

WELCOME





Today's Agenda

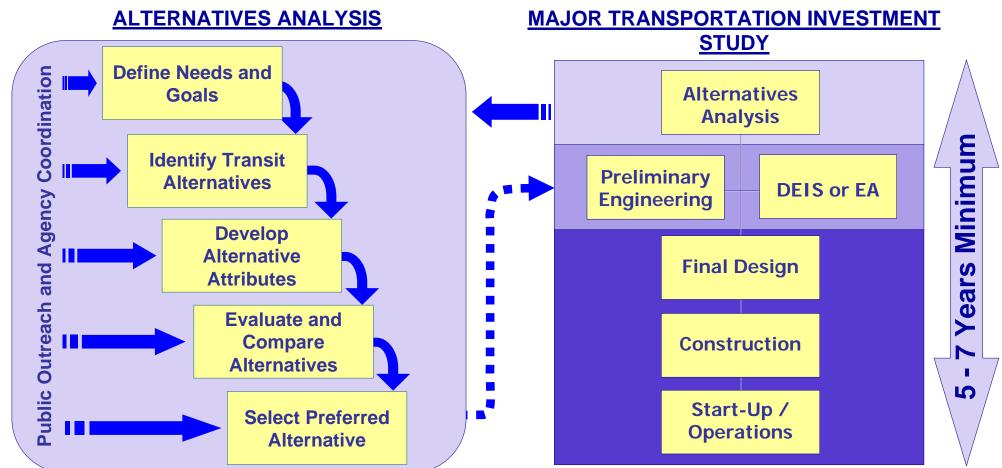
- **•**Work Completed to Date
- What was Considered
- What are the Findings
- What is Recommended
- Transit Investment Vision for Southern New Jersey



Southern New Jersey to Philadelphia Mass Transit Expansion Alternatives Analysis

Project Development Process









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Deptford - November 27, 2007

Vineland - November 28, 2007 Glassboro - November 29, 2007

Gloucester City - December 4, 2007

Monroe - December 6, 2007

Public Open Houses

Camden - June 10, 2009 Woodbury - June 11, 2009 Blackwood - June 17, 2009 Glassboro - June 18, 2009

Elected Official Briefings

Federal Representatives including US Senators Menendez and Lautenberg & US Representative Andrews South Jersey Legislative Delegation Members South Jersey Freeholder Delegation Members, including Camden.

Gloucester and Cumberland Counties **Numerous Mayors and Council Members Philadelphia City Council Members**

Targeted Outreach & Agency Coordination

Technical Advisory Committee Federal Transit Administration Delaware Valley Regional

Planning Commission

Philadelphia City Planning Commission

SEPTA

Women's Transportation Seminar Southern NJ Development Council **Gloucester City Business**

Association

NJ Alliance for Action

NJ DEP Clean Air Council

NJ Plan Smart

NJ Targeted Business Briefing (Camden, Gloucester,

Cumberland)

SJTA Project Briefing

Transportation Summit Rowan University

Greater Philadelphia Chamber of Commerce

Camden County College

Cooper Hospital

East of Broad Improvement

Association

PennPraxis

Bellmawr Water Redevelopment

Philadelphia Chapter Urban Land Institute Executive

Committee

Chamber of Commerce of Southern New Jersey

Philadelphia City Council

Delaware Valley Association of

Rail Passengers **New Jersey Transaction**

APTA

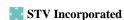
Construction Management Association of America





OVER 100 OUTREACH MEETINGS

OVER 550 PUBLIC COMMENTS



Project Goals

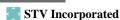
- ➤ Improve Transit Choices in the Southern New Jersey Study Area
- ➤ Reduce Congestion with Effective Transit Investments
- ➤ Maximize Existing Transportation Assets
- ➤ Develop Transit Network that Improves Links Between People and Activity Centers
- ➤ Support State and Local Planned Growth Initiatives through Competitive and Reliable Transit Service











Transit Mode Characteristics



Diesel Light Rail Transit (DLRT)

- > Can operate in railroad right-of-way as well as on streets, or in medians
- > Self-powered low-floor vehicle using clean-diesel technology
- > Speeds up to 70 mph (30 mph average speed including station stops)

PATCO (Heavy Rail)

- > Fully grade separated exclusive guideway
- > Electrically powered via third rail
- > Speed up to 70 mph (35 mph average speed including station

- stops)

Bus Rapid Transit (BRT)

- Operates in exclusive, dedicated roadway lanes to by-pass congestion
- Modern low-floor buses with multiple doors
- Limited stop express bus service

