



## DISTRICT 8 ASHE PRESENTATION APRIL 4, 2014



### *On the move*



# ***ASHE Presentation Planning, DOI & Project Delivery***

April 4, 2014

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Engineering District 8-0***



## **Presentation**

- **Our Planning Approach**
- **Funding Issues**
- **Asset Management**
- **Key Factors in Planning Projects**
- **Project Overviews for DOI**



## **District 8 Planning**



**6 Planning Partners  
Federal Funding  
Act 89  
Elected Leaders**



## **District 8 Planning Focus**



**Interstates/Expressways**

**Bridges**

**Posted Corridors**

**Congestion**

**Safety**

**Maintenance**

**Bike/Pedestrians**

5



**Less Focus**

**Transportation Enhancements**

**New Corridors**

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## Funding Issues

- MAP21
- HSIP
- Act 89
- Maintenance

## MAP-21 Putting Performance into Action

### Transportation Performance Management Process



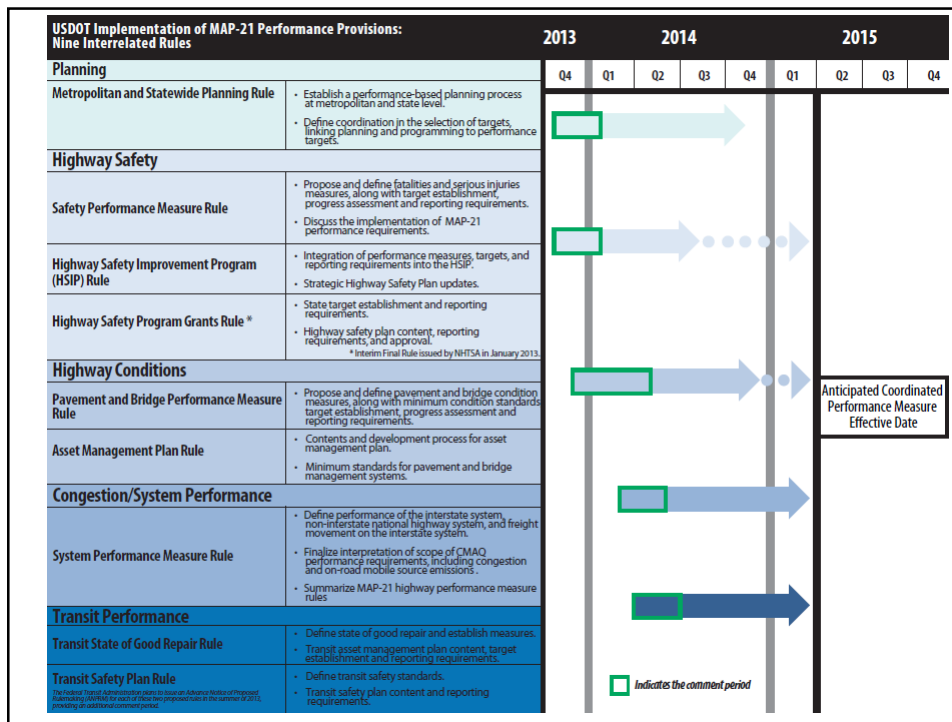
Moving Ahead for Progress in the 21st Century Act (MAP-21) creates a performance-based and multimodal program to strengthen the U.S. transportation system. By focusing on national goals, increasing accountability, and improving transparency, these changes will improve decision-making through better informed planning and programming.

The U.S. Department of Transportation (USDOT) is implementing the new MAP-21 performance requirements through nine rulemakings released in several phases.



Resources:  
[www.dot.gov/map21](http://www.dot.gov/map21)  
[www.fhwa.dot.gov/tpm/](http://www.fhwa.dot.gov/tpm/)

Contact Us:  
[Performanceasuresrulemaking@dot.gov](mailto:Performanceasuresrulemaking@dot.gov)



## National Goals

- Focus the Federal-aid program on the following national goals:
  1. Safety
  2. Infrastructure condition
  3. Congestion reduction
  4. System reliability
  5. Freight movement and economic vitality
  6. Environmental sustainability
  7. Reduced project delivery delays

