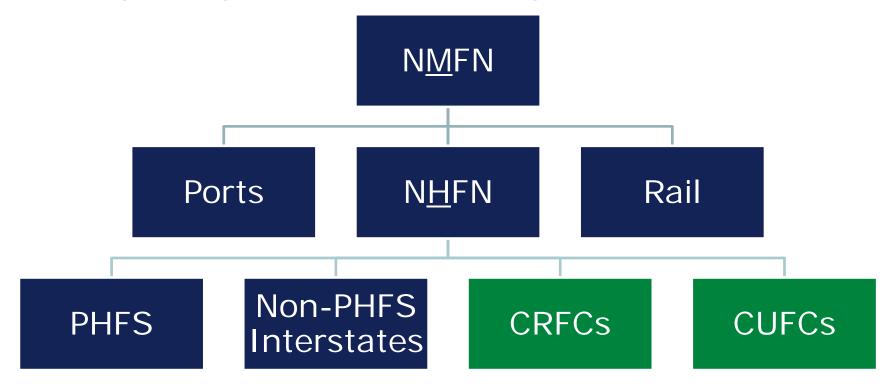
Designating and Certifying Critical Urban Freight Corridors (CUFCs) and Critical Rural Freight Corridors (CRFCs)

Delaware Valley Goods Movement Task Force October 14, 2016



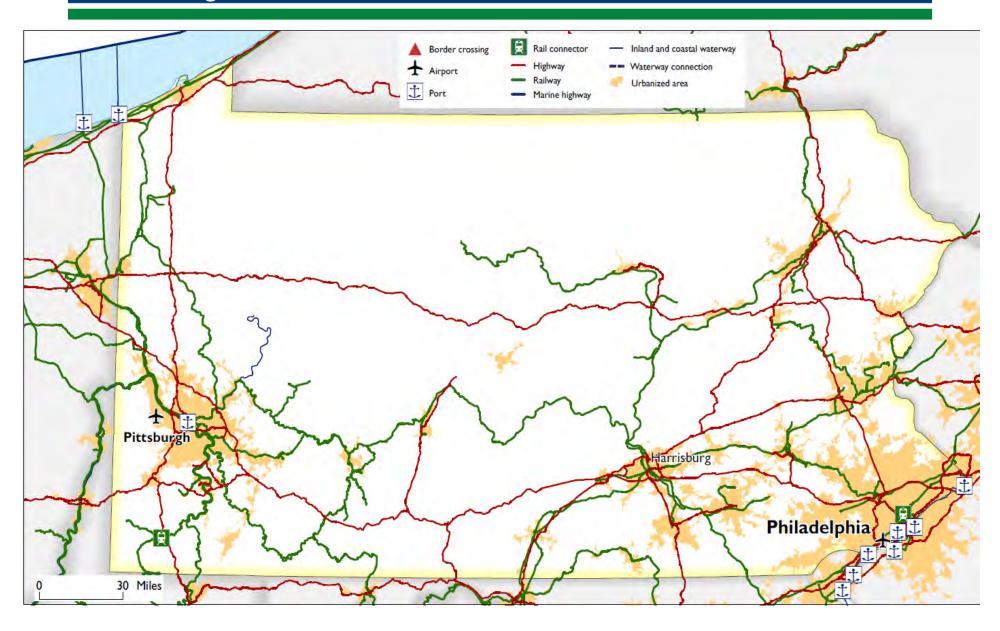
Our Charge

- Designating Critical Urban Freight Corridors
- Designating Critical Rural Freight Corridors



https://www.transportation.gov/freight/INMFNTables

Pennsylvania Interim MFN



Critical Freight Corridors (CUFCs and CRFCs)

- Principal arterial with minimum 25% truck traffic
- Access to energy exploration
- Connects PHFS or Interstate to IM facilities
- Provides access to various facility types
- Connects to an international point of entry
- Provides access to significant MM freight facilities
- Is determined by the State to be vital to goods movement
- http://www.ops.fhwa.dot.gov/fastact/crfc/sec_1116_gdnce.htm



Why is this important?

- State freight plan needs to be approved by FHWA before funding distribution
- Be very critical in designating critical corridors!
- Through this effort, we're saying what is important to Pennsylvania's economy – the most vital roads supporting the movement of freight.



