

Delmarva Freight Advisory Working Group Meetings

New Castle County Chamber of Commerce, New Castle, DE **December 3, 2014**

> Sussex County Council Chambers, Georgetown, DE **December 4, 2014**













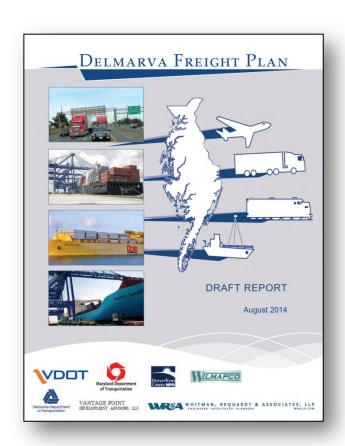
Agenda

- Plan Overview
- Project Screening & Prioritization Methods
- Freight Corridor Summaries and Project/Study Candidates
- Statewide Summary and Broader Insights
- Your Feedback!

Plan Overview

What is the Delmarva Freight Plan?

- Multi-state, multi-MPO, multimodal evaluation of Delmarva's freight system
- Aims at compliance w/ MAP-21 and National Freight Policy goals & objectives
- Evaluates freight flows and integrates commodity flow modeling
- Reviews freight focus areas while integrating performance-based scenario planning
- Identifies key projects; complies with criteria for accessing potential federal funding options



Plan Overview

CHAPTER 1: Introduction

- Multi-Jurisdictional Plan Perspectives
- MAP-21 and National Freight Policy Goals
- Delmarva-Specific Goals

Five key focus areas...

Economic Vitality

Freight Connectivity, Mobility and Accessibility Safety and Security

System Mgmt, Operations and Maintenance
Sustainability and Environmental Stewardship

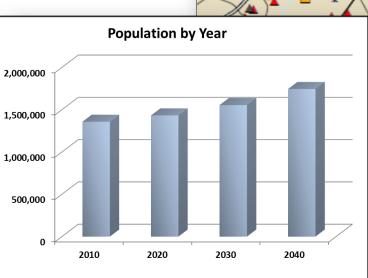
14-county study area



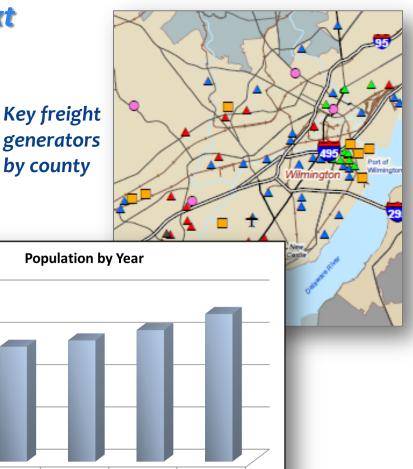
Plan Overview

CHAPTER 2: Existing Economic Context

- Population and Employment
- **Key Industries and Supply Chains**
- **Economic Development Strategies**
- Global Economic Perspectives



29% population increase

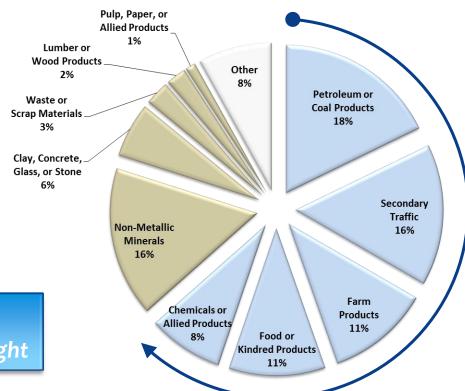


Plan Overview

CHAPTER 3: Existing Commodity Flows

- Delmarva Freight Details
 - ✓ Type, Tonnage, Value, Mode
 - ✓ Trading Partners
- Commodity Flow Perspectives
- Supply Chain Perspectives

Over 60% of total freight in five core groups



70 M tons (\$75 Billion) Delmarva freight
157 M tons (\$327 Billion) w/ pass-thru freight

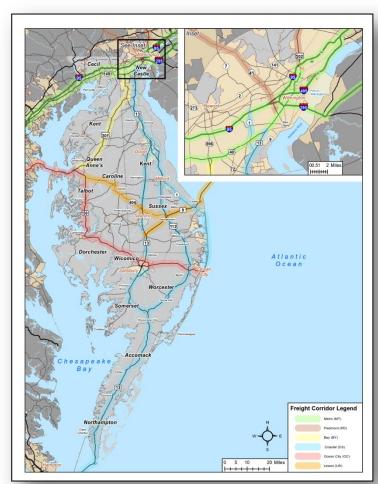
Plan Overview

CHAPTER 4: Existing Transportation System

- Modal Assets
- Logistics Nodes and Support Facilities
- System/Network Summary
 - ✓ Freight Corridors, Zones, and Gateways

Key Freight Corridors:

- Metro (1-95)
- Bay (US 301)
- Coastal (US 13/113, DE 1)
- Ocean City (US 50)
- Piedmont (US 202, DE 41)
- Lewes (MD/DE 404, US 9)



Plan Overview

CHAPTER 5: Existing Freight Planning Resources

- Freight Institutions
- Coordination Activities
- Project Funding and Revenue Sources
- Capital Plans and Programs







