# **Local Transportation Project Development & FTA Grants**



## **Session Objectives**

- Illustrate how transit enhancement supported major redevelopment and economic growth
- Provide a case study of close integrated coordination between various agencies
- Discuss innovative project funding strategies
- Provide an overview of the Design-Build approach

# Session Agenda

- LYMMO Overview (Greg Kern)
- Orlando's Transportation & Redevelopment Vision (Claudia Korobkoff)
- LYMMO's Downtown Expansion (Laura Minns)
- Design-Build Project Delivery (James Avitabile)
- FTA Grants (Laura Minns)
- Discussion/Questions



# What's LYMMO?



Gregory Kern, AICP – STV, Inc.

# LYMMO

- Pronounced "li.mov"
- Began Operations in 1997
- 3-mile route within Orlando's CBD
- Operates daily, with 5 to 10 minutes headways
- Free Fare (Parking Revenues & CRA funds)
- Hybrid-electric units
- Current ridership ~ 1 Million





# Existing LYMMO Route



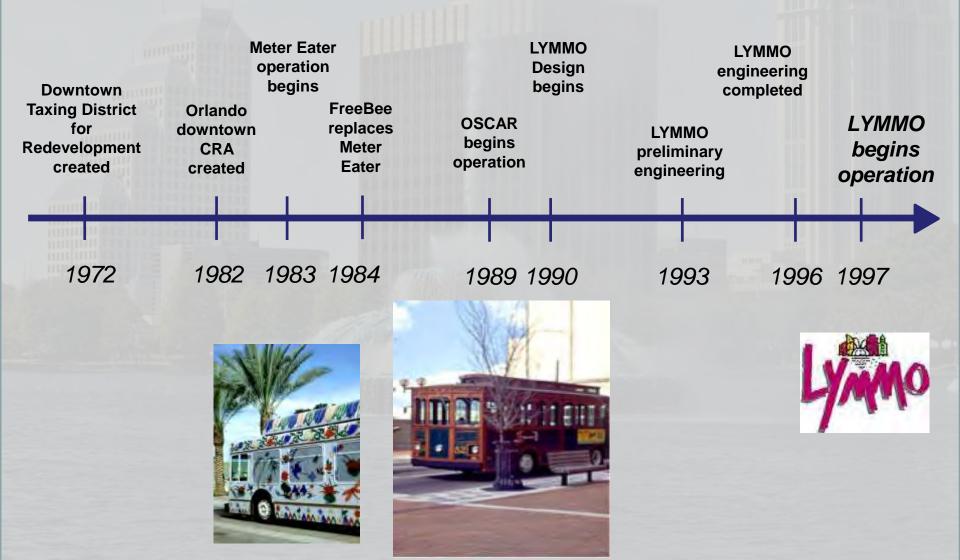
# LYMMO Characteristics

- Branded System
- Exclusive Bus Rapid Transit (BRT) lanes
- ITS technology
- Modified signal priority





# LYMMO Timeline



### Next Steps

- Spring 2014 East-West LYMMO begins operation
- Summer 2014 Parramore LYMMO begins operation
- Summer 2014 SunRail begins operation
- Future BRT expansions
  - North expansion to Florida Hospital area
  - South expansion to Orlando Health area
- Downtown development projects
  - Dr. Phillips Performing Arts Center
  - Creative Village
  - MLS Soccer Stadium
  - Sports & Entertainment District Development



# Orlando's Transportation Vision -Supporting Redevelopment



Claudia Korobkoff – City of Orlando

# **Orlando Transportation Evolution**

- Downtown Transportation Plan
- SunRail
- Downtown Development

## **Downtown Transportation Plan**

- Adopted in December 2006
- Comprehensive review of transportation issues focusing on Orlando's core
- Areas of Analysis:
  - Bicycle
  - Pedestrian
  - Roadways
  - Parking
  - Freight Movement
  - Transit

#### **Downtown Transportation Plan**

- Core Transit Objectives:
  - Create a positive pedestrian culture
  - Make transit practical & attractive
  - Link destinations visitors & residents
  - Provide Master Transportation Plan for Downtown
  - Make Orlando a great place to live, work & play

