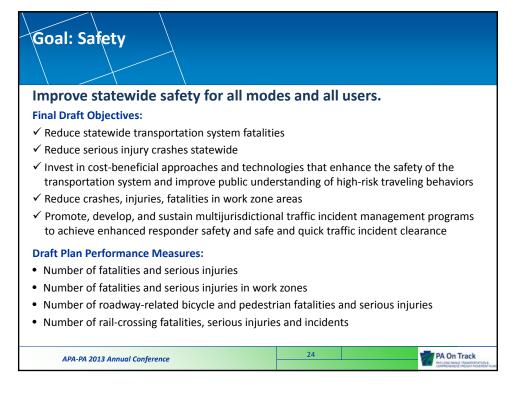




Goal: System Preservation Preserve transportation assets using sound asset management practices within the limitations of available resources. **Final Draft Objectives:** ✓ Optimize pavement conditions ✓ Reduce the number of structurally deficient bridges ✓ Encourage state-of-good repair initiatives for all modes ✓ Limit the number of load restricted bridges **Draft Plan Performance Measures:** • Percent of pavements in excellent, good, fair, and poor condition · Pavement structure index · Percent of structurally deficient bridges (by deck area) · Number of "weak bridges" and load restricted bridges · Average life of bus fleet (as a % of design life) PA On Track APA-PA 2013 Annual Conference



Goal: Personal and Freight Mobility

Expand and improve system mobility and integrate modal connections.

Final Draft Objectives:

- ✓ Improve system efficiency, trip predictability, and eliminate bottlenecks by providing modal infrastructure and technological advancements.
- ✓ Increase access to jobs/labor/transportation choices in urban, suburban, and rural communities
- ✓ Support local communities through appropriate and equitable transportation modal options and investments
- Enhance multimodal access, with a focus on seniors, persons with disabilities and other disadvantaged populations.
- ✓ Improve first and last mile intermodal access and connections
- ✓ Support pedestrian and bicycle facility development
- ✓ Improve bridge underclearances and intersection geometry

Draft Plan Performance Measures:

- Annual hours of truck/auto delays (cost of delays)
- Annual transit ridership
- Percent/number of freight bottlenecks eliminated

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Goal: Stewardship Increase efficiency through moder

Increase efficiency through modernization of assets and streamlining of processes

Final Draft Objectives:

- ✓ Ensure a high standard of quality and maximize effectiveness of agency and user investments
- ✓ Enhance the performance of the transportation system while protecting the state's natural, cultural, and historic resources
- ✓ Encourage the development and use of innovative technologies
- ✓ Support transportation investments to reflect the diversity of Pennsylvanians and their needs
- ✓ Support coordination of land use and transportation planning
- √ Support economic development
- ✓ Support technical assistance/training courses offered to municipalities
- √ Support the creation of safe and attractive walking/cycling environments in destination centers
- ✓ Support clean air initiatives
- ✓ Promote initiatives aimed at improving system operations and energy efficiency

Draft Plan Performance Measures:

- Annual savings through PennDOT Next Generation implementation
- Timely delivery of approved local projects
- Timely delivery of HOP permits

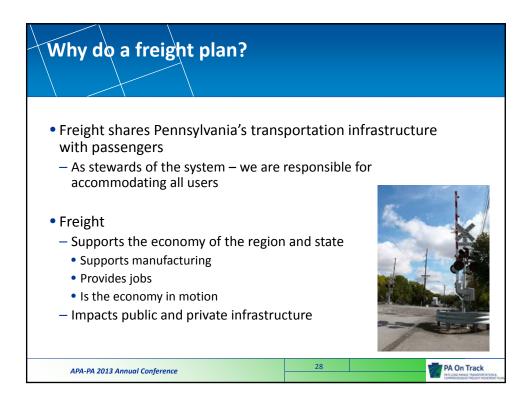
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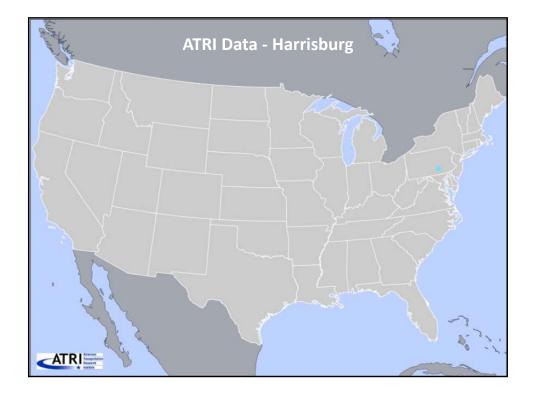
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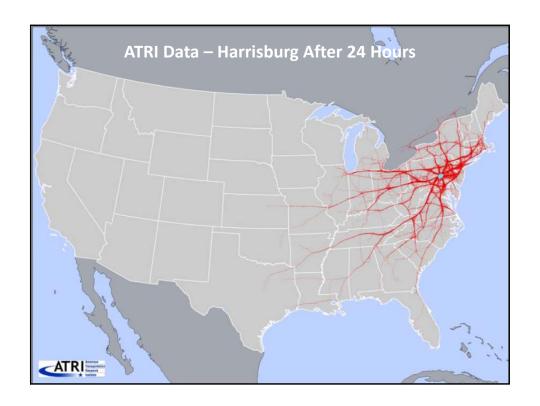
PA'S LONG RANGE TRANSPORTATION
COMPREHENSIVE PRESCRIT MOVEM