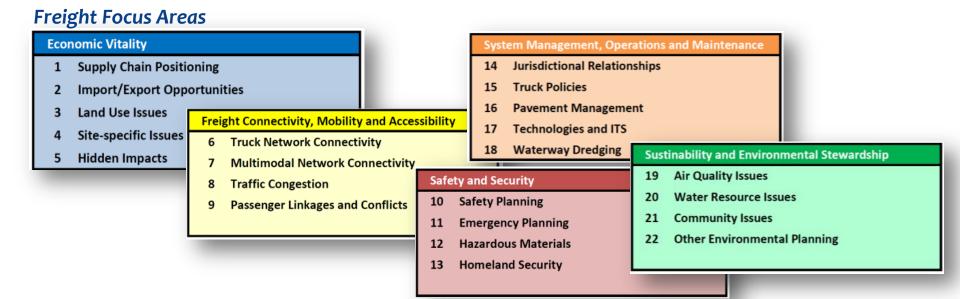
Future project commitment assumptions



Plan Overview

CHAPTER 6: Freight Trends, Needs, and Issues

- Summary of Delmarva's freight issues today
- Transition point toward planning for or reacting to an unknown future
- Foundation for project & policy selection



Cube Cargo Modeling

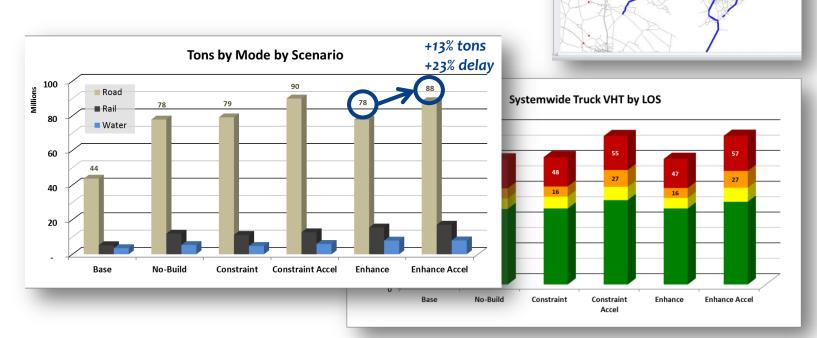
Delmarva Freight Plan

Plan Overview

CHAPTER 7: Future Freight Planning Scenarios

- Future Baseline
- Multimodal Constraint or Enhancement
- Trendline or Accelerated Growth

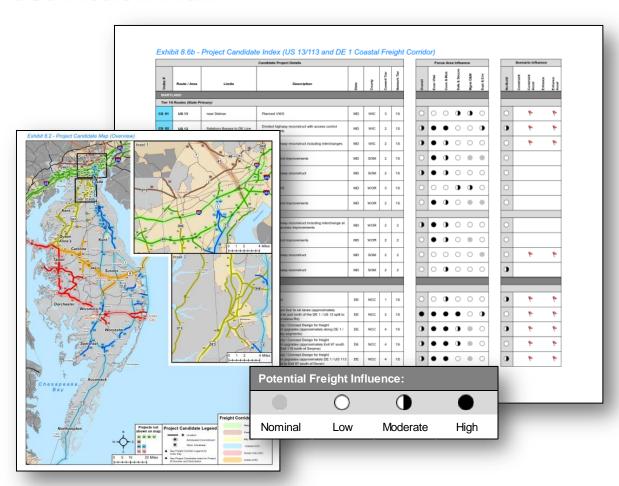
Scenario Analyses



Plan Overview

CHAPTER 8: Recommended Action Plan

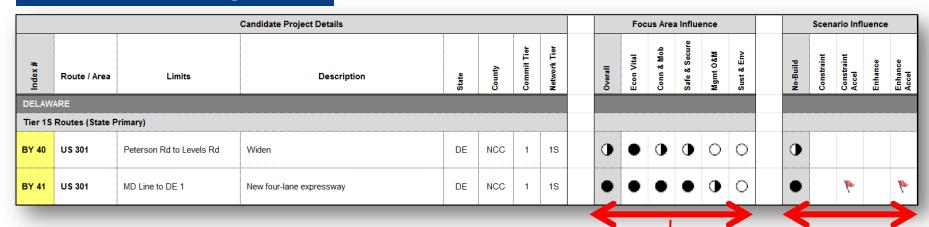
- Project Screening
- Project Prioritization
- Policy Implications



Freight Corridor Summaries and Project/Study Candidates

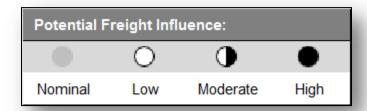
Project Screening

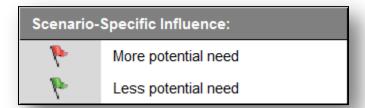
Qualitative filtering...



Summary Focus Area Influence

Summary Scenario Influence





Project Prioritization

Quantitative scoring...