## 9 Inter-related Rules

- Highway Safety Programs (NHTSA)
- Highway Safety Improvement Program (FHWA)
- Metro and Statewide Planning (FHWA-FTA)
- Safety Performance Measures (FHWA)
- Infrastructure Performance Measures (FHWA)
- System Performance Measures (FHWA)
- Highway Asset Management (FHWA)
- Transit Asset Management (FTA)
- Transit Safety Plan (FTA)

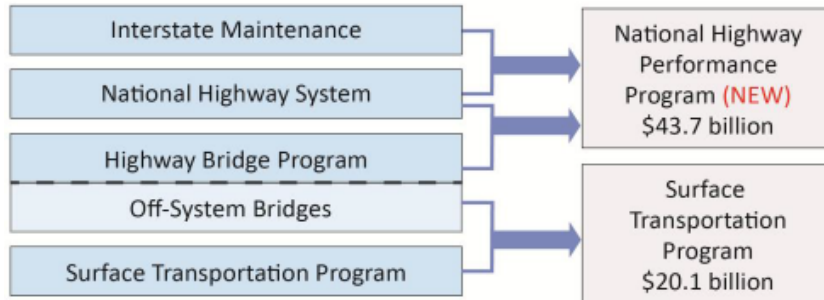
### ***National Performance Measure Areas***

- Serious injuries per VMT
- Fatalities per VMT
- Number of serious injuries
- Number of fatalities
- Bridge Condition on the NHS
- Pavement Condition of the Interstate System
- Pavement Condition of the NHS
- Traffic Congestion
- System Reliability of the Interstate
- System Reliability of the NHS
- Freight Movement of the NHS
- On-Road Mobile Source Emissions

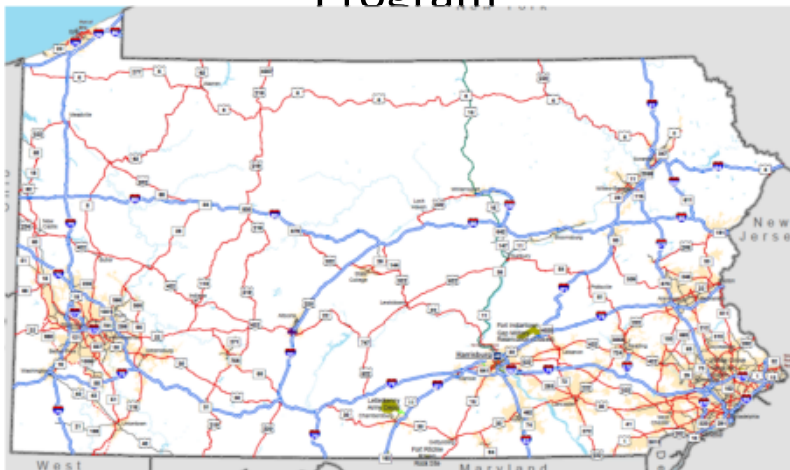
## Program Consolidation

### Current Program Structure

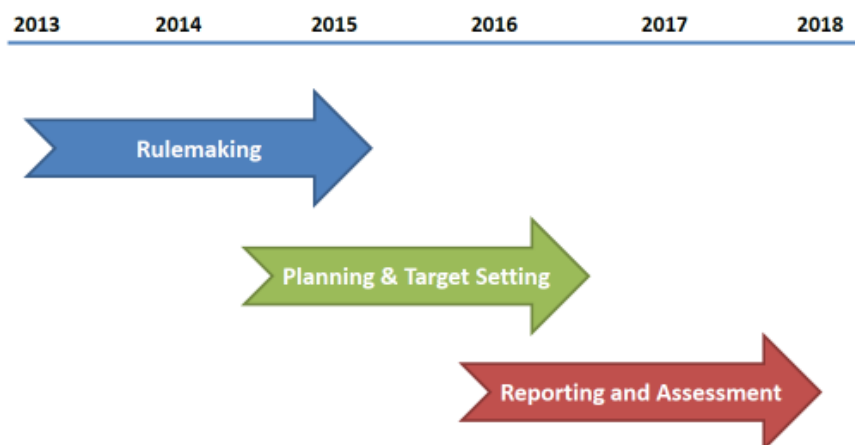
### MAP-21 Core Program Structure



## National Highway Performance Program



## Implementation Schedule



## Federal Funding Issues

- Statewide Application of goals and measures
- Projects must support one of four measures
- Failure to meet measures reduces flexibility
  - 10% of total NHS deck area; If not, then 50% funds go to bridge
  - Asset Management development; if not, then share can go to 65% for all projects