## Project Study Area

**Study Area Limits:** 

- North: Florida HospitalSouth: Orlando Health
- West: Orange Blossom TrlEast: Mills Ave



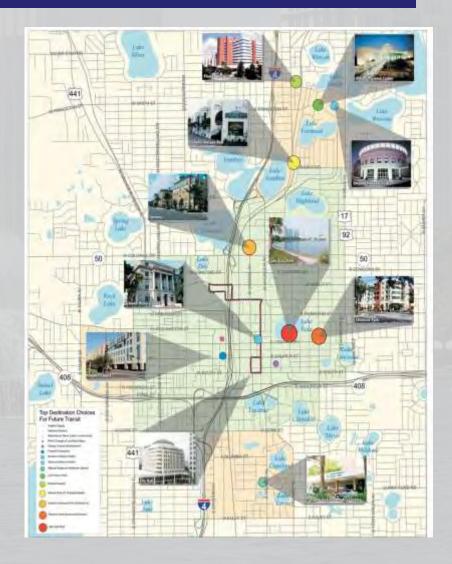
## Projected Study Area Growth

	2005	2025	Growth
Population	23,200	59,700	157%
Single Family Homes	1,911	1,931	1%
Condo / Apartment	9,568	27,981	192%
Hotel Rooms	2,004	3,182	59%
Employment	75,500	102,600	36%

City of Orlando, Transportation Department

#### Transit Reliable, Convenient, Attractive

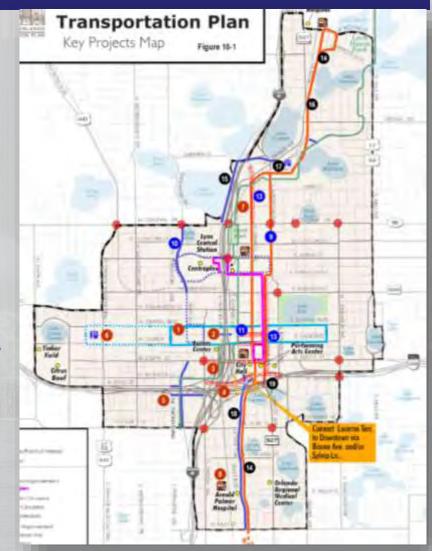
- Connect people to destinations
  - Last mile/front door
- Expand and re-orient downtown BRT system
  - East/West & Parramore BRT
- Make system efficient and attractive
  - Free & convenient
- Provide connections
  - North, South, East and West



#### **Downtown Transportation Plan - Blueprint** *Key Projects Map*

- Phase 1

   Citrus Bowl Thornton Park Loop
   Orlando Urban Trail
  - Commuter Rail
  - Phase 2
    - Downtown Uptown Loop
    - Terry Ave Extension
    - ITS Wayfinding and Smart Parking
- Phase 3
  - Florida Hospital OH Loop
  - Alden Road Corridor



# **BRT Refinement and Funding**

- 2006 DT Transportation Plan Completed
  - Blueprint is Complete

- Time to Implement Recommendations

- 2007 Transit Circulator Expansion Report
  - Goal: BRT to Manage Congestion & Support Redevelopment
  - Yield: Concepts and Costs
- 2007-08 Federal Grant Applications
  - Alternatives Analysis
    - \$240K Alternatives Analysis
  - Earmarks
    - \$686K Alternatives Analysis
    - \$7.92M Design, Engineering & Construction

## **BRT Alternatives Analysis (AA)**

- 2011 LYMMO AA Completion Date
    *Identified Routes*
  - East/West BRT
    - Parramore BRT
    - North/South BRT (unfunded)
  - Estimated Ridership
    - East/West BRT: 4,500 daily riders
    - Parramore BRT: 4,150 daily riders

#### BRT Alternatives Analysis (AA)

East/West BRT:

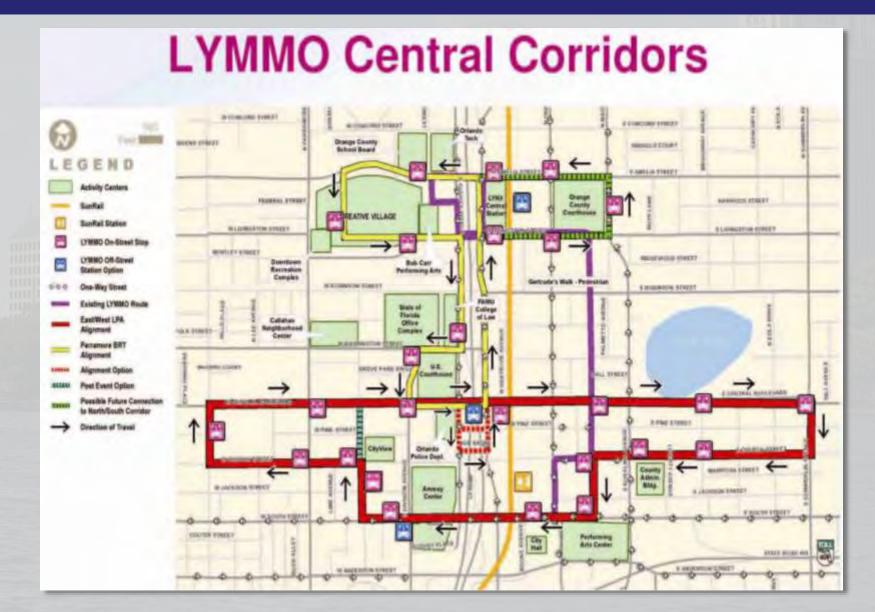
- Capital costs: \$9.92 Million

- Operation & Maintenance: \$700k/Year

**Parramore BRT:** 

- Capital costs: \$18.72 Million
- Operation & Maintenance: \$500k/Year

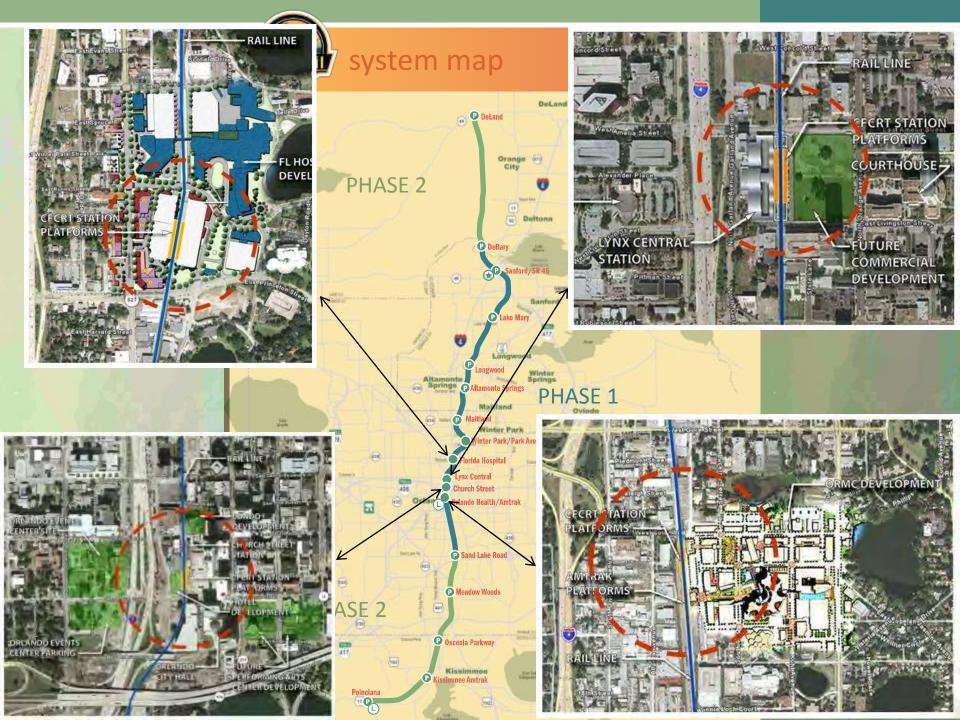
### BRT Route Maps



# SunRail

- 61-mile System from Deland to Poinciana
  - 17 total stops
- 4 Orlando Stops
  - Florida Hospital / Health Village
  - LYNX Central
  - Church Street
  - Orlando Health / Amtrak
- SunRail Status:
  - Phase I operations start Summer 2014
  - Phase II in late 2015