Candidate Project Details								Ratings		
lndex #	Route / Area	Limits	Description		County	Commit Tier	Network Tier	Project Scoring	Rank	Relative Priority
BY 40	US 301	Peterson Rd to Levels Rd	Widen	DE	NCC	1	18	37	31	•
BY 41	US 301	MD Line to DE 1	New four-lane expressway	DE	NCC	1	15	52	10	•

Summary Project Scoring

Summary Relative Priority

Potential Freight Influence:									
0	0	•	•						
Nominal	Low	Moderate	High						
<15	15-30	30-45	45-100						

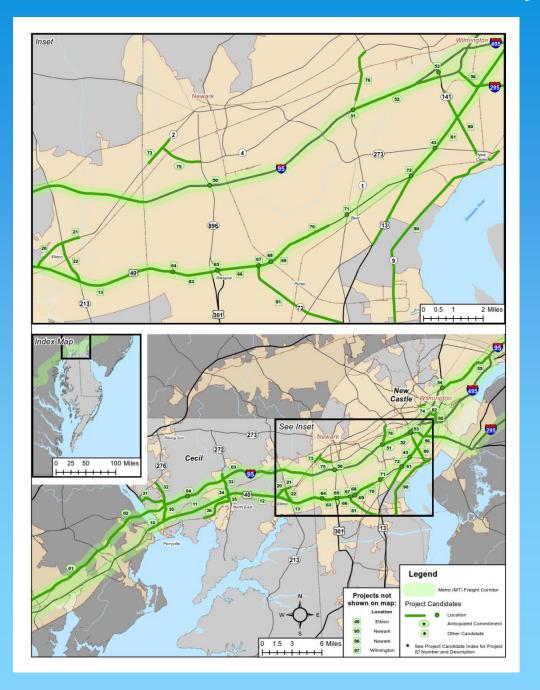
Eco	Economic Vitality		Connectivity Mobility		Safety & Security		Mgmt O&M			Sustatinability & Env				
	15			25			30			20			10	
Focus Area	Scenario Inf	Freight Gen	Focus Area	LOS (Base)	LOS (No-Bld)	Focus Area	Fatal Crash	1	Focus Area	ADTT	1	Focus Area	SHFS	
20%	20%	60%	20%	50%	30%	20%	80%	0%	20%	80%	0%	20%	80%	0%
3.0	3.0	9.0	5.0	12.5	7.5	6.0	24.0	0.0	4.0	16.0	0.0	2.0	8.0	0.0



I-95 Metro Freight Corridor

Including:

- I-295
- I-495
- US 40





Metro Freight Corridor

Focal Routes

- ✓ I-95, I-295, I-495: capacity, interchanges, interconnectivity
- ✓ US 40, US 13: operations, interconnectivity

Focal Connections

- ✓ Freight Corridors: Piedmont, Bay, and Coastal
- ✓ Freight Hubs: Cecil County and New Castle County
- ✓ Regional: Surrounding metro areas and US East Coast

Multimodal Visions

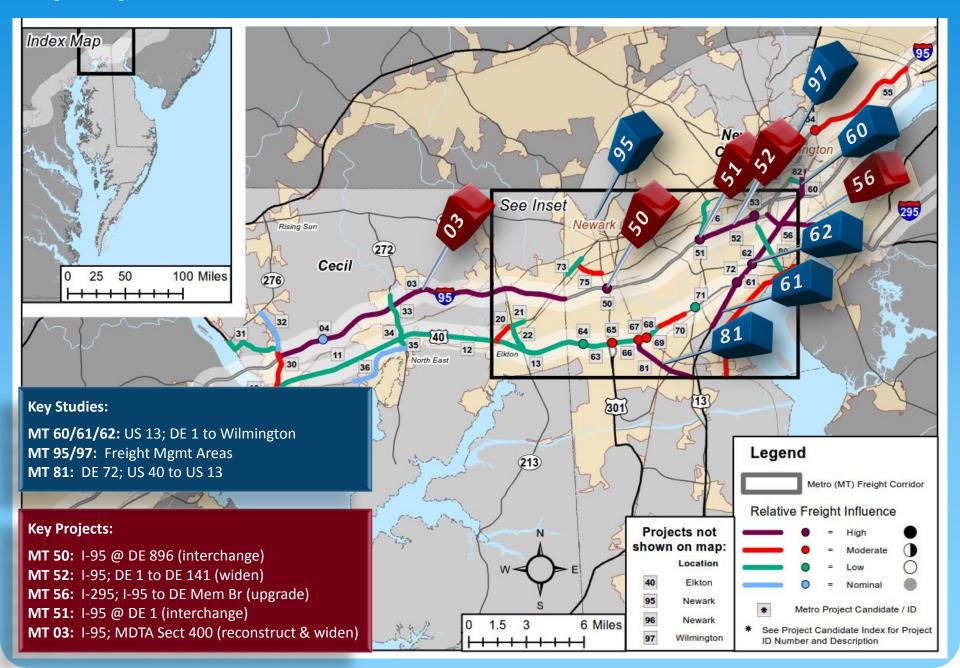
✓ Rail: NS and CSX operations, Chesapeake Connector, Edgemoor Yard, US 40 Overpass

