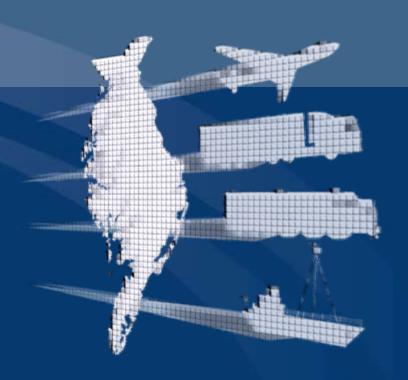
Delmarva Freight Plan

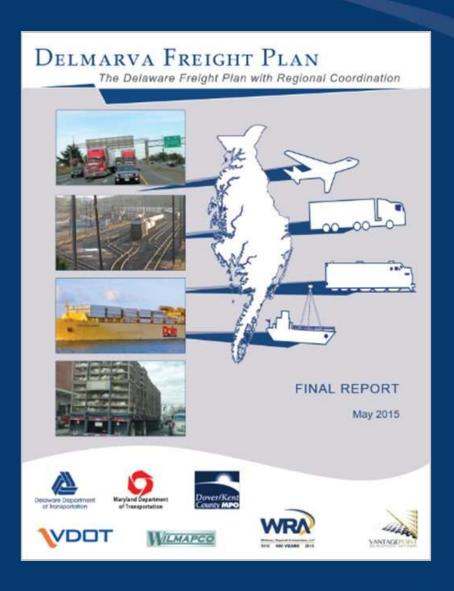
The Delaware Freight Plan with Regional Coordination

2015 Mid-Atlantic Regional Planning Roundtable Conference Wilmington, DE October 29, 2015





Delmarva Freight Plan



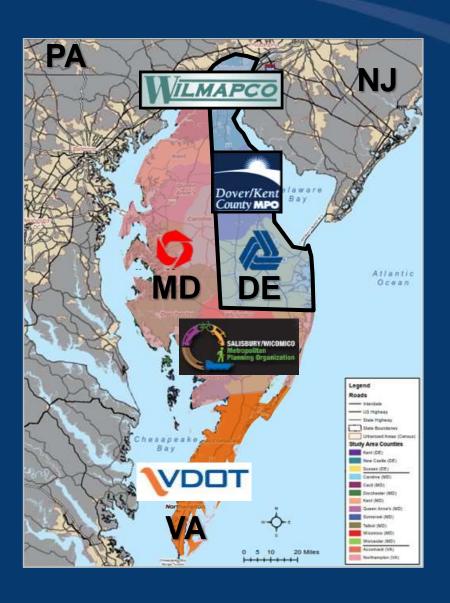
Overall scope

Delaware's State
 Freight Plan (2015)

 Multimodal evaluation of Delmarva's freight system across jurisdictional boundaries



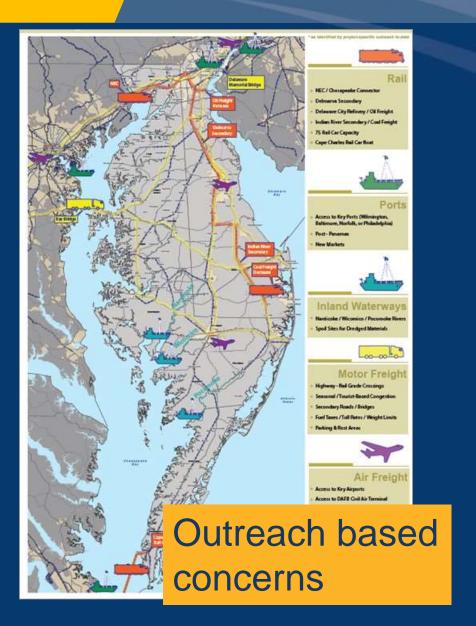
Delmarva Freight Plan



Key aspects

- Broad project area
- MAP-21 compliancy
- Commodity flow modeling
- Performance based scenario planning
- Project assessments





