

SOUTHWEST

Green Line LRT Extension



# Community Advisory Committee

June 14, 2012





# Today's Agenda

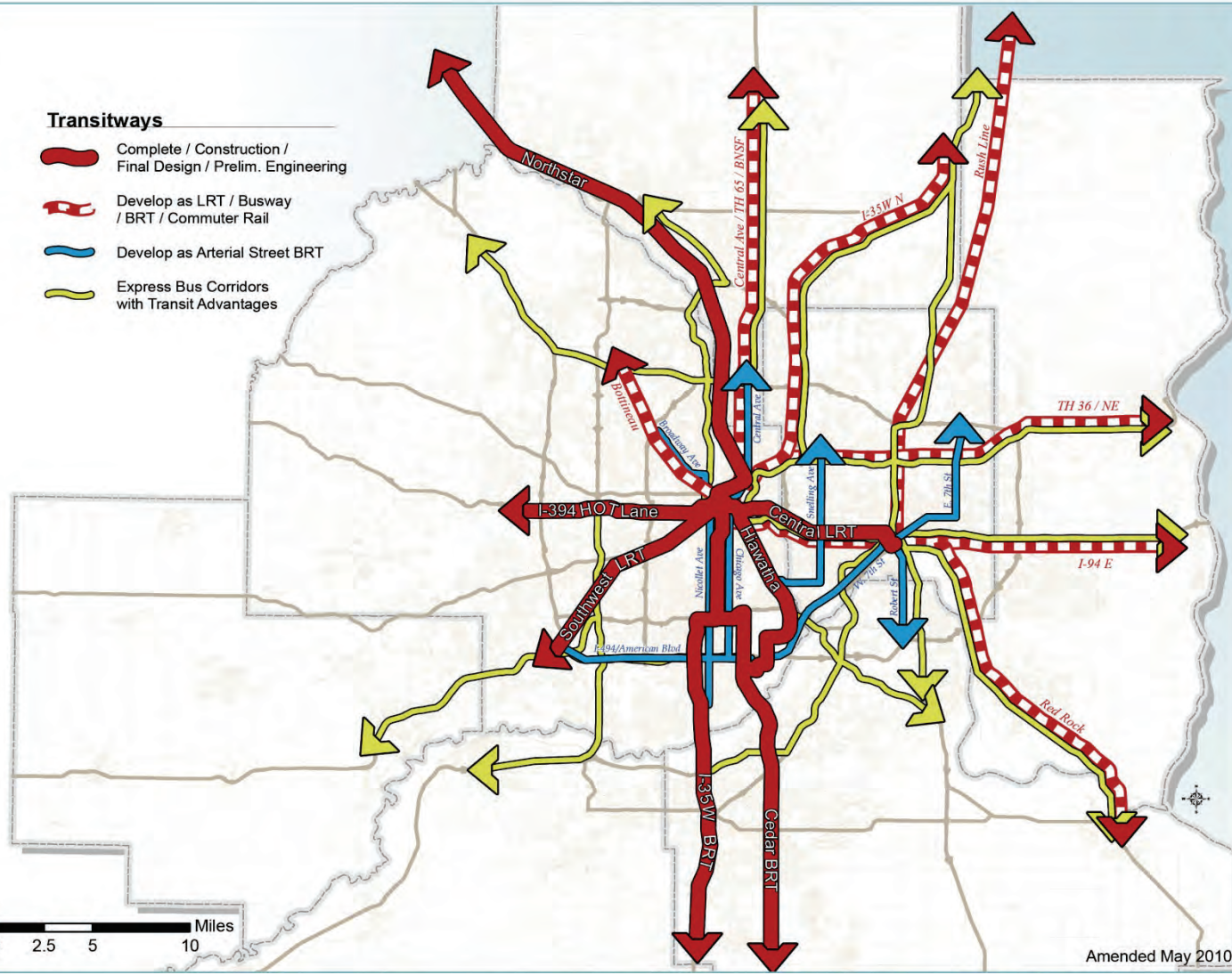
- Overview of the Southwest LRT project
  - What is LRT?
  - What is the federal New Starts process?
  - What is NEPA?
- Overview of Community Works



# Regional Transit System

## Transitways

-  Complete / Construction / Final Design / Prelim. Engineering
-  Develop as LRT / Busway / BRT / Commuter Rail
-  Develop as Arterial Street BRT
-  Express Bus Corridors with Transit Advantages



**2030 TRANSITWAY SYSTEM**

Important link in the regional transit network



# Federal Funding Participation

Hiawatha: \$413 million  
Northstar: \$162 million  
Central: \$478 million  
**Total: \$1.053 billion**