✓ Water: Port of Wilmington, Post-Panamax, M-95

✓ Air: Wilmington-Philadelphia Regional

✓ Pipeline: Project Mariner East

Key Projects & Studies

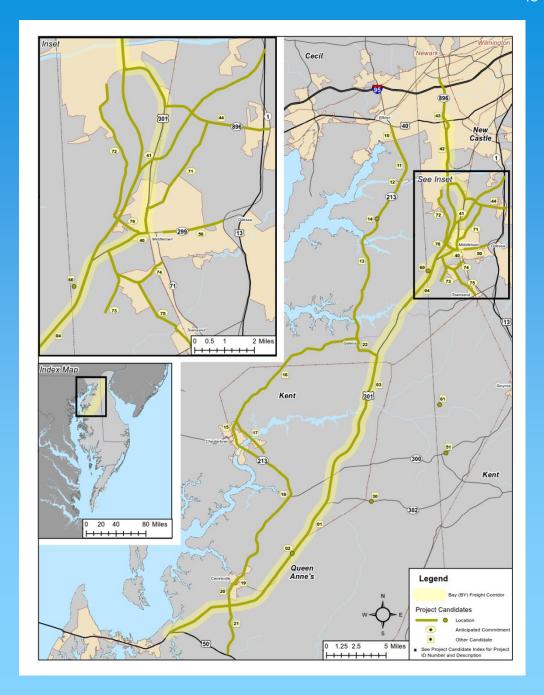




US 301 Bay Freight Corridor

Including:

- MD 213
- DE 896



301

Bay Freight Corridor

Focal Routes

- ✓ US 301: access control, interchanges, new expressway
- ✓ MD 213, DE 896: capacity, upgrades, operations, bridge widening

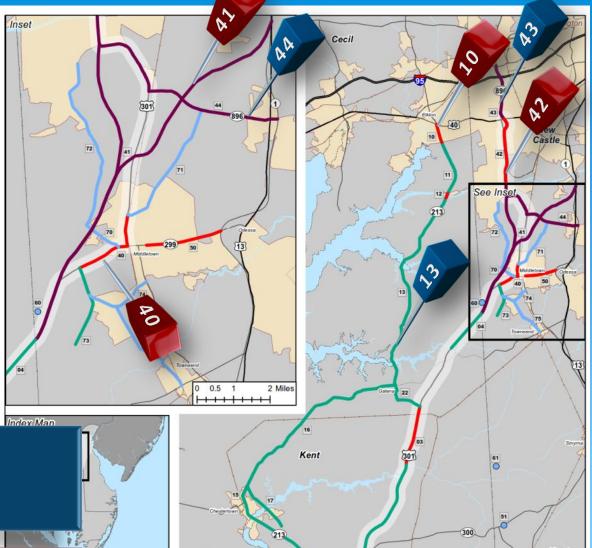
Focal Connections

- ✓ Freight Corridors: Metro, Coastal
- ✓ Freight Hubs: Dover, Smyrna, Centreville, Chestertown
- ✓ Regional: US 50 / US 301 Bay Bridge area

Multimodal Visions

- ✓ Rail: MDDE Chestertown and Centreville Lines (286k upgrade)
- ✓ Water: Post-Panamax, M-95
- ✓ Air: --
- ✓ Pipeline: --

Key Projects & Studies



Key Studies:

BY 44: DE 896; US 301 to DE 1

BY 43: DE 896; C&D Canal to US 40

BY 13: MD 213; Basil Ave to MD 290 / MD 313

Key Projects:

BY 42: DE 896; DE 2 to Boyds Corner Rd (signals)
BY 41: US 301; MD Line to DE 1 (expressway)

BY 40: US 301; Poterson Rd to Levels Rd (widen)

BY 40: US 301; Peterson Rd to Levels Rd (widen) **BY 02:** US 301; Bay County Rest Area (truck pkg)

BY 10: MD 213; Frenchtown Rd to Basil Ave (reconstruct)



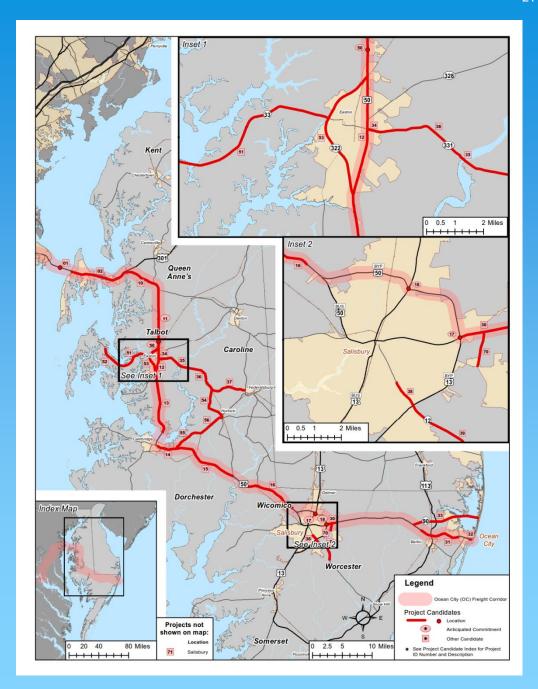
Relative Freight Influence



US 50 Ocean City Freight Corridor

Including:

- MD 90
- Salisbury Bypass



50 Ocean City Freight Corridor

Focal Routes

✓ US 50, MD 90: operations (Bay Bridge), capacity, upgrades, access control, bridges