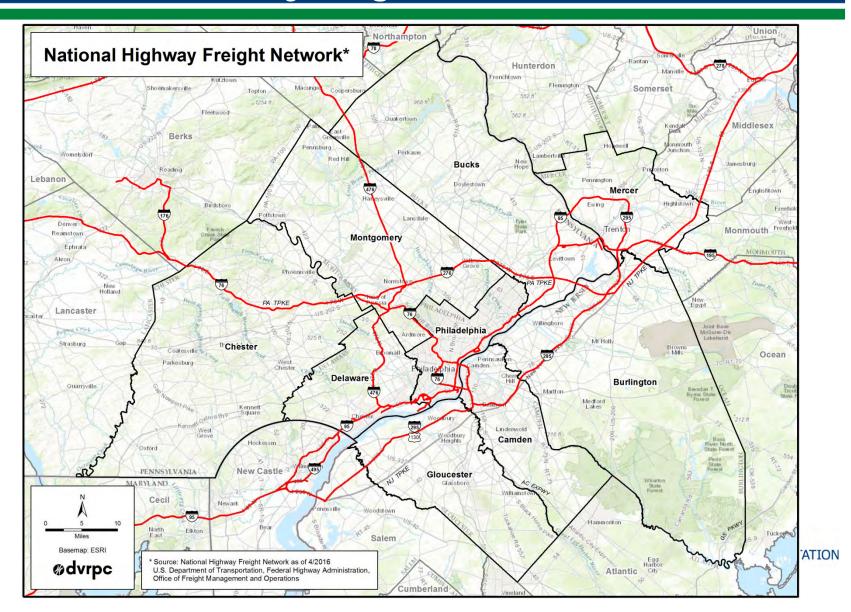
Statewide Limits

CRFCs: 282.53 miles

CUFCs: 141.26 miles



Delaware Valley Region



The Freight Analysis Tool

Available on SharePoint

- http://pennshare.maps.arcgis.com/home/webmap/viewer.html ?webmap=3a0839aa61284738aabacad31dcbc778
- Includes data layers to assist MPOs/RPOs in identifying their priority freight segments:
- Urbanized area boundaries
- Principal Arterials > 25% truck traffic
- 2017 TYP
- Class I railroads
- Freight Finder data from IHS Global Insight
- Top freight generating locations (as identified in state freight plan)
- Major intermodal facilities



Spreadsheets

CRFC_ID	State	State Route Number	County Code	Start Point (Seg Begin)	End Point (Seg End)	Length (ft.)	Priority	Description / Justification
Sample	PA	0034	50	0680	0700	800.26		This is an explanation of the segement we believe is the most critical for our area.
	PA							
	PA							
	PA							
	PA							
	PA							
	PA							
	PA							
	PA							

CRFC_ID	State	Local Street Name	County Code	Municipality	Start Point (Seg Begin)	End Point (Seg End)	Length (ft.)	Priority	Description / Justification
Sample	PA	Smith Street	50	Washington Twp.	Intersection of Jenks Street and PA Route 36	Intersection of Jenks St. and US 322	1325.55		This is an explanation of the segement we believe is the most critical for our area.
	PA								
	PA								
	PA								
	PA								
	PA								
	PA								
	PA								
	PA								



