Smart Region Master Plan

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.

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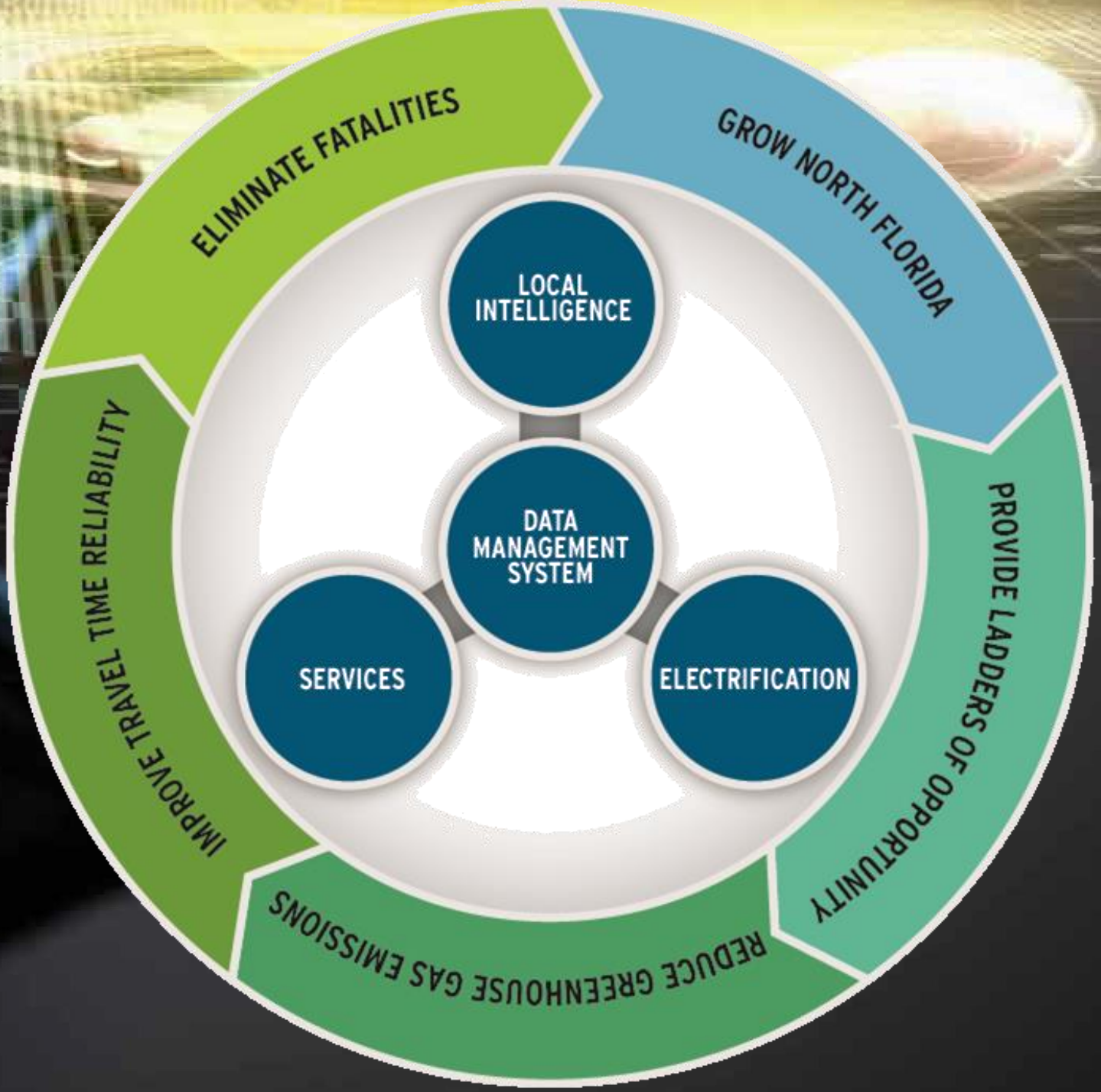
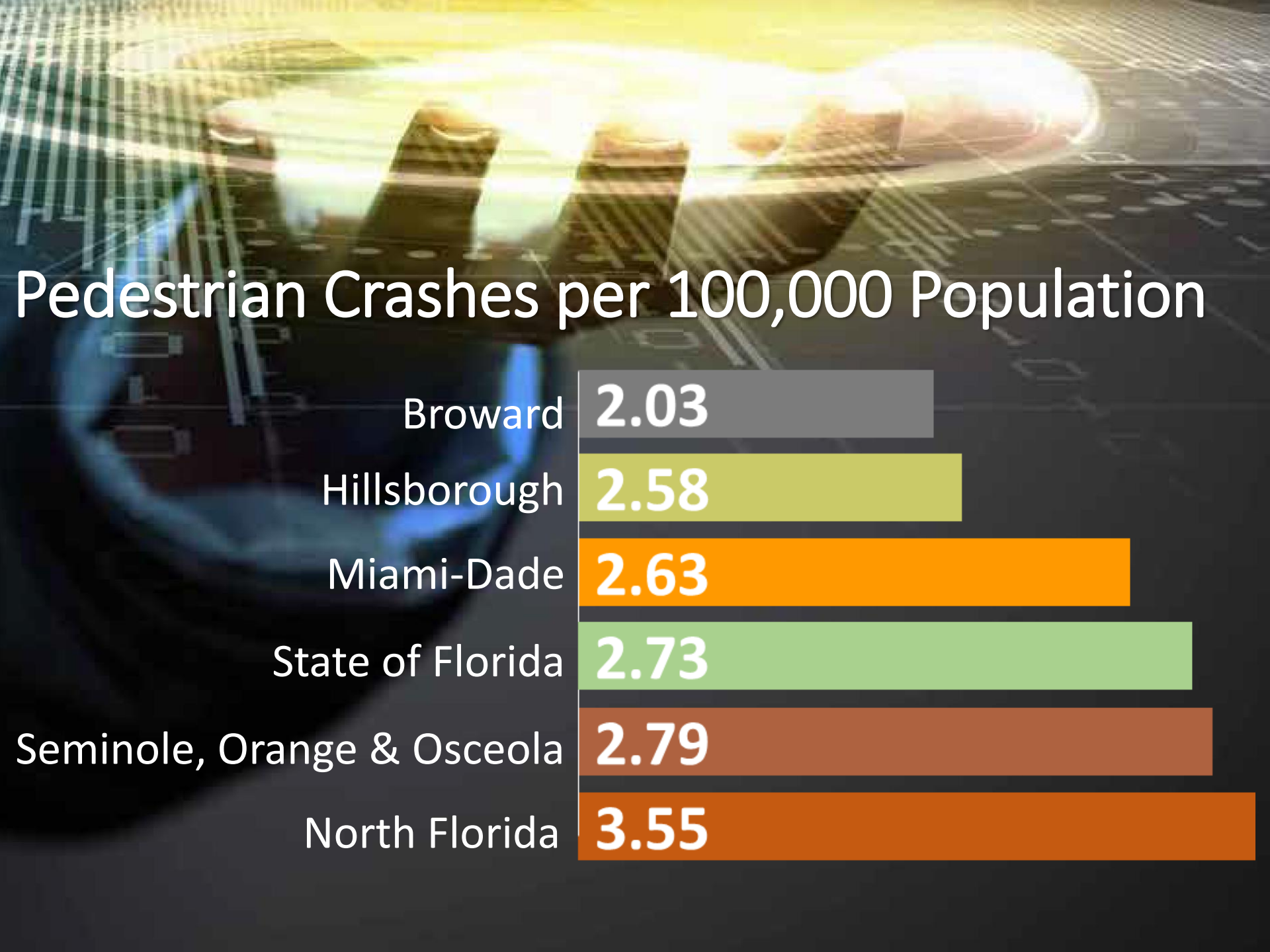