Focal Connections

✓ Freight Corridors: Coastal

✓ Freight Hubs: Easton, Federalsburg, Hurlock, Salisbury

✓ Regional: US 50 / US 301 Bay Bridge area

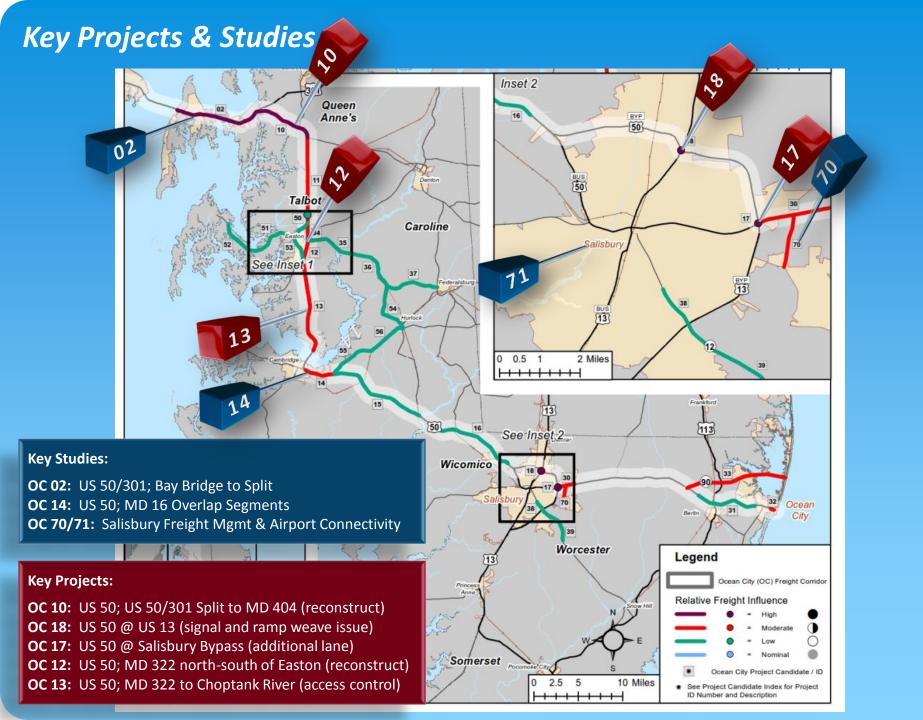
Multimodal Visions

✓ Rail: Southern Delmarva Intermodal Center

✓ Water: Salisbury/Wicomico River ports, river dredging

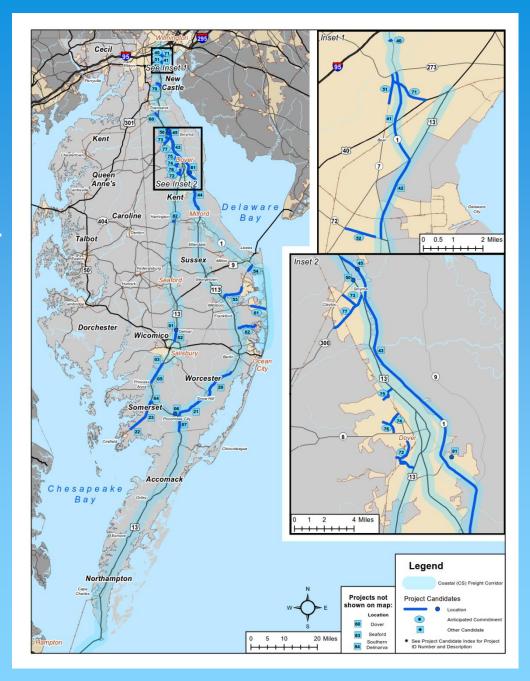
✓ Air: Easton-Newnam, Salisbury-OC-Wicomico Regional, OC Municipal

✓ Pipeline: --





US 13/113 and DE 1 Coastal Freight Corridor





[13][113][1] Coastal Freight Corridor

Focal Routes

- ✓ US 13, US 113: upgrades, interchanges, access control / Salisbury area, south of Berlin
- ✓ DE 1: widening / north of US 13 split; freight management / Del. City, Smyrna, Dover, Milford

Focal Connections

- ✓ Freight Corridors: Ocean City, Lewes, Bay, Metro
- ✓ Freight Hubs: Delaware City area, Dover, resort areas, numerous local freight hubs
- ✓ Regional: Access to Metro Corridor and Virginia's Chesapeake Bay Bridge/Tunnel

Multimodal Visions

✓ Rail: NS access, Seaford rail bridge, Southern Delmarva Intermodal Center;

MDDE Snow Hill Line (286k upgrade), BCRR upgrades, siding expansions

✓ Water: Nanticoke, Wicomico, and Pocomoke Rivers; Post-Panamax; M-95; Ferry

✓ Air: Dover ACR, Salisbury-OC-Wicomico Regional, Sussex Co., Accomack Co.