U.S. Department of Transportation Maritime Administration

Freight Challenges and Intermodal Opportunities for Stronger Ports and Waterways

Delaware Valley Goods Movement Task Force

Philadelphia | October 14, 2016

John T. Kennedy
Director, Mid-Atlantic Gateway
U.S. Maritime Administration



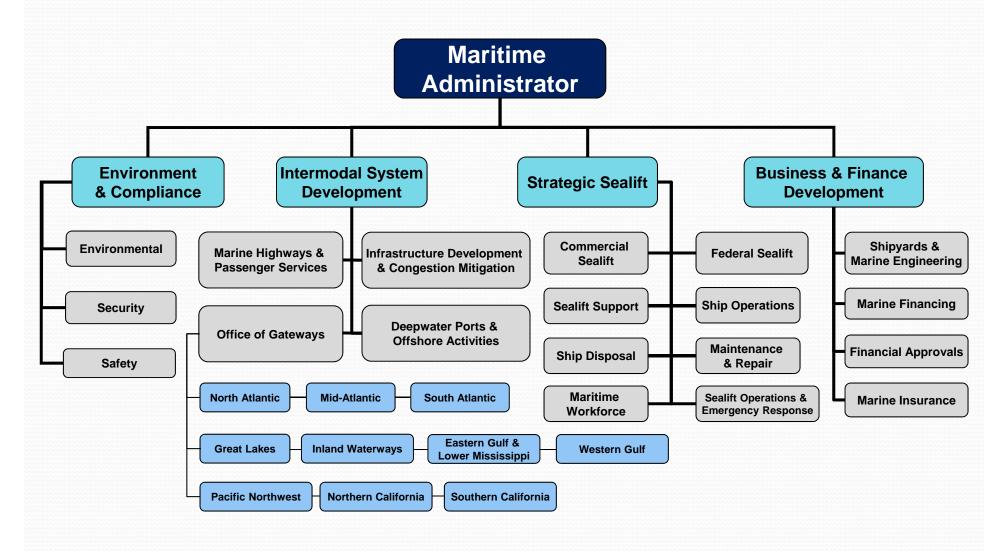


U.S. Department of Transportation Maritime Administration

Mission

To improve and strengthen the U.S. marine transportation system – including infrastructure, industry and labor – to meet the economic and security needs of the Nation.

U.S. Department of Transportation Maritime Administration



U.S. Department of Transportation Maritime Administration

Office of Intermodal System Development

- Congestion mitigation projects, teams and partnerships
- Shipper and carrier outreach
- Port infrastructure and facility development
- Deepwater ports/energy
- Navigation and waterways
- Passenger and cruise industry
- Marine highway services
- Gateway Offices

Gateway Offices - Program Support

StrongPorts

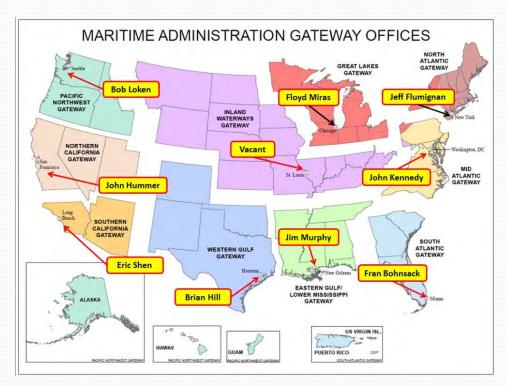
- Freight Planning Coordination
- Grant Opportunities (TIGER, FASTLANE)
- Delivery of Federal Services (Consultations)
- Port Infrastructure Development (StrongPorts Program Support, Build America Bureau)
- PortTalk (Consult, On Site, or HQ)
- Port Conveyance opportunities

Marine Highways

- Service Development (Program Support)
- Marine Highway Routes (Application/Selection)
- Marine Highway Projects (Application/Designation)
- Supports Interagency Partnerships
- Planning and Engagement

Engagement

- Advocacy & Outreach
- Environmental Sustainability/Stewardship
- Port Readiness*
- Workforce Development



*Port Readiness includes:

- ✓ National Port Readiness Network (Strategic Commercial Seaports)
- ✓ Port Resiliency (Improves the Disaster Resiliency of Ports)
- Emergency Support Function (Emergency Reporting)
- ✓ Field Crisis Team (Supporting USDOT Emergency Reporting)
- ✓ USCG Area Maritime Security Committees
- ✓ FEMA/USCG Port Security Grant Program Reviews
- ✓ Security (Port, Vessel, Crew, Cyber)
- ✓ Safety (Port, Vessel, Crew, and Navigation)

Beyond Traffic: USDOT's 30 Year Framework



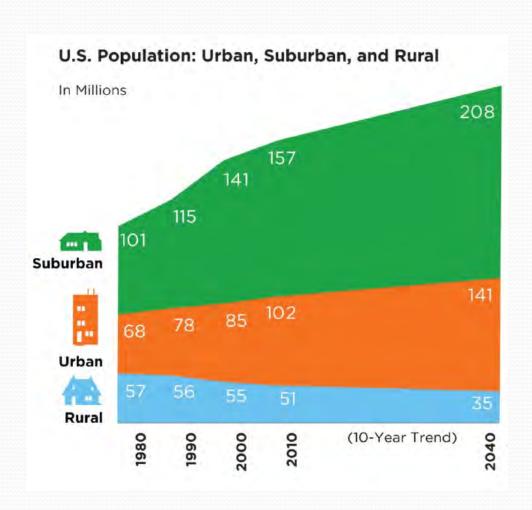
Megaregions and Shifts in Population Centers

11 megaregions are linked by transportation, economics, and other factors.