# What is LRT?

- LRT = Light Rail Transit
- High capacity
- Quick acceleration & braking
- Powered by electricity
- Quiet operation
- Frequent service 21 hours/day
- Stops every ½ - 1 mile



# What is LRT? Station Platform



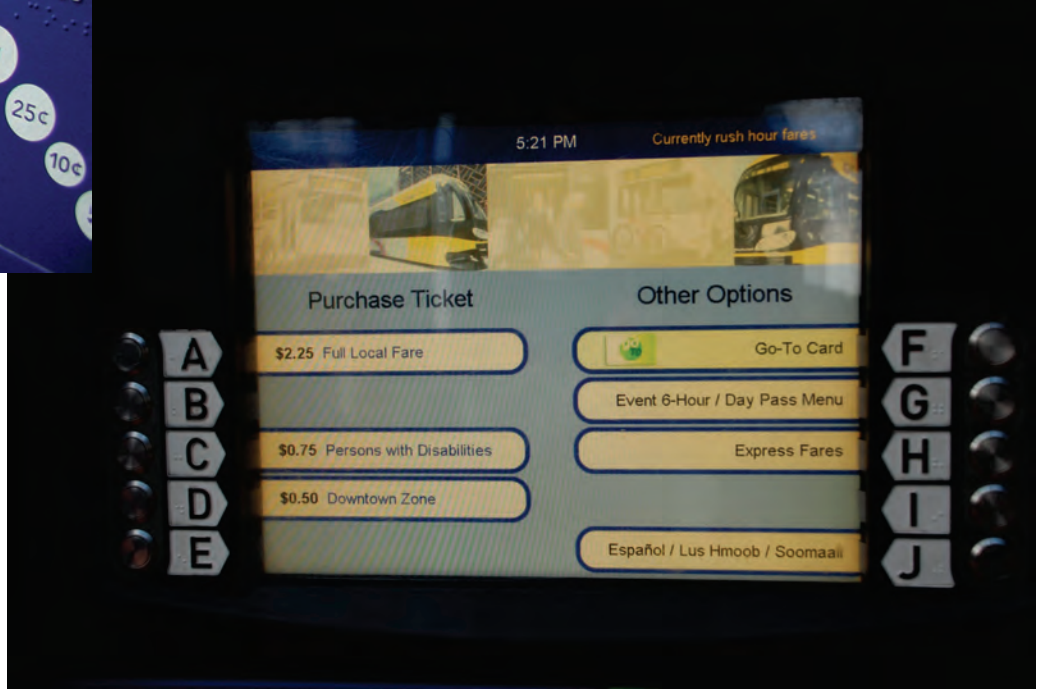


# What is LRT? Station Amenities





# What is LRT? Ticket Vending Machine





The logo for the Southwest Green Line LRT Extension features the word "SOUTHWEST" in a bold, blue, sans-serif font. Below it, "Green Line LRT Extension" is written in a smaller, green, sans-serif font. To the right of the text is a stylized graphic of a light rail train in blue and yellow, moving towards the right. The entire logo is set against a white background with a green border.

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Green Line LRT Extension

# What is LRT? Seating for 66 Passengers





# What is LRT? Standing Room for 60 More



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# What is LRT? Catenary System