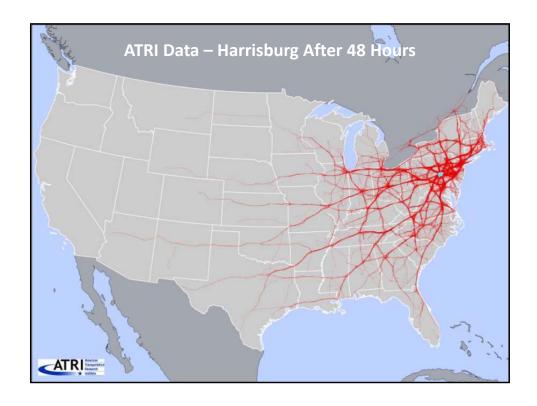


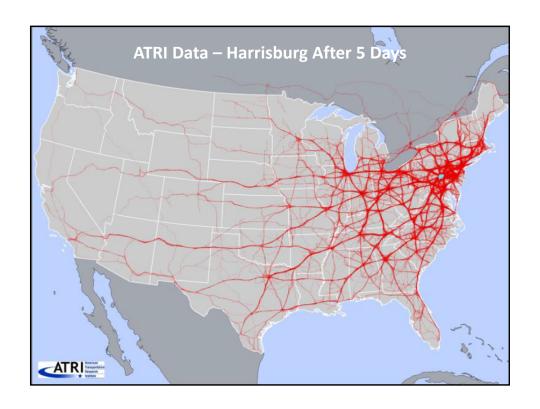


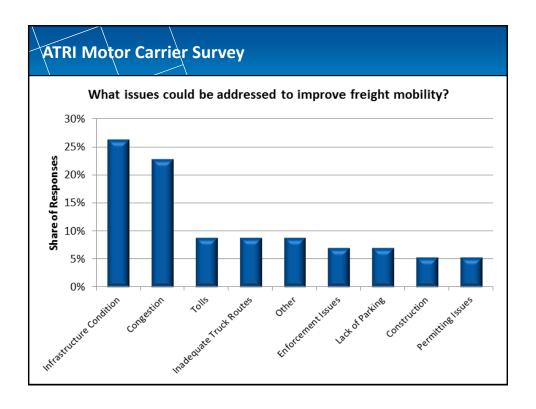


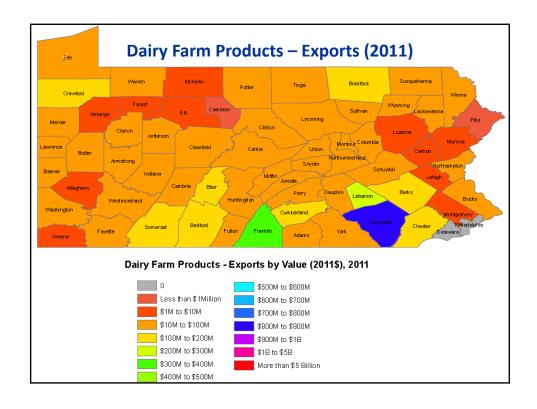




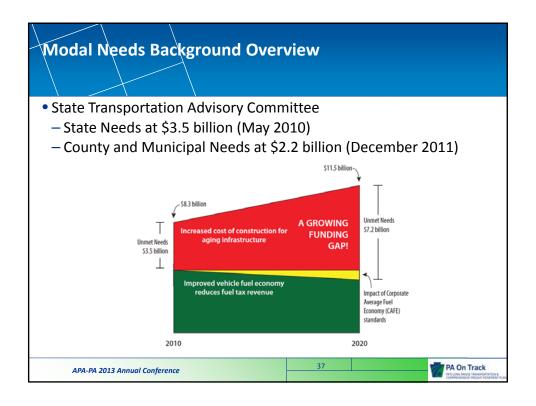


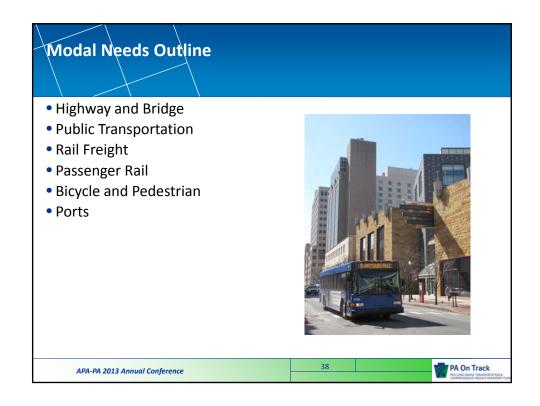


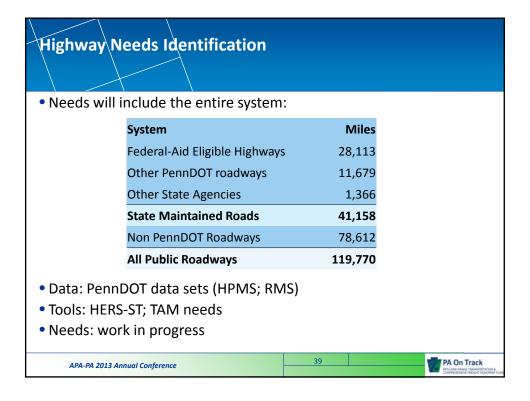


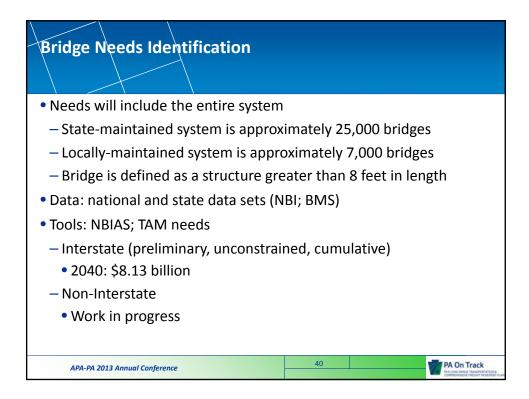


