



The Nassau Hub Study Public Open House Presentation

January 31, 2012











Agenda

- 1) Study Update
- 2) Refined Long-List Alternatives Development
- 3) Refined Long-List Alternatives Definition
- 4) Refined Long-List Alternatives Screening
- 5) Assessment Of Mode Options
- 6) Recommendations
- 7) Next Steps





ALTERNATIVES ANALYSIS / ENVIRONMENTAL IMPACT STATEMENT

Study Update







Previous Alternatives Evaluation

- 14 Preliminary Long-List Alternatives Evaluated
 During The Fatal Flaw Screening
- Alternatives 9-14 Were Fatally Flawed
- Alternatives 1-8 Were Advanced To Refined
 Long-List Alternatives





ALTERNATIVES ANALYSIS / ENVIRONMENTAL IMPACT STATEMENT

Refined Long-List Alternatives Development





Refined Long-List Alternatives Development

- Alternatives Advanced to Long-List Were Further Defined / Developed With More Detail
- Items Considered Include:
 - Activity Center Connections
 - Land Use Compatibility
 - Stakeholder And Public Input
 - Infrastructure And Operational Characteristics
 - Ridership Potential

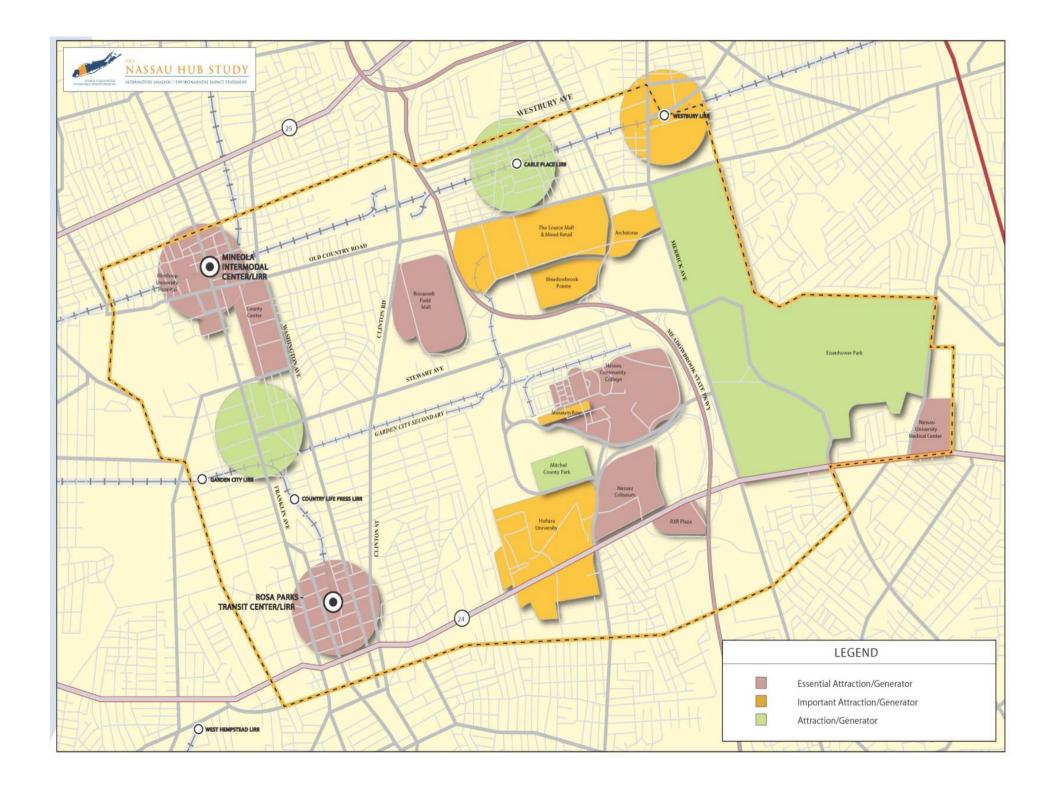




Activity Center Connections

 Previously Identified Study Area Attractors And Generators (Activity Centers)