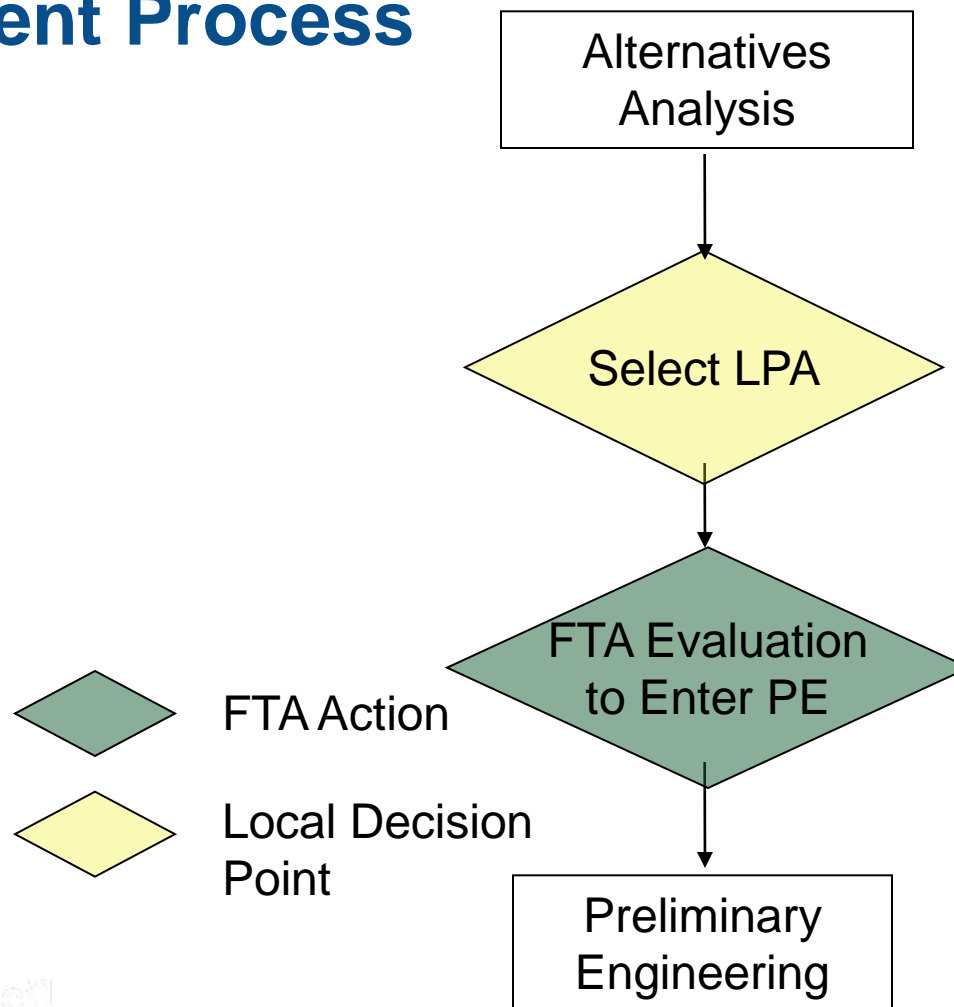


# FTA “New Starts” Program



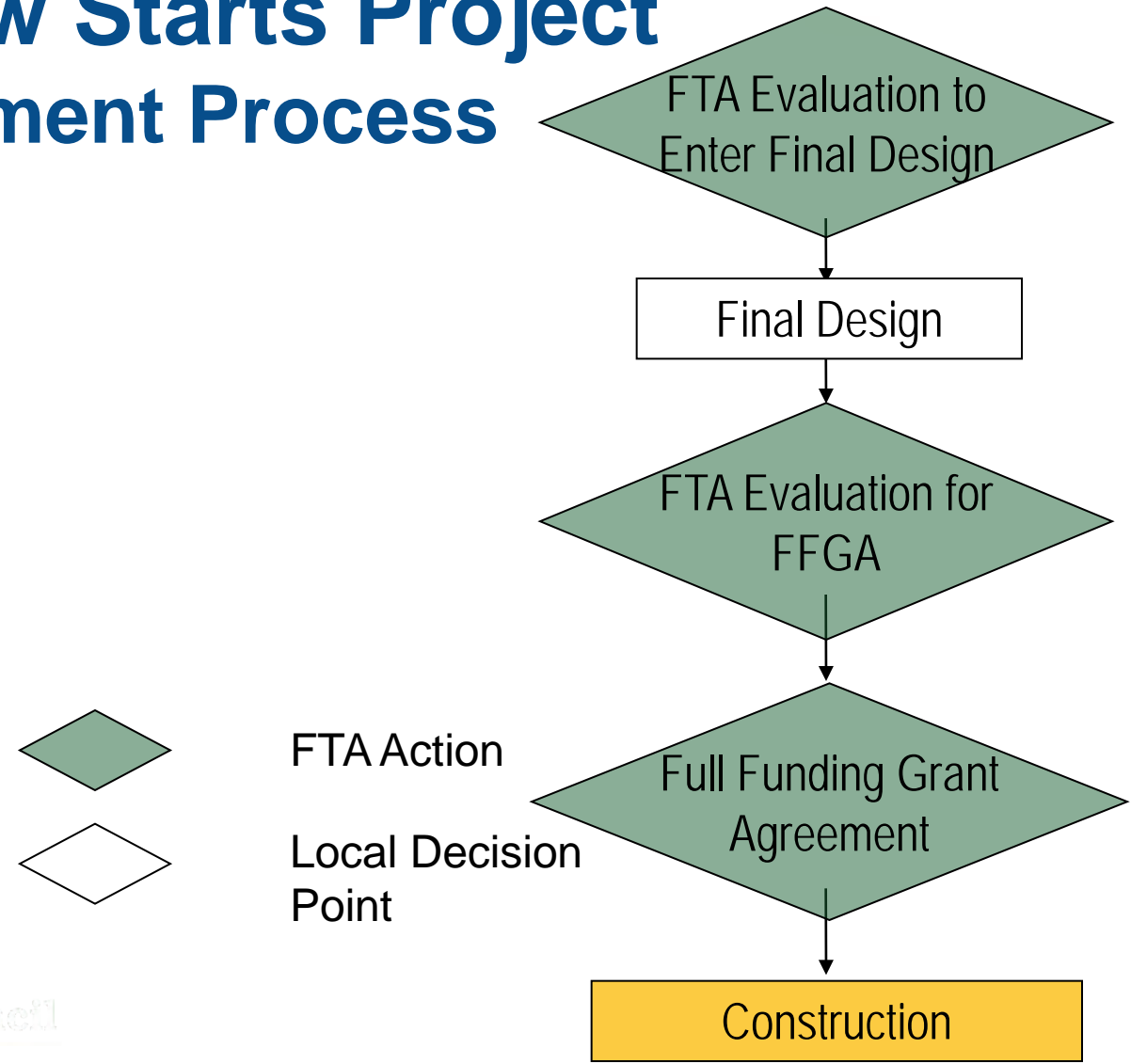


# FTA New Starts Project Development Process





# FTA New Starts Project Development Process





# What is Preliminary Engineering?

- Develop design and engineering to 30% level
- Make decisions about the scope of the project