## Downtown Development: Creative Village

- 68-acre mixed-use development including:
  - 1,500 multi-family units
  - 225 hotel rooms
  - 1,200,000 square feet of office/creative space
  - 150,000 square feet of retail/commercial space
  - 25,000 square feet of
     K-12 education space
  - 500,000 square feet of higher education space



## Downtown Development: Orlando Venues

- Amway Center
- Dr. Phillips Center for the Performing Arts
- MLS Soccer Stadium
- Sports & Entertainment District





Amway Center. Photograph by Ben Tanner.

#### Downtown Development: Amway Center

- Opened Downtown: October 1, 2010
- Square Footage: 800,000

   Previous Venue: 367,000

   Total Project Cost: \$480 Million



#### Downtown Development: Dr. Phillips Center

- Opening Downtown: Fall 2014
- Seating Capacity: 4,700

   Previous Venue: 2,518

   Square Footage: 330,000 SF

   Previous Venue: 65,487 SF

   Total Project Cost: \$383 Million



#### Downtown Development: Soccer Stadium

- Opening Downtown: 2015
- Seating Capacity: 17,000 22,000
- Total Project Cost: \$80 Million (Public & Private)
- Schedule:
  - Sep/Oct 2013: City Council & County Approval
    - Oct/Nov 2013: MLS Franchise designation (Subject to Local Approvals )

## Downtown Development: SED Development

- Sports and Entertainment District (SED)
- Hotel
  - Rooms: 300
  - Square Footage: 300,000 SF
- Office Space: 150,000 SF
- Retail Space: 100,000 SF
- Parking Spaces: 660
- Total Project Cost: \$100,000,000



# **LYMMO's Downtown Expansion**



Laura Minns, AICP - LYNX

# Agenda

- LYNX Overview
- New Starts Process
- FTA Oversight
- LYMMO Expansion



## LYNX Overview

- Independent Authority
- Funded by FTA, FDOT, and Local Governments
- Serves 3-County Area
  - Orange
  - Osceola
  - Seminole
- 5 Member Board FDOT District 5 Secretary, City of Orlando, Orange, Seminole & Osceola County



## LYNX Overview

- 1.8 Million Population
- 30 Million Trips Last Year
- 2500 Sq Mi. Service Area larger than Delaware
- 3 Counties + City of Orlando on the Board
- Provide Purchased Transportation to 3 more counties
- \$115M Operating Budget

- 300 Buses
- 250 Paratransit Vehicles
- 70 Van Pools
- 66 Fixed Routes
- 2 Express Routes
- 2 Fast Link Routes
- 9 Flex Routes

# East / West BRT

- Connects Thornton Park and Parramore
- 3.5-mile route
- 15 stations
- 10 min. peak/15 min. off-peak service
- Hours of Operation:
  - Weekdays: 6 am 10pm;
  - Sat: 10 am 12 am;
  - Sun: 10 am 10pm
- Ridership:
  - Potential 4,500 daily riders





# East / West BRT

- Funding Preliminary Design & Construction
  - New Starts Grant \$7.92 Million
  - City of Orlando \$1,356,000
  - CRA Contribution \$644,000
- Schedule
  - Oct-Dec 2011: Advertise RFP/
    - Select Consultant
  - Mar–Aug 2012: Design
  - Feb 2013: Construction
  - Spring 2014: Begin Operations



## Parramore BRT

- Connects Parramore, Amway Center, LYNX Central Station & SunRail
- 2-mile route
- 9 stations
- 10 min. peak/
  - 15 min. off-peak service
- Hours of Operation:
  - Weekdays: 6 am 10pm
  - Sat: 10 am 12 am
  - Sun: 10 am 10pm
- Ridership:
  - Potential 4,150 daily riders



#### Parramore BRT

- Funding
  - TIGER II Grant for preliminary design & construction
  - \$13 Million
  - City of Orlando\$612,000
  - Private funding source \$644,000



