



MIAMI-DADE EXPRESSWAY AUTHORITY

# CAV Initiatives on MDX Facilities

NOVEMBER 2018





# OUR TRANSPORTATION FUTURE



- Transportation Today
  - Not keeping up with demand
  - Funding Challenges



- How do we solve this problem?
  - Smarter use of existing infrastructure
  - New transportation solutions
  - Partnerships (Public & Private)

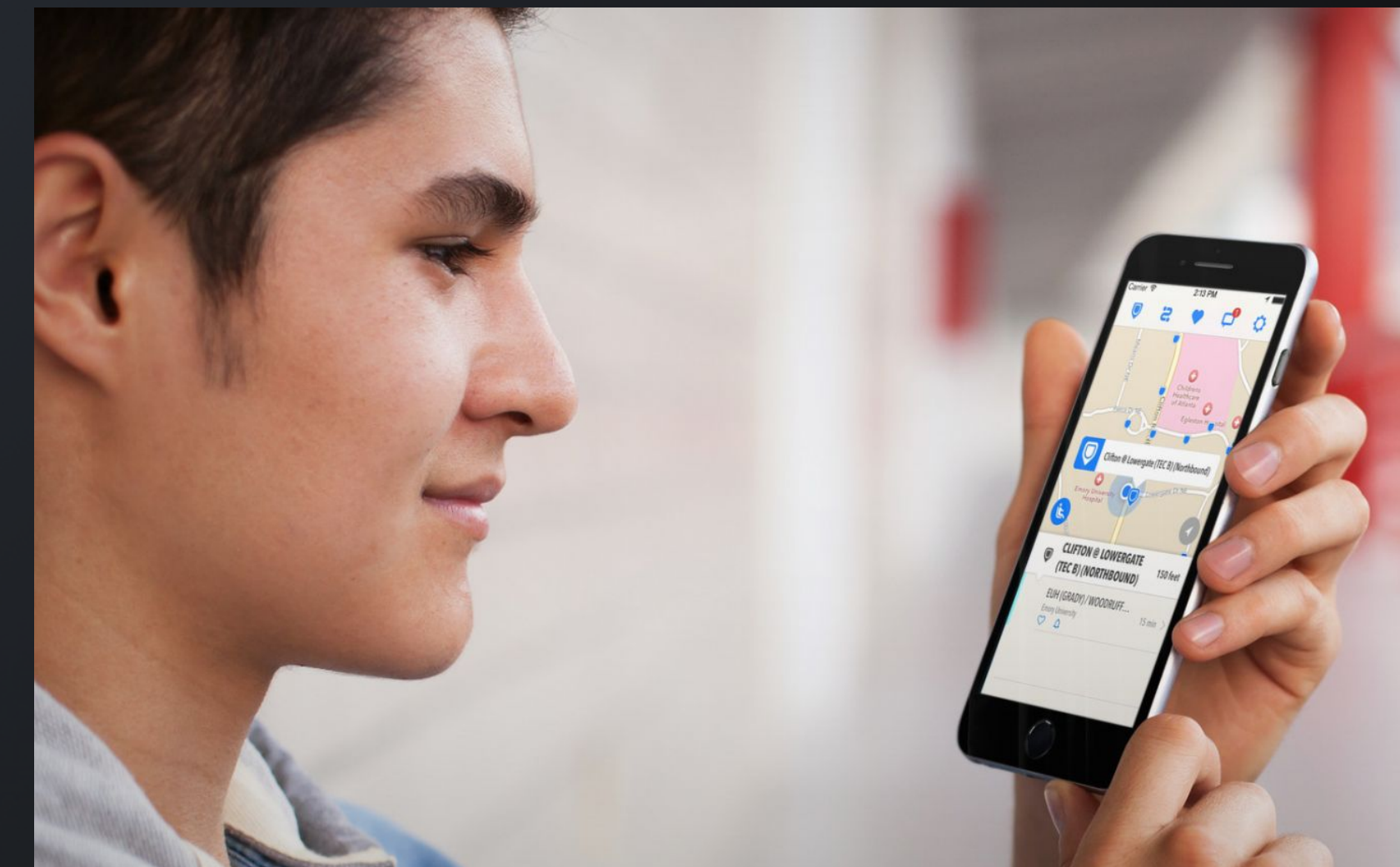






# OUR TRANSPORTATION FUTURE

- Should we...Could we redefine “transit”?
  - Transit is defined as “The conveyance of people on public transport.”
  - Should the public sector have sole purview over transit?
    - Private sector, demand driven solutions
- Transit on Demand
  - Route flexibility
  - Schedule flexibility
  - Driven by demand rather than fixed supply (traditional transit)





