

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







	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 milion (over 5 years)	\$6.9 million (over 5 years)	
Infrastructure	\$24 milion (over 15 years)	\$24 milion (over 15 years)	\$9.2 million (over 5 years)	\$9.2 milion (over 5 years)	
Demolition/Retrofit Cost	N/A	N/A	\$20-25 million	\$13.1-15.7 million	
Contingency (15%)	\$9.2 milion	\$12.3 million	\$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 million	
Long term vision/extension	System not expandable	Expandable	N/A	N/A	
D&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)	
fe	20 years	25-40 years	5 Years	5 Years	
Service Replacement	Not applicable	Not applicable	BRT, Trolley, Streetcar or PRT	BRT, Trolley, Streetcar or PRT	
Advantages	Mantarsv(Utites existing infrastructure Adds 15 yeans to life 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 cod escalation     New technology     Mantans(Httes existing infrastructure     Lower ORM costs     More capacity     Able to extend     Can avoid major passenger service     interruption     Aesthetics	<ul> <li>Lower brig-term operating and capital costs</li> </ul>	Lower brg-term operating and ca costs     Reuse of infrastructure	
Disadvantages	High risk for cost escalation     Industry does not see favorably     Uncertainty about propulsion     system     Unique and obsolte vehicle     Constrained for expansion     Dusdriated for expansion     useful life of infrastructure     Higher OAM costs     Limited procurement competition	Higher capital cost relative to overhaul     Unique vehicle     Limited procurement competition (but     more than existing vehicles)	<ul> <li>Paybackto FTA, FDOT and Cky for remaring useful ife</li> <li>Demolkin cost (Estimated \$20-25M)</li> <li>Iimgact on fLue funding from FTA</li> <li>Fist Coast Flyer Bit Teast and</li> <li>This Affects CNB Bits funding</li> <li>Imgact on Downtown and Image</li> <li>Brooklyn redevelgement, Healthy Town, Stipyards</li> <li>Inconsistent with JRTC Plans</li> <li>Healthy Towny, Stipyards</li> <li>Deplacement options liss</li> <li>replacement options liss</li> <li>replacement options liss</li> </ul>	<ul> <li>See decommissioning diadvartist except demotion costs</li> <li>Need to maritain infrastructure including stations (elevators) to maritain ADA accessibility</li> <li>Would require significant guidewe modification to make pedestriain walkway</li> <li>Guideway beam removal or modification</li> <li>Fencing for fail protection</li> <li>Public safety</li> </ul>	

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

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			
	nolition cost of ver \$20 million		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

