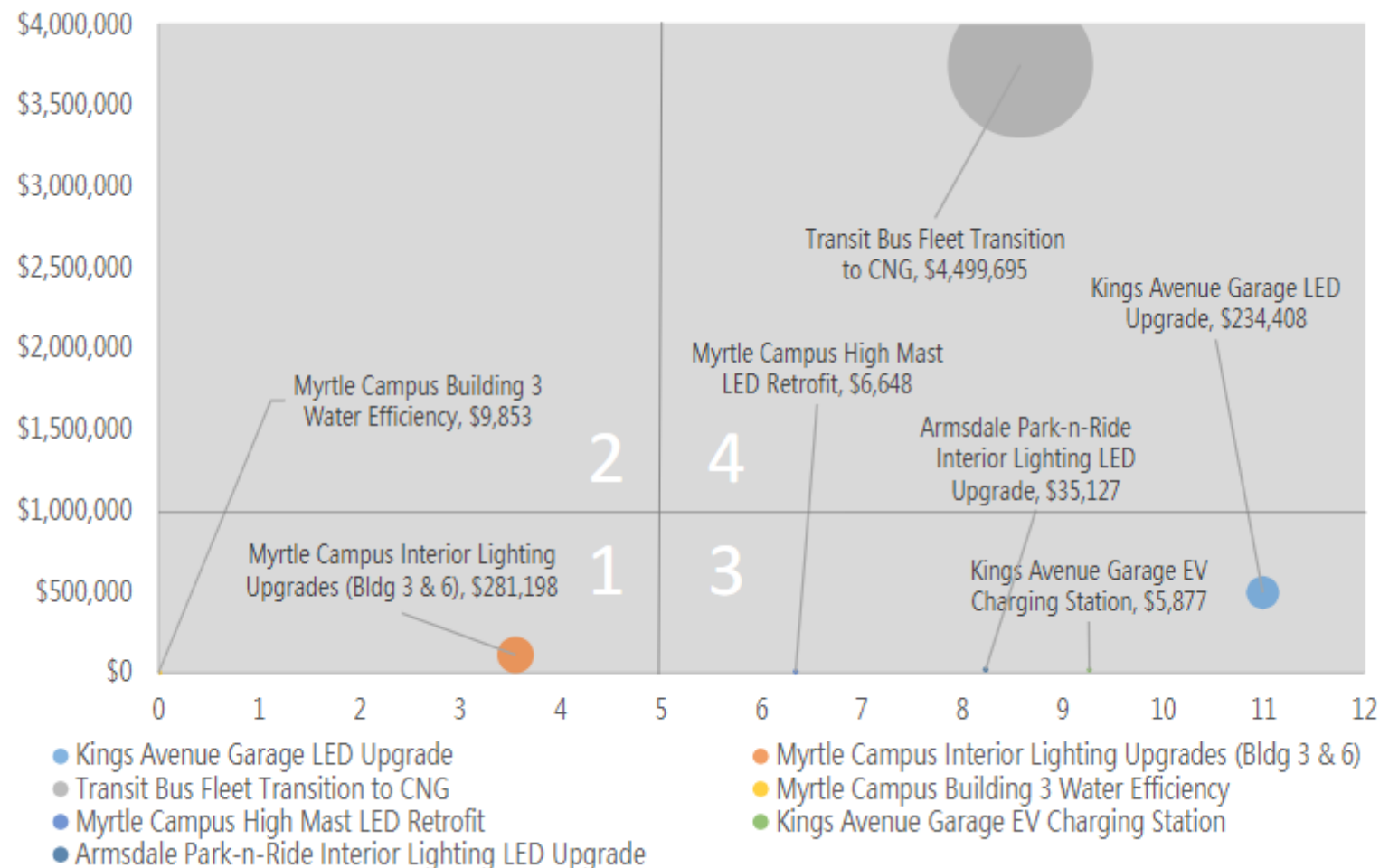
| Project | Project | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2028 | Total |
|-----------------------------------|---|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
| Reclaimed Water | Reclaimed Water for Bus Wash | | | | | | | | | | | \$65,000 | \$683,000 |
| Alternative Water | Alternative Water Supply for Irrigation | | | | | | | | | | | \$18,000 | \$186,000 |
| Water Smart Irrig | Water Smart Irrigation | | | | | | | | | | | \$2,000 | \$41,000 |
| Flow and Flush F | Flow and Flush Fixture Efficiency in New & Existing Buildings | | | | | | | | | | | \$0 | \$40,099 |
| HVAC Upgrades | HVAC Upgrades | | | | | | | | | | | \$13,000 | \$57,000 |
| Lighting Upgrad | Lighting Upgrades | | | | | | | | | | | \$0 | \$355,911 |
| Renewable Energ | Renewable Energy Projects | | | | | | | | | | | \$1,268 | \$754,182 |
| Submetering | Submetering | | | | | | | | | | | \$0 | \$20,280 |
| Waste Audit and | Waste Audit and Recycling Revenue | | | | | | | | | | | \$0 | \$43,000 |
| Paperless Office | Paperless Office / Printer Replacement | | | | | | | | | | | \$0 | \$0 |
| Establish a JTA S | Establish a JTA Sustainable Purchasing Program | | | | | | | | | | | \$0 | \$0 |
| Expand Recycling | Expand Recycling Infrastructure at Bus Stops | | | | | | | | | | | \$0 | \$70,000 |
| Green Transport | Green Transportation Criteria for Connexion (CTC) Vehicles | | | | | | | | | | | \$0 | \$1,926,568 |
| Enforce Anti-Idlr | Enforce Anti-Idling Policy | | | | | | | | | | | \$0 | \$421,200 |
| Green Transport | Green Transportation Criteria for Non-Revenue Fleet | | | | | | | | | | | \$0 | \$310,396 |
| Expand local foo | Expand local food programs | | | | | | | | | | | \$0 | \$0 |
| Implement First | Implement First / Last-mile Mobility Amenities | | | | | | | | | | | \$0 | \$0 |
| Increase particip | Increase participation in Go365 program | | | | | | | | | | | \$1,260 | \$20,600 |
| Sustainability Tra | Sustainability Training and Certifications | | | | | | | | | | | \$0 | \$0 |
| Sustainability Re | Sustainability Revolving Fund | | | | | | | | | | | \$0 | \$0 |
| Green Event Poli | Green Event Policies | | | | | | | | | | | \$0 | \$0 |
| Sustainability Br | Sustainability Branding Program | | | | | | | | | | | \$0 | \$0 |
| Sustainability Da | Sustainability Data Management / Reporting / Stakeholder Communications | | | | | | | | | | | \$0 | \$50,000 |
| Total | | \$1,552,774 | \$702,228 | \$576,756 | \$423,948 | \$568,629 | \$260,391 | \$266,664 | \$269,810 | \$257,508 | \$100,528 | \$100,528 | \$4,979,235 |
| Total Estimated Annual Investment | | | | | | | | | | | | | |





Path Forward

- Manage, budget, schedule, and commit
- Presenting the financial case
- Begin employee education/engagement process – Continuation of workshops
- Public Engagement and Annual Updates
- Prioritizing “slam dunk” projects





Questions?



Alexander Traversa
atraversa@jtafla.com
(904) 632 - 5501