Commuter Rail

- Operates in exclusive railroad right-of-way
- Conventional railroad equipment with locomotive hauled coaches
- Designed to move people for longer distances with few stops

- Medium capacity (up to 300 passengers per 2-car train)
- Allows close station spacing every 1-2 miles
- Simple stations, can be integrated into surrounding streetscape
- Level boarding via low-level platform
- Frequent operation (every 7-15 minutes)
- High capacity Up to 800 passengers per train
- Station spacing every 1-5 miles
- Elaborate, multi-level stations with controlled access
- Level boarding via high-level platforms

Frequent operation (every 7-15 minutes)

- Capacity of up to 100 passengers per bus
- Station spacing every 3-5 miles
- Easy boarding / alighting via multiple low-level entryways
- Speeds up to 80 mph
- Service frequency every 30-60 minutes
- High capacity up to 800 passengers per train
- Station spacing every 5-10 miles
 - High-level platforms











Rail Alternatives



Alternative 1:

PATCO from Philadelphia to Williamstown via Route 42 and **Atlantic City Expressway**

Alternative 2:

PATCO from Philadelphia to Glassboro via Route 55

Light Rail

Alternative 2A:

PATCO from Philadelphia to Glassboro via Route 55 and the Conrail Right-of-Way

Alternative 3:

PATCO from Philadelphia to Glassboro via the Conrail Right-of-Way

Alternative 4:

Light Rail Transit from Camden to Glassboro via the Conrail Right-

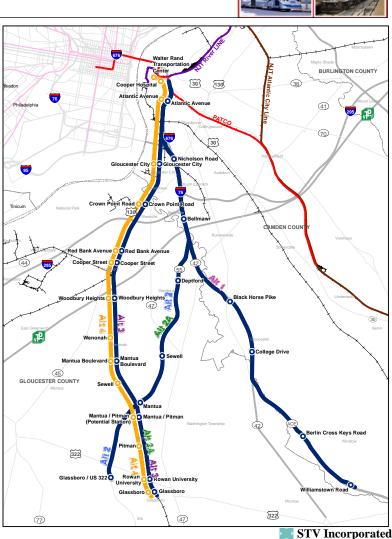
of-Way











Results of Alternatives



Alternative Mode Service From Service To Via	Alt 1 PATCO Philadelphia Williamstown NJ42 & ACE	Alt 2 PATCO Philadelphia Glassboro NJ-42, NJ-55	Alt 2A PATCO Philadelphia Glassboro NJ55 & Conrail	Alt 3 PATCO Philadelphia Glassboro Conrail	Alt 4 DLRT Camden Glassboro Conrail
Project Route Length					
New	18.7 mi	17.0 mi	17.3 mi	17.1 mi	17.4 mi
Total	22.5 mi	20.8 mi	21.0 mi	20.8 mi	17.4 mi
Project Stations					
Existing NJ	2	2	2	2	1
Existing PA	4	4	4	4	0
New	7	7	8	10	13
Total	13	13	14	16	14
2030 Daily Ridership	23,800	23,000	22,700	23,700	18,600
New Transit Trips	7,000	8,100	7,700	10,200	10,900
From PATCO	9,900	6,900	6,900	4,700	700
From NJ Bus	6,900	8,000	8,100	8,800	7,000
Capital Cost Estimate					
Present Value	\$ 2.4 B	\$ 2.1 B	\$ 2.5 B	\$ 3.0 B	\$ 1.3 B
Year of Expenditure	\$ 3.0 B	\$ 2.6 B	\$ 3.1 B	\$ 3.8 B	\$ 1.6 B
Operating Cost Estimate					
Incremental Annual O&M	\$ 44 M	\$ 41 M	\$ 43 M	\$ 44 M	\$ 29 M
Travel Time	From	From	From	From	From
To Walter Rand TC	Williamstown	Glassboro	Glassboro	Glassboro	Glassboro
Total Run Time	29 min	27 min	29 min	30 min	37 min