- Refine sources and uses of funds
- Meet federal rating guidelines
  - Project justification rating
  - Financial rating



# What is Municipal Consent?

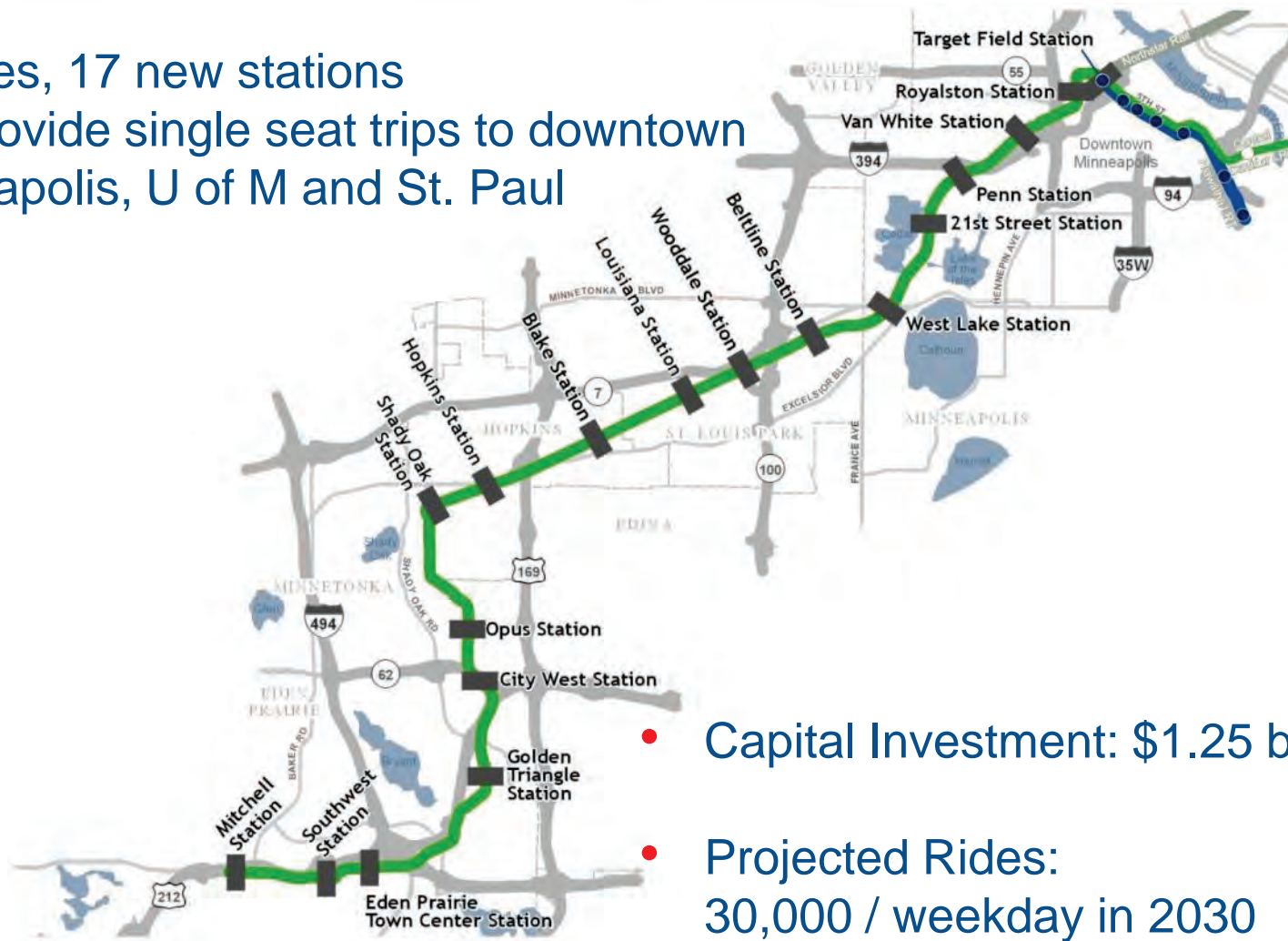
- Minnesota Statute 473.3994
- Local jurisdictional review and approval of physical design component of preliminary design plans





