Transit Assets and Opportunities Study



STAKEHOLDERS MEETING #4 TAMPA BAY HISTORY CENTER MONDAY, JUNE 23, 2014





Co-sponsors









PROJECT MANAGEMENT TEAM







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Build on assets in urban core:







Goals and Objectives

- Begin regional transit network, starting Downtown
- Leverage existing rail infrastructure
- Find lower cost options
- Identify projects for:
 - 2040 Transportation Plan
 - HART 10-Year Transit Development Plan





Goals and Objectives

- Maximize use of existing transit assets
- Expand transit markets
- Identify opportunities:
 - Integrate rail and bus
 - Maximize flexible use of rail lines
 - Use freight rail corridors





Goals and Objectives

- Create revenue opportunities for streetcar
- Identify opportunities for:
 - Transit oriented development
 - Redevelopment
 - Public-private partnerships
 - Joint development
 - Reducing streetcar liability





Building on Previous Efforts

- HART Alternatives Analysis (2010)
- Tampa Center City Plan (Invision 2013)
- TBARTA Master Plan (2013)
- HART Tampa Rail Project (Final EIS & Record of Decision - 2004)
- Various studies done for/by
 - Streetcar
 - MPO
 - City of Tampa





Existing Development Patterns













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Emerging Development















Alternatives Evaluation

- Started with:
 - Tampa Rail Study
 - HART AA
 - Existing streetcar
- Evaluated:
 - Individual segments
 - 8 system alternatives
- Considered:
 - Findings from previous studies \rightarrow strongest performers
 - Stakeholder input
 - Scenarios:
 - No use of freight rail
 - Freight rail operating agreement or purchase
 - Use of I-275 median





Evaluation Process

Criteria based on

- Goals and objectives
- Stakeholder input
- Standard transit indicators

Phase 1 – Technical Feasibility (quantitative):

- Engineering constraints
- Cost
- Freight rail liability
- Impact on right-of-way, environment





Evaluation Process

Phase 2 – Transit Success Indicators (qualitative)

- Serves existing & future pop. & job density
- Expands in-fill & redevelopment potential
- Connects activity centers
- Serves disadvantaged populations
- Enhances bus, bike & pedestrians connections





Modes Considered



Light Rail

Modern Streetcar







Modes Considered







DMU (Diesel Multiple Unit)





Modes Considered





Rubber-wheeled Circulators











Segments Evaluated





Segment Evaluation









System Alternatives









System Alternatives





Evaluation of Alternatives Results

		Phase I: Initial Screening															
		"Establish a technically feasible and cost effective transit system"									"Maximize System Flexibility and Utilization of Assets"						
		Geometri	c Analysis	Cost Range		Reduce CSX liability		Potential for Sociocultural Impacts Feature Impacts						Utilization of existing assets			Ability to expand through extensions
		Engineering constraints	Potentially significant impacts to ROW.	Order of magnitude capital cost range	Operations and maintenance annual costrange	Opportunity to avoid, minimize, or mitigate required liability insurance provisions.	Potential to Have a Negative Effect on a Historic District or Resource Group	Potential to Have a Negative Effect on a Historic Structure	Potential to Have a Negative Effect on a Historic Bridge	Potential to Have a Negative Effect on a Historic Cemetery	Potential to Have a Negative Effect on a Park	Potential to Have a Negative Effect on a Wetland	Potential to Have a Negative Effect on a Floodplain	Percent of the alignment that utilizes dedicated transit envelope (Marion St. or I-275)	Percent of the alignment that utilizes an existing CSK corridor	Percent of the alignment that utilizes existing streetcar corridor	Does the alignment either enhance, limit, or have no effect the development of other rail al ternatives.
System	Description	Low, Medium, High, Potol	low, Medium, High	Cost range	Cost Range	Avoid, Minimize, Mitigate, or none	Length of the Segment that passes through a Resource Group	Number of Structures Within 100 Peet	Number of Bridges Within 200 Peet	Number of Cemeteries Within 100 Ret	Number of Peris Impacted	Length of Segment in Wettend	te ngth of Segment in Flood phoin	Percent of the align me nt that utilizes dedicated transiten velope	Percent of the alignment that utilizes an existing CSX corridor	Percent of the alignment that utilizes existing streetcar corridor	Enhanar, Limit, No Effect
1	I-275 Light Rail with Streetcar	2	2	2	(NOT USED FOR SEGMENT ANALYSIS)	(NOT USED FOR SEGMENT ANALYSIS)	2	2	2	1	3	2	1	з	2	3	(NOTUSEDFOR SEGMENT ANALYSIS)
2	I-275/CSX Light Rail with Streetcar	2	2	2			2	2	2	3	2	1	2	3	2	3	
3	Cypress/I-275/Streetcar Light Rail	1	1	1			2	2	2	1	2	3	2	2	1	2	
3 Alt B	I-275/Laurel/Streetcar Light Rail	1	1	1			1	2	2	1	2	2	1	2	3	2	
4	Cypress/I-275 Light Rail-CSX DMU	2	2	2			2	2	2	1	2	1	2	2	1	2	
5	Cypress/I-275/Florida Streetcar - CSX DMU	3	3	3			2	2	2	1	2	2	3	2	3	2	
5 Alt B	Main/I-275/Central Streetcar - CSX DMU	3	3	3			3	3	3	1	2	2	3	2	3	2	
6	I-275/Streetcar Light Rail	2	2	2			1	2	2	1	2	3	2	2	3	2	