# OUR TRANSPORTATION FUTURE

- Roadways are also a solution
  - User fees (i.e. Gas Tax, Tolls, etc.) cover costs
  - Flexible uses of roadways
  
- The Roadway Challenges:
  - Peak Hour Demand vs. Capacity
  - People tend to attend school, work, and recreate at similar times, for good reason
    - Incentivizing people to shift their routine to “off peak” hours has a social cost
  - Managing Congestion





# OUR TRANSPORTATION FUTURE

- How does MDX fit into the transportation solution?
  - Provides flexible infrastructure
  - Focus on efficiency:
    - Operational and Capacity Improvements
    - Moving more people through different modes
      - Transit lanes
      - Ride sharing lanes
      - Connected vehicle/platooning lanes

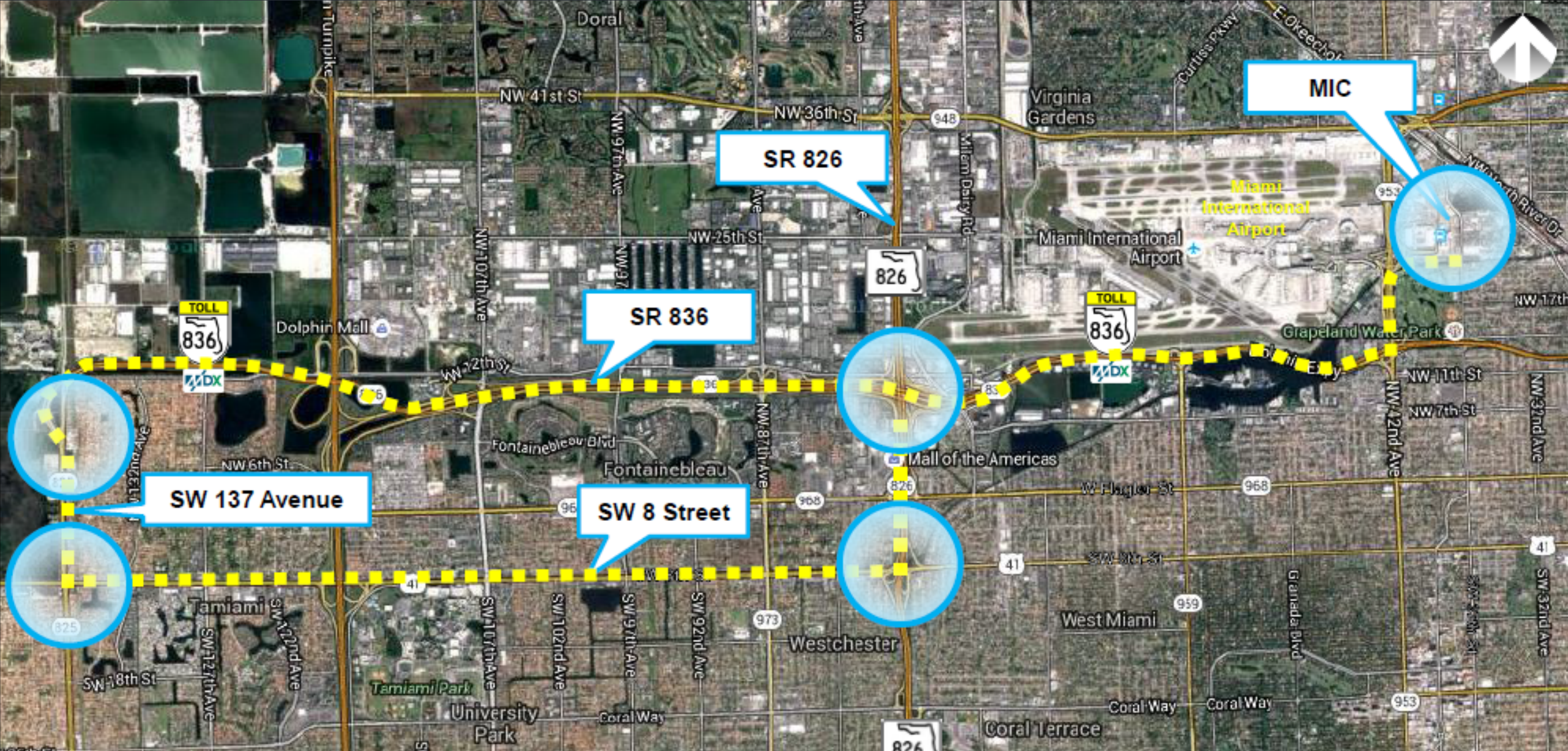




# CURRENT INITIATIVES

## EFFICIENCY AND RELIABILITY THROUGH TECHNOLOGY

- Providing V2I and V2V Communications
- Gather and analyze data and disseminate the information to vehicles and motorists
  - Next generation data sharing for managing traffic and travel information