ELIMINATE FATALITIES
GROW NORTH FLORIDA
PROVIDE LADDERS OF OPPORTUNITY
REDUCE GREENHOUSE GAS EMISSIONS
IMPROVE TRAVEL TIME RELIABILITY
LOCAL INTELLIGENCE
DATA MANAGEMENT SYSTEM
SERVICES
ELECTRIFICATION

$3.5 billion
In economic losses
218
Lives lost
30,000
Crashes
SAFETY

Pedestrian Crashes per 100,000 Population



Smart Pedestrian Crossings

Pedestrian Avoidance Systems

Street Flooding Warning Systems

Rail Crossing Notification Systems

Baptist Hospital
10
95
Brooklyn
San Marco
St Nicholas
South Metro
Legend
Tracks
Coming from I-95 NB take Emerson Exit
Coming from Beach Blvd./Atlantic Blvd. take Atlantic Blvd. to San March Blvd.
Coming from I-95 SB take San Marco Blvd. Exit
Coming from Riverside take Park St. SB On-Ramp to San Marco Blvd. Exit
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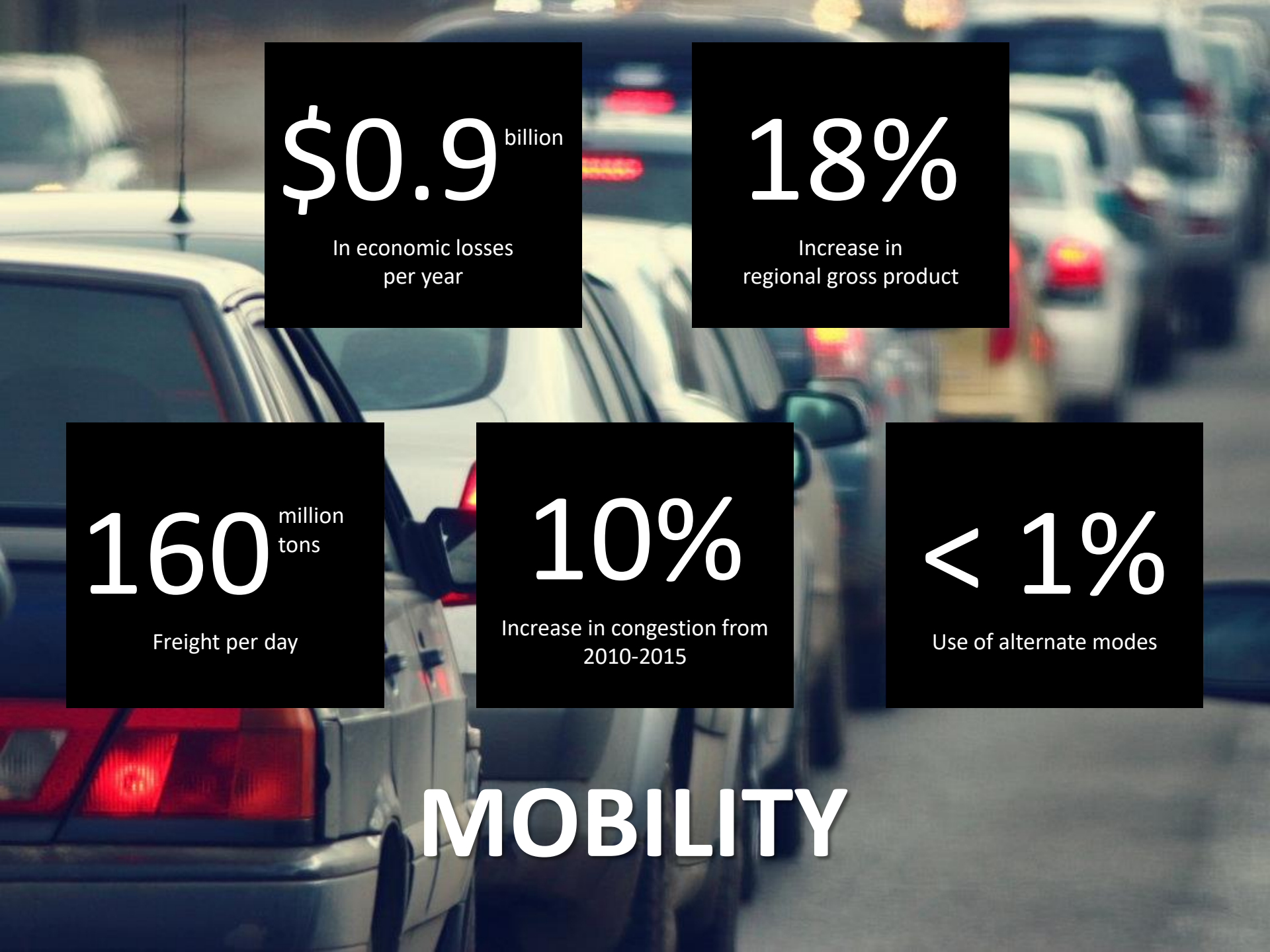
Alternate Routes - Baptist Hospital
N
0
0.25
0.5 Miles