Evaluation of Alternatives Results

								Pha	se II: Seco	ondary Scr	ening								
"Support Redevelopment, Economic Development, and Create Revenue")	"Enhanco	e Mobility	Into and	Within [owntowr	ı Tampa"					
Maximize redevelopment and infill development den		Serve areas of future population and employment densities Enhance connec to TECOStreet and expand i reach		inhance connection to TECO Streetcar and expand its reach Provide connections between major activity centers		Provide Service to Historically Disadvantaged Populations			Serve areas of existing population and employment densities				Enhance existing and future transit service			Enhance multimodal connections			
Underutitized land: Land designated for use as parking with a structure value less than 250,000 in value or a lot value that exceeds the building value	Infill Development Opportunity - Vacant Land	Future Population (2040) within one-quarter mile	Future Employment (2040) within one-quarter mile	Number of direct connections to existing TECO Streetcar Stations.	Number of connections to existing TECO Streetcar stations within 3 blocks or one-quarter mile.	Number of quadrants? to which the service has direct connection	Number of Major Activity Centers served by each facility within one-quarter mile of each alignment.	Provides Service to Radial Minority Group	Provides Service to Ethnic Minority Group	Provides Service to Low Income Group	Existing Residential Units Within One-Quarter Mile	Existing Commercial Use Within One-Quarter Mile	Serves Existing Population Centers	Serves Existing Employment Centers	Does the alignment connect to the Marlon Transit Center (Downtown Intermodal Site)	Does the alignment connect to the HART MetroRapid	Bus Stops that fall within one-quarter mile of the alignments	Major Pedestrian and Bike facilities that intersect alignment.	Major Pedestrian and Bike facilities are within one- quarter mile of alignment
ofAlignment	ofAlignment	Afflected TAZ	Affected TAZ	connections	connections	Qued reints	Centers	Within EJ Block Group	Group	Within El BlockG roup	Number of Units	Total Square Peet	Segment	Segment	YorN	TorN	Number of Stops	Connections	Connections
2	2	2	2	1	1	1	3	2	2	2	2	2	2	2	1	1	2	2	2
3	2	2	2	1	1	3	2	2	3	2	2	3	2	2	1	1	2	2	2
2	2	2	2	1	1	2	2	2	2	2	2	2	2	3	1	1	2	2	3
2	2	2	2	1	1	3	3	2	2	3	3	2	2	1	1	1	2	9	2
3	2	1		1	1	3	2	2	3	2	3	3	2	1	1	1		2	2
2	1				1			1	1	1			1	,	1				1
								1		1	2	2	1	2					
2	2	1	1	1	1	2	1	2	2	2	2	2	2	1	1	1	2	2	2





Evaluation of Alternatives Results

Alt	Technica Ranking	Systems Cost						
	Total Score	Capital Costs O&M Costs						
1	33	\$1.5 - \$2.0 B \$28.6 - \$34.4 M						
2	33	\$1.0 - \$1.3 B \$25.6 - \$30.7 M						
3	40	\$1.5 - \$2.0 B \$31.7 - \$38.0 M						
4	38	\$1.5 - \$2.0 B \$31.7 - \$38.0 M						
5	42	\$800 M - \$1.0 B \$16.1 - \$19.3 M						
6	47	\$1.0 - \$1.3 B \$14.1 - \$16.9 M						
7	43	\$1.0 - \$1.3 B \$14.1 - \$16.9 M						
8	44	\$1.6 - \$2.0 B \$34.7 - \$41.7 M						









Freight Rail Assumptions

In the case of Sunrail in Orlando, the rail corridors were acquired by the State of Florida.