## Federal Funding Issues

- NHPP (60% of funds on 15% of system)
- STP (Now 40% of funds on 85% of system)
- In District 8, we have net loss in distribution of federal funds statewide
- HSIP funding has doubled, firm rules on eligibility
- Complicates planning?

## Transportation Asset Management

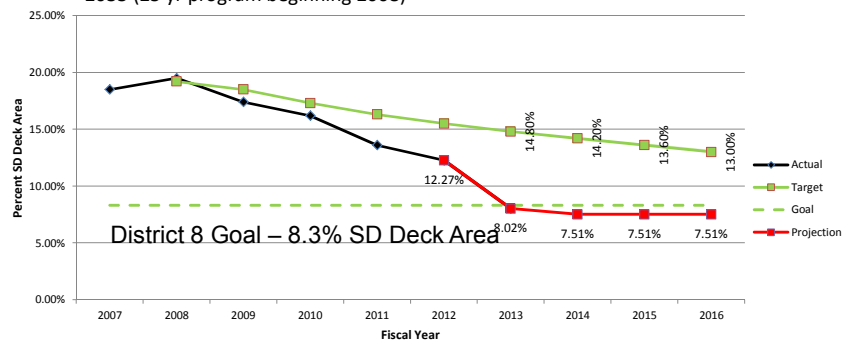


## Asset Management Bridges

- 3407 State Bridges
  - 8.02 % SD Deck Area
  - 15.38% SD #Bridges
  - 105 posted
  - 16 closed
- 23.14% SD Local Bridges (#218)
  - 176 posted
  - 25 closed

## Asset Management – Bridges

- Structurally Deficient Bridges – **District 8**
  - Goal: Reduce the percentage of State-owned SD bridge deck area in **District 8** to **8.3%** by 2033 (25 yr program beginning 2008)



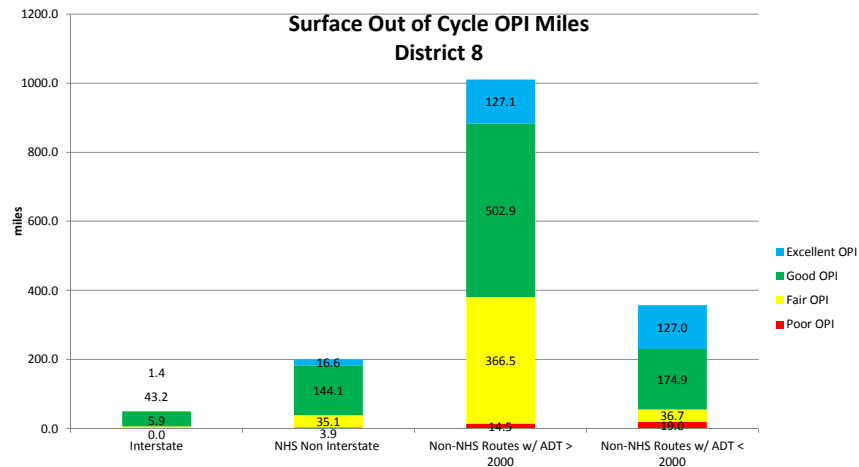
## Asset Management Bridges

- Continue Risk Based Posting Policy
  - Local Bridges being addressed by end of March
- Address Key Posted Bridges in Program Update
- Aggressive Repairs for 0,1 Priorities in Maintenance
  - 4 state bridges on active Priority 1 list

## Asset Management Bridges

- Decade of Investment
  - Continue Preservations
  - Less Rehabilitation projects
  - More replacements
    - P3 Process for up to 90 bridges
    - More Packaging for delivery
  - Major Bridges in good condition