Gunshot Warning Systems


$0.9 billion
In economic losses per year
18%
Increase in regional gross product
160 million tons
Freight per day
10%
Increase in congestion from 2010-2015
< 1%
Use of alternate modes
MOBILITY

Greenwave Systems

Smart Truck Parking

Gate Notification and Parking Systems

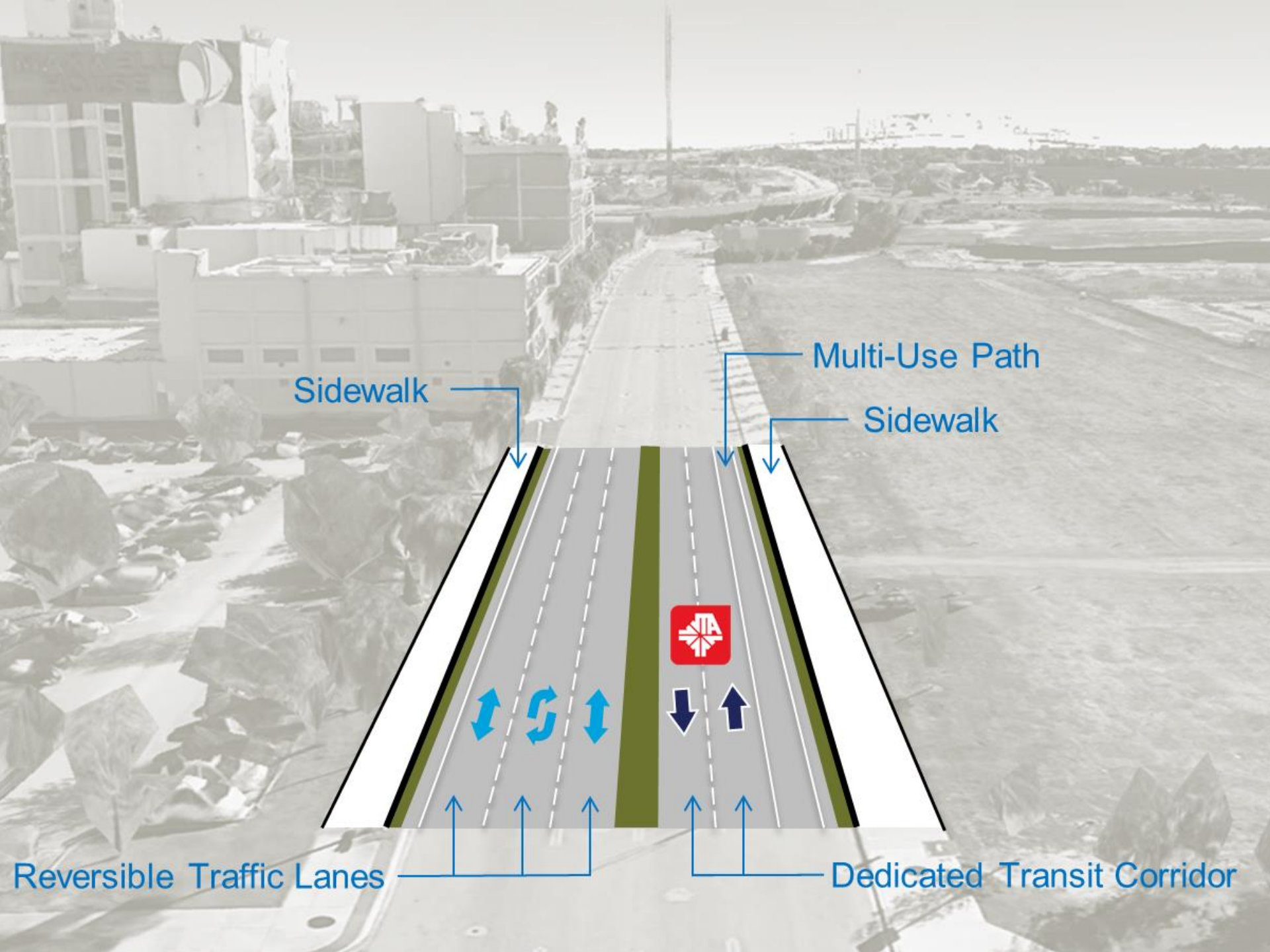
Automated Vehicle Systems

- JTA AV Demonstration Bay Street*
- JTA U2C Skyway Modernization Program*
- Naval Air Station Jacksonville
- St. Augustine
- Town Center
- University of North Florida
- Dames Point/Intermodal Container Transfer Facility**