Spur

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Legend Section of Subdivision Used By TAOS Alternati Rail Subdivision BROOKSVILLE CLEARWATER PORT TAMPA SPIL Other Rai - Other Ra System Statistics * Based on Sunrail costs 3.2 Miler 5.4 Mile: Segment **Total** Length Acquisition Length Needed Cost* \$8M - \$16M **Brooksville** 61.2 miles 3.2 miles Subdivision Clearwater 60.3 miles 5.4 miles \$13M – \$27M Subdivision 12.7 miles 0.0 miles Port Tampa

West-Central Florida Rail System (2014)







Potential Regional Connections



Building on Current Assets

Local System Utilizes

Existing Streetcar Corridor, Existing CSX Rail Corridors, Airport People-Mover Extension, I-275 Right-of-Way, and The Marion Street Transitway

Future Connections Utilize

Howard Frankland Bridge, I-4 Right-of-Way, and Existing CSX Rail Corridors





You spoke. We listened. Tell Us More!

A Planning Commission – Metropolitan Planning Organization for Transportation Partnership in Coordination with the Transportation for Economic Development Initiative

Part 2: How will we get here?

Imagine2040.org July 10th through Labor Day











Next Steps

Key Decision	Who Decides
Include corridor(s) in 2040 Long Range Transportation Plan: • Identifies: • Mode • Termini • Costs • Potential funding • Signals intent to develop a project • Officially communicates project priorities to Tallahassee & DC	MPO





Next Steps

Key Decision	Who Decides
 Enter Project Development Phase: Alternatives Analysis Environmental review Stakeholder participation 	HART or other implementing agency<i>With FTA concurrence</i>
Select preferred alternative	HART or other implementing agency
Pursue new funding source	BOCC →Voter referendum
Adopt project into Cost Affordable Plan	MPO
Rate & approve project to enter Engineering & Design Phase	FTA
 Secure funding commitment Local, state & private Sufficient to build & operate system 	HART or other implementing agency
 Rate project & approve Full Funding Grant Agreement Construction phase 	FTA
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Federal Funding

- Funds light rail, commuter rail, streetcar, and BRT projects
- Roughly \$2 billion appropriated each year
- Annual Report to Congress includes ratings for each project and Administration's funding recommendations
- Highly competitive, demand for funds exceeds supply – 29 projects in current pipeline





MAP-21 Eligible Projects

New Starts

- Total Cost ≥ \$250M <u>and/or</u> New Starts funding sought is >\$75M
- New fixed guideway system (light rail, commuter rail etc.)
- Extension to existing system
- Fixed guideway BRT system
- Small Starts
 - Total cost <\$250 million <u>and</u> Small Starts share <\$75 million
 - New fixed guideway systems (light rail, commuter rail etc.)
 - Extension to existing system
 - Fixed guideway BRT system
 - Corridor-based BRT system





New Starts Process



Project Development

- Complete environmental review process including developing and reviewing alternatives, selecting locally preferred alternative (LPA), and adopting it into fiscally constrained long range transportation plan
- Gain commitments of all non-Small Starts funding
- Complete sufficient engineering and design

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Expedited Grant Agreement

Construction



FTA evaluation, rating, and approval









Local Financial Commitment



To encourage overmatch, projects proposing less than 50% Section 5309 share will have their local financing commitment rating raised one level





Receipt of Funding

- FTA's decision to recommend funding project in President's Budget
 - "readiness" of the project for capital funding
 - project's overall rating
 - geographic equity
 - amount of available funds versus the number and size of the projects in the pipeline
- To receive construction grant agreement a project must:
 - Complete the Planning, Project Development, and Environmental Review Processes
 - Meet Project Readiness Requirements (technical capacity, firm and final cost estimate, all funding committed)
 - Receive a "Medium" or higher overall rating
 - Meet all other Federal Requirements





Timeline

Funding	Project Development	Design	ROW	Construction	Total
New Starts	2-3 yrs	2-3 yrs	2 yrs	2-3 yrs	8-11 yrs
No New Starts (Local)	1-2 yr	1-2 yrs	2 yrs	1-2 yrs	5-8 yrs





SWOT

(Strengths, Weakness, Opportunities and Threats)





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(Strengths, Weakness, Opportunities and Threats)





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