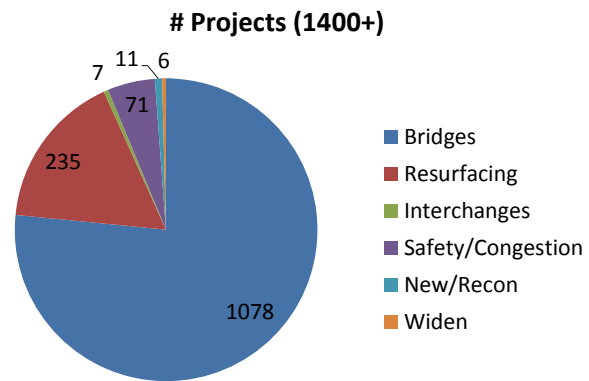
## Asset Management - Pavements



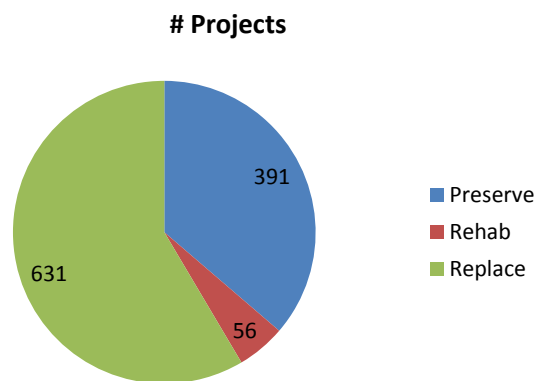
## Decade of Investment (DOI)

- Act 89 Funding associated with list of about 1423 projects in District 8; about 50% increase in # projects in short term
- Project Sources
  - Long Range Plans
  - Bridge Risk Assessment List
  - Planning Studies
  - Elected Officials

## DOI Project Profile



## DOI Profile for Bridges



## ***Act 89 Transportation Funding***

Transportation Mode	Year 1 (1/1 thru 6/30, 2014)	Year 5
State Roads and Bridges	\$186 million	\$1.3 billion
Public Transportation	\$59 million	\$480 - \$495 million
Local Roads and Bridges	\$34 million	\$237 million
PA Turnpike Expansion Projects	\$12 million	\$86 million
Multi-Modal Fund	\$30 million	\$144 million
Dirt/Gravel/Low Volume Roads	-	\$30 million
<b>TOTAL</b>	<b>\$351 million</b>	<b>\$2.3 - \$2.4 billion</b>

## Highways

- Decade of Investment Goals
  - Start some reconstructions
  - Enhance bituminous overlays on selected highways (Scoping issue)
  - Micro-resurfacing in limited cases
  - Very limited widening
  - Continue Betterments
  - Meeting cycles
  - Concern for Department Force Paving Funding

