

Date: December 3, 2015

Time: 3:00 - 5:00 p.m.

Location: Jacksonville Main Library 303 N. Laura Street, Multipurpose Room 1

<u>Agenda</u>

- 3:00 Welcome
- **3:05** Review of Skyway Advisory Group Meetings
 - Process Review
 - Assessment Overview
 - Options
 - Life Cycle Cost Analysis
 - Public Opinion Survey
- **3:25** Roundtable Discussion on Policy Statements and Recommendations
 - Review of Key Considerations and Policy Statements
 - Development of Recommendations
 - Implementation Strategy
- 4:50 Public Comments
- **5:00** Closing Comments / Adjourn
- **5:30** Public Forum



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Skyway Assessment Overview

Skyway Condition

Assessment — Infrastructure

- Overall satisfactory conditions but
 has areas that need attention
 - Drainage system in need of a redesign
 - Elevators need rehabilitation
 - San Marco, Riverplace and Kings Avenue stations escalators need replacing
 - $_{\circ}$ Station lighting needs upgrading
- 15-year estimated state of good repair infrastructure needs - \$24M



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Skyway Condition

Assessment — Operating System

- · Automated Train Supervision recently upgraded
- Most of the operating system has obsolescence issues
 - SCADA Power supply and distribution
 - Remote Feed Boxes Train Communication Cable
 - Automated Passenger Counter System
 - Fare Collection System
 - o Guideway Intrusion Detection System
- 15-year estimated state of good repair operating system needs - \$15-19M

Skyway Condition

Assessment — Vehicles

 Vehicles no longer produced by Bombardier



- Four out of 10 vehicles out of service
- Vehicle propulsion issues
 - o Long repair lead time
 - o Drive controller circuit boards availability
- Estimated state of good repair cost is \$18M for overhaul and \$35M for new vehicles

Industry Feedback

- Industry did not respond favorably to overhaul option
- No one offered rebuilding existing vehicles (Like-kind replacement)
- Modifying infrastructure to accommodate new vehicle is cost prohibitive
- Modifying new vehicle to run on Skyway infrastructure is viable option
- PRT option proposed as system replacement option but technology not proven







Overv	view of C	ptions			
	Option 1 – Overhaul	Option 2 – New Vehicles	Option 3 – Decommission	Option 4 – Repurpose	
Vehicles	\$18 milion	\$35 milion	\$6.4 milion	\$6.4 milion	
Operating Systems	\$19 million (over 15 years)	\$15 million (over 15 years)	\$6.9 million (over 5 years)	\$6.9 milion (over 5 years)	
Infrastructure	\$24 million (over 15 years)	\$24 million (over 15 years)	\$9.2 milion (over 5 years)	\$9.2 milion (over 5 years)	
Demolition/Retrofit Cost	N/A	N/A	\$20-25 milion	\$13.1-15.7 million	
Contingency (15%)	\$9.2 milion	\$12.3 milion	\$5.4-6.2 million	\$4.4-4.8 million	
Payback Obligations (FTA)	N/A	N/A	\$24.8 milion	\$24.8 million	
Total	\$70.2 milion	\$85.1 milion	\$72.7-78.5 million	\$64.8-67.8 milion	
Long term vision/extension	System not expandable	Expandable	N/A	N/A	
O&M Cost	\$6.3-\$8 million (2016-2025)	\$6.3-\$7.5 million (2016-2025) (Reduction of \$0.5M/yr from 2020)	\$3.4 milion (Bus Replacement)	\$3.4 milion (Buses) \$1.0-2.0 milion (Elevated bike/ped)	
Lfe	20 years	25-40 years	5 Years	5 Years	
Service Replacement	Not applicable	Not applicable	BRT, Trolley, Streetcar or PRT	BRT, Troley, Streetcar or PRT	
Advantages	Maintains(UBics existing infrastructure Adds 15 years to IFe of vehicles No FTA payback No/minor learning curve for staff Can avoid major passenger service interruption	Extended life (25 to 40 years) Lower risk of cost escalation New technology Maritains/Itilities existing infrastructure Lower O&M costs More Lapacky Able to extend Can avoid major passenger service interruption Aesthetics	Lower long-term operating and capital costs	Lower bing-term operating and capital costs Reuse of infrastructure	
Disadvantages	High risk for cost escapition Industry does not see favorably Uncertainty about propulsion system Constrained for expansion Does not fully cover remaining useful if e of Infrastructure Higher OAK costs Linited procurement competition	Higher capital cost relative to overhaul Unique vehicle Linkted procurement competition (but more than existing vehicles)	Paybackto FTA, FDOT and Cty for remaining useful #e Demolikon cost (Estimated \$20-25M) Impact on future funding from FTA - Continues funding from FTA - Cost thread for the form FTA - Cost thread for the form FTA - Southwest Corritors - The affects CNB for unding Impact on Downtown and Image - Brockyn modevelgenment, - Inconsistent with 1817 C Pares Need to replace service bots - Replacement options less relable than Skyway	See decommissioning disadvartages, except demotion costs Need to maintain infrastructure including stators (elvaviors) to maintain ADA accessibility Would require significant guideway modivery of the state of the state of the New of the state of the state of the state would be a state of the state of the state modification — Fencing for fail protection Public safety	
**Estimates based on best av prior to final recommendation	ailable data and will be thoroughly rev IS	iewed and refined		13	