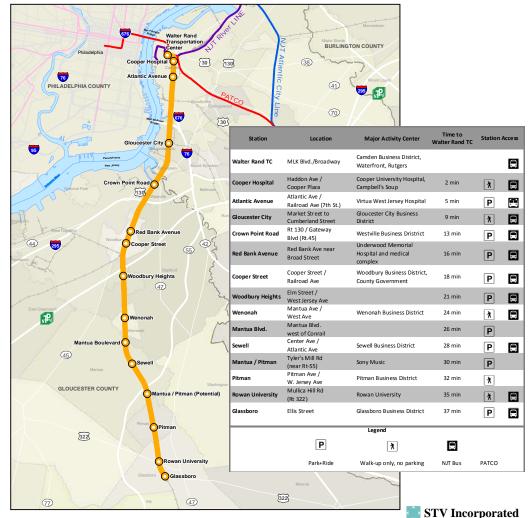


Recommended Alternative



Alternative 4 – Light Rail between Camden and Glassboro

- •Lowest Capital Cost (\$1.3B)
- Lowest Operating Cost (\$29M)
- •Highest New Transit Trip Potential (10,900 daily)
- •Maximizes Use of Existing Conrail Infrastructure
- •Links Communities, Universities, Activity Centers and Cities
- •Supports Intra-NJ Trips
- •Encourages Economic Redevelopment and TOD within Surrounding Communities
- •Creates Footprint Consistent with Surrounding Area
- •Supported by Local and State Elected Officials and Office of Smart Growth
- •Received the Most Public Comment Support





Transit and Economic Development



Transit-Oriented Development (TOD) can:

- Promote attractive, safe, walkable mixed-use neighborhoods
- Increase value and income for property owners
- Expand markets and increase revenues for businesses
- Enhance tax revenues for local governments from rising land values



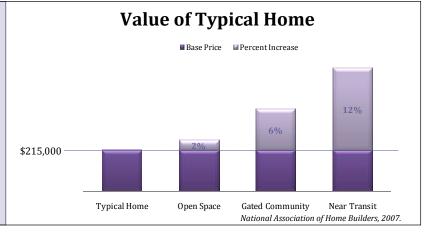
The Hudson-Bergen Light Rail System has had a positive effect on communities along its corridor:

 Pedestrian-friendly, mixed-use developments with convenient access to public transportation replaced underutilized land

 Broad-based development – housing, office, hotels, retail and recreational facilities

Property values and ratables have grown exponentially

Proximity to amenities can positively affect a home's value, as shown in this example of a typical home when different locational characteristics are introduced.







Rail Transit Network Regional Disparity

Southeastern Pennsylvania

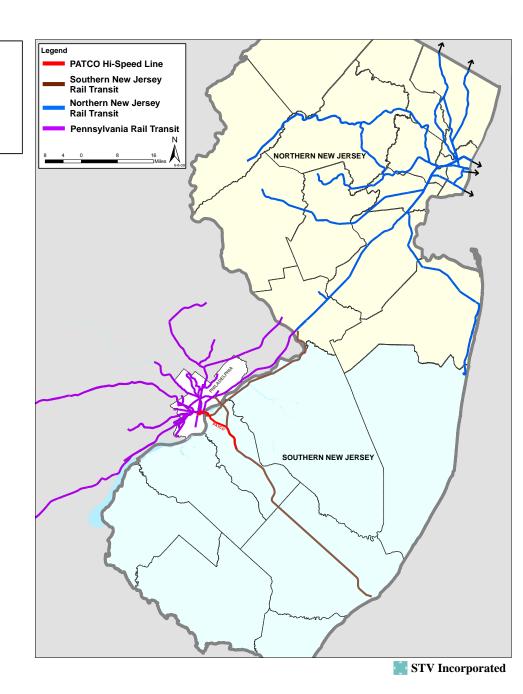
Comprehensive Network Encompassing Over **300** Miles of Rail

Northern New Jersey

Comprehensive Network Encompassing Over **600** Miles of Rail

Southern New Jersey

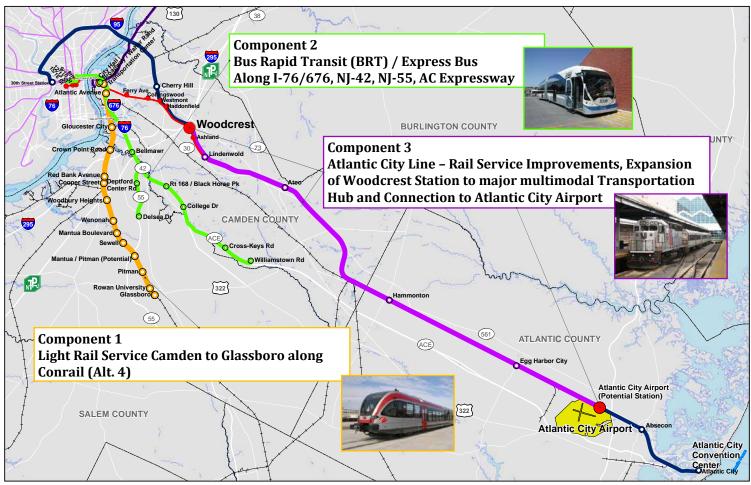
Limited Network of Less Than **100** Miles of Rail





