# Federal Transit Administration's New Starts Process

# Orange Line Extension Alternatives Analysis Study

**April 2009** 



## Schedule for Tonight's Meeting

- Structure of the meeting
- Questions and answers process
  - Submit your comments in writing on comment cards
  - Comments and questions will be grouped and answered by topic
  - All comments and questions will be addressed on CTA's website - <u>www.transitchicago.com</u>
  - An interpreter for the hearing impaired and translators for the Polish and Spanish speaking communities are available this evening

## **Tonight's Speakers**

- Darud Akbar Moderator
  - Chicago Transit Authority
- Jeffrey Busby Strategic Planning Manager
  - Chicago Transit Authority
- Ronald Shimizu Orange Line Study Area Manager
  - Parsons Brinckerhoff

#### **Outline of the Presentation**

- Discuss Status of Orange Line Extension **Alternatives Analysis Study** 
  - New Starts Overview
  - Screen 1 Findings
- Screen 2 Preliminary Findings
- **Public Involvement Process**

# Status of Study

## **FTA's Required New Starts Process**





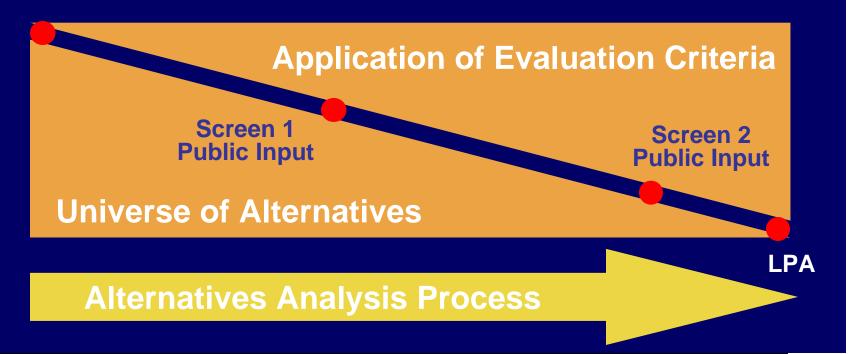
## **Alternatives Analysis (AA) Studies**

- FTA Requirement for federal funding for transit expansion (New Starts)
- Identifies transit opportunities and ensures all practical solutions are considered
- Ensures planning is consistent among all New Starts projects throughout the country
- Provides opportunity to gather information and receive public input
- Identifies Locally Preferred Alternative



#### **FTA Evaluation Process**

The Purpose and Need is first defined, the evaluation criteria are applied, and options within the Universe of Alternatives are eliminated until, at the end of the process, there is a Locally Preferred Alternative (LPA).





### **Purpose and Need**

- Relieve roadway, bus and passenger congestion at Midway Airport Orange Line station
- Better accommodate tremendous growth in employment opportunities along Cicero Avenue and air travel at Midway since the opening of the Orange Line in 1993
- Reduce lengthy bus trips to access Orange Line
- Alleviate traffic congestion due to expected growth in study area population and employment



#### **Screen 1 Process**

- 1. Define the Universe of Alternatives
- 2. Evaluate all Potential Technologies
- 3. Evaluate all Potential Alignments (Corridors and Profiles)
- 4. Evaluate all Potential Combinations of Technological and Alignment Alternatives
- 5. Advance Strongest Combinations to Screen 2



## **Universe of Alternatives - Technologies**

#### **TECHNOLOGIES**

Automated Guideway/Monorail
Bus Rapid Transit
Commuter Bus
Commuter Rail
Heavy Rail Transit
High Speed Rail
Light Rail Transit
Local Bus
MagLev
Personal Rapid Transit

