

“Leveraging Transportation, Technology & Energy”

North Florida Transportation Planning Organization

PLAN • FUND • MOBILIZE

2040 Long Range Transportation Plan



Needs Plan

\$27 Billion

700 Projects

Cost Feasible Plan

\$14.1 Billion

2040 Long Range Transportation Plan

PLAN HIGHLIGHTS

INVESTMENTS



ROADS
\$8.9 billion



TRANSIT
\$2.4 billion



**BICYCLE AND
PEDESTRIAN**
\$303 million



FREIGHT
\$2.5 billion

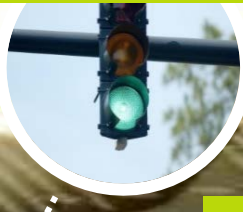


**SAFETY AND
TSM&O***
\$34 million

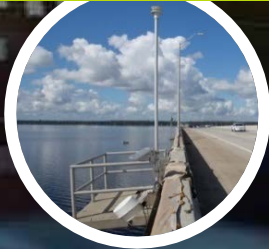
Closed Circuit Television Cameras



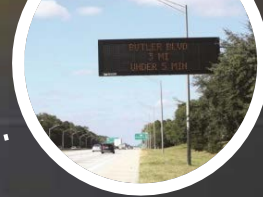
Traffic Signal Controller



Road Weather Info System



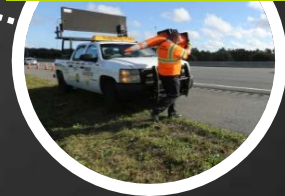
Dynamic Message Sign



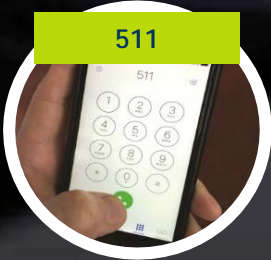
Regional Transportation Management Center



Road Ranger



511



Blue TOAD Sensor



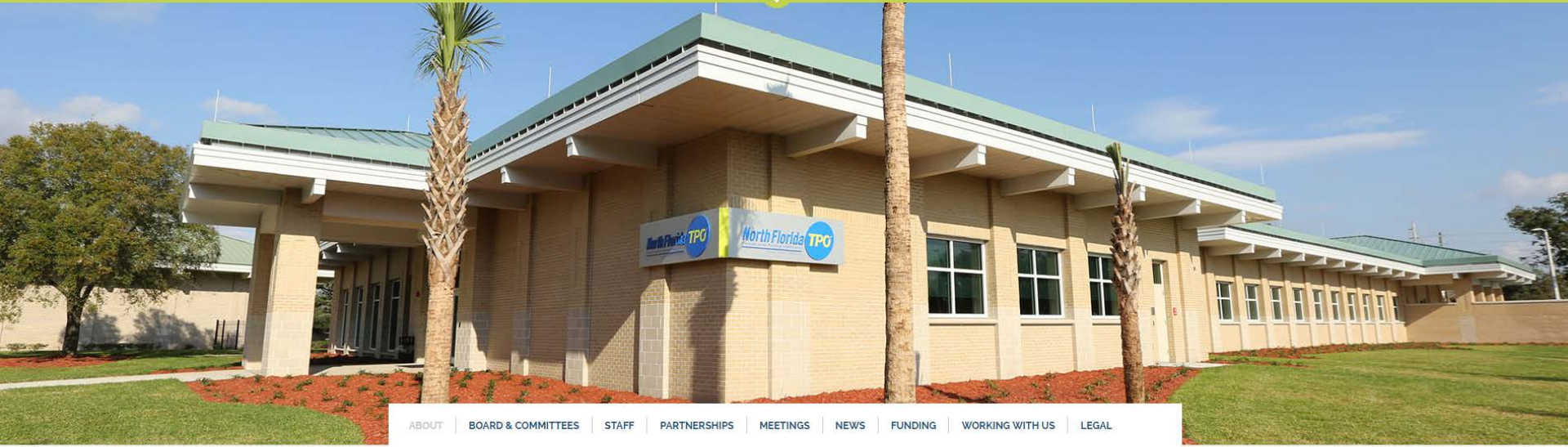
Vehicle Detection Sensor



North Florida Regional Transportation Management Center (RTMC)



ABOUT



- ABOUT
- BOARD & COMMITTEES
- STAFF
- PARTNERSHIPS
- MEETINGS
- NEWS
- FUNDING
- WORKING WITH US
- LEGAL

The North Florida Transportation Planning Organization (TPO) is the independent regional transportation planning agency for Duval, Clay, Nassau and St. Johns counties.

Resources



North Florida Regional Transportation Management Center (RTMC)