Activity Centers Grouped By Relative Significance







Land Use Compatibility

Evaluated Existing Land Use Patterns

Identified Redevelopment Opportunities

 Determined Potential Transit-Oriented-Development (TOD) Opportunities / Constraints





ALTERNATIVES ANALYSIS / ENVIRONMENTAL IMPACT STATEMENT

Public Input

- Project Committees
- Project Website
 - www.nassauhub.com
- Public Meetings
- Origin / Destination Survey
- Stated Preference Survey
- One-on-One And Small Group Meetings







Infrastructure And Operational Characteristics

- Developed Preliminary Operating Scenarios
 - Running Within Mixed Traffic
 - Running In Exclusive Right-Of-Way
- Determined Travel Times Between Key Activity Centers
- Number Of Transfers A Key Service Factor
- Identified Track / Lane Miles





Ridership Potential

- Completed Comprehensive Origin / Destination And Stated Preference Surveys
- Developed Order-Of-Magnitude Ridership Estimates
- Ongoing Refinement Of Ridership Model For More Detailed Ridership Forecasting, Which Will Ultimately Lead To The Selection Of The Locally Preferred Alternative (LPA)





ALTERNATIVES ANALYSIS / ENVIRONMENTAL IMPACT STATEMENT

Refined Long-List Alternatives Definition





Refined Long-List of Alternatives Definition

- Alternatives Were Defined For Evaluation Against Study Goals And Objectives
- Characteristics Include:
 - Travel Times
 - Number of Daily Trips
 - Trips Per Track/Lane Mile
 - Trips Per Annual Vehicle Mile
 - Transit Connections / Activity Centers Served





ALTERNATIVES ANALYSIS / ENVIRONMENTAL IMPACT STATEMENT

Refined Long-List Alternatives Screening





Methodology

- Created A Series Of Matrices Based On Defined Alternatives
- Ranked Alternatives Based On:
 - Relative Strength Of Ridership
 - Track / Lane Mileage
 - Annual Vehicle Mileage
 - Travel Times
 - Number Of Transfers
 - Transit Connections And Activity Centers Served





Screening Results

Alternatives Identified For Advancement

- Alternative 2
- Alternative 3

Alternatives Identified For Elimination

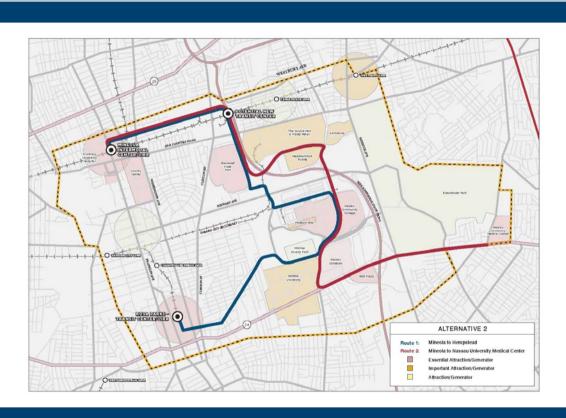
- Alternative 1
- Alternative 4
- Alternative 5

- Alternative 6
- Alternative 7
- Alternative 8





ALTERNATIVES ANALYSIS / ENVIRONMENTAL IMPACT STATEMENT



Alternative 2

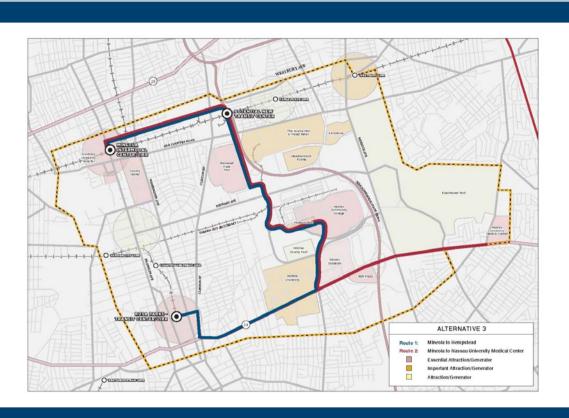
Transit Connections	Mineola Intermodal Center Potential New Transit Center Hempstead Intermodal Center
Activity Centers Served	Downtown Mineola Downtown Hempstead Roosevelt Field Mall Nassau Community College Nassau Coliseum Hofstra University RXR Plaza Nassau University Medical Center Source Mall Museum Row Mitchel Field Eisenhower Park