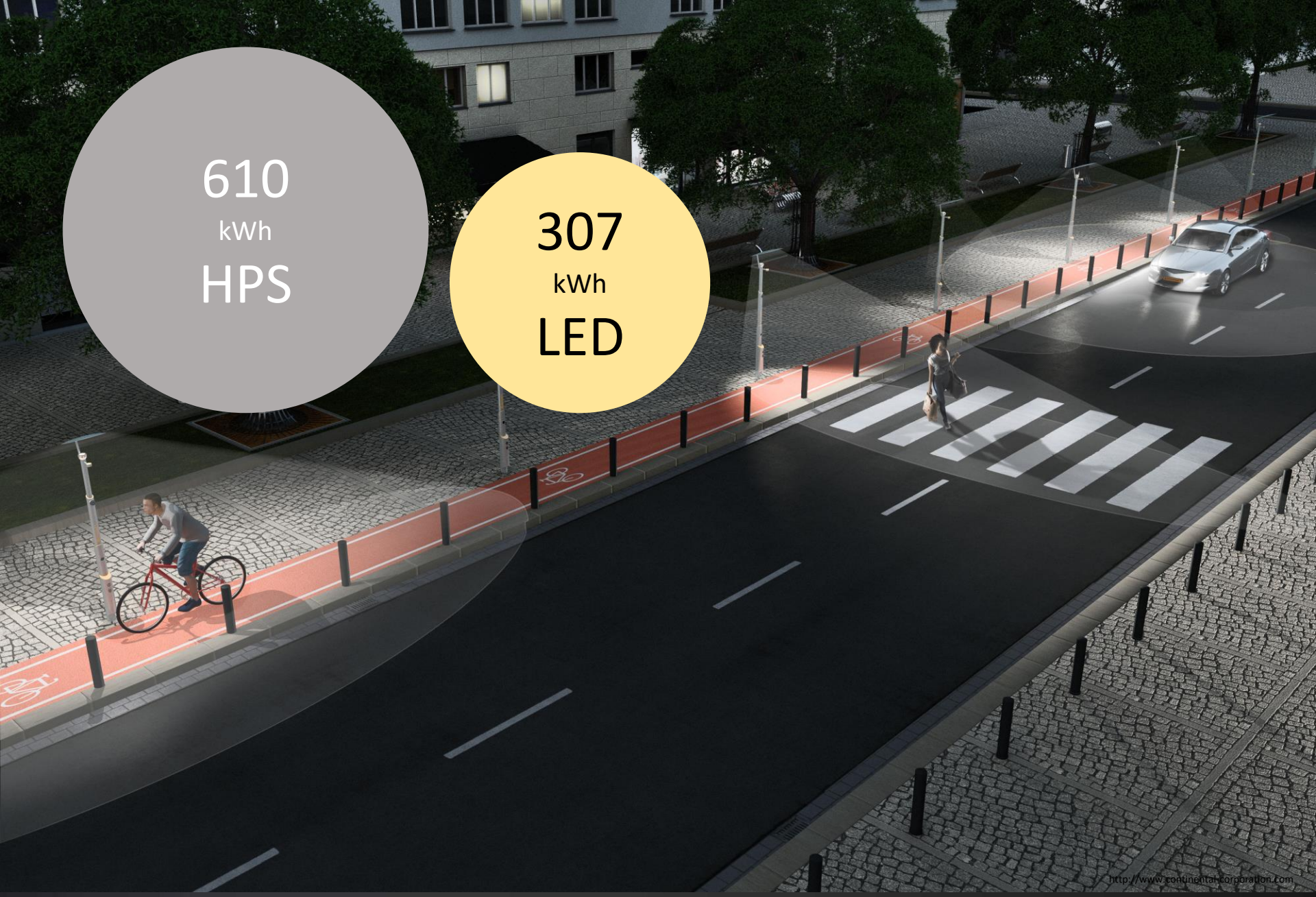
* Projects already under consideration by partner agencies.
** Project evaluated and not feasible.