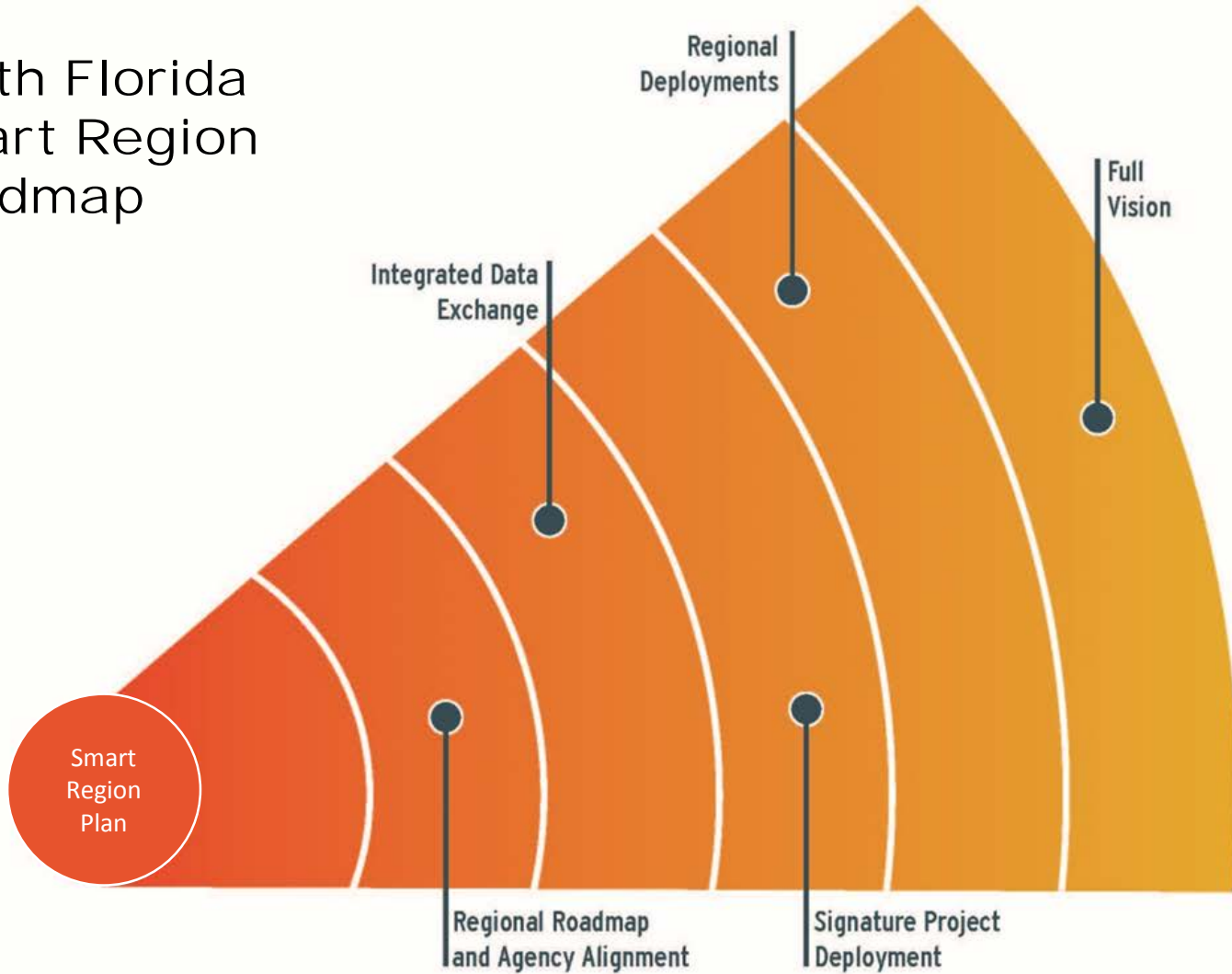




North Florida Smart Region

How smart technologies and strategies will create a safer, more efficient and reliable transportation system to improve our region's economic competitiveness, sustainability and quality of life.

North Florida Smart Region Roadmap

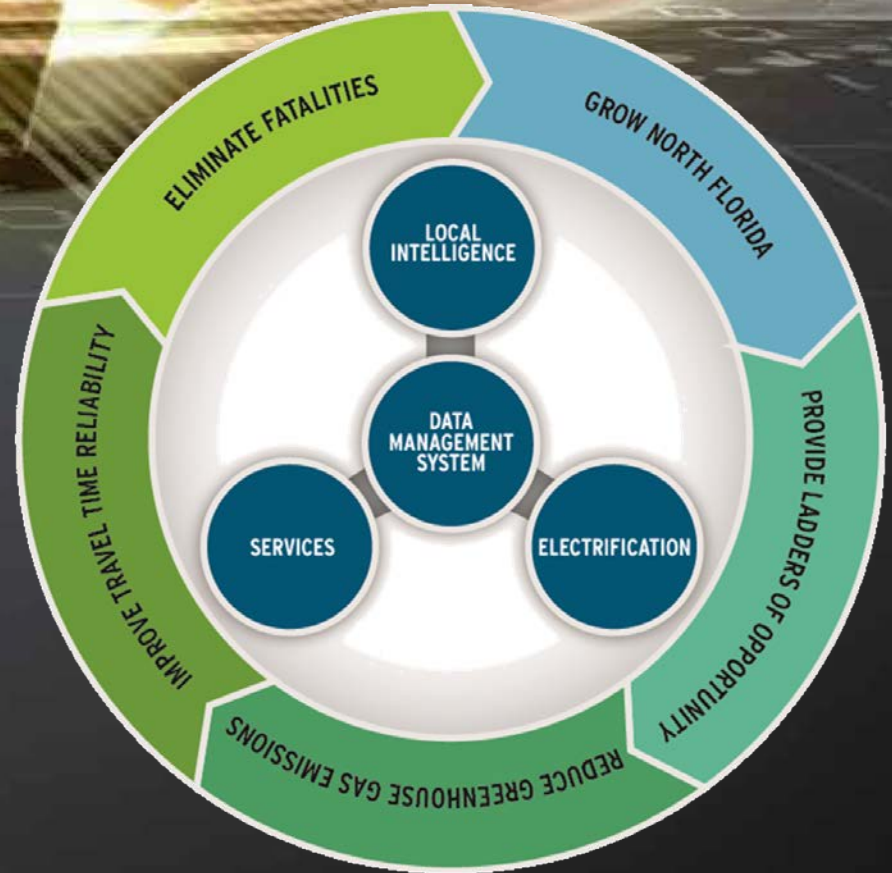


Objectives

- Eliminate Fatalities
- Improve Travel Time Reliability
- Reduce Greenhouse Gas Emissions
- Provide Ladders of Opportunity
- Grow North Florida