- Schedule
  - Oct-Dec 2011: Design Build Team selected
  - April 2012- Aug 2013: Design Completed
  - Sep 2013 June 2014: Construction
  - Summer 2014: Begin Operations

## **Total Project Costs**

	Total Project	\$ 28,566,000
	3 additional vehicles for Parramore	\$1,500,000
	Total Cost	\$ 16,750,000
	Match	\$ 3,750,000
Parramore BRT	FTA TIGER II Grant	\$ 13,000,000
	Total Cost	\$ 10,316,000
	City Match	\$ 2,396,000
East/West BRT	FTA Federal Earmark	\$ 7,920,000

### Funding a Local Transit Project



POSITIVE



LOCALLY FUNDED

Control

Flexibility with Associated Projects

Less Reporting/Paperwork

Quicker Project Delivery

**Available Money** 



MAP-21 Benefits to Grantee Helps level the comparison!

#### FTA GRANT FUNDED

**Available Money** 

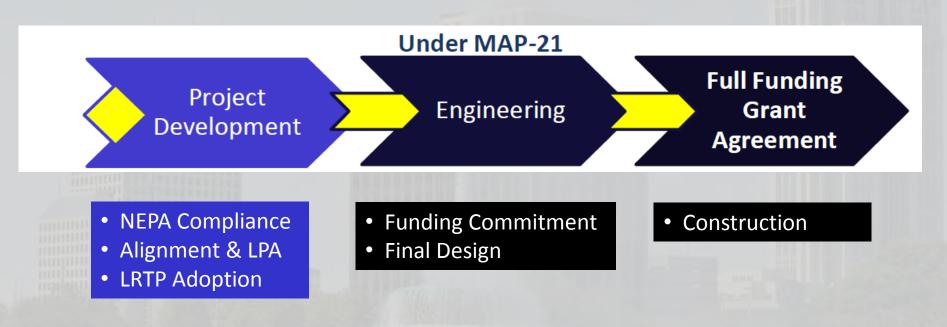
Control

Flexibility with Associated Projects NEGATIVE

Less Reporting/Paperwork

Slower Project Delivery

### Federal Process



- Generally a 3-step process
- Planning & NEPA conducted within Project Development



## Design-Build Method of Project Delivery



James Avitabile, PE, DBIA - RS&H

### **Project Challenges**

- Concept Development Level Documents
- Extreme Schedule Constraints
- Multiple Agency Involvement
- Decision Needed to be Addressed Quickly
  Decision needed to Comply with FTA Funding

#### DBIA / Stakeholder Workshop

- Local Project Stakeholders Included:
  - LYNX

City of OrlandoFDOT

Design Build Institute of America – Central FL

- Tom Connery City of Orlando
- Frank O'Dea FDOT District Construction Engineer
- Jim Avitabile RS&H

#### **DBIA Workshop**

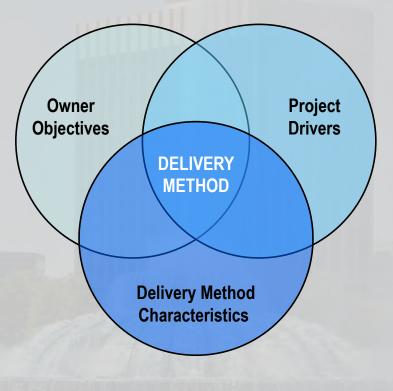
- Project Administration Team

   John Lewis, CEO, LYNX
   Edward Johnson, Chief of Staff, LYNX
   Laura Minns, AICP Capital Strategic Planner, LYNX
   Tony Walter, Dir. Planning & Development, LYNX
   Claudia Korobkoff, Project Manager City of Orlando
   F. J. Flynn, AICP, Division Manager, City of Orlando
   Tom Connery, PE Div. Manager Capital Improvements, City of
  - Orlando

#### **Project Delivery Method Decision**

#### **Process**

- 1) Identify Owner Objectives
- 2) Identify Project Drivers
- 3) Prioritize
- 4) Select Delivery Method that Best Satisfies The Owner Objectives and Project Drivers