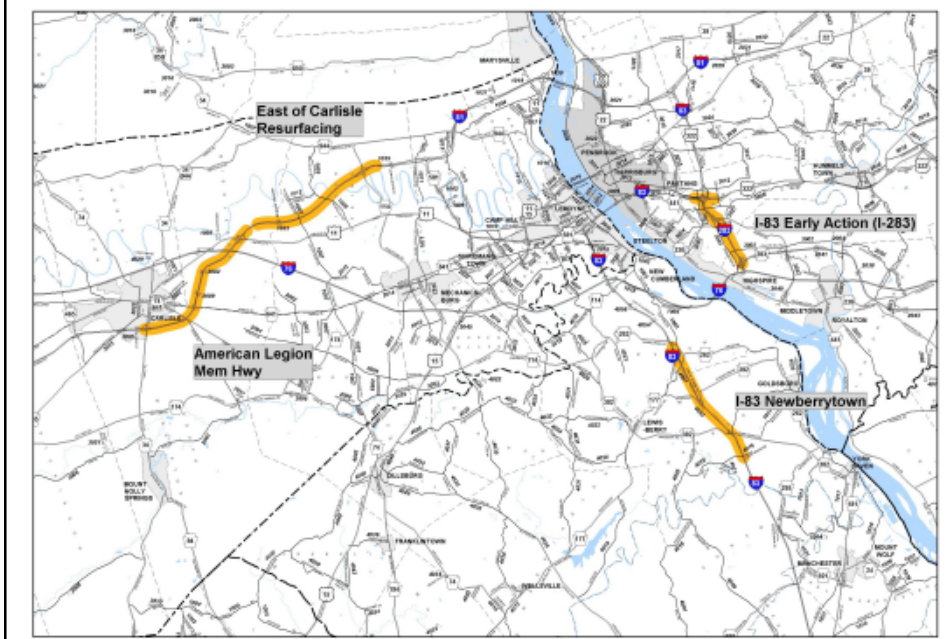
## Safety/Congestion

- Adaptive Traffic Signal Systems
- Diverging Diamond Interchanges
- Weave Lanes connecting ramps
- Low Cost Safety Projects
  - Markings, Rumble strips, signing
- Roundabouts

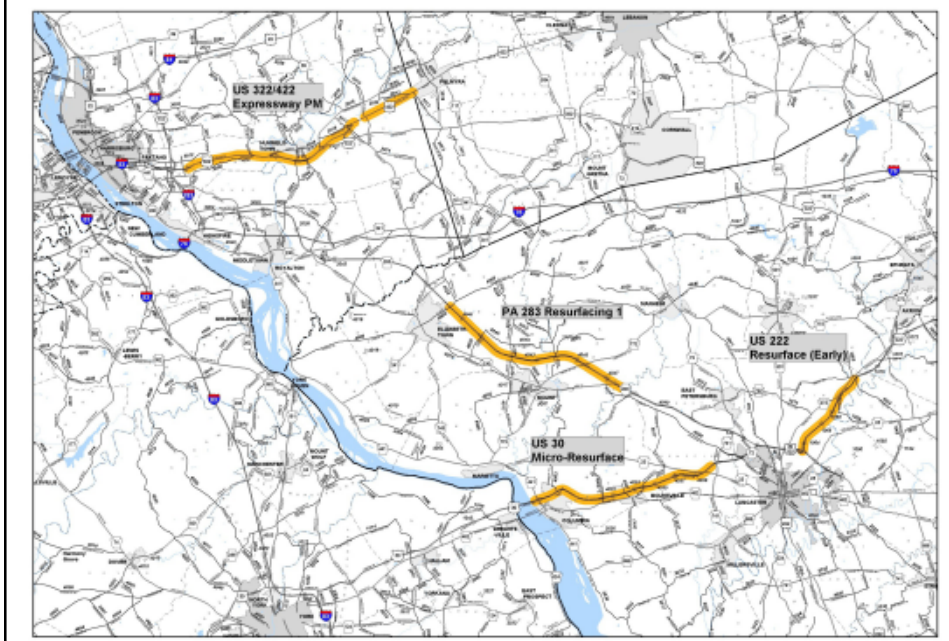
## Maintenance

- Continue Betterment Program in some form
  - \$24 Million in Federal Funds annually programmed in 8-0 in the past, this is changing to state Act 89
  - \$41 million statewide discretionary funds in ACT 89 (Department Force and Contract?)
  - Bridge Contract use Act 89
  - How to have flexibility and ability to react is a concern

### *Interstate Pavement (Early)*



### *Expressway Pavement (Early)*





### Major Bridge Preservations (Early)

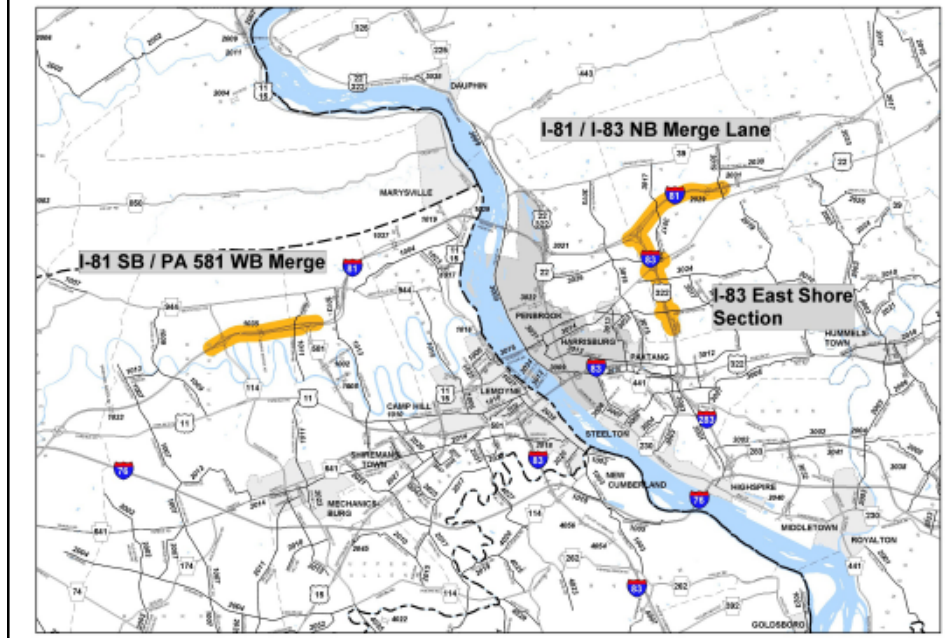
The map illustrates the early bridge preservation projects along the Clark Fork River. Key locations marked include:

