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



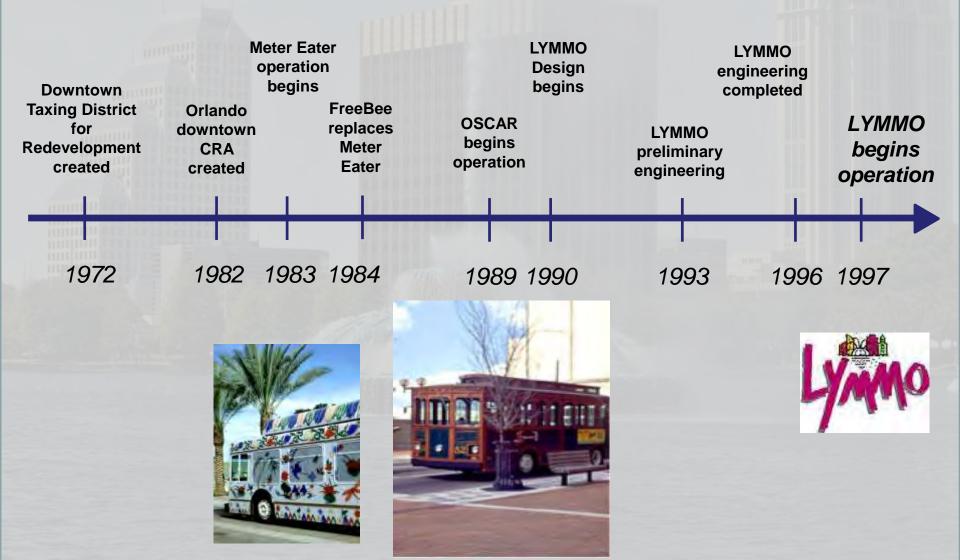
LYMMO Characteristics

- 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



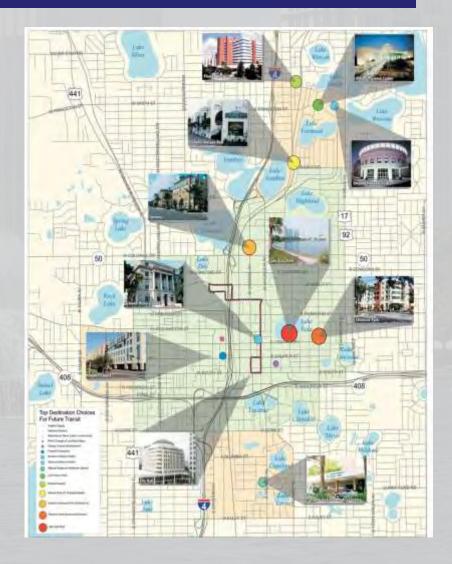
Projected Study Area Growth

	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

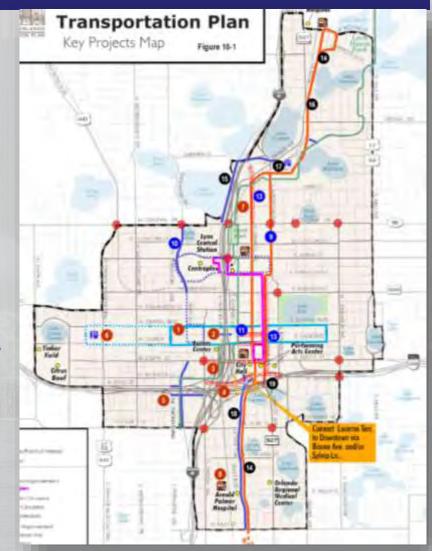
- Connect people to destinations
 - Last mile/front door
- Expand and re-orient downtown BRT system
 - East/West & Parramore BRT
- Make system efficient and attractive
 - Free & convenient
- Provide connections
 - North, South, East and West



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:

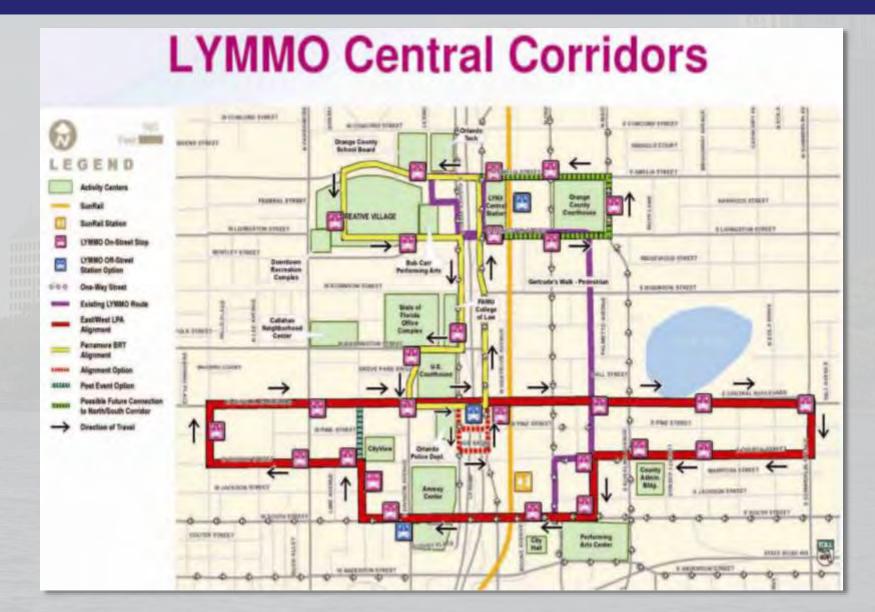
- Capital costs: \$9.92 Million

- Operation & Maintenance: \$700k/Year

Parramore BRT:

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

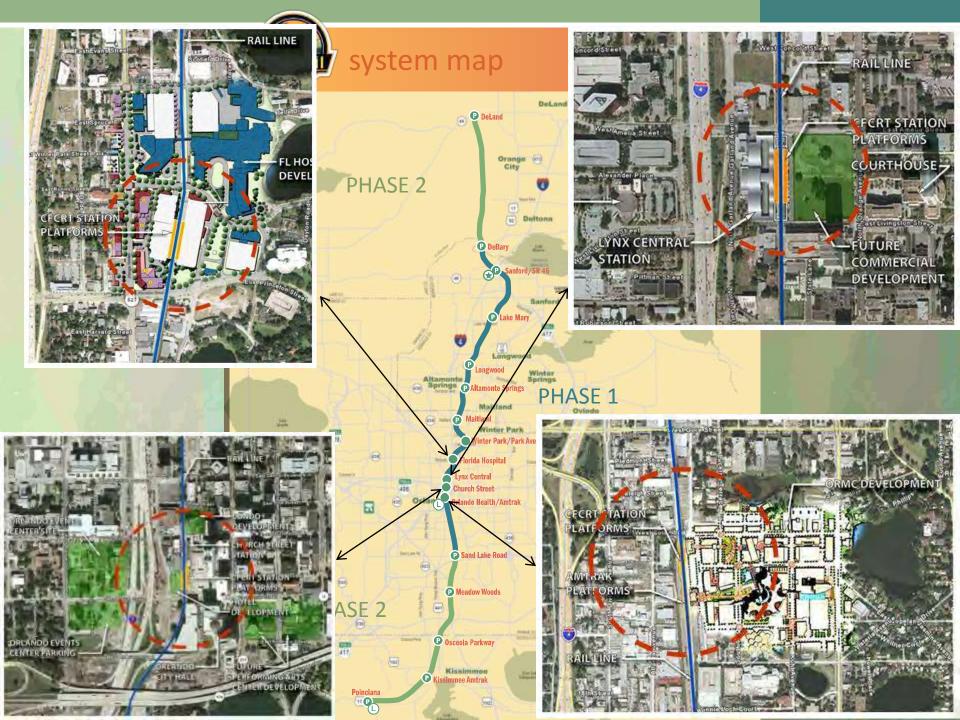
BRT Route Maps



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

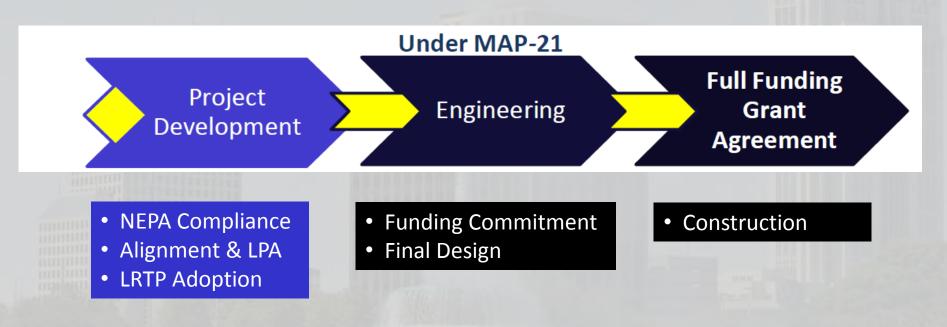
Control

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

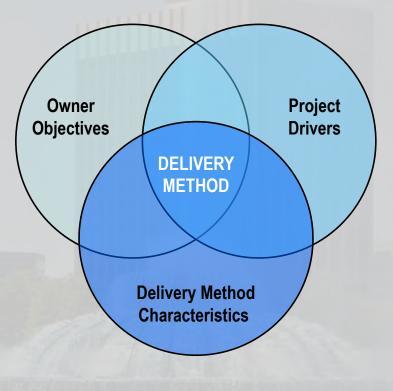
- Project Administration Team

 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



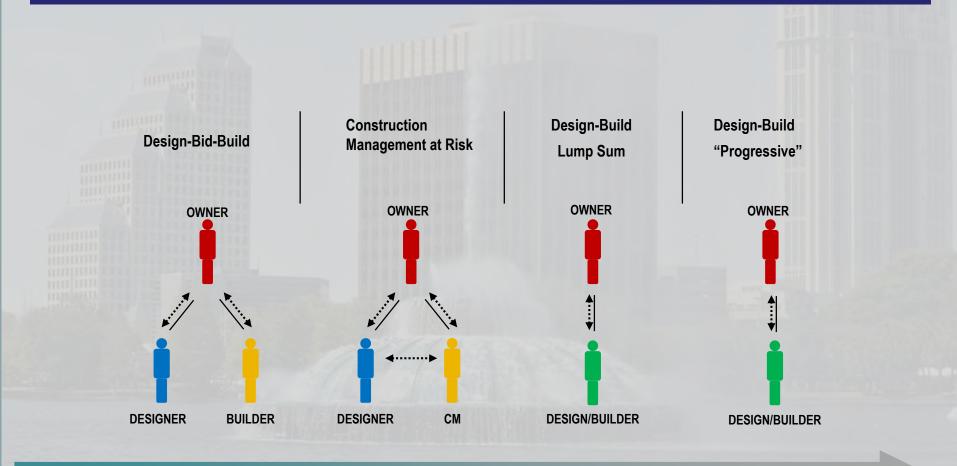
Delivery Methods

- 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

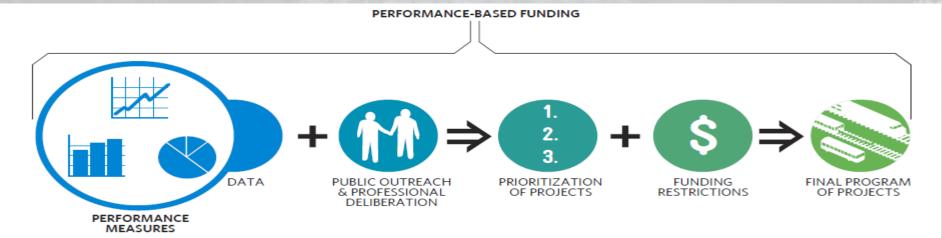
- Federal Legislation (MAP-21)
- Necessary Local Support
- Project Partnerships
- FTA New Starts/Small Starts Process
 FTA Grant Opportunities





MAP-21 & Transit Project Funding

- Moving Ahead for Progress in the 21st 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

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