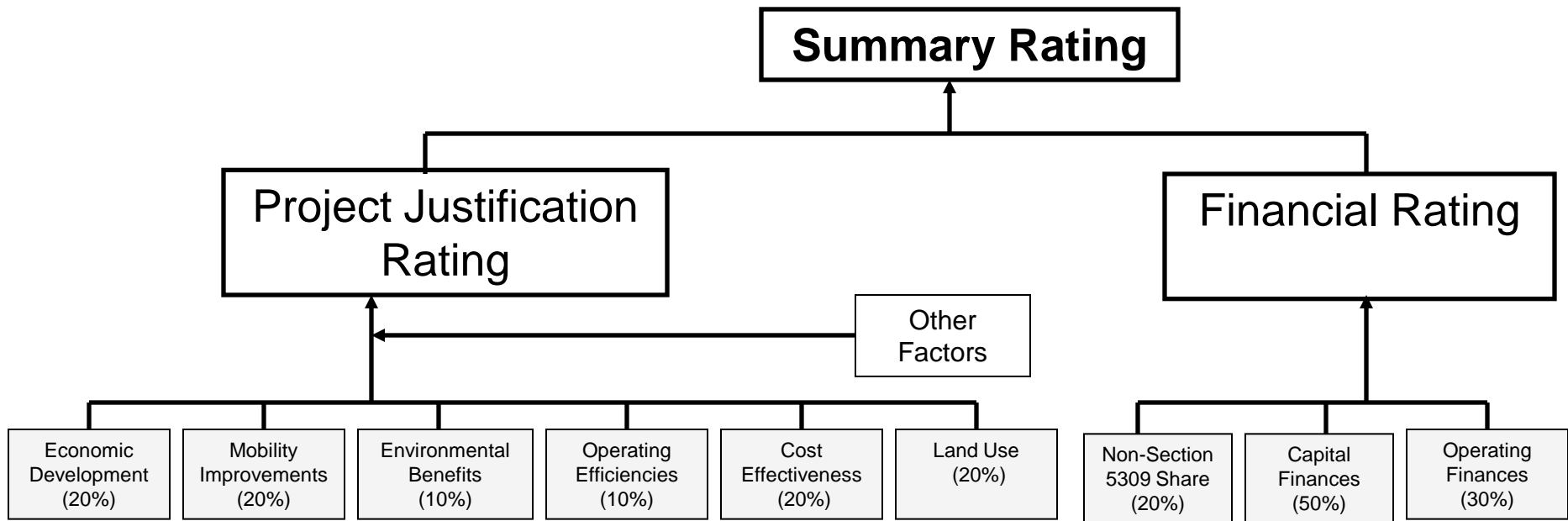
# Route

- 15 miles, 17 new stations
- Will provide single seat trips to downtown Minneapolis, U of M and St. Paul



- Capital Investment: \$1.25 billion
- Projected Rides: 30,000 / weekday in 2030

# New Starts Statutory Evaluation and Rating Framework





# FTA Cost Effectiveness Index

$$\text{CEI} = \frac{\text{Annualized capital and operating costs}}{\text{Annual travel time savings}}$$