Automated Vehicle Systems

JACKSONVILLE
RS&H Viz 2016

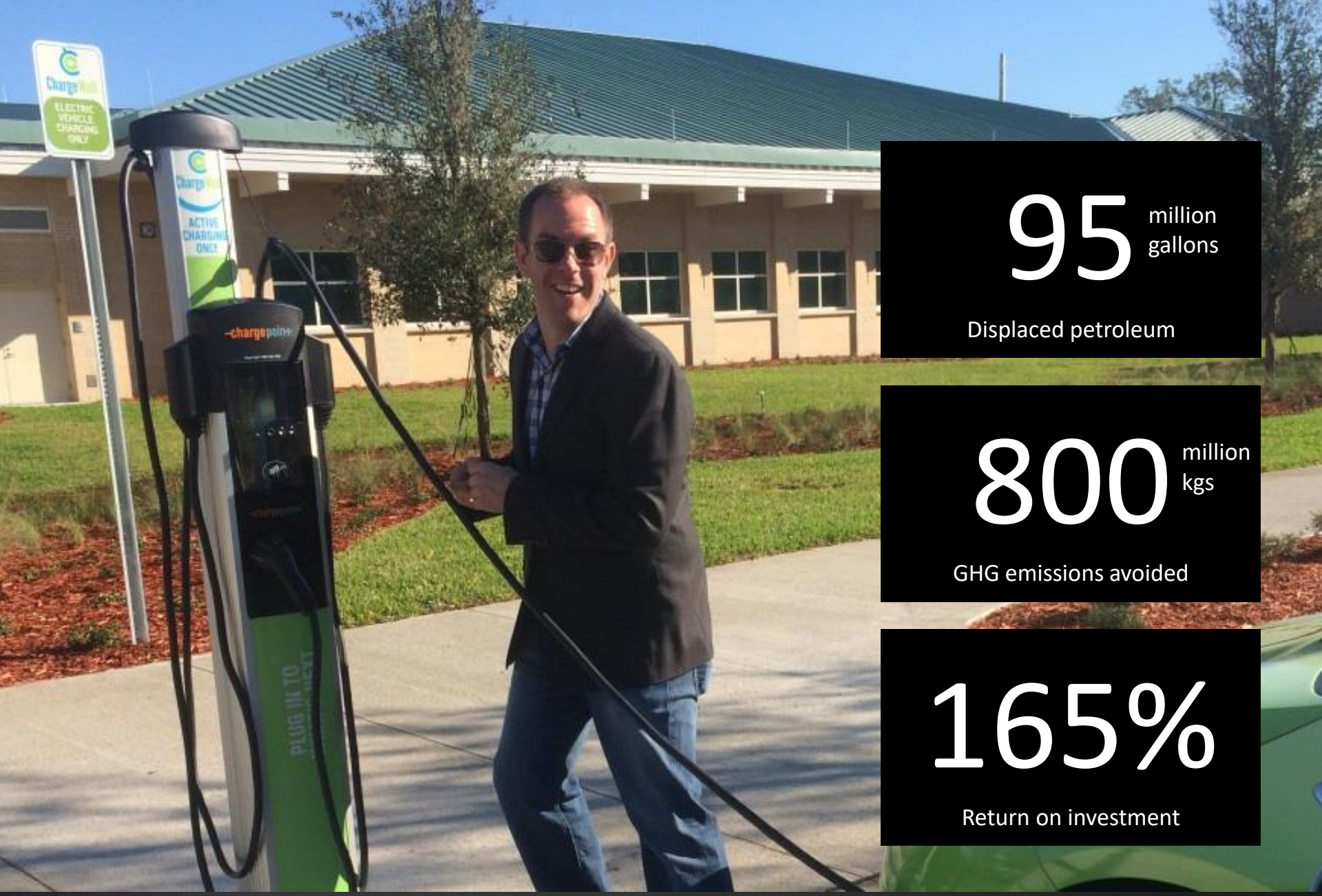

Sidewalk
Multi-Use Path
Sidewalk
Reversible Traffic Lanes
Dedicated Transit Corridor