Project Categories

- Local Intelligence
- Electrification
- Services
- Data Management System





Smart Pedestrian Crossings



Pedestrian Avoidance Systems



Street Flooding Warning Systems



Gate Notification and Parking Systems



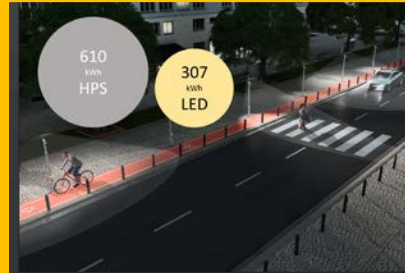
Rail Crossing Notification Systems



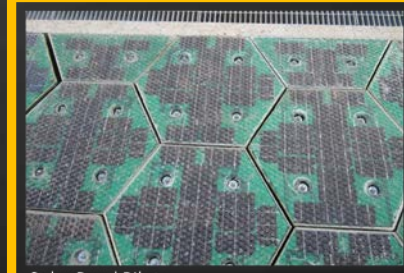
Greenwave Systems



Automated Vehicle Systems

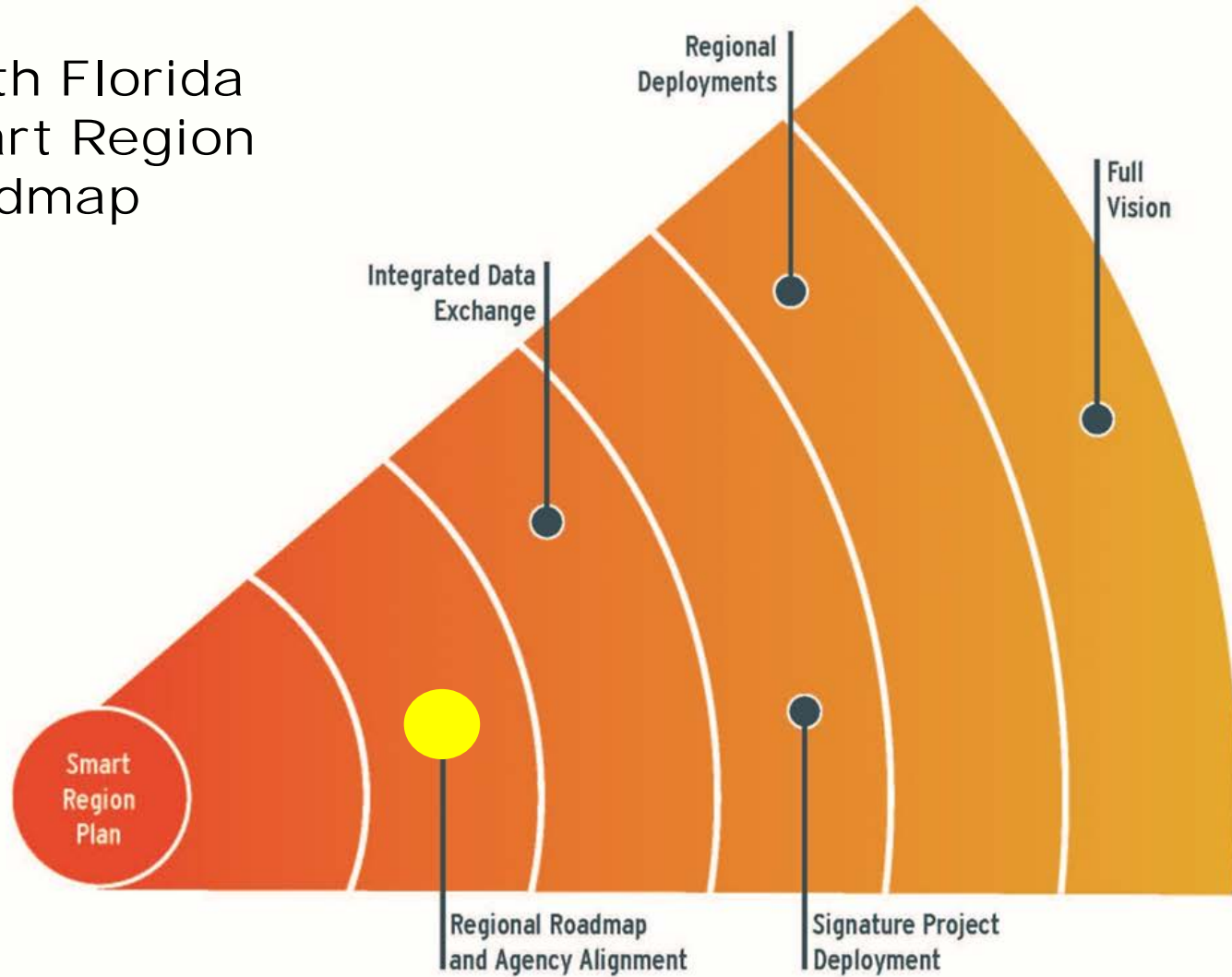


Smart Lighting Systems



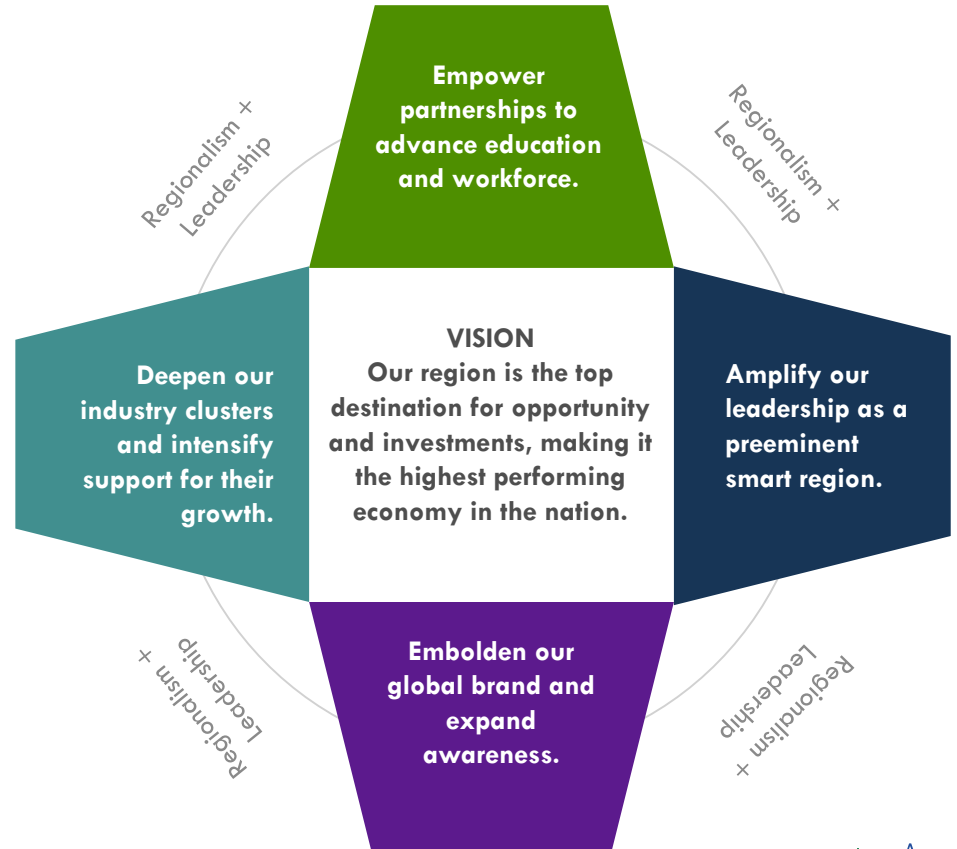
Solar Road Pilot

North Florida Smart Region Roadmap

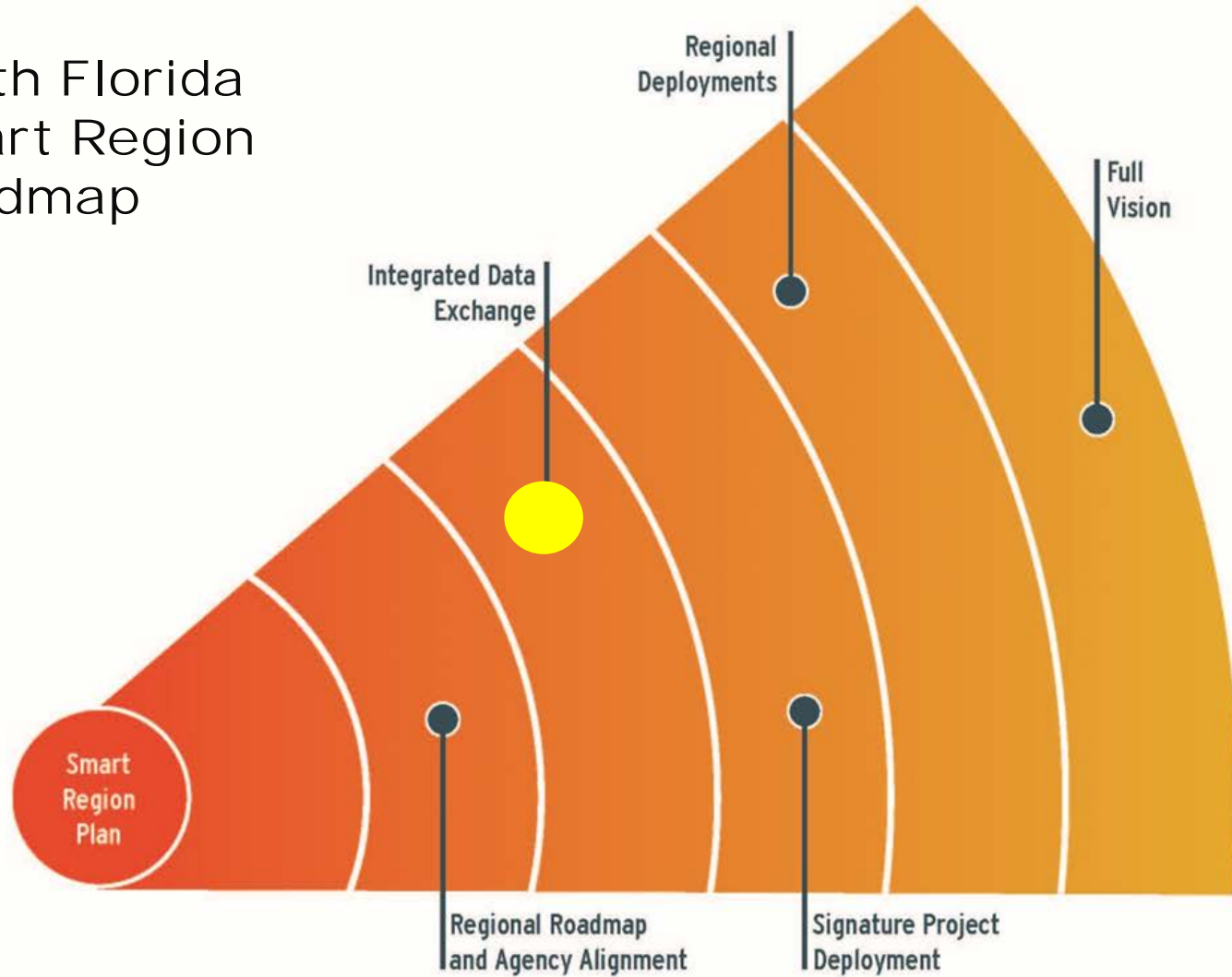


5- Year Economic Development Strategic Framework

JAXUSA Partnership, the private, nonprofit division of the JAX Chamber, is the economic development initiative overseeing efforts in the seven-county Northeast Florida region



North Florida Smart Region Roadmap



NORTH FLORIDA SMART REGION VISION

- Air quality monitoring
- Rapid response information



- Smart recycling
- Sophisticated waste management



- Demand responsive distribution
