

CSX East-West Rail Feasibility Study Project Overview

JACOBS

Background and Approach

- Purpose and Need
- Technology Assessment
- Technical Analysis
 - Ridership
 - Capital Costs
 - Operation and Maintenance Costs
- Evaluation and Refinement
- Finance and Implementation
- Role of SAC





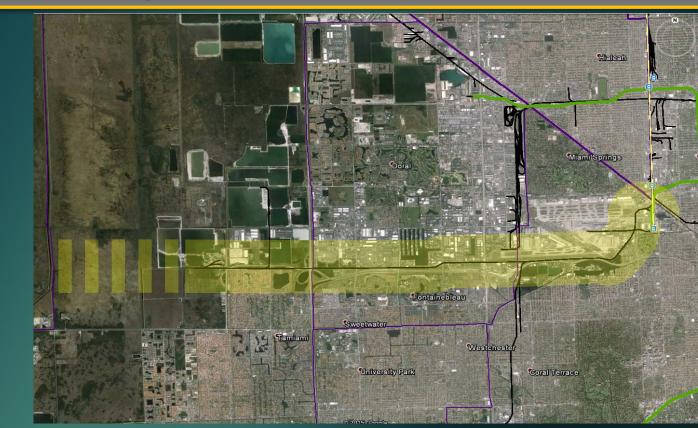
Issues and Opportunities

- Dolphin Expressway (SR 836) one of Miami-Dade's most congested corridors serving over 200,000 vehicles per day
- Existing industrial railroad network and conditions
- Potential joint freight and passenger use
- State and CSX-owned industrial tracks parallel SR 836 west from the Miami Intermodal Center (MIC)
- Connections to Metrorail, Tri-Rail and Amtrak at the MIC
- Other BRT & Express Bus Plans

Corridor Description

Right-of-Way

- 100' width
- CSX Ownership
- FDOT Ownership
- Multiple grade Crossings
- Freight Operations



Prior Corridor Studies

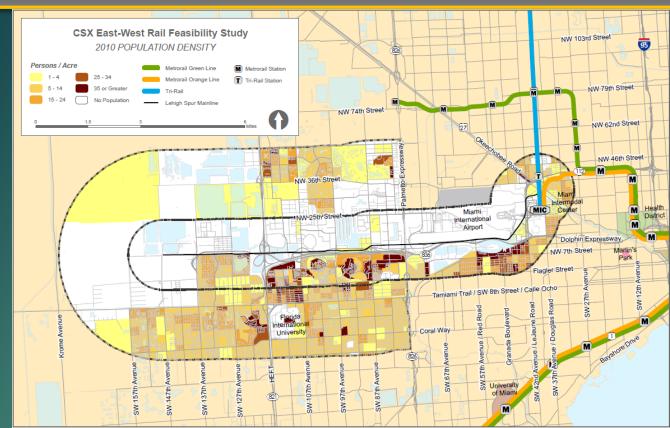


2009 MPO CSX Corridor Study

Corridor Socioeconomic Conditions

Population Density

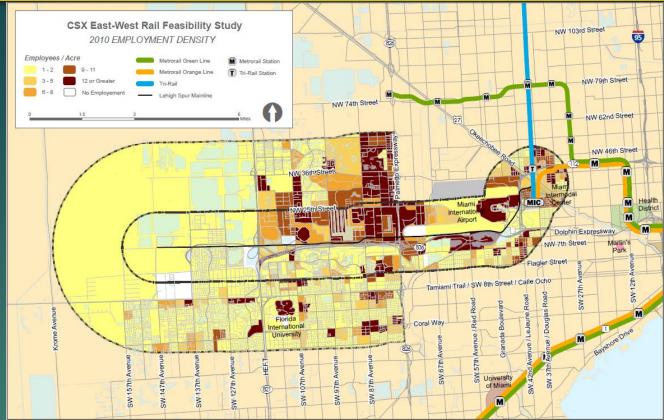
- Residences predominantly located south of the CSX rail corridor
- 139,876 residents located within 1 mile corridor buffer (2010 census)