	Hempstead to Roosevelt Field Mall		Mineola to Coliseum		Potential Daily Trips 2035	Trips per Track/Lane Mile	Trips per Annual Vehicle Mile
	Travel Time	Transfers	Travel Time	Transfers			
Mixed Flow	14:04	0	14:43	0	6,200	283	1.89
Exclusive ROW	10:30	0	10:47	0	8,100	370	2.47





ALTERNATIVES ANALYSIS / ENVIRONMENTAL IMPACT STATEMENT



Alternative 3

Transit Connections	Mineola Intermodal Center Potential New Transit Center Hempstead Intermodal Center
Activity Centers Served	Downtown Mineola Downtown Hempstead Roosevelt Field Mall Nassau Community College Nassau Coliseum Hofstra University RXR Plaza Nassau University Medical Center Museum Row Eisenhower Park

	Hempstead to Roosevelt Field Mall		Mineola to Coliseum		Potential Daily Trips 2035	Trips per Track/Lane Mile	Trips per Annual Vehicle Mile
	Travel Time	Transfers	Travel Time	Transfers			
Mixed Flow	14:13	0	14:44	0	6,100	349	2.33
Exclusive ROW	10:19	0	10:18	0	8,000	458	3.05





ALTERNATIVES ANALYSIS / ENVIRONMENTAL IMPACT STATEMENT

Assessment of Mode Options





Modal Transit Technologies

- Street Transit
 - Jitney
 - Circulator Bus
 - Conventional Bus
 - Trolley Bus
 - Commuter Bus
 - Modern Streetcar
- Semi-Separated Transit
 - Bus Rapid Transit (BRT) / Premium Bus
 - Light Rail Transit (LRT)

- Separated Transit
 - Aerial Tram
 - Cable-Drawn Systems (CDS)
 - Automated Guideway Transit (AGT)
 - Commuter Rail
 - Heavy Rail





Criteria for Transit Mode Screening

- Flexibility
- Capacity, Ridership
- Service Frequency
- Effect On Congestion
- Cost
- System Accessibility
- Compatibility
- Proven Technology
- Land Use Compatibility
- Environmental Impact