- Intelligent meters



- Building environmental conditions
- Incident response management
- Remote monitoring and management



- Infrastructure monitoring
- Predictive maintenance
- Security and safety detection and notification



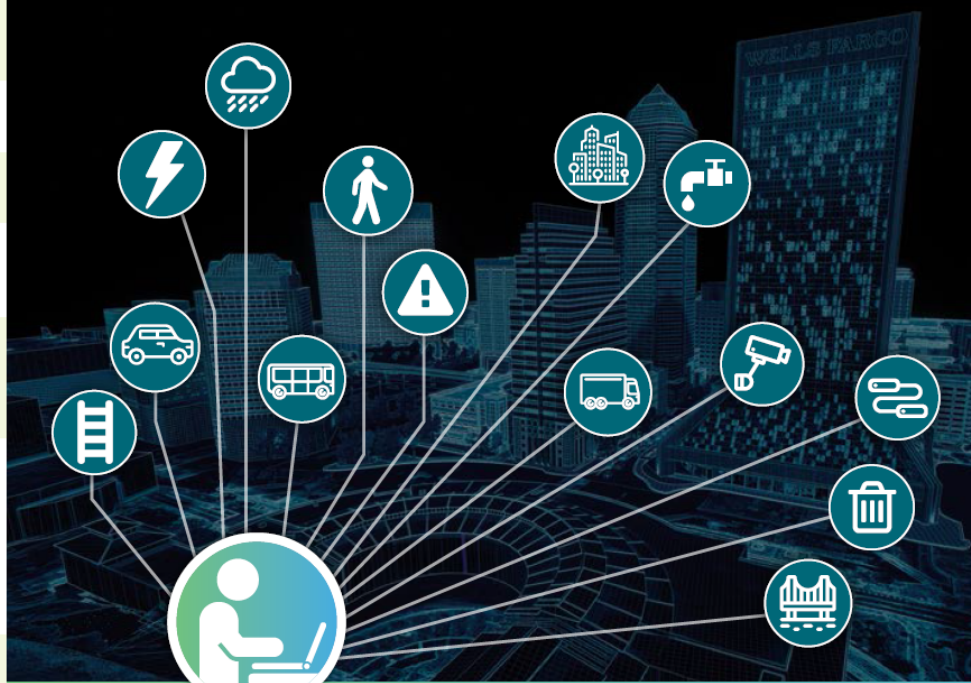
- Car sharing
- Connections to transit
- Ride sharing incentives
- Remote health care
- Smart cards
- Transportation for the disadvantaged
- Technology jobs



- Integrated data exchange
- Public WiFi
- Regional shared fiber
- Security



- Connected vehicles and corridors
- Integrated corridor management
- Smart parking management
- Pedestrian warning and detection



- Automated vehicles
- Neighborhood connectors
- Special event management
- Skyway modernization (U2C)
- Transit signal priority



- Bike sharing
- Pedestrian and bicycle warning
- Wayfinding and event management kiosks
- Smart lighting



- Loading zone parking management
- Rail crossing safety system
- Truck parking on Interstates
- Truck parking at JAXPORT
- Truck priority at key locations