- Clarks Ferry Bridge PM**: Located near Duncanville.
- I-81 River Relief Bridge**: Located near Marysville.
- Eisenhower Interchange Bridge PM**: Located near Harrisburg and Lemoyne.

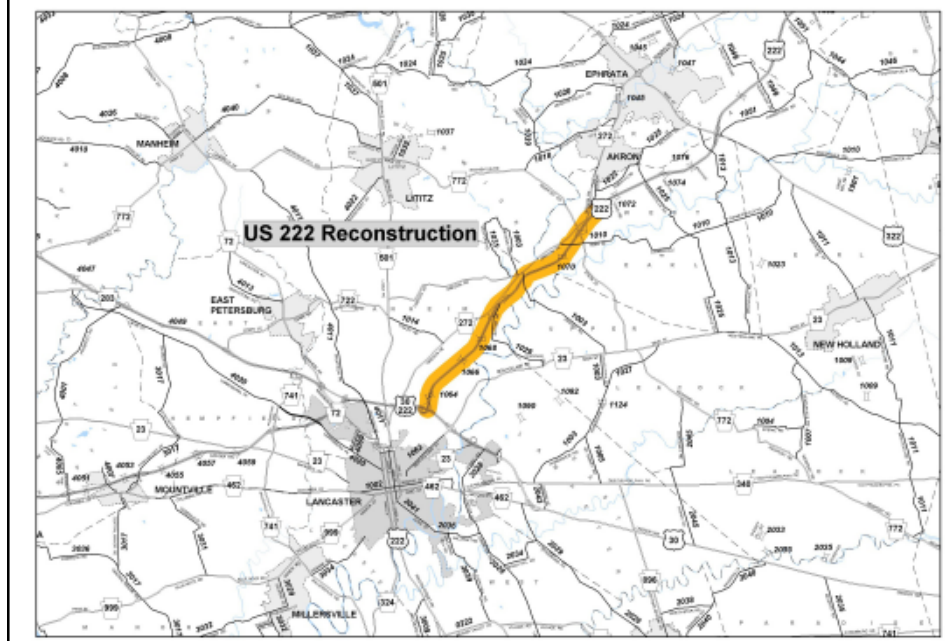
The map also shows the river's course, major highways (I-81, I-83, I-76), and surrounding towns and communities.

A detailed map of the Lehigh Valley region in Pennsylvania, showing the proposed reconstruction of PA 283. The map includes major highways such as I-476, I-78, I-81, I-94, and I-107. Key locations like Pottsville, Schuylkill County, and Lehigh County are labeled. The project area is highlighted in orange, showing a route from near Pottsville, heading south and then east towards Schuylkill County. The map also shows various local roads, water bodies, and topographical features.