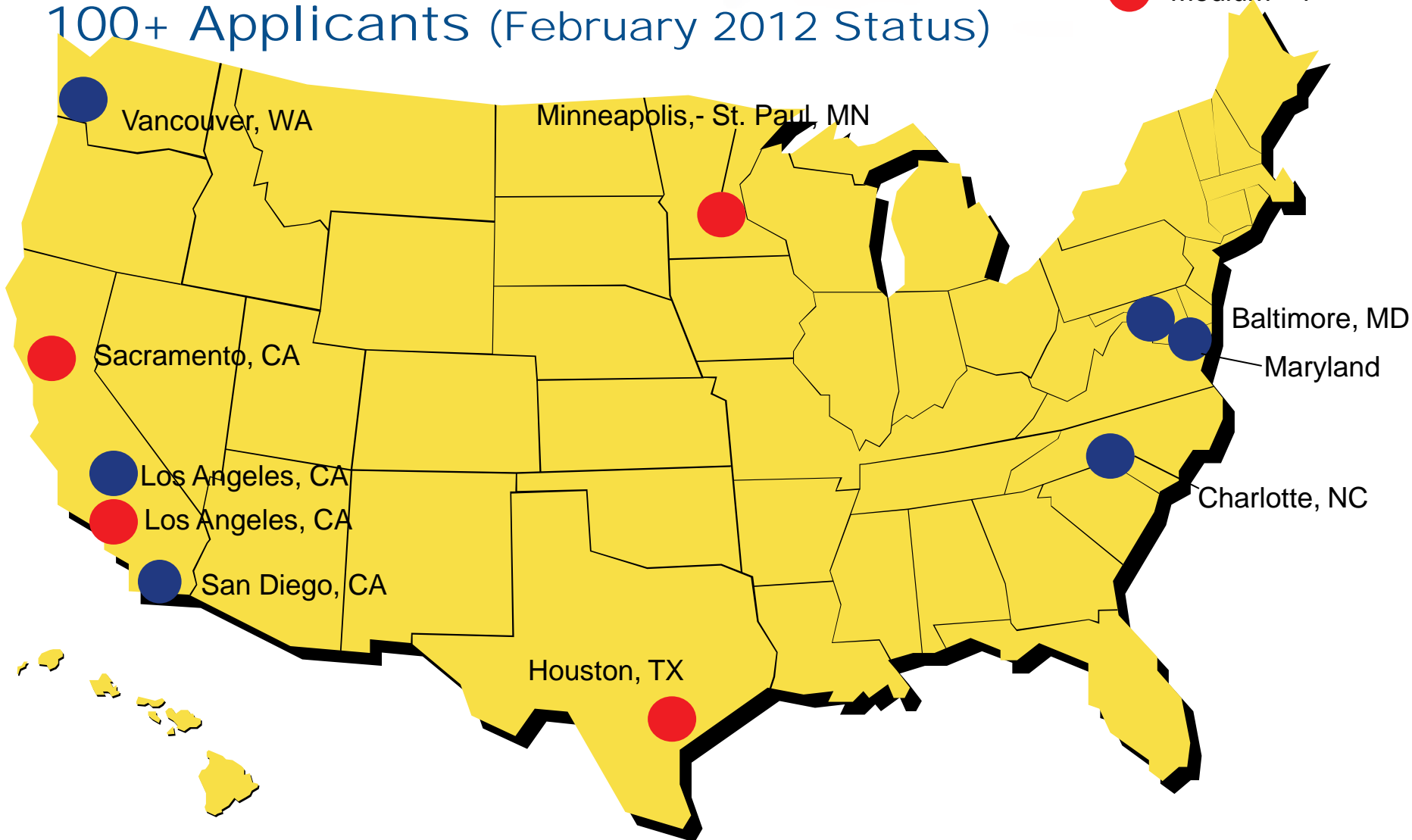
# SWLRT New Starts Project Rating

<b>Local Financial Commitment</b>	<b>Medium</b>
New Starts Share	Medium
Capital Plan	Medium
Operating Plan	Medium High
<b>Project Justification</b>	<b>Medium</b>
Environmental Benefits	Medium
Operating Effectiveness	Medium
Mobility Improvements	Medium
Cost Effectiveness	Medium-Low
Economic Development	Medium-High
Land Use	Medium
<b>Overall Project Rating</b>	<b>Medium</b>