- Automated parking enforcement
- Crime detection and notification
- Incident management
- Gunshot detection
- Rail crossing notification
- Traffic information for first responders



- High wind warnings
- Street flooding warnings
- Visibility warnings (fog and rain)



- CNG and LNG logistics
- Electric vehicle charging stations
- Solar roads and paths
- Smart grid
- Advanced detection lighting sensors
- Smart recycling
- Intelligent water distribution



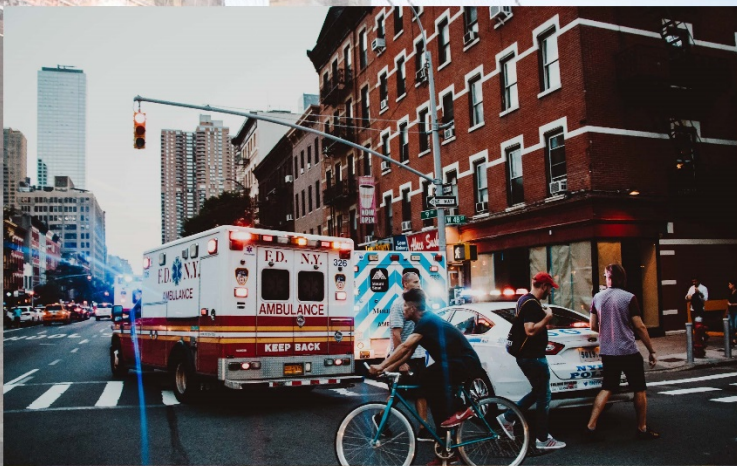
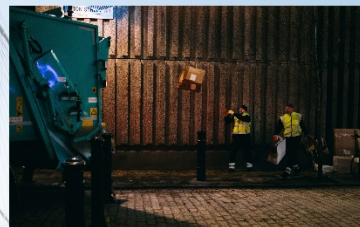
ELIMINATE FATALITIES