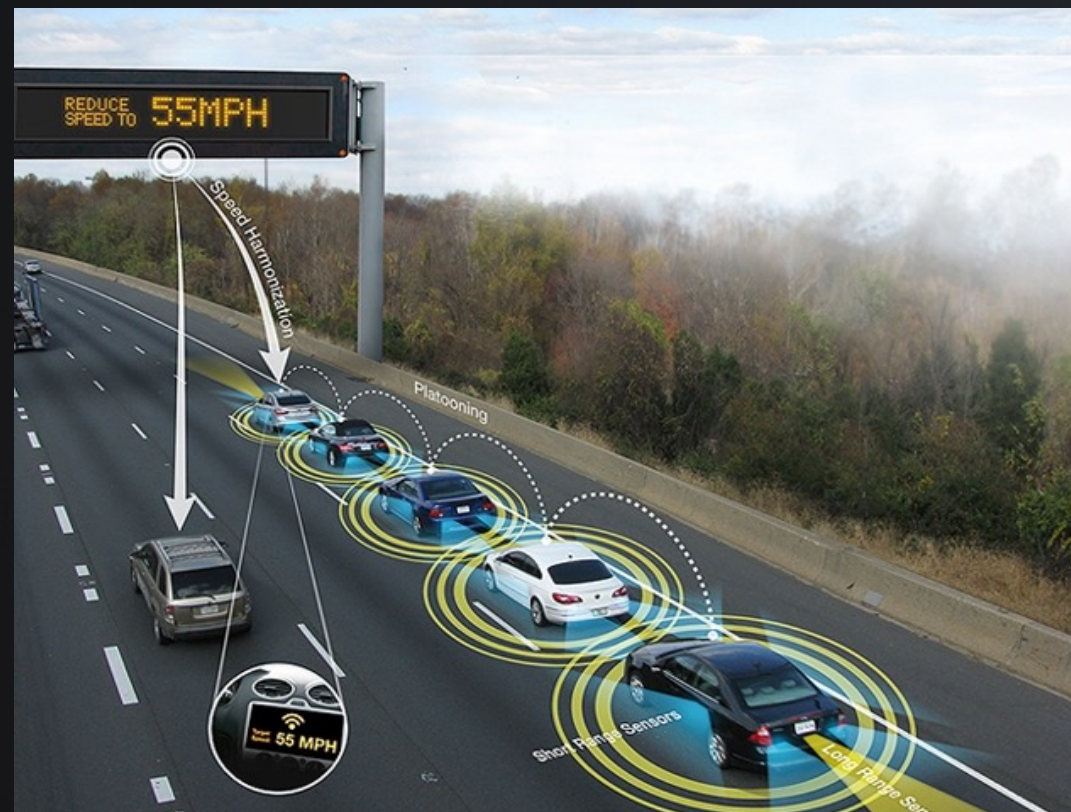
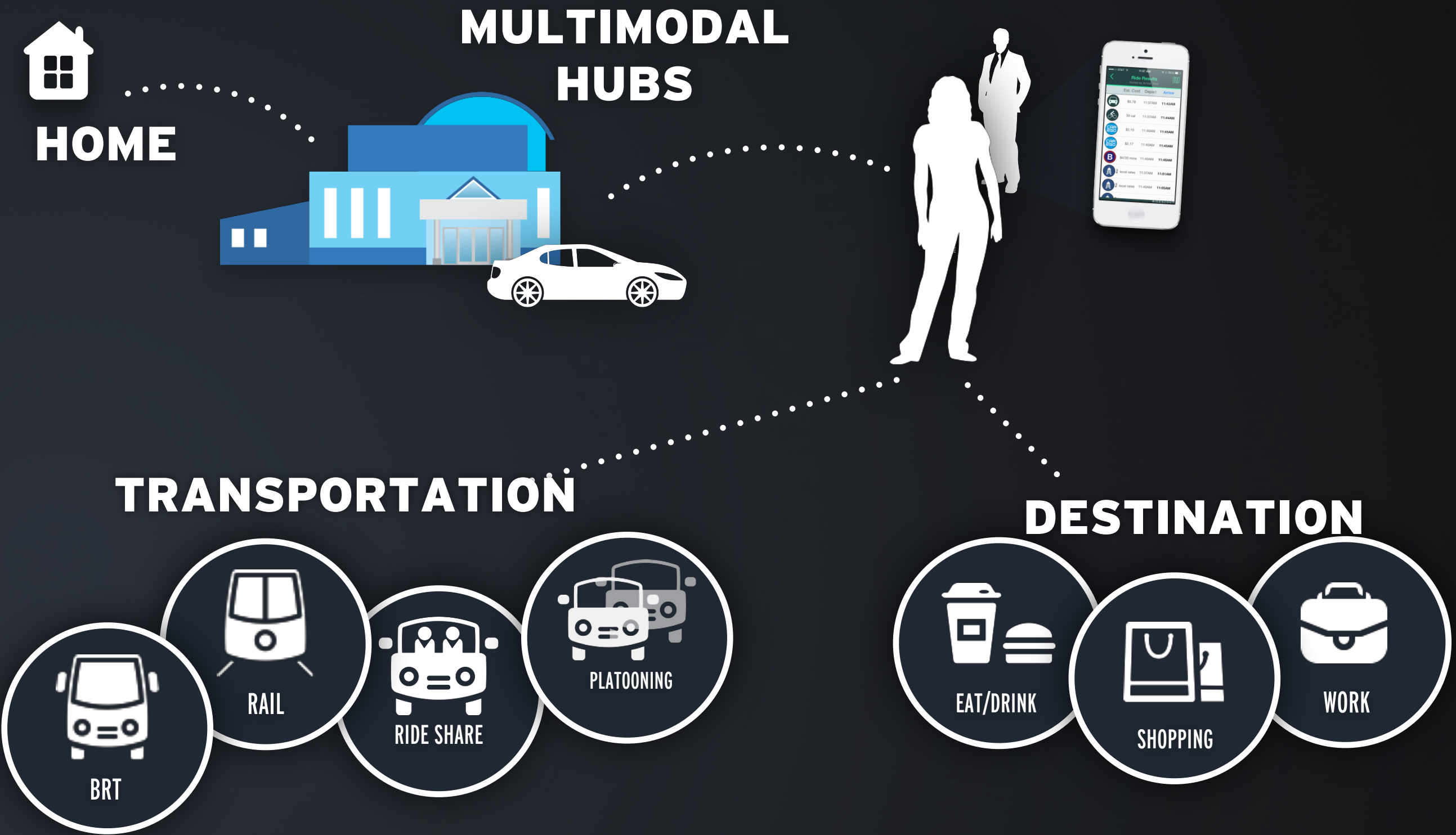




# UPCOMING INITIATIVES

## • Total mobility solutions

- Connectivity
- Technology (Express Transit/Technology) lanes
- Multimodal hubs
  - Public and Private uses