**Streetcar** 



















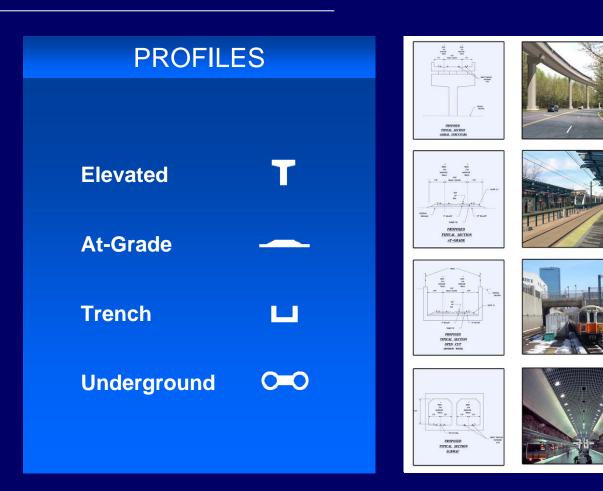






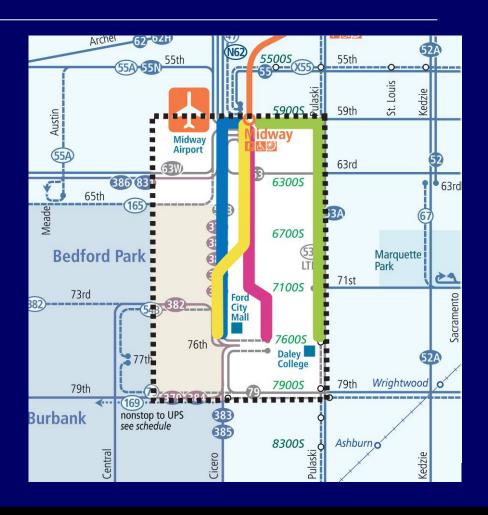


## **Universe of Alternatives - Profiles**





## **Corridors Considered in the AA Study**



- Cicero Avenue
- Belt Railway / Cicero Avenue
- Belt Railway / Kostner Avenue
- Pulaski Road



## **Screen 1 Evaluation Process Findings**

#### **Bus Rapid Transit**



**Cicero Avenue Corridor** 



#### **Heavy Rail Transit**



**Belt Railway / Cicero Corridor** 





**Belt Railway / Kostner Corridor** 



#### **Screen 1 Public Involvement Process**

- Public Meeting on August 19, 2008 at Ford City Mall
- More than 100 people attended the public meeting
- Met with stakeholders and elected officials
- 108 comments submitted and answered



# Screen 2 **Analysis**



#### **Screen 2 Process**

- Step 1 Alternatives Definition
  - Conceptual Alignment Refinement
  - Operating Plans
- Step 2 Detailed Evaluation
  - Physical Constraints
  - Social & Economic Factors
  - Environmental Factors
  - Transportation Factors
  - Capital Cost Comparison
  - Operating and Maintenance (O&M) Cost Comparison
  - Ridership Potential

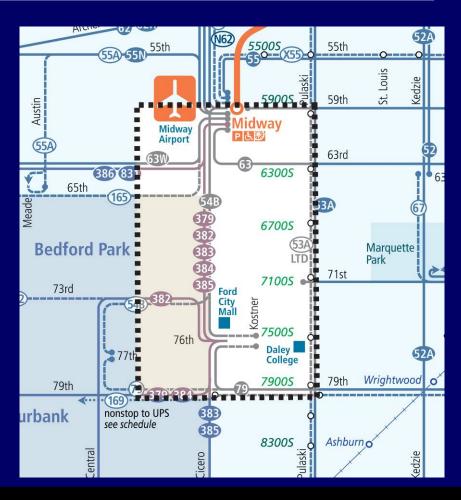


#### **Alternatives Definition**

- No Build Alternative
- Transportation System Management (TSM)
   Alternative
  - Bus Rapid Transit (BRT) combined with TSM Alternative
- Heavy Rail Transit (HRT) Extension via Belt Railway/Cicero Avenue
- Heavy Rail Transit (HRT) Extension via Belt Railway/Kostner Avenue



#### **No Build Alternative**



- Existing CTA heavy rail transit service terminating at the Midway station
- Existing CTA and Pace bus service



#### **TSM Alternative**

- BRT redefined to be part of TSM
   Alternative
- Express bus between CTA Midway station and Ford City Mall
  - No exclusive lanes
  - No intermediate stops
  - Transit signal priority





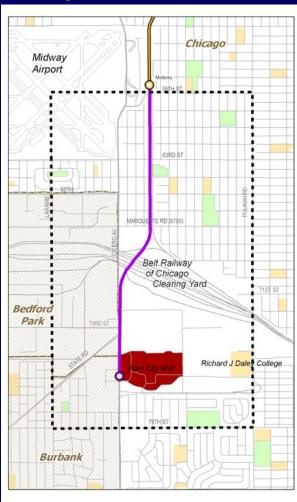
## HRT Alternative – Belt Railway/Cicero Ave.