✓ Pipeline:

Key Projects & Studies



Key Studies:

CS 42: DE 1 / US 13; DE 72 to DE 71

CS 43: DE 1; Dover to Smyrna **CS 53:** DE 24; US 113 to DE 23

Key Projects:

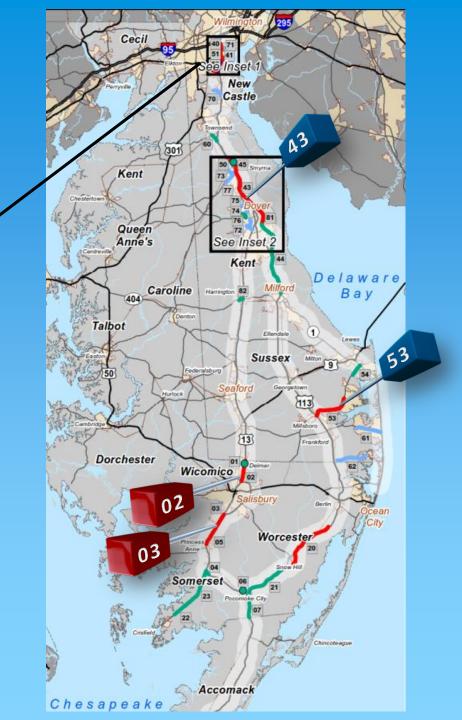
CS 41: DE 1; Tybouts Corner to DE 273 (widen)

CS 52: DE 72; McCoy Rd to DE 71 (widen)

CS 51: DE 7; Newtown Rd to DE 273 (widen)

CS 02: US 13; Salisbury Bypass to DE Line (reconstruct)

CS 03: US 13; Somerset Co Line to US 13 Bus (reconstruct)

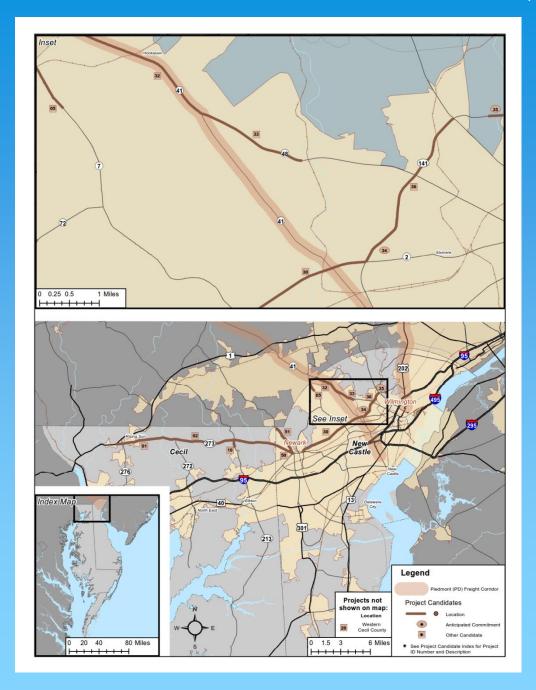




US 202 / DE 41 Piedmont Freight Corridor

Including:

- DE 2, DE 7, DE 48, DE 141
- MD 273





Focal Routes

- ✓ DE 41, DE 48, DE 7: freight management upgrades, potential widening (DE 48)
- ✓ DE 2, DE 141: upgrades, operations, bridge widening

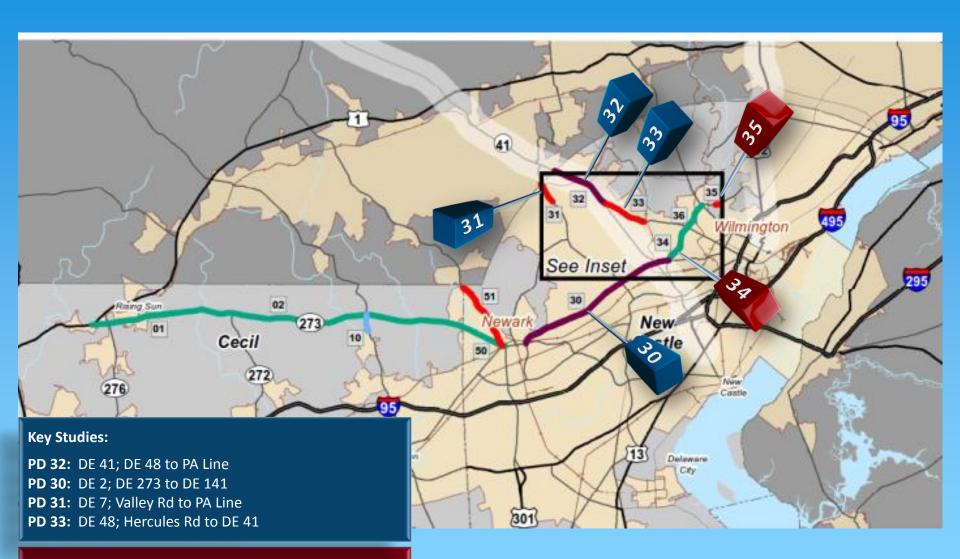
Focal Connections

- ✓ Freight Corridors: Metro (including surrounding urban areas)
- ✓ Freight Hubs: Northern Cecil County (including MD 273)
- ✓ Regional: PA/MD access into Newark; PA access to Lancaster

Multimodal Visions

- ✓ Rail: Northeast Corridor (CSX, NS and related rail yard, transfer, support facilities
 - Shortline opportunities to/from PA via WWRC or ESPN
- ✓ Water: --
- ✓ Air: --
- ✓ Pipeline: --

Key Projects & Studies



Key Projects:

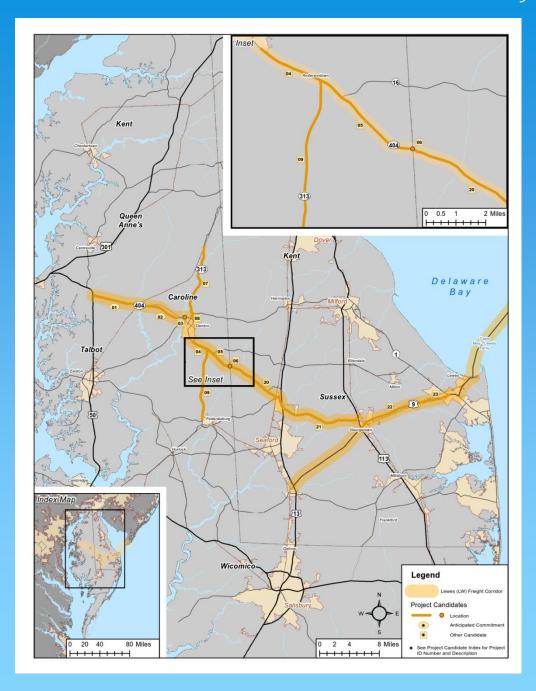
PD 35: DE 141; Tyler McConnell Bridge

PD 34: DE 141; Kirkwood Hwy to Faulkland Rd (upgrade)



MD/DE 404 Lewes Freight Corridor

Including: US 9





Lewes Freight Corridor

Focal Routes

- ✓ MD/DE 404: upgrades, access control, and widening
- ✓ US 9, US 9 Truck: freight management upgrades

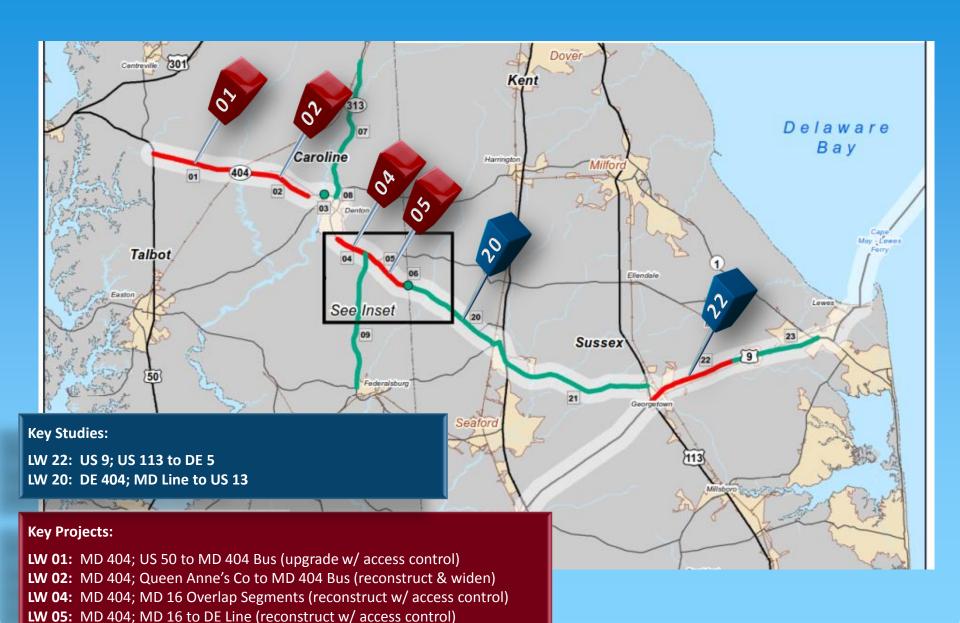
Focal Connections

- ✓ Freight Corridors: Ocean City, Bay, Coastal
- ✓ Freight Hubs: Federalsburg, Denton, Georgetown, resort areas
- ✓ Regional: Access to US 50/301 Bay Bridge

Multimodal Visions

- ✓ Rail: --
- ✓ Water: Cape May-Lewes Ferry connectivity
- ✓ Air: Sussex County Airport connectivity
- ✓ Pipeline: --

Key Projects & Studies



Statewide Summary and Broader Implications



Delaware Statewide

Top 10 Delaware <u>Projects</u> w/ <u>Tier 1</u> Commitment

★ MT 52: I-95; DE 1 to DE 141 (widen)

MT 56: I-295; I-95 to DE Memorial Br (improvements)

T MT 51: I-95 @ DE 1 (interchange)

TBY 41: US 301; MD Line to DE 1 (new expressway)

High Priority Rating

PD 35: DE 141; Tyler McConnell Bridge

MT 75: DE 4; DE 2 to DE 896 (widen)

MT 54: I-95 @ US 202 (interchange)

BY 40: US 301; Peterson Rd to Levels Rd (widen)

BY 50: DE 299; DE 1 to Catherine St (widen)

• CS 52: DE 72; McCoy Rd to DE 71 (widen)

Moderate Priority Rating



Delaware Statewide

Top 10 Delaware Projects w/ Tier 2 or 3 Commitment

★ MT 50: I-95 @ DE 896 (interchange)

X BY 42: DE 896; DE 2 to Boyds Corner Rd (signals)

• MT 53: I-95 @ DE 141 (interchange)