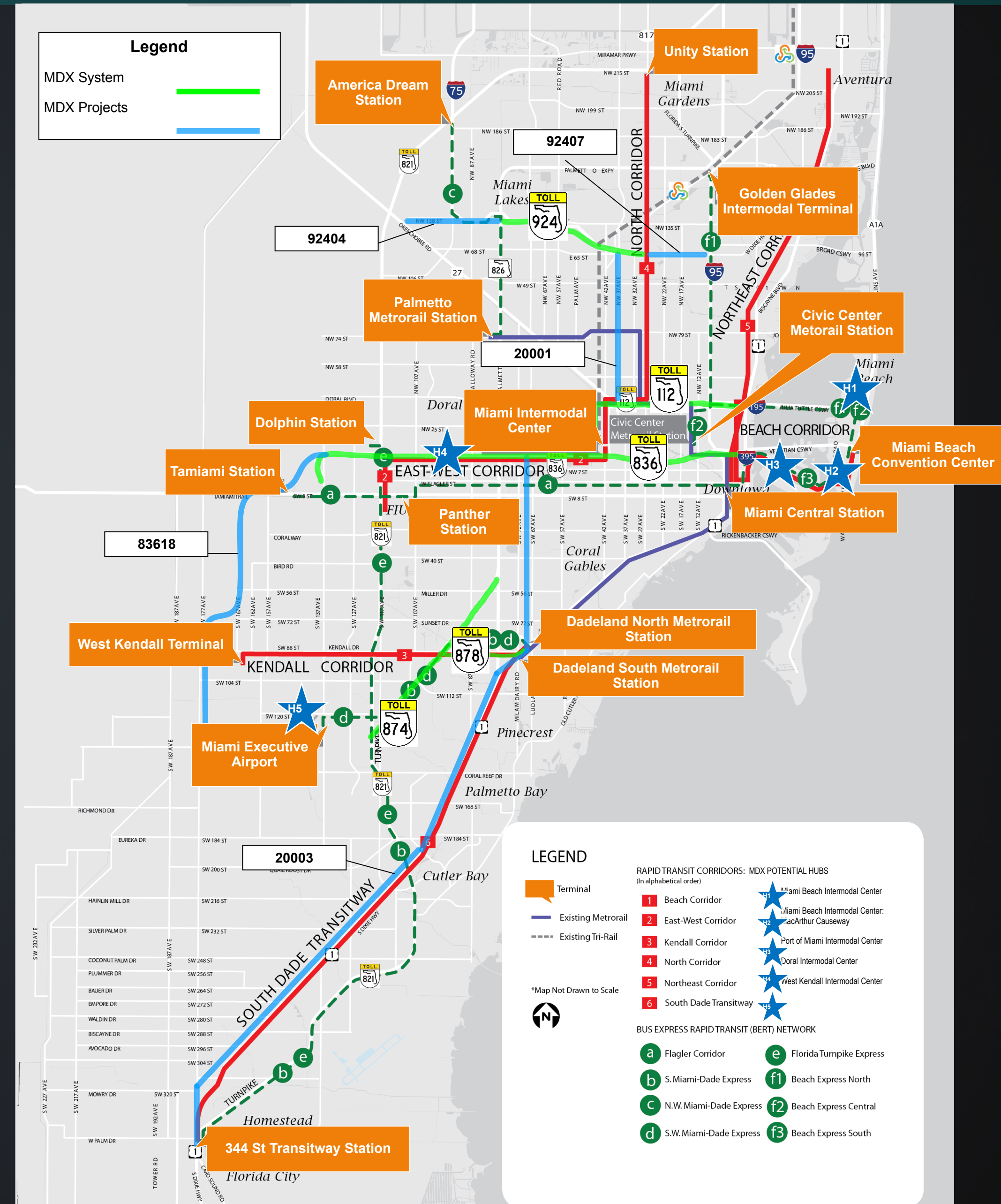


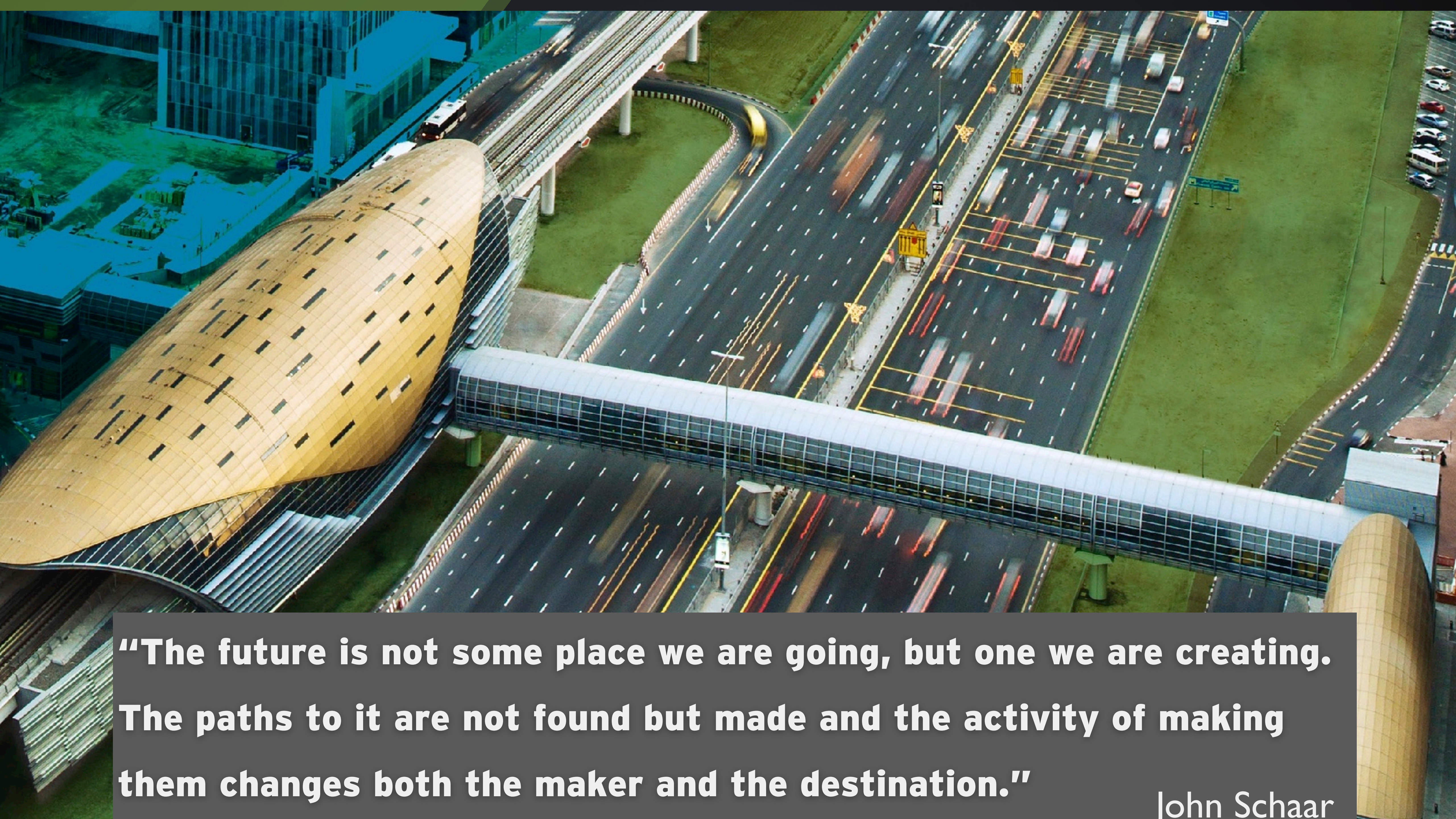




# UPCOMING INITIATIVES

- SMART Plan Integration
- Comprehensive, cohesive and balanced approach





**"The future is not some place we are going, but one we are creating. The paths to it are not found but made and the activity of making them changes both the maker and the destination."**

**John Schaar**



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Thank you