Corridor Socioeconomic Conditions

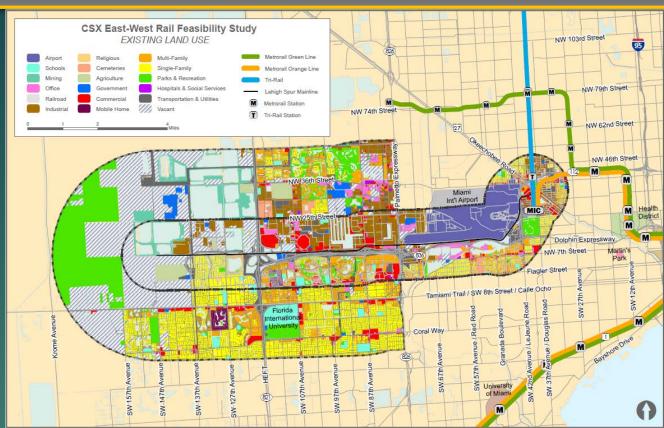
Employment Density

- Higher concentration of jobs and employment centers located north of the CSX rail corridor and west of the airport
- 135,524 jobs located within 1 mile corridor buffer (2010 census)



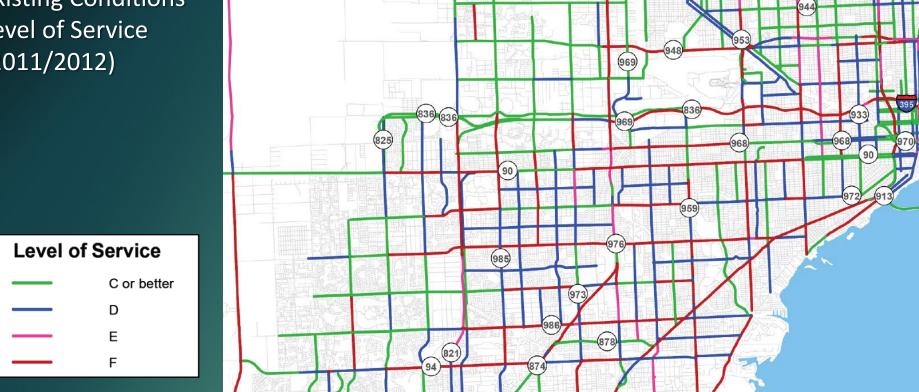
Corridor Land Use

- Mixed employment and residential centers located north of the CSX rail corridor
- Majority residential uses located south of the CSX rail corridor
- Vacant and undeveloped land located west and northwest of the CSX rail corridor



Existing Traffic Conditions

Existing Conditions Level of Service (2011/2012)



Corridor Infrastructure

- Track / Infrastructure / Structures / Grade Crossings
- Current / Future Freight Operations
- Existing Customers, Siding Agreements
- Provide seamless connections to Tri-Rail and Metrorail

Concept One:

- 9.5 mile diesel light rail transit (DLRT) route
- 6 stations in addition to the MIC
- Mostly double tracked to accommodate traffic
- Matches the schedule, frequency and hours of service of the Orange Line



Concept One:

- 10 minute peak period headways
- 15 minute off-peak headways
- 5 minute timed transfers with Orange Line
- Off-peak trains held up to 5 minutes for late arriving connections
- 122nd Ave to Government Center in 38 minutes
- Freight restricted to 10:00 pm to 5:00 am



Concept Two:

- 15 mile diesel commuter rail route similar to Tri-Rail
- 7 stations in addition to the MIC
- Mostly single track with one or more sidings
- Potential to interline or operate as an extension of existing Tri-Rail service



Concept Two:

- 30 minute peak period headways
- 60 minute off-peak headways
- Off-peak trains held up to 5 minutes for late arriving connections
- Krome Ave to Government Center in 52 minutes
- Freight operations accommodated during the midday, evening and overnight periods