GROW NORTH FLORIDA

PROVIDE OPPORTUNITY

REDUCE EMISSIONS

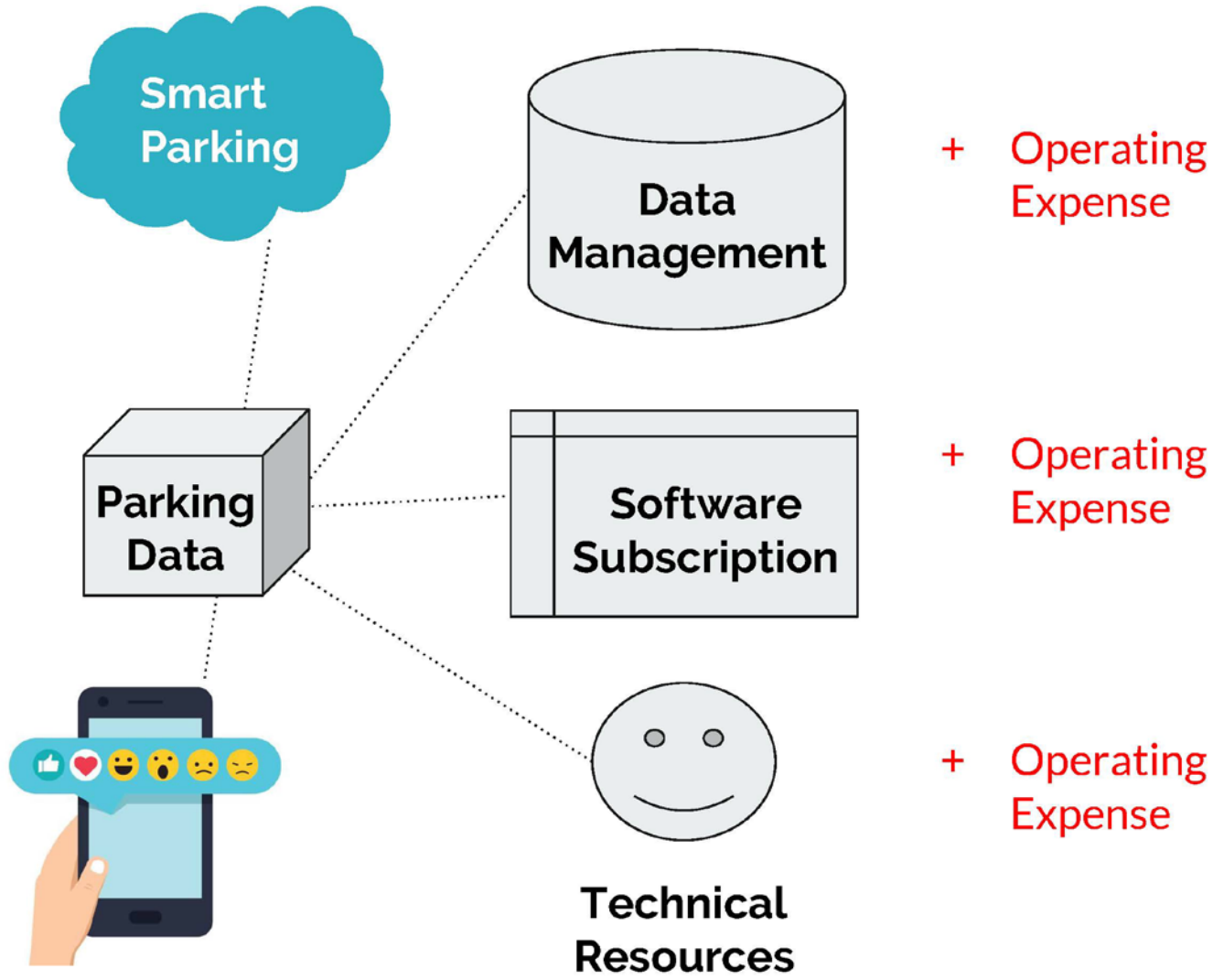
IMPROVE RELIABILITY



Devices managed by governments

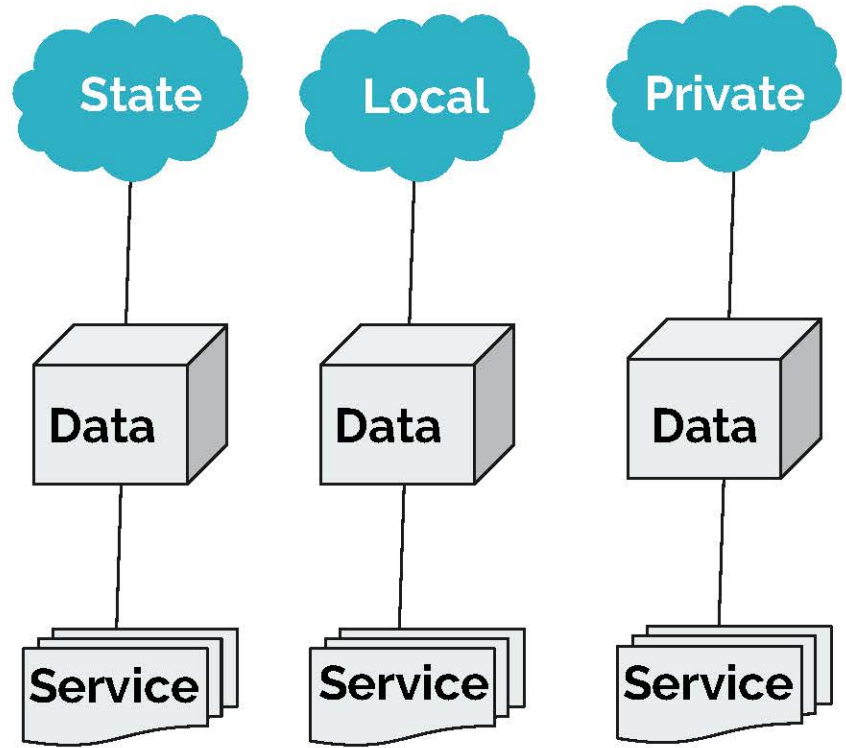


Smart Council



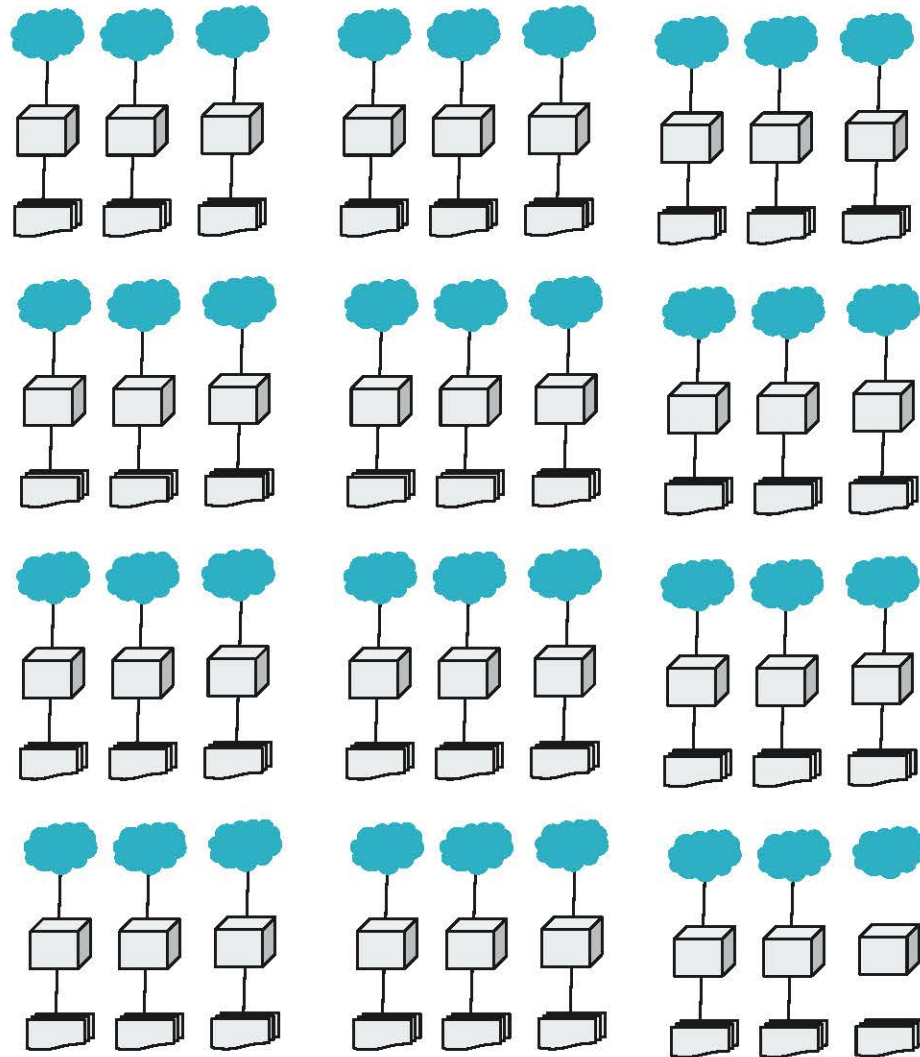
Current State: Disparate Systems

Today our ecosystem is widely disconnected in data silos.