# Peer "New Starts" PE Projects out of 100+ Applicants (February 2012 Status)

- Medium-High - 6
- Medium - 4





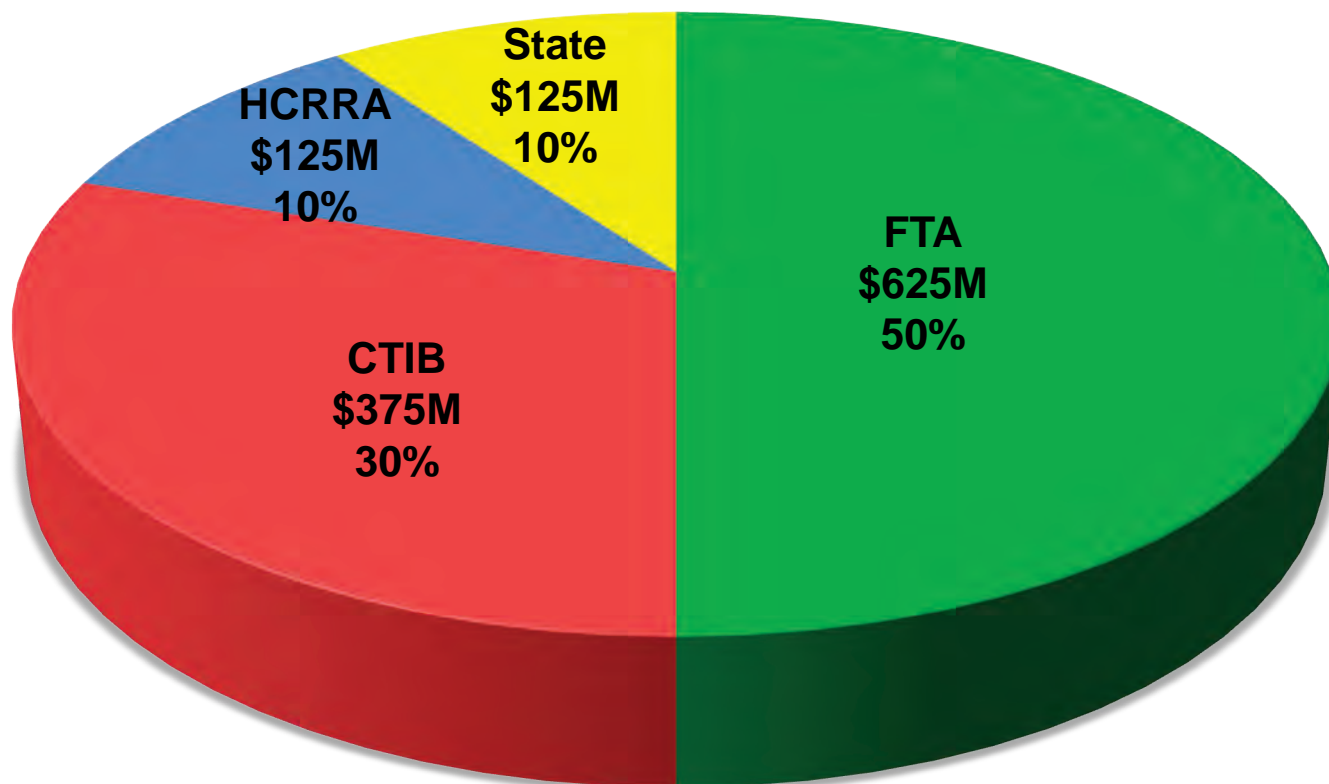
# SWLRT Project Phases

2002 – 2005	Feasibility Studies
2005 – 2010	Alternatives Analysis
2010 – 2011	Pre-Preliminary Engineering
<b>2011 – 2013</b>	<b>Preliminary Engineering</b>
2013	Record of Decision (ROD)
2013 – 2014	Final Design
2014	Full Funding Grant Agreement (FFGA)
2014 – 2017	Construction
2018	Revenue Operation



# Project Funding

- \$1.25 Billion Project budget





# What is NEPA?

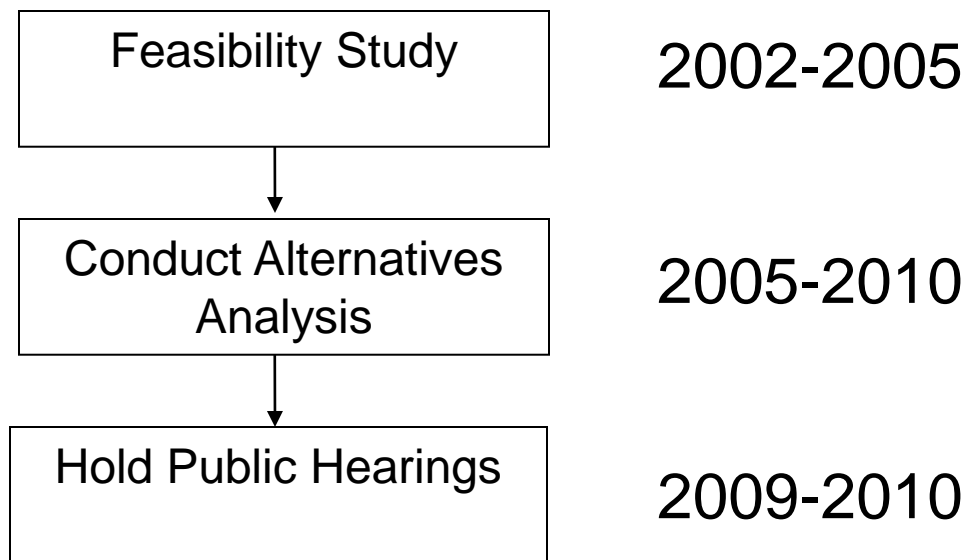
- National Environmental Policy Act
- Federal law in place to protect, maintain, and enhance environment
- Establishes process to assess environmental impacts of major Federal projects
- Helps to make informed decisions based on analysis of alternatives and impacts on natural and human environment
- Includes public input through project scoping and comment opportunities