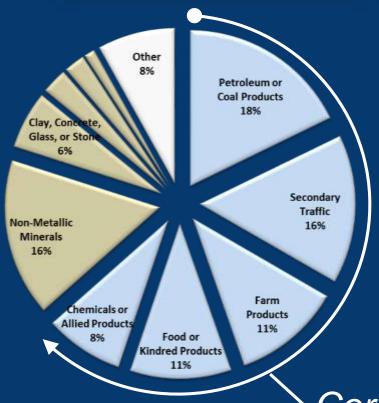












Commodity flow data

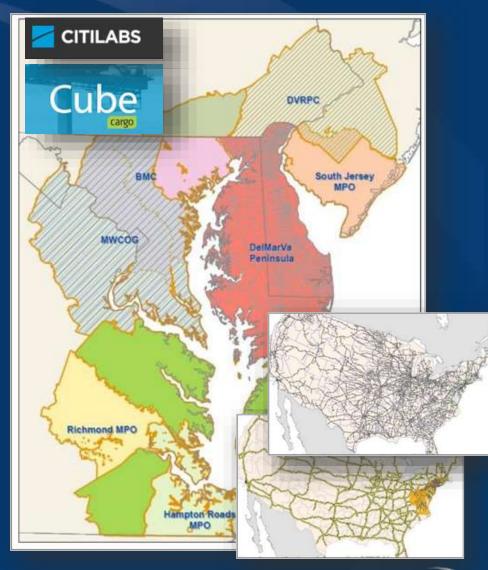
- > 60% total freight in:
 - Petroleum/coal products
 - Secondary traffic
 - Farm products
 - Food products
 - Chemical products

Core Groups



Commodity flow model

- Performance measurement
- System-wide or corridor-level assessments
- Industry or commodity-specific flow characteristics
- Scenario planning







Key freight corridors

- I-95
- US 301
- US 50
- US 13/113 & DE 1
- US 202 & DE 41
- MD/DE 404 & US 9
- Local freight zones



Scenario Planning

External Forces







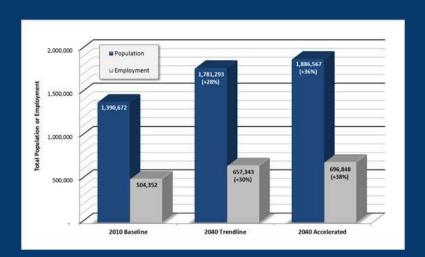




Scenario Planning

Trendline Economic Growth

- Population
- Employment



Accelerated Economic Growth

- Targeted industries
- Market shifts









Scenario Planning

Multimodal Infrastructure Constraint

Multimodal Infrastructure Enhancement

- Rail constraints
- Barge constraints
- Truck reliance

- Rail improvements
- Bridge upgrades
- Intermodal access







Scenario Insights

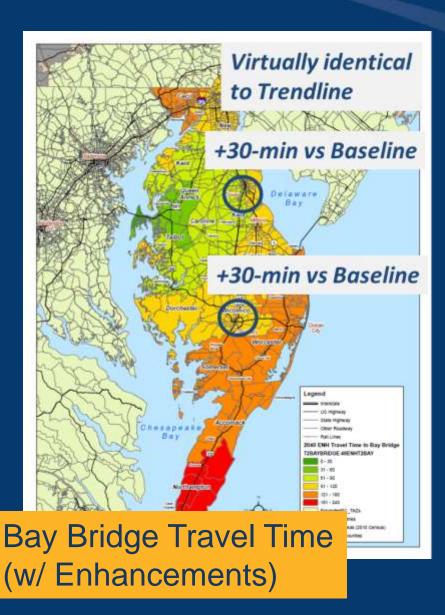
System Impacts by Mode

e.g. the impact of accelerated growth on truck levels





Scenario Insights





Scenario Insights

Corridor Impacts (Truck VHT by LOS)

e.g. the impact of barge constraints vs. US 50 truck traffic





Project Assessments

Assessment criteria by focus area

- Economic Vitality
- Freight Connectivity, Mobility and Accessibility
- Safety and Security
- System Mgmt, Operations and Maintenance
- Sustainability and Environmental Stewardship

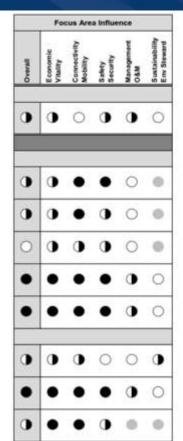


Project Assessments

Project Screening (regional area)