Transit Investment Vision for Southern New Jersey







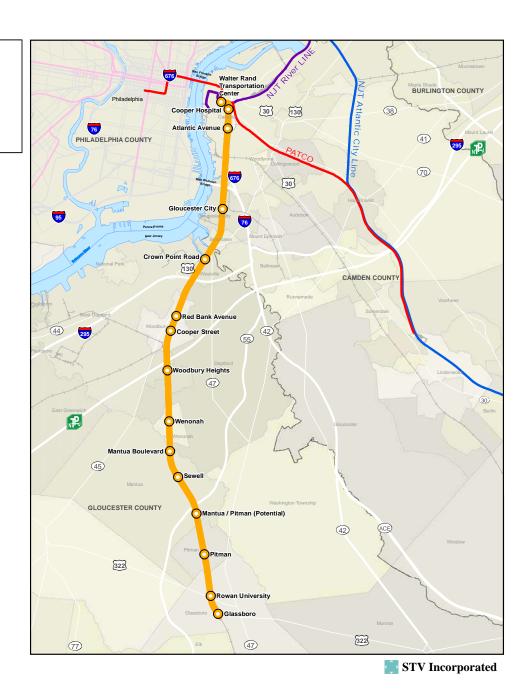
Southern NJ Transit Investment Vision Light Rail

Component 1 - DLRT between Camden and Glassboro

- •Travels through existing municipalities originally built around passenger rail service
- •Supports intra-NJ trips
- •Encourages economic redevelopment within surrounding communities
- •Links communities, universities, activity centers and cities
- •Creates footprint consistent with surrounding area

Planning / Engineering	3 – 4 Years
Construction	2 – 4 Years
Start of Operations	5 – 8 Years





Southern NJ Transit Investment Vision

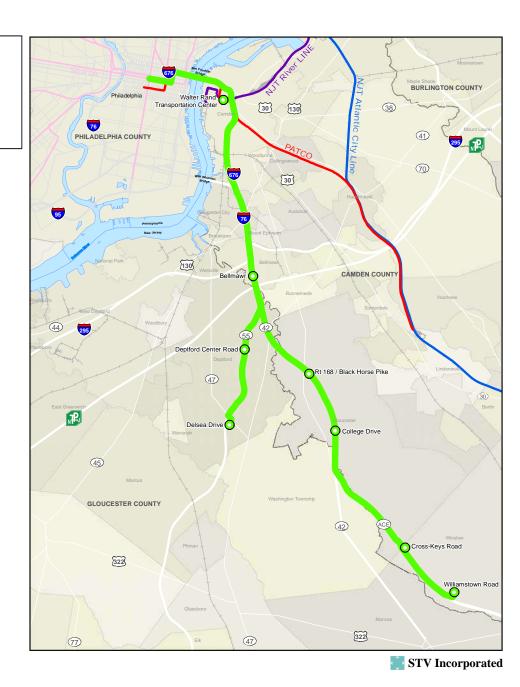
Bus Rapid Transit

Component 2 – BRT between Philadelphia / Camden and Williamstown / Deptford

- •Provides frequent limited stop express bus service
- •Helps relieve traffic congestion along the Route 42 and Route 55 Corridors
- •Operates in dedicated bus lanes to avoid congestion delays
- Provides competitive alternative to driving
- •Increases mobility within surrounding areas
- •Encourages potential for TOD around station areas

Planning / Engineering	2 – 4 Years	
Construction	2 – 3 Years	
Start of Operations	4 – 7 Years	





Southern NJ Transit Investment Vision

Atlantic City Rail Line

Component 3 – AC Line Improvements from Woodcrest Station to AC Airport

- •Increases service frequency and capacity through double tracking of line
- •Establishes Woodcrest Station as a multi-modal transit hub with direct access from I-295
- Provides connection to AC Airport
- •Encourages potential for TOD around station areas

Planning / Engineering	2 – 4 Years*	
Construction	2 – 4 Years*	
Start of Operations	4 – 8 Years*	

^{*} Dependent on components: addition of stations could be implemented more quickly, while major track and infrastructure improvements will take longer





Alternative Results with BRT



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DLR Camden Glassboro Conrail	Alt 4 + BRT Combo BRT Philadelphia Williamstown NJ42 & ACE		
17.4 mi 17.4 mi	26.5 mi 26.5 mi		
1 0 13 14	1 0 7 8		
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13,000			
5,200			
5,800			
\$ 1.3 B \$ 1.6 B	\$ 0.2 B \$ 0.3 B		
\$ 29 M	\$ 32 M		
From			
Glassboro	Williamstown Deptford		
37 min	25 min 16 min		