#### Belt Railway section

- HRT under 59th St.
- HRT under 63<sup>rd</sup> St.
- HRT over Marquette Rd.
- Around new LeePasteur/Hurley School
- Over west side of railroad yard

#### Cicero Ave. section

- Above Cicero Ave. or
- On east side of Cicero Ave.

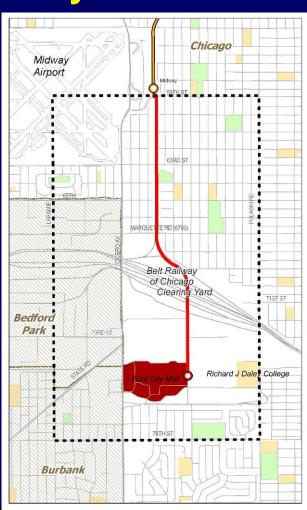




## HRT Alternative – Belt Railway/Kostner Ave.

#### Belt Railway section

- HRT under 59th St.
- HRT under 63<sup>rd</sup> St.
- HRT over Marquette Rd.
- HRT turns to east just north of railroad yard
- HRT over railroad yard
- Kostner Ave. section
  - Above Kostner Ave.



## **HRT Alternative – Belt Railway Section**



## **HRT Alternatives – Elevated Example**



**SB Cicero Avenue** 



## **Step 2 – Detailed Evaluation**

#### Evaluation Factors

- Physical Constraints
  - Right-of-Way Requirements
- Social & Economic factors
  - Demographics and Employment
- Environmental Factors
  - Noise, Visual, Natural and Cultural Resources
- Transportation Factors
  - Travel Time, Transit Connectivity and Traffic
- Capital Cost
- Operating & Maintenance Cost
- Ridership Potential



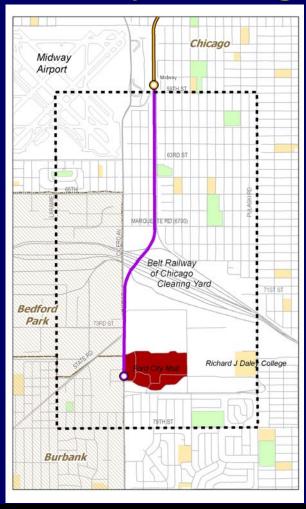
Factor	TSM	HRT BRC/ Cicero	HRT BRC/ Kostner
Physical	0	0	-
Social/Economic	0	0	0
Environmental	0	0	0
Transportation	-	+	+
Capital Costs	+	0	-
O&M Costs	+	0	0
Ridership	0	+	+
Summary	+1	+2	0
LPA Recommend	NO	YES	NO

Factor	TSM	HRT BRC/ Cicero	HRT BRC/ Kostner
Physical	0	0	-
Social/Economic	0	0	0
Environmental	0	0	0
Travel Time Ford City to Library (minutes)	42	30	30
Capital Cost (YOE)	\$40 M	\$400 M	\$700 M
O&M Cost (annual)	\$2.6 M	\$4.3 M	\$4.3 M
Ridership (annual)	0.5 M	3.0 M	3.0 M
Summary	+1	+2	0
LPA Recommend	NO	YES	NO

## Screen 2 Evaluation – Preliminary Findings

Locally Preferred
 Alternative Preliminary
 Recommendation

Heavy Rail Transit Extension via Belt Railway / Cicero Avenue





# **Next Steps**



## **Next Steps**

- Incorporate public comments
- Confirm Screen 2 preliminary findings for LPA and conclude Alternatives Analysis study
- Review findings with FTA
- CTA Board to approve LPA
- Ongoing public involvement
  - Sign-in cards will be used to create a contact list to send notices and updates
  - Project updates on CTA web site www.transitchicago.com



### **Questions and Comments**

- CTA representatives are available to answer additional questions
- Written comments and questions accepted through May 6, 2009 (two weeks from today)

Mr. Darud Akbar

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