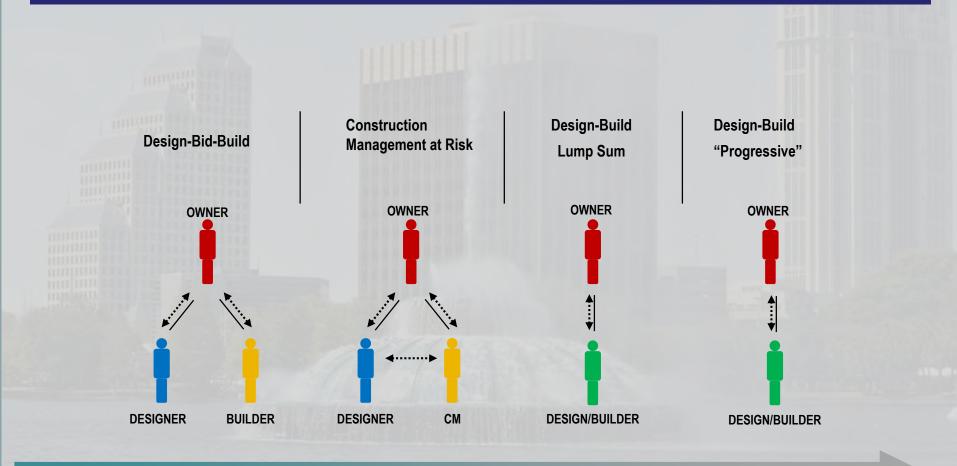
#### **Delivery Methods**

- 1) Design-Bid-Build
- 2) Construction Management at Risk
- 3) Design-Build Lump Sum
- 4) Design- Build Progressive

#### Owner Objectives/ Project Drivers

- Cost
- Schedule
- Quality
- Owner Resources
- Risk Allocation
- Selection Criteria
- DB Experience
- •Level of Collaboration Desired
- Other

### **Project Delivery Options**



TRADITIONAL DELIVERY

ALTERNATIVE DELIVERY

#### **Progressive Design-Build Procurement Model**

#### Most effective when...

- Owner desires a clear delineation of responsibility
- Rapid project delivery is desired
- Early transfer of financial risk is important
- Owner selection of Design/Builder based on qualifications
- Owner desirers greater control of design criteria
- Owner wants greater collaboration (involvement during the design)

PRE-CONSTRUCTION					
Plan Project	RFQ / RFP		Permits/Design Criteria	Verify DB Performation	nce Verify Progress
Define Perform	ance Criteria	Tech Support	Recommend GMP	Inspection	Provide Payment
	Quals	Propose Concept for GMP	Design/Schedule	Construction, Start	tup Warranty
				Complete DesignComplete ConstructionAgree on GMP – based on collaborative scope and design; pricing may be verified by third party.	

#### **Progressive Design-Build Procurement Model**

#### **Advantages:**

- Design/Builder bears responsibility for design and construction
- Eliminates design related change orders
- Shortest delivery schedule
  - Reduced claims
  - Ability to work to a budget & guarantee cost early with minimal investment
  - Owner has second right of refusal (opt out and use DBB)
  - All Owner issues addressed prior to price development
  - Cost savings accrue to Owner
  - Greatest collaboration (involvement during the design)

PRE-CONSTRUCTION						
Plan Project	RFQ / RFP		Permits/Design Criteria	Verify DB Performar	nce Verify Progress	
Define Perform	ance Criteria	Tech Support	Recommend GMP	Inspection	Provide Payment	
	Quals	Propose Concept for GMP	Design/Schedule	Construction, Startup       Warranty         Complete Design       Complete Construction         Agree on GMP –       based on collaborative scope and design; pricing may be verified by third party.		

#### **Progressive Design-Build Procurement Model**

#### **Questions:**

- How will LYNX know they are getting the best price?
- What happens if LYNX Staff and Design/Builder cannot agree on the GMP?
- Where has this been done previously and by whom?
- Other questions?