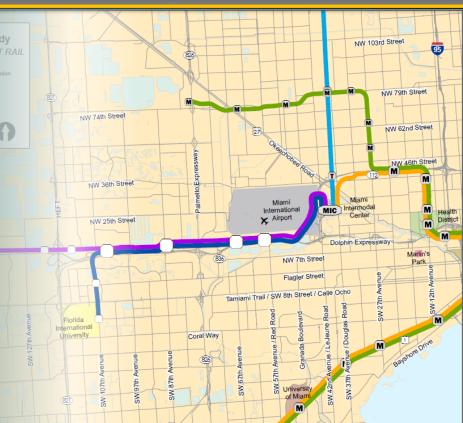
Concept Three:

- Diesel light rail route from 137th Avenue and FIU to MIC
- 9 stations in addition to MIC
- Mostly double tracked
- 2 coordinated services on shared track, focusing on different travel markets



Concept Three:

- "Turnpike" route 11 miles between 137th Avenue and MIC
- "FIU" route 10 miles between FIU and MIC with 2.2 mile branch south along median of 107th Avenue
- Branch along 107th Avenue could be single track to reduce impacts on roadway traffic



Concept Three:

- 15 minute peak and 15 minute off-peak headways on shared trunk stations
- 30 minute peak and 30 minute off-peak headways to FIU and Turnpike routes
- 5 minute timed transfers with Orange Line
- FIU to Government Center in 42 minutes
- Freight restricted to 10:00 pm to 5:00 am



Preliminary Challenges

- Matching Tri-Rail and Amtrak Schedules
- Matching Metrorail's Schedule
- Maintain needs of industrial clients
- Provide ample Park-n-Ride facilities
- Maintain potential for future branch line extensions
- Funding and project implementations

Study Advisory Committee (SAC)

- Study Advisory Committee (SAC)
 - May August/September November
- Informational Meetings
- Website

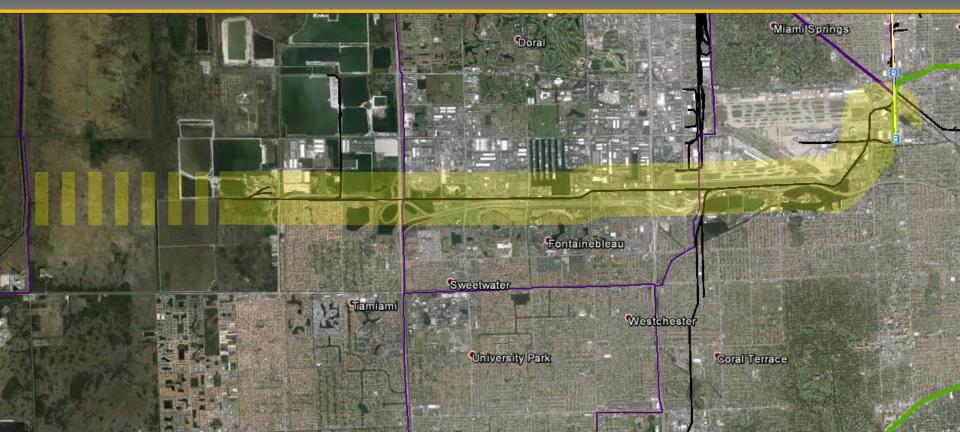
Study Schedule

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
SAC Meetings		\star			7	T		\star		
Background and Existing Conditions										
Develop Initial Alternatives										
Refine Initial Alternatives										
Evaluate Final Alternatives										
Implementation Plan										
Findings and Recommendations										
Final Report / MPO Presentation										

Discussion

- 3 Preliminary Service Alternatives
 - MIC to Turnpike (Turnpike Alternative)
 - MIC to Krome Avenue (Krome Alternative)
 - MIC to FIU (FIU Alternative)
 - MIC to Kendall
 - Connection to Douglas Road Corridor
 - Others?

CSX East-West Corridor



Questions

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