MT 72: US 40 @ US 13 (interchange)

High Priority Rating

MT 55: I-95; US 202 to I-495/DE 2 (widen)

MT 67: US 40 @ DE 72 (intersection)

• CS 41: DE 1; Tybouts Corner to DE 273 (widen)

MT 70: US 40; Salem Church Rd to Walther Rd (widen)

MT 65: US 40 @ DE 896 (interchange)

MT 68: US 40 @ NS Rail Crossing (grade separation)

Moderate Priority Rating



Delaware Statewide

Top 10 Delaware <u>Studies</u> w/ <u>Tier 3 or 4</u> Commitment

★ MT 61: US 13; DE 1 to I-495

MT 62: US 13 @ DE 273 (interchange)

• PD 32: DE 41; DE 48 to PA Line

• CS 42: DE 1 / US 13; DE 72 to DE 71

• BY 44: DE 896; US 301 to DE 1

• PD 30: DE 2; DE 273 to DE 141

• MT 60: US 13; I-495 to Christiana River

• MT 81: DE 72; US 40 to US 13

• CS 43: DE 1; Dover to Smyrna

• PD 31: DE 7; Valley Rd to PA Line

High Priority Rating

Moderate Priority Rating



Delaware Statewide

Additional Interests

Local Area / Freight Management Studies

MT 96: Newark Intermodal Center Feasibility

MT 95: Newark Freight Management

MT 97: Wilmington Freight Management & Route Signage

✓ CS 83: Seaford Freight Management

✓ CS 80: Dover Freight Management

✓ CS 81: Dover ACR Expansion

Planned VWS Sites

✓ CS 45: DE 1 (Smyrna area)

✓ CS 50: US 13 (Smyrna area)

✓ BY 60: DE 299 (west of Middletown)

✓ BY 51: DE 300 (west of Smyrna)

✓ BY 61: DE 6 (west of Smyrna)

Delmarva Rail

Amtrak								
R 01	Baltimore City (B&P and Union Tunnels)							
R 02	Susquehanna River Bridge							
R 03	Yard to Ragan Interlockings							

CSX							
R	10	MD Line to to Landenberg Jct (Double Track)					
R	11	Elsmere to PA Line (Double Track)					

NS	
R 20	Chesapeake Connector
R 21	New Castle Secondary Siding
R 22	Edgemoor Yard (Raise)
R 23	Edgemoor Yard (Relocate)
R 24	Rail Program Autoport
R 25	at Seaford Rail Bridge
R 26	Georgetown Siding

MI	MDDE								
R	30	Frankford to Snow Hill (286k upgrade)							
R	31	Massey to Worton (286k upgrade)							
R	32	Massey to Centreville (286k upgrade)							

BCRR								
R	40	Cape Charles to Pocomoke City (upgrade)						
R	41	Cape Charles Carfloat						

Broader Insights

				113	202	MARYLAND 404
	95	301	50		41	404
Broader Insights	Metro	Bay	Ocean City	Coastal	Piedmont	Lewes
Sensitivity to Accelerated Scenario*	+3% \$37M	+34% \$75M	+11% \$25M	+38% 395M		
Sensitivity to Constraint Scenario*			+16% \$36M			+25% \$13M
Development patterns or warehousing shifts	√					
Regional alternate routes or system redundancy		\checkmark		\checkmark		
Peak season traffic, tourism and freight conflicts			\checkmark	1		1
Community and freight access conflicts		V			\checkmark	V
Multi-jurisdictional cooperation	1				\checkmark	
Oversize or special freight movements	\checkmark			\checkmark		
Technology advancements (ITS, VWS, autonomous vehicles)	1	V		1		

^{*} shown as a % increase and equivalent \$ value increase in truck costs based on VHT and VMT changes vs. the future baseline

Summary

Anticipated strengths of the plan:

- MAP-21 emphasis on freight planning
- Scenario testing to assess which projects may benefit "more potential futures"
- Project screening and prioritization, especially "data-oriented" elements
- Project evaluation to help pursue freight-specific funding options (e.g., 95% match)
- Modeling tool to support future planning revisions (e.g., flooding impact scenarios)

Anticipated next steps:

- Finalize project and policy perspectives
- Explore implications for long-term performance monitoring
- Formalize the draft plan for agency/stakeholder/public reviews

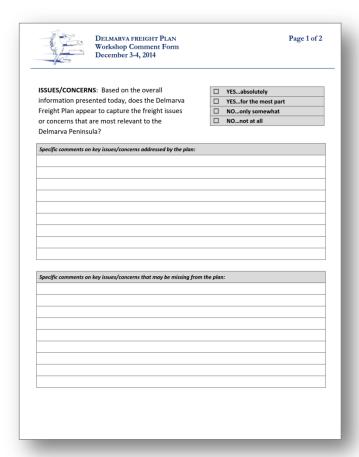
Workshop Comment Form

Issues / Concerns

 Based on the overall information presented today, does the Delmarva Freight Plan appear to capture the freight issues or concerns that are most relevant to the Delmarva Peninsula?

Projects / Studies

 Based on the Project Candidate Index and Freight Corridor Maps on display today, will the key projects or studies help to address the most relevant freight needs on the Delmarva Peninsula?



Thank You!

Comments / Questions / Display Boards

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