Mode	Cost	Frequency	Speed/	Economi	Other Considerations
Automated People Mover	Highest	High	High	Med-High	Infrastructure in place Obsolescence issues
Streetcar	High	Low	Med-Low	Highest	Challenge with river crossing Impact to existing road network Depends on dedicated lanes
BRT	Medium	Medium	Med-Low	Medium	 Depends on dedicated lanes Impact to existing road network Could tie into First Coast Flye Payback issue
Trolley	Low	Medium	Low	Low	Easiest transitionPayback issue

Payback Obligations						
	FTA	FDOT	СоЈ			
Current	\$33.5M	\$12.1M	\$6.0M			
5 Years	\$24.8M	\$9.0M	\$4.3M			
10 Years	\$16.7M	\$6.0M	\$2.9M			
15 Years	\$10.6M	\$3.8M	\$1.9M			
20 Years	\$4.8M	\$1.7M	\$0.85M			
• Dem at o	nolition cost of ver \$20 million	f the infrastructi n	ure is estimated			
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Key Assumptions

- All options include operation of existing system for five years
- Assume that each option provides same service as Skyway
- Geographical Skyway length 2.5 miles
- · Replacement options double length to 5 miles
- Assume no FTA payback for overhaul, replacement or streetcar options











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Key Considerations/Committee Comments

- > Support the Downtown Vision
- Connectivity with other transportation modes and the larger regional transit system
- > Compatibility with a Regional Transportation Plan
- > Downtown mobility and transportation efficiency
- > At-grade extensions
- > Street level interaction and pedestrian accessibility
- Benefits of Elevated System vs At-Grade System (No traffic congestion, or traffic signals or rail interruptions, etc.)

Key Considerations/Committee Comments

- > Value of the customer experience
- > Public investment in Skyway to date
- > Public preference
- Potential available funding (Federal, state and local participation)
- > Potential for Public Private Partnerships
- > Effect on JTA long term financial plan
- > Initial cost for alternative going forward

Key Considerations/Committee Comments

- > Life cycle cost of selected alternative
- How the Skyway investment affects other services (i.e. BRT, trolley, bus)?
- Flexibility ability to adapt to changing conditions (i.e. economy, demographics, development trends, etc.)
- Ability to adapt to changing technology (i.e. autonomous vehicles)
- > FTA, State, Local Payback and effect on future funding
- Don't treat different from roadways have major maintenance and obsolescence issues too

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Policy Statements 1 and 6

POLICY STATEMENT 1

Original: It is important to have a high quality downtown transit circulator. (4.0)

Revised: No revisions.

POLICY STATEMENT 6

Original: The ultimate Skyway solution should be a collective effort among multiple stakeholders (e.g. federal, state, local and private sector). (4.0)

Revised: No revisions.

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Policy Statement 3

POLICY STATEMENT 3

Original: The Skyway should be modernized, including improvements to the operating system, stations, guideways and vehicles. (3.3)

Revised: The <u>transportation system</u> should be modernized, including improvements to the operating system, stations, guideways and vehicles.

Comments:

• Still some concern that Skyway is the final option but it's the first choice right now

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Policy Statement 5

POLICY STATEMENT 5

Original: To reach its full potential, extensions should be considered to support the vision for Downtown Jacksonville. (3.8)

Revised: To reach its full potential, <u>various extensions to the 2.5</u> <u>mile transportation system in Downtown Jacksonville, without</u> <u>being specific as to mode and including expansion of operating</u> <u>hours</u>, should be considered to support the <u>Downtown Investment</u> <u>Authority's</u> vision for <u>downtown</u> and <u>be integrated into</u> a regional transportation plan.

Comments:

- Be "agnostic" as to extension technology
- · Concerns about whether elevated structure is best option for extensions
- Coordinate schedules to support downtown events and consider service later and on weekends
- Highlight Skyway is part of bigger system