# NEPA Process

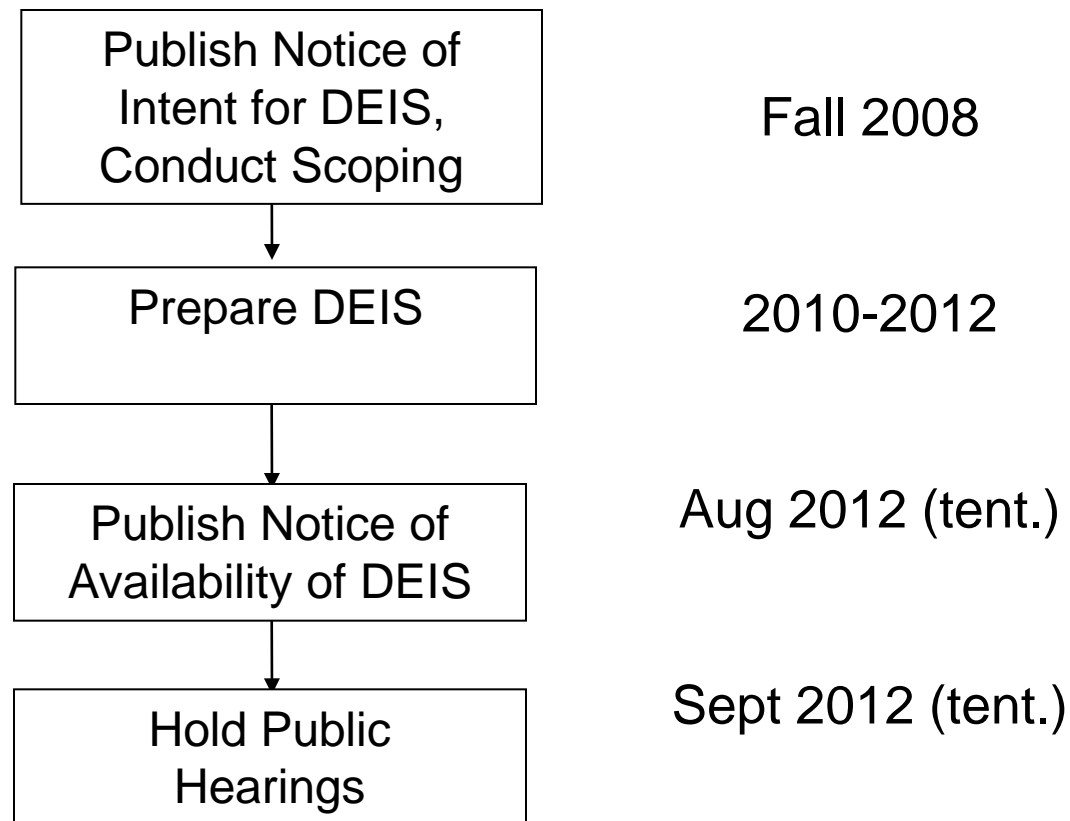
## Scoping/AA





# NEPA Process

## DEIS





# NEPA Process

## FEIS

Publish Notice of  
Intent for FEIS



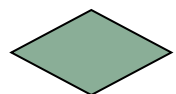
Prepare FEIS



Publish Notice of  
Availability of FEIS



Record of Decision



FTA Action



## Next Meeting

- Thursday June 14, 2012, 6:00 pm

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# More Information



Website: [www.swlrt.org](http://www.swlrt.org)

Email: [swlrt@metrotransit.org](mailto:swlrt@metrotransit.org)



# Cost Effectiveness Index Ratings

## SWLRT \$31.16

Rating	Value
High	>\$12.49
Medium High	\$12.50 - \$16.49
Medium Low	\$25.50 - \$31.49
Medium	\$16.50 – \$25.49
Medium Low	\$25.50-\$31.49
Low	>\$31.50