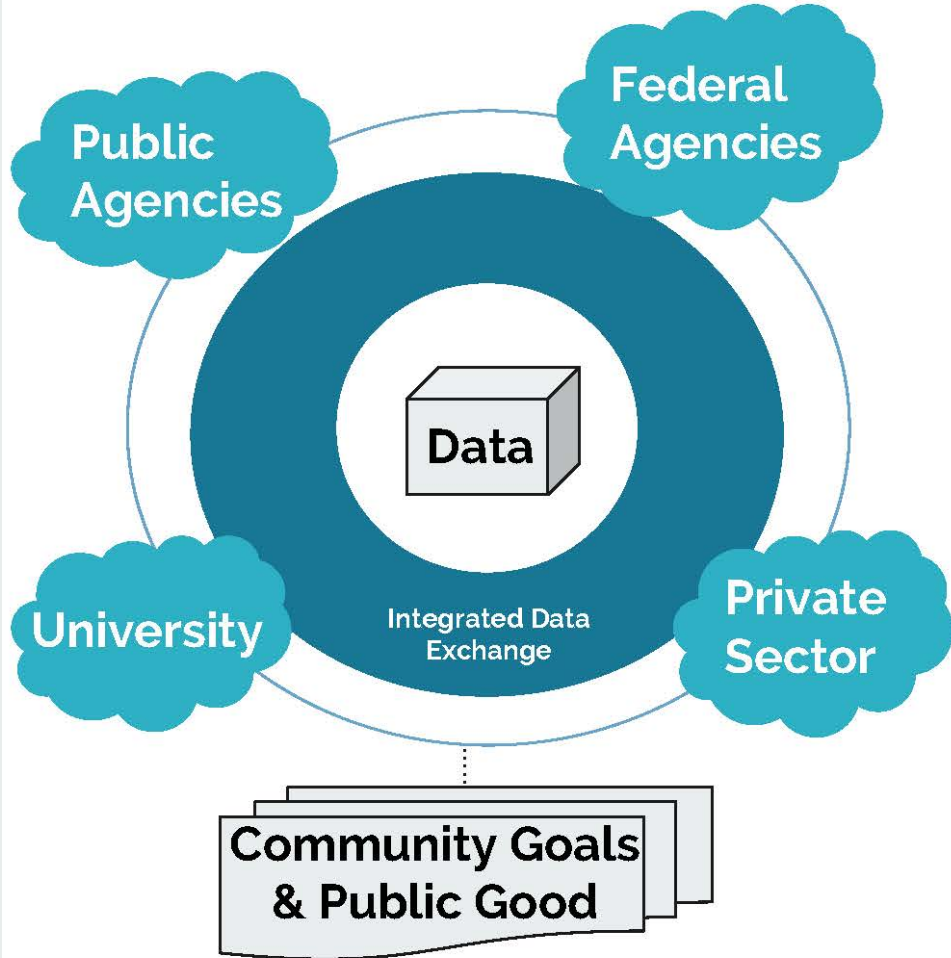
Future State: Disparate Systems

The increase in data
will strain public IT
resources.

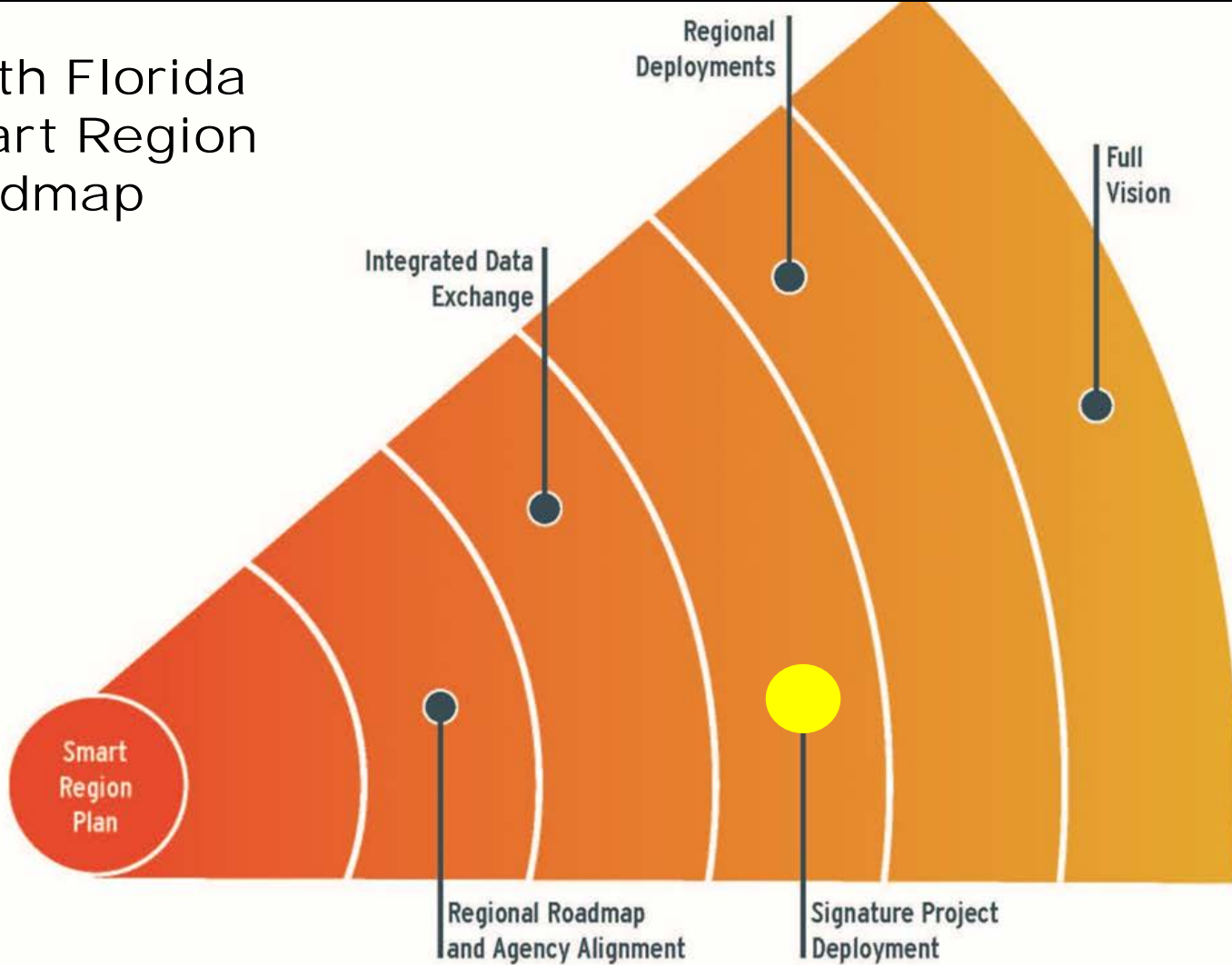


Common Data Model Management

1. Interoperability
2. Cost Efficiency
3. Shared Benefits
4. Analytics



North Florida Smart Region Roadmap





THE BAY JAX

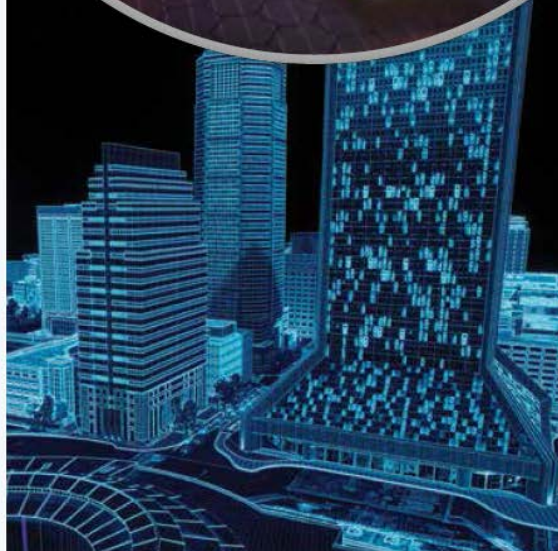
innovation corridor

The BayJax, an innovation corridor along Bay Street, will be an important first step in creating a safer, smarter region, growing Jacksonville and North Florida as a rising center for technology jobs, e-commerce, telecommunications and education.

IMAGINE...

- People, infrastructure, cars and services will be connected through a public broadband network to give you the information needed to meet your shopping, entertainment and mobility needs in real-time.
- You can use bus rapid transit or automated vehicles to reach destinations along the corridor.
- Sensors know when you cross the street and notify drivers.
- Signals are connected to vehicles to optimize traffic flow.
- Lanes change colors to direct traffic for special events.
- The electricity needed to power the signals and lighting in the corridor is generated in the sidewalks using solar panels.
- During storms, flood warning sensors provide time to evacuate safely.