Potential Freight Influence:					
	0	•	•		
Nominal	Low	Moderate	High		

			Candidate Project Details				
Index #	Route / Area	oute / Area Limits Description		State	County	Commit Tier	Network Tier
Other I	Details						
MT 40	Area Study	Eleton	Freight Management Study, including route signage and truck restrictions	MD	CEC	3	4
DELAY	VAIRE	W					
Tier 1F	Routes (State Pr	lmary on Federal PFN)					
MT 50	1-95	at DE 896	Major interchange reconstruction		NCC	2	1E
MT 53	1-95	at DE 141	Phase I / Phase II interchange projects		NGC	2	1F
MT 54	1-95	at US 202	Interchange improvements		NGC	¥	1F
MT 55	1-95	US 202 to 1-495 / DE 92	Widen from 4 to 6 lanes		NGC	2	iF
MT 56	1-295	1-95 to Delaware Memorial Br	Improvements		NCC	Ť	ir
Tier 15	Routes (State Pr	imary)					
MT 60	US 13	I-495 to Christiana River	Comdor Study / Concept Design for freight management upgrades		NCC	3	18
MT 61	US 13	DE1 to 1-495	Corridor Study / Concept Design for roadway or capacity upgrades	DE	NCC	3	15
MT 62	US 13	at DE 273	Interchange Feasibility Study / Concept Design	DE	NCC	4	18



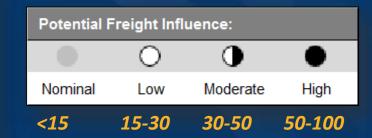
-	Scen	ario Infli	uence) .
Trendline	Constraint	Constraint	Enhance	Enhance
•		P		P
•				
•				P
•		P		P
0		P		P
•		P		P
•				
•		P		P
•		P		P



Project Assessments

Weight / Category / Criteria		Criteria Rating Scale					
		0.00	0.25	0.50	1.00		
15%	Economic Vitality						
20%	Focus Area Influence (category-specific per project screening results)	Nominal	Low	Moderate	High		
20%	Scenario Influence* (per project screening results)	1	2-3	4-5	6-7		
60%	Freight Generators (within 1-mile buffer of project location)	0	1-5	6-10	>10		
25%	Freight Connectivity, Mobility and Accessibility	0).					
20%	Focus Area Influence (category-specific per project screening results)	Nominal	Low	Moderate	High		
50%	LOS / Base (at project location)	A-C	D	E	F		
30%	LOS / No-Build (at project location)	A-C	D	E	F		
30%	Safety and Security						
20%	Focus Area Influence (category-specific per project screening results)	Nominal	Low	Moderate	High		
80%	Fatal Crashes involving Large Trucks (number within 3-year period per NHTSA FARS data)	0	1	2	23		
20%	System Management, Operations and Maintena	nce	tu e	312			
20%	Focus Area Influence (category-specific per project screening results)	Nominal	Low	Moderate	High		
80%	Average Daily Truck Traffic (at project location for Base year conditions)	0-100; or 100-1000***	1,000-2,500	2,500-7,500	>7,500		
10%	Sustainability and Environmental Stewardship	il.	N 2				
20%	Focus Area Influence (category-specific per project screening results)	Nominal	Low	Moderate	High		
80%	Congested Travel Speed (as a % of free-flow speed for modeled peak period)	>90%	60-90%	30-60%	<30%		

Project Prioritization (Delaware only)



Scoring / Ranking Scale



Action Plan

Project Summaries by Corridor

Scenario-Specific Influence:

More potential need

Less potential need

Relative Freight Influence

= High
= Moderate
= Low
= Nominal





Action Plan

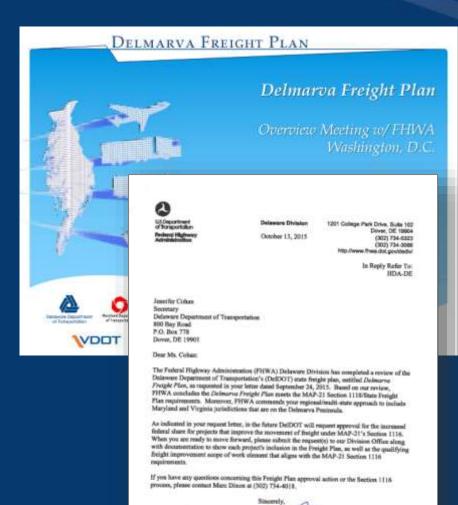


Key Project Guidance

- Anticipated commitments
- Unfunded aspirations
- VWS focus
- Studies
- Multimodal



Action Plan



Key Policy Guidance

- Guiding Principles
- Performance Monitoring
- Strategic
 Implementation
 Actions
- Future Plan
 Enhancements



Summary

Strengths of the plan...

- MAP 21 freight planning emphasis
- Project screening & prioritization
- Scenario testing for variable futures
- Support to pursue freight-specific funding
- Regional perspectives w/ local relevance
- Future freight planning capabilities



Follow-up Contacts



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