ELECTIFICATION



Smart Lighting Systems

Solar Road Pilot



95 million gallons

Displaced petroleum

800 million kgs

GHG emissions avoided

165%

Return on investment

Clean Fuels

LADDERS OF OPPORTUNITY

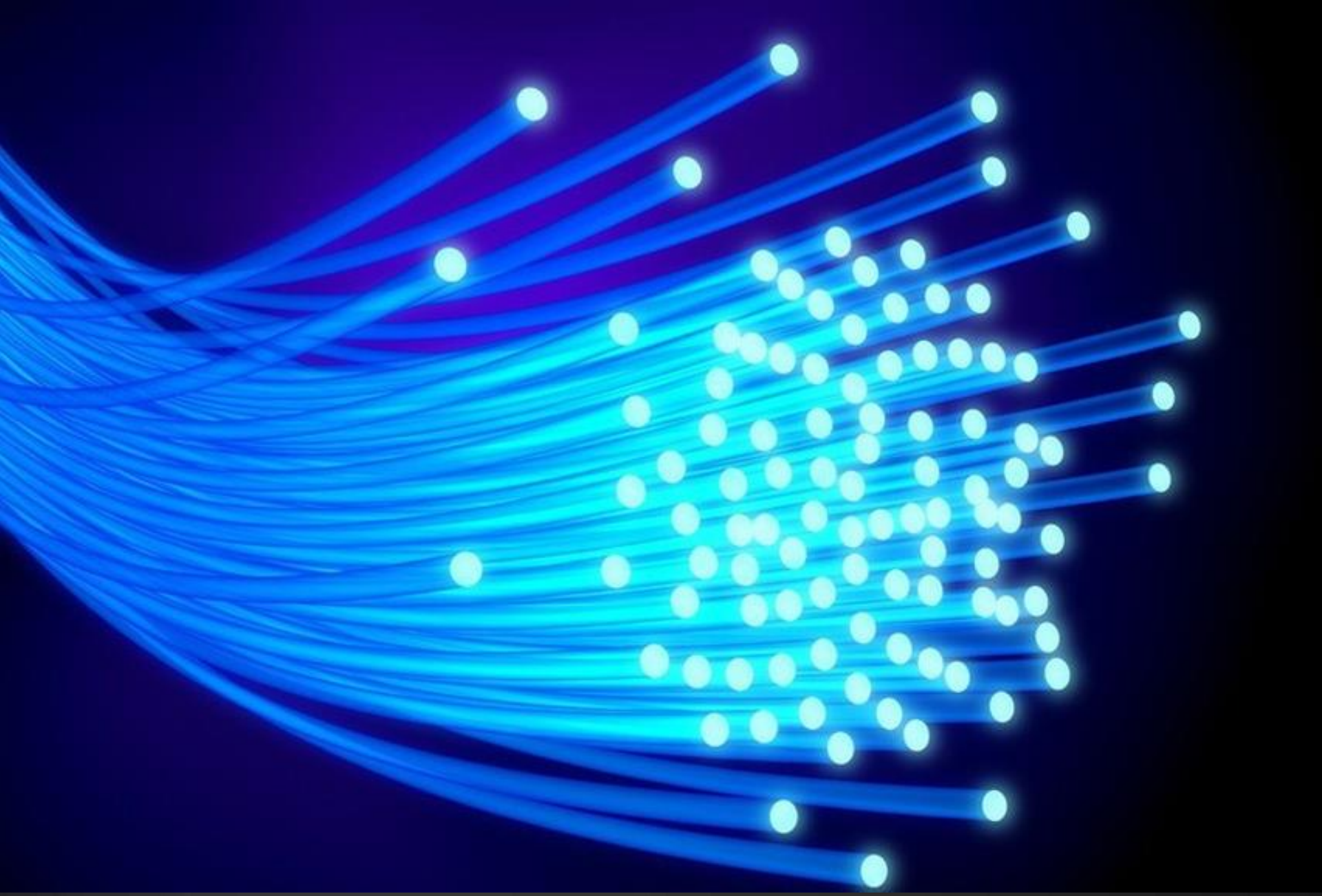
Car Sharing Incentives

transit | UBER

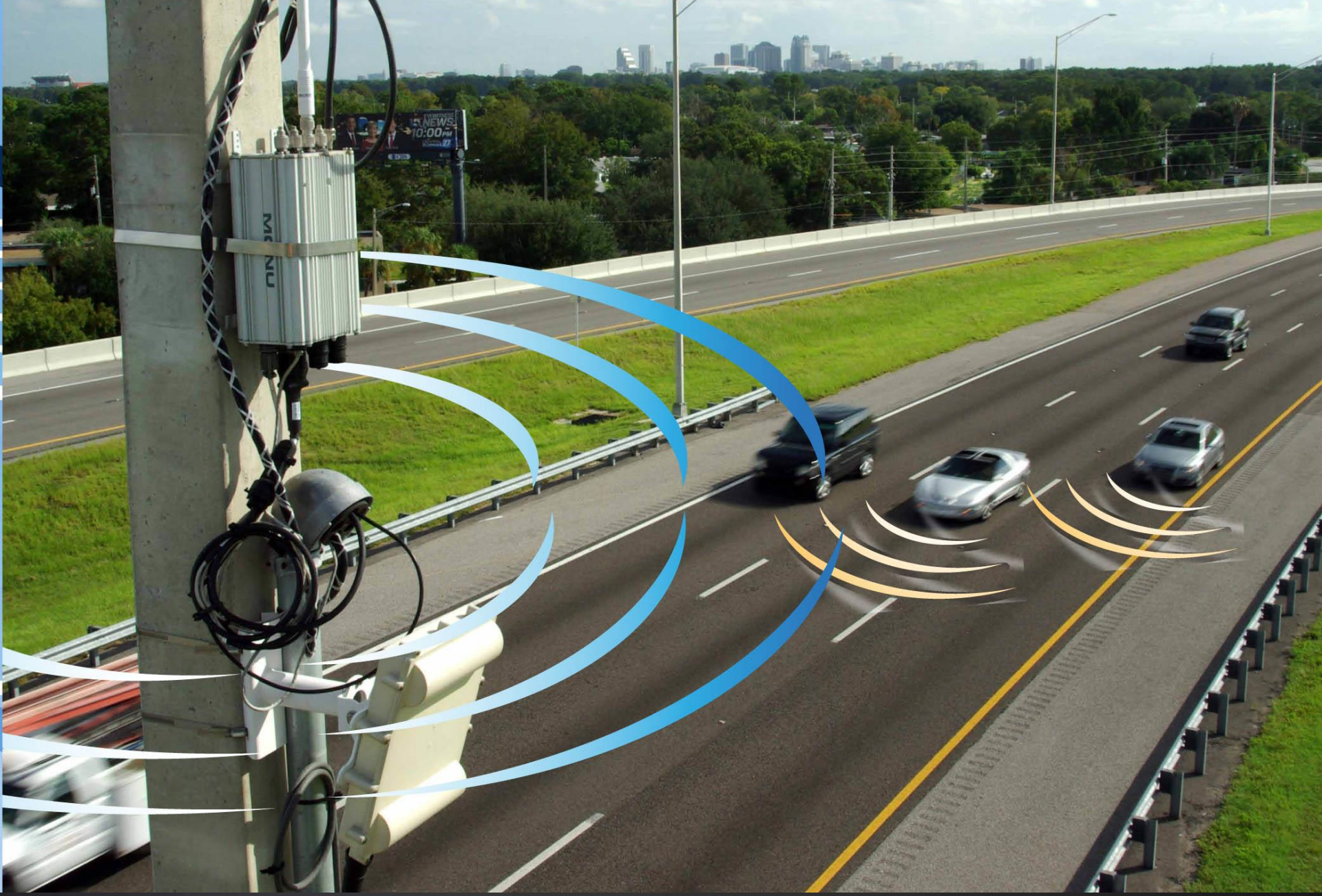
First Mile/Last Mile Incentives

DATA MANAGEMENT

Integrated Data Exchange



Fiber and Wireless Communications



DSRC Roadside Units for Connected Vehicles

Smart Region Master Plan

- 33 projects
- 30 stakeholder agency participants
- $34 million in long-range transportation plan

- Ongoing Activities
  - City of Jacksonville Smart Lighting
  - University of North Florida Big Data
  - JTA's AV Initiatives
  - Smart Region Coalition

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