Recommended Modes For Further Evaluation

BRT / Premium Bus



Modern Streetcar







ALTERNATIVES ANALYSIS / ENVIRONMENTAL IMPACT STATEMENT

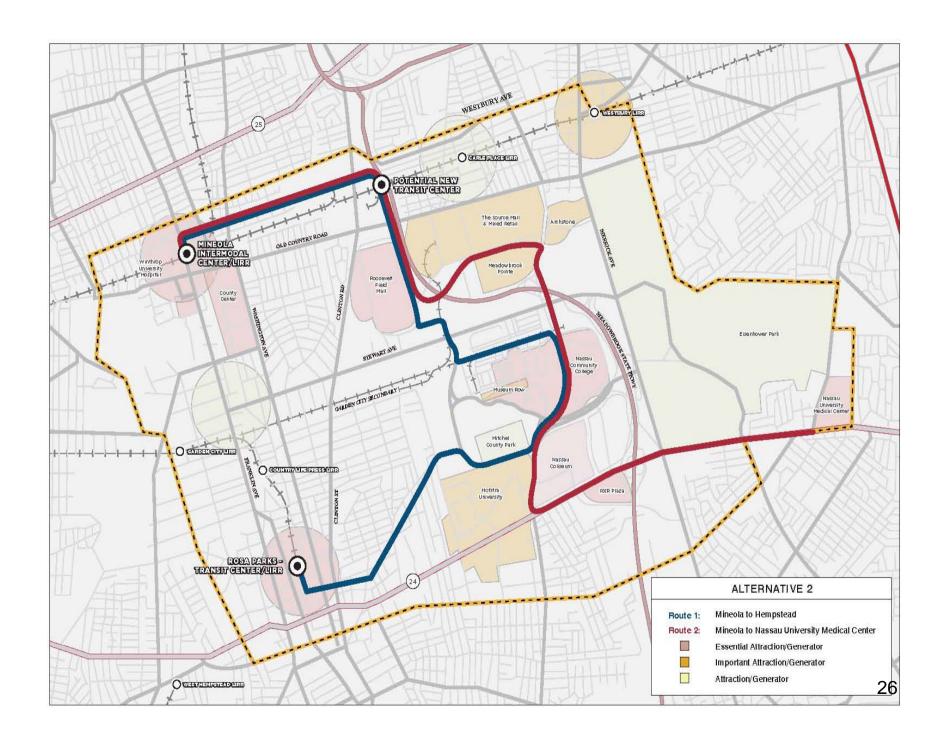
Recommendations and Next Steps

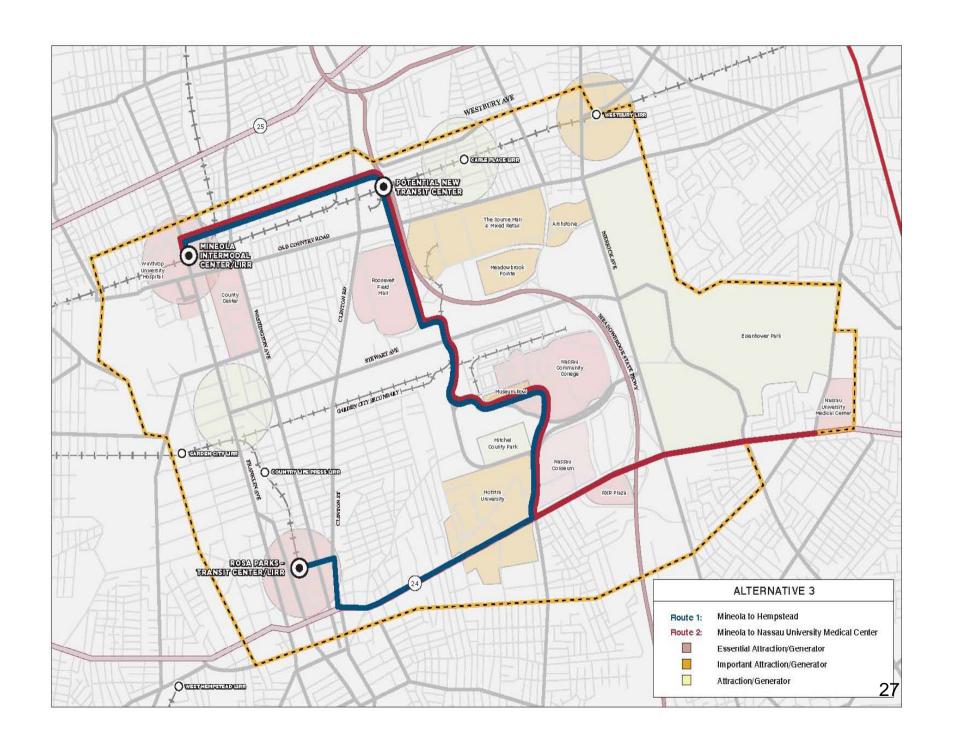




Recommended Alternatives to be Advanced

Alternatives 2 and 3 Each As BRT / Premium Bus And / Or Modern Streetcar









Next Steps

- Detailed Definition And Evaluation Of Alternatives
 - Refined Operating Plans
 - Cost
 - Ridership Forecasts
 - Environmental Considerations
 - Financial Considerations
 - Stakeholder And Public Input
- Selection of LPA





ALTERNATIVES ANALYSIS / ENVIRONMENTAL IMPACT STATEMENT

Q&A





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