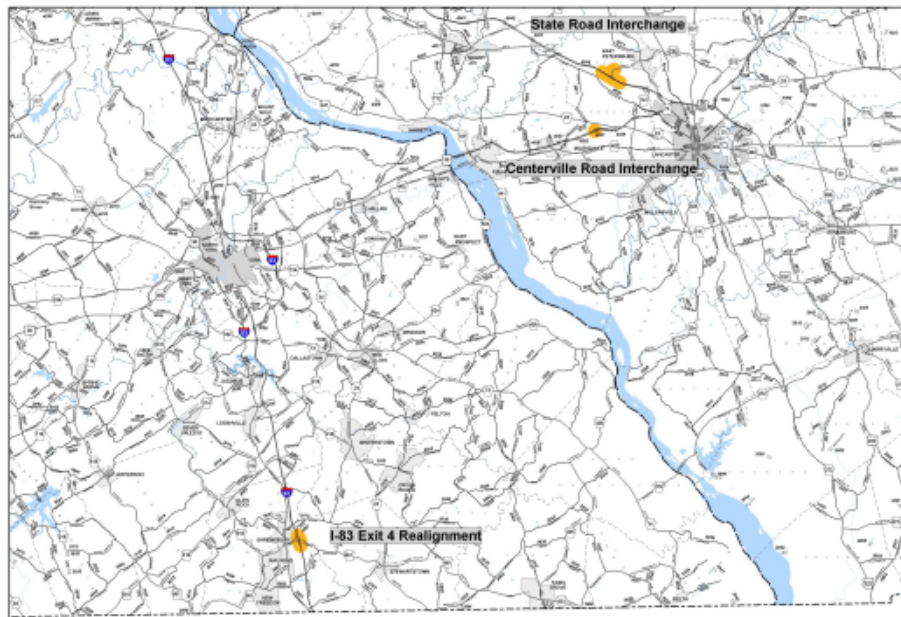
### ***Major Widening (Mid Term)***



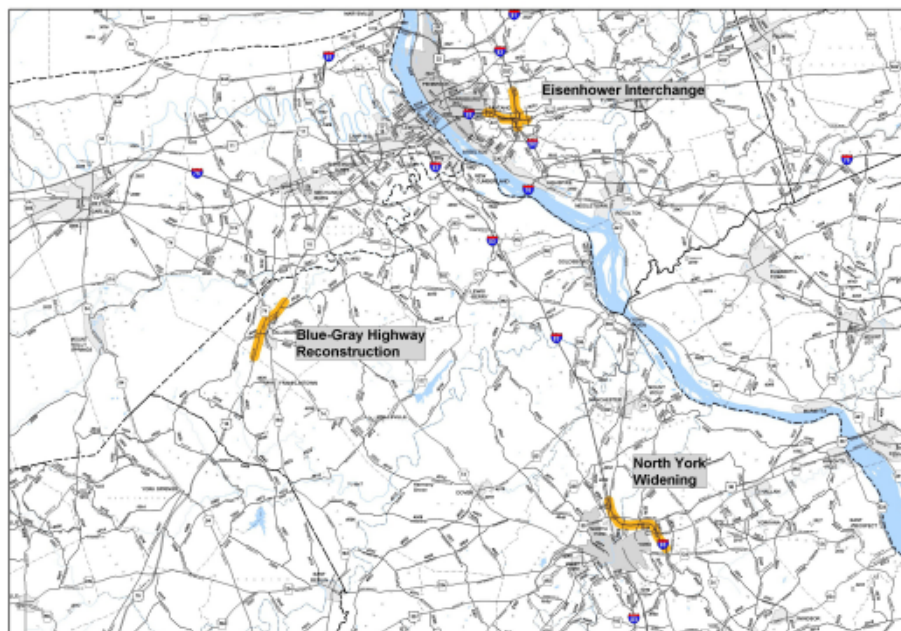
### ***Major Reconstruction (Mid Term)***



### *Interchanges (Mid Term)*

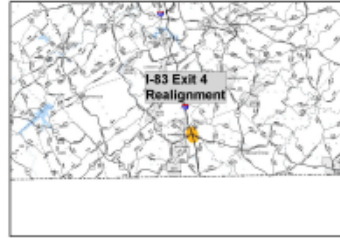
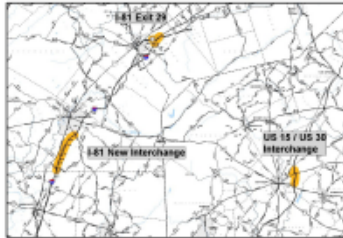