They represent over **75%** of our population and employment.

In 2014, **365,000** people moved to the South—up **25%** from 2013—and moves to the West doubled.

Port Challenges – A Growing Population Will Stress Transportation System Capacity



Beyond Traffic framework freight trends:

- Emerging megaregions could absorb 75 percent of the U.S. population; rural populations are expected to continue declining
- By 2045, freight volume will increase
 45 percent
- Online shopping is driving up demand for small package home delivery
- Airline mergers and the consolidation of hubs may increase air congestion
- International trade balances, due in part to low U.S. energy costs, could shift from imports toward exports, but overall globalization will increase both, straining ports and border crossings

National Maritime Strategy

- MARAD is developing a National Maritime Strategy to support growth of U.S. maritime industry and ensure availability of U.S. flag vessels for our nation's economic and national security.
- Hosted two three-day National Maritime Strategy Symposium, with over 400 maritime stakeholders in developing five priorities –
 - ✓ Ports
 - ✓ Integration of Waterways into Surface Transportation
 - ✓ Strengthen Capabilities Essential to Economic/ National Security
 - ✓ Workforce Development
 - ✓ Innovation and Technology
- Current Draft in Federal Government review
- Public comment and review period will follow

Fixing America's Surface Transportation (FAST) Act

- Signed into law Dec. 4, 2015, \$305 Billion for five years
- FASTLANE (Nationally Significant Freight & Highway Projects)
 - ✓ Up to \$500M can go towards multimodal projects including ports
- Port Performance Program (annual statistics)
 - ✓ Bureau of Transportation Statistics
- Build America Bureau authorized
- Strengthens MAP-21 freight planning provisions
 - National Multimodal Freight Policy, Freight Strategic Plan
 - National Multimodal Freight Network
 - State Freight Advisory Committees and State Freight Plans

StrongPorts Planning & Investment Toolkit

- A joint venture between AAPA, a working group of 57 industry expert volunteers, and the Maritime Administration
- Toolkit for ports to access funding by developing investment grade plans:
 - ✓ Clearly identify future port needs
 - ✓ Determine the most cost-effective, sustainable and efficient solutions to port problems
 - ✓ Get port infrastructure projects into MPO and state transportation programs in order to receive formula funding.
 - ✓ Position port projects for federal funding such as TIGER and FASTLANE grants
 - ✓ Assist ports in obtaining private sector investment funds

Funding and Financing

- TIGER Grants
- FASTLANE Grants
- Build America Bureau
 - ✓ Transportation Infrastructure Finance and Innovation Act (TIFIA)
 - ✓ Railroad Rehabilitation and Improvement Financing (RRIF)
 - ✓ Public Private Partnerships
- Port Conveyance Program
- Marine Highway routes, grants for designated projects
- Small Shipyard Grants
- Port Security Grants

PortTalk - A Regional Maritime Collaboration

 PortTalk engages Ports, State DOTs, MPOs, and other stakeholders to foster dialogue and develop regional maritime transportation priorities

PortTalk Outcomes:

- ✓ Understand Port concerns
- ✓ Identify resources and programs to help build, modernize and expand maritime transportation assets
- ✓ Spotlight maritime transportation's role in regional transportation system planning
- √ Shipper and shipping-company outreach and needs assessment
- ✓ Gain understanding of long-range freight system plans
- ✓ Generate innovative solutions to environmental and logistics challenges

Growing Congestion and Marine Highways

- International trade growth will increase congestion
- Landside infrastructure can't support the growth. Roads and railroads are near capacity, are costly, and take decades to expand.
- The U.S. moves about 2% of domestic freight by water
 ✓ Europe - 44%
 ✓ China - 61%
- The U.S. has about 25,000 miles of coastal and inland waterways that are operating below capacity



Small Shipyard Grants

- Funding availability pending FY 2017 appropriations
 - \$4.9 Million awarded in FY 2016
- An eligible shipyard is one which:
 - is located in or near a maritime community, in a single geographical location;
 - employs less than 1,200 production employees; and
 - constructs, repairs, or reconfigures commercial or government vessels 40 feet in length or greater (applicant must be the actual operator of the **shipyard**)
- MARAD will also take into consideration:
 - the economic circumstances and conditions of the maritime community where the shipyard is located, and
 - the economy of the local, State, and regional areas in which the maritime community is located

Ready Reserve Force: Objectives









Ready Reserve Force: Homeports



Contact Information

John T. Kennedy
Director, Mid-Atlantic Gateway
U.S. Maritime Administration

1200 New Jersey Ave SE Room W23-311 Washington, DC 20590

(202) 366-0706 john.kennedy@dot.gov

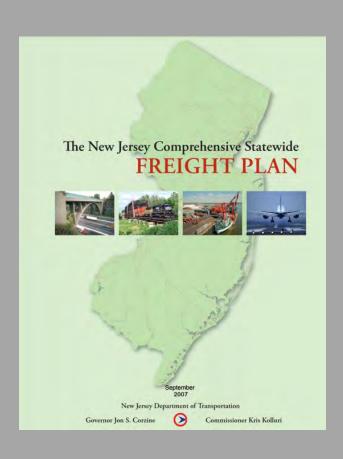




NJ STATEWIDE FREIGHT PLAN UPDATE



- Updating the 2007 Plan to be FAST Act compliant
- Multimodal Freight Plan constructed through:
 - Outreach
 - Analysis
 - Results





FREIGHT OUTREACH



- Freight Advisory Committee
- Local/County Economic Development Decision Makers
- Targeted Interviews
- MPO Outreach
- Public Comments Crowdsourcing



STATEWIDE ANALYSIS



- Review of Previous Work
 - NJDOT Studies
 - MP0 initiatives and studies
 - Goods Movement Action Plan (GMAP)

- Regional Freight Commodity Profiles Study Final Report

 propered by Combridge Systematics, inc.

 with

 Propered Study Statematics, inc.
- Inventory of Infrastructure and Supply Chains
 - Economic Value of Critical Corridors



STATEWIDE ANALYSIS



- Development/Confirmation of Statewide Network
- Network Performance (per FAST Act Guidance)
 - Truck Travel Time
 - Mileage Uncongested
- Summary of National Trends,
 Policies and Technologies





RESULTS



- Development of Improvements
 - Capital Investments
 - Operational Improvements
 - Policy Changes
 - Expanded use of ITS/Technology
- Investment and Implementation Plan
- Draft & Final Report



SCHEDULE



- Work initiated in September 2016
- Draft Report due to FHWA by September 1st, 2017
- Final Report due to FHWA by December 4th, 2017



CONTACT INFORMATION



NJDOT

Paul Truban, Project Manager

Paul.Truban@dot.nj.gov

609-530-3521

WSP | Parsons Brinckerhoff

Stephen Chiaramonte, Deputy Project Manager

chiaramonte@pbworld.com

609-865-3930





Goals

- Develop a Freight Management System to:
 - Score STIP projects from a freight perspective
 - Develop freight improvement projects based on freight needs
 - Provide freight input in Capital Program project development
 - Manage freight data





Background

- Develop a methodology to unify relevant freight data into a single comprehensive data set
- Assigns a score based on the importance of a particular criteria
- Present a score for a particular STIP project or any part of the roadway network defined by the user





Indicators and Measures

Weight (Out of 100)	Component Weight (Points)	Indicators and Measures				
50%	40	Large Truck Crash Rate				
5U%	10	Large Truck Severity Rate				
	1.25	National Highway Network				
F0/	1.25	New Jersey Access Network				
5%	1.25	Intermodal Connector				
	1.25	Blue Route				
	20	Percent of Large Truck Volume				
45%	5	Buffer Time Index				
	20	Overweight Truck Permits				





Tool

- GIS Web-based system
- Utilized NPMRDS Data in addition to other data
- Currently able to score any STIP project
- Able to generate report on scoring methodology





FMT Interface





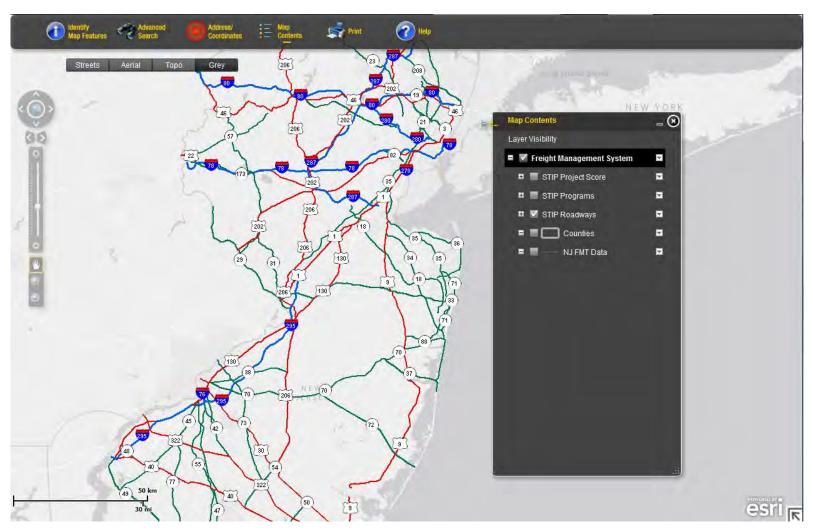


FMT Interface



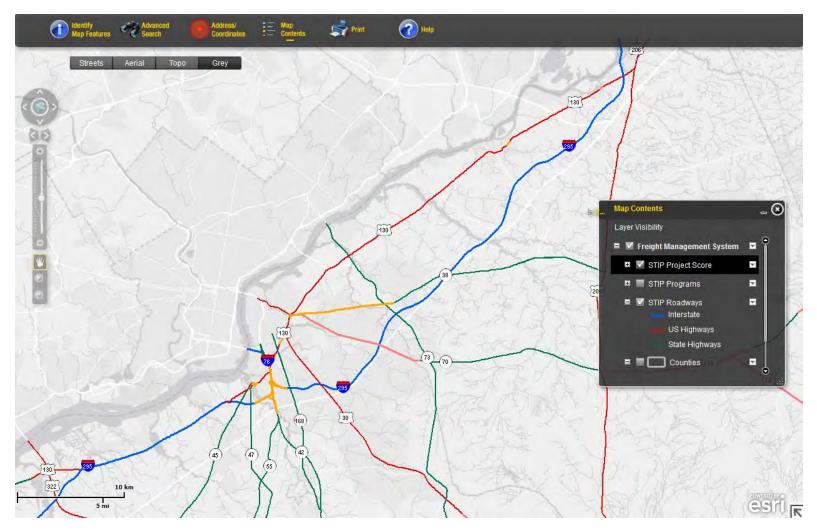






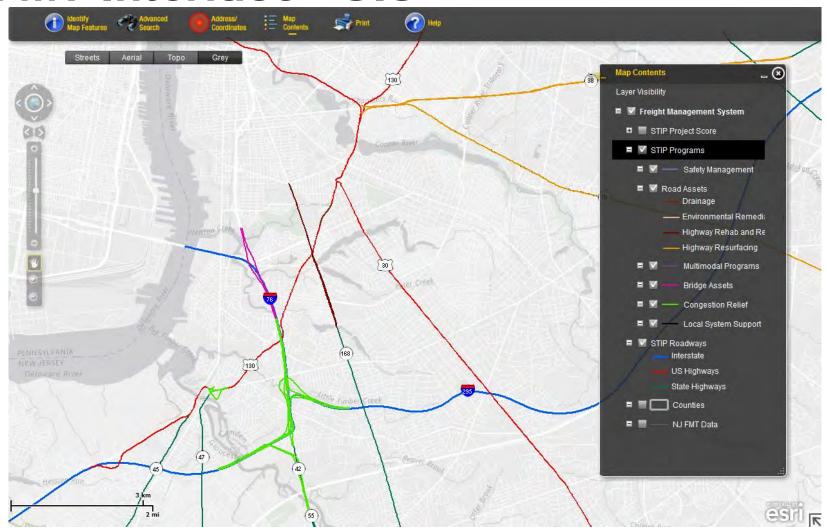






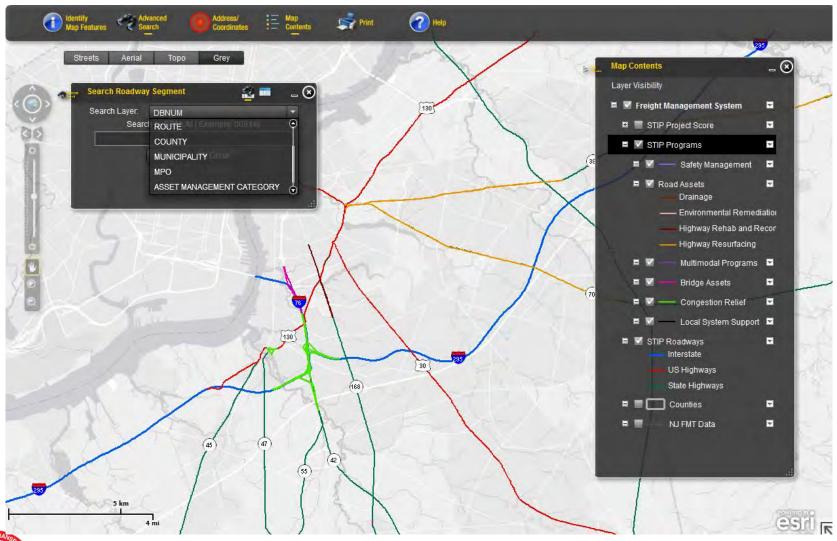




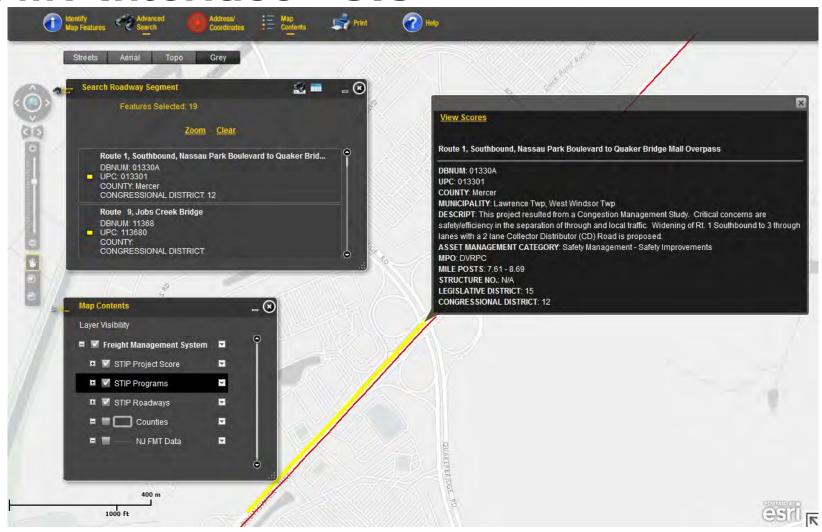






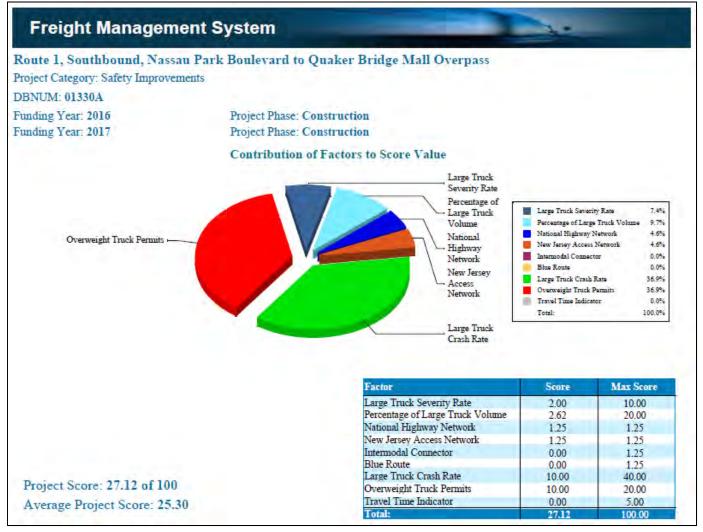
















Freight Management System

Route 1, Southbound, Nassau Park Boulevard to Quaker Bridge Mall Overpass

Project Category: Safety Improvements

DBNUM: 01330A

Funding Year: 2016 Project Phase: Construction Funding Year: 2017 Project Phase: Construction