PRE-CONSTRUCTION					
Plan Project	RFQ / RFP		Permits/Design Criteria	Verify DB Performa	nce Verify Progress
Define Performa	ance Criteria	Tech Support	Recommend GMP	Inspection	Provide Payment
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## **FTA Grants**



Laura Minns, AICP - LYNX

#### FTA Grants Agenda

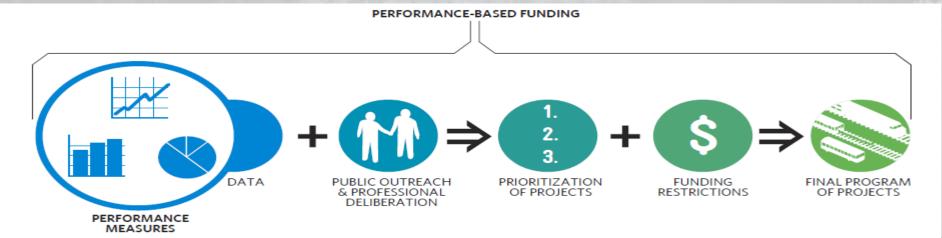
- Federal Legislation (MAP-21)
- Necessary Local Support
- Project Partnerships
- FTA New Starts/Small Starts Process
  FTA Grant Opportunities





### MAP-21 & Transit Project Funding

- Moving Ahead for Progress in the 21<sup>st</sup> Century
- It's a two-year reauthorization of SAFETEA-LU through 9/30/2014
- Key Elements:
  - Performance-based planning
  - Emphasis on asset performance and state of good repair
  - Predictable formula grants
  - \$21.3 billion for 2013 & 2014 public transportation
  - Streamlining delivery of New Starts/Small Starts grant projects



### FTA New Starts Process

- Project Evaluation Criteria:
  - Mobility Improvements
  - Economic Development Effects
  - Environmental Benefits
  - Cost Effectiveness
  - Land Use
  - Congestion Relief
  - Local Financial Commitment
    - Need evidence of stable and dependable financing sources
    - Funds for construction, maintenance and operation
    - FTA looking for the reasonableness of the financial plan



## **Key Elements for Success**

- Significant Local Support
  - Project Advocacy
    Funding Commitments
    - Local Government
    - Private
    - Dedicated Funding (transit)
    - State & Federal

- Partnerships
  - DOT for Projects on State Roads
  - Developers and Large
     Business
     Groups/Associations
  - Local Government
  - FTA
    - Section 5309 Funds

#### Primary FTA Grant Opportunities

- Section 5307- Urban Area Formula Grants
  - Based on population, transit service levels
  - Makes up ~\$20M of LYNX Operating Budget
- Section 5309 Fixed Guideway Capital Investment Grants
  - a.k.a. New Starts / Small Starts
  - Competitive grants for major investments
- Section 5337 State of Good Repair
  - For Systems >7yrs old
  - LYMMO \$250K annually for maintaining guideway, replacing rolling stock, system upgrades
- Section 5326 Asset Management Provisions
  - Additional burden on Transit Agencies

#### www.fta.dot.gov/map21

## **Grant & Funding Opportunities**



#### FTA Grants

Capital Investments

- Maintenance & Operations
- Special Planning Programs



#### TIGER (Transportation Investment Generating Economic Recovery)

- Highly competitive grants
  - Prove economic benefits



# TIFIA (Transportation Infrastructure Finance and Innovation Act)

- Federal credit program
- Leverage credit \$\$ to attract private and local funds



## Discussion

#### **Contact Information**

Gregory Kern, MBA, AICP STV, Inc. 111 N. Orange Ave., Suite 710 Orlando, FL 32808 Gregory.kern@stvinc.com 407-952-1211

Claudia Korobkoff City of Orlando 400 S. Orange Ave., 8<sup>th</sup> Floor Orlando, FL 32802 Claudia.korobkoff@cityoforlando.net 407-246-2180 Laura Minns, AICP LYNX 455 N. Garland Ave. Orlando, FL 32801 Lminns@golynx.com 407-254-6110

James Avitabile, PE, DBIA RS&H, Inc. 301 E. Pine Street, Suite 350 Orlando, FL 32801 James.avitabile@rsandh.com 407-893-5800