### *Major Widening (Long Term)*

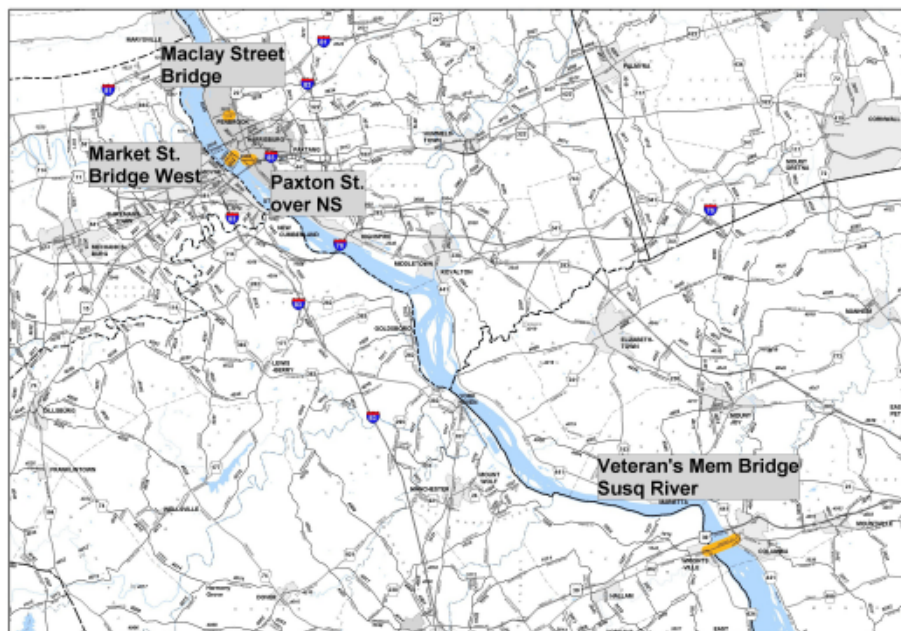




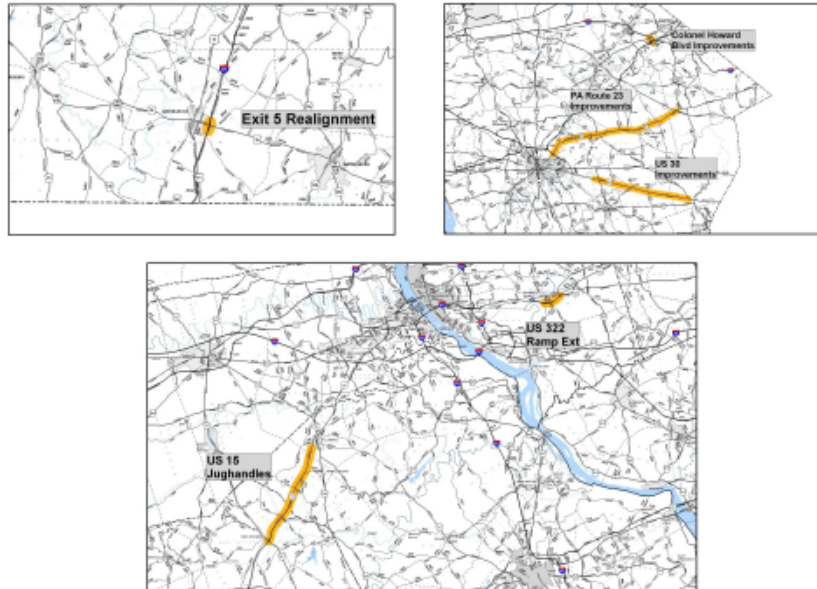
### *Interchanges (Long Term)*



### *Major Bridges (Long Term)*



### *Safety Locations*



### Bike/Pedestrians

- Cross River Study in Harrisburg
- Capital Area Greenbelt
- Advocacy Groups
- Financial and Responsibility Issues
- Trying to address issues in Linking Planning and NEPA stage

## Project Delivery in 2014

—\$195 million to bid

—Act 89 is \$62 million

- 13 bridge projects
- 14 resurfacing projects
- I-283 Dauphin County
- I-83 Newberrytown, York County
- District Bridge Contract
  - 73 bridges over 4 years

THANK YOU

?? **QUESTIONS** ??