Contribution of Factors to a STIP Project Store:

egment	Start MP	End MP	NJ Access	Intermodal Connector #	NHS		Percent Large Trucks		Large Truck Crash Rate	Severity Rate	Mean Travel Time	Overweigh Truck Permit	t 95th Percentile Travel Time	Buffer Time Index
1	7.60	7.70	YES	NO	YES	NO	2.62	0	0.	0	85.1091205	971	107	0.257209561
2	7.70	7.80	YES	NO	YES	NO	2.62	0	0	0	85.1091205	971	107	0.257209561
3	7.80	7.90	YES	NO	YES	NO	2.62	0	0	0	85.1091205	971	107	0.257209561
4	7.90	8.00	YES	NO	YES	NO	2.62	1	0.124995	0.124995	85.1091205	971	107	0.257209561
5	8.00	8.10	YES	NO	YES	NO	2.62	0	0	0	85.1091205	971	107	0.257209561
6	8.10	8.20	YES	NO	YES	NO	2.62	0	0	0	85.1091205	971	107	0.257209561
7	8.20	8.30	YES	NO	YES	NO	2.62	0	0	0	85.1091205	971	107	0.257209561
8	8.30	8.40	YES	NO	YES	NO	2.62	0	0	0	280.0462633	971	480	0.714002517
9	8.40	8.50	YES	NO	YES	NO	2.62	0	0	0	280.0462633	971	480	0.714002517
10	8.50	8.60	YES	NO	YES	NO	2.62	0	0	0	280.0462633	971	480	0.714002517
11	8.60	8.70	YES	NO	YES	NO	2.62	0	0	0	280.0462633	971	480	0.714002517



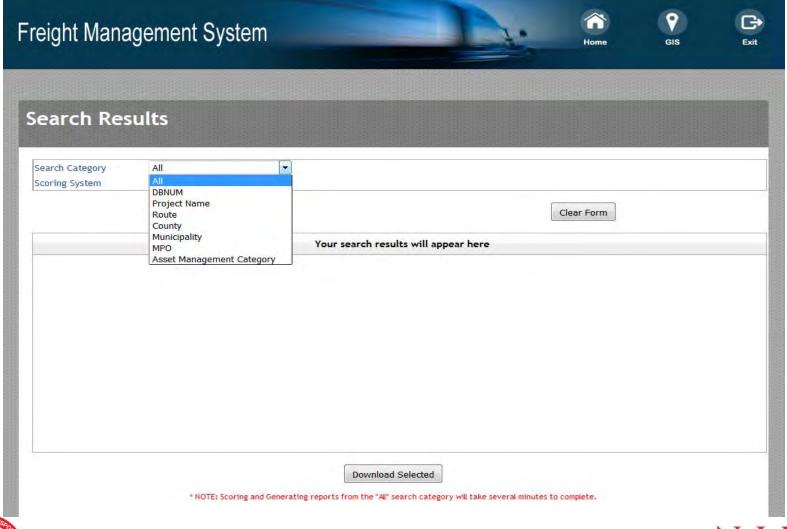






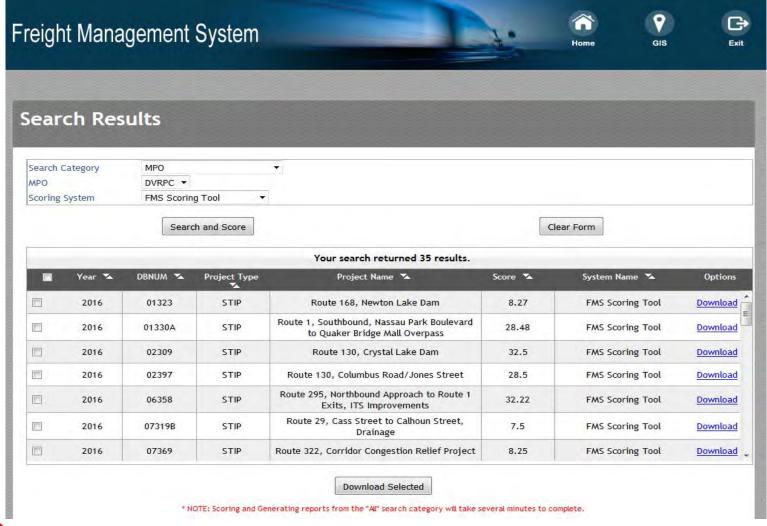
















Moving Forward

- Refine current data:
 - Integrate WIM Data
 - Integrate INRIX Data for non-NHS roadways
- Integrate historical data to calculate Freight Performance Measures
- Develop a dashboard to track changes in Freight Performance measures
- Develop method to score custom roadway length