Working with our partners in the Smart Region Coalition - the City of Jacksonville, JAX Chamber, Downtown Investment Authority, JTA, JEA and the Jacksonville Jaguars, we're making Bay Street connected, convenient, efficient and safe.



Sensors recognize pedestrians crossing the street and notify drivers to reduce crashes



During storms, flood warning sensors provide notifications to allow time for evacuation



Automated vehicles move seamlessly along the corridor



Electricity for signals and lighting is generated from solar panels in sidewalks



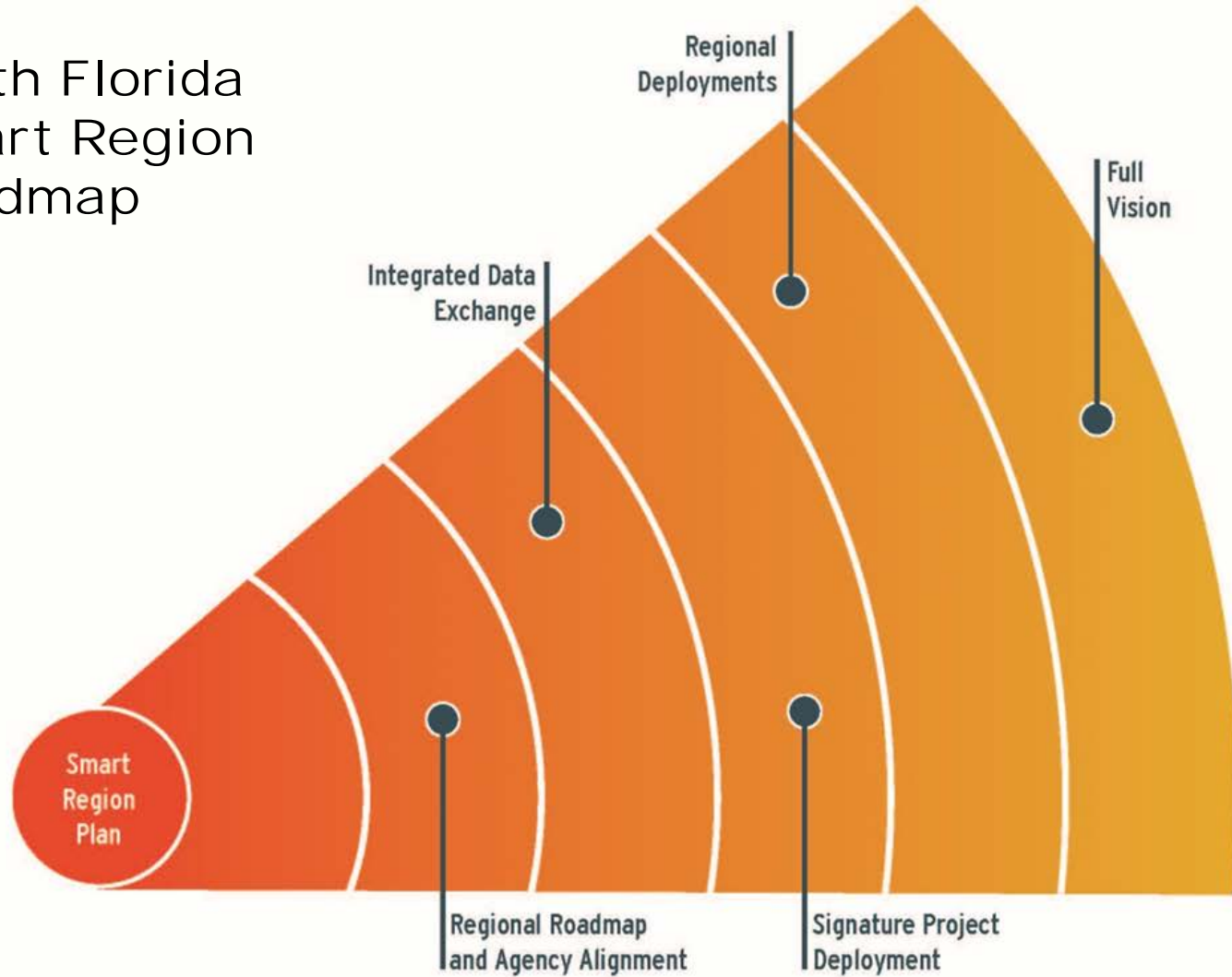
Lanes change color to direct traffic for special events



Apps to meet shopping, entertainment and mobility needs in real time



North Florida Smart Region Roadmap



Status 2019

- **Rollout of Regional IDE Demo** (February)
- **Secured JAXChamber Support** (Remaining counties expected by April)
- **The Bay Jax Innovation Corridor** (Begins July)
 - \$1M in TPO funds
 - \$12.5M in federal BUILD funds (+ \$35M local/state/private)
- **Additional Signature Projects:**
 - St. Augustine Smart Parking System (February)
 - Clay County Pavement Condition Pilot Project (April)
 - City of Jax Smart Waste Collection Proof of Concept (July)
- **Strengthen North Florida Smart Region Coalition through formal MOUs** (Ongoing)
- **Rollout of the Innovation Alliance of North Florida** (March)
 - Membership based organization of tech, startups and venture investors
- **Continued engagement of tech, startups and investor community through meetups**
 - JAXTAB
 - Community Challenges
 - Accelerators
- **Continuing to position initiative as a paradigm shift for public sector and community**



JAXTAB

THURSDAY, JAN 31 @ 5:30PM



INTUITION
ALE WORKS
929 E BAY ST
JACKSONVILLE
Florida

WELCOME TO TECH AND BEER

Join us as we kick off our first of many Tech and Beer events in Jacksonville. TAB is a platform for like-minded tech professionals, business owners, startups, and investors to connect, collaborate, and get inspired to drive innovation.

- Networking and start-up company tables
- Complimentary Black Sheep catering and Intuition Ale Works drinks
- Learn about the BayJax Innovation Corridor and how our local tech talent is needed to power the North Florida Smart Region.
- Ride JTA's autonomous transit vehicle and have a chance to win TAB T-shirts by providing real feedback that will be incorporated into the vehicle and its service!



TAB was launched in Orlando, FL in 2017 and has grown into a leading tech community platform that is 100% focused on the people that drive change in their cities. Learn more about TAB at TechandBeers.com. We're excited for a great event and hope to see you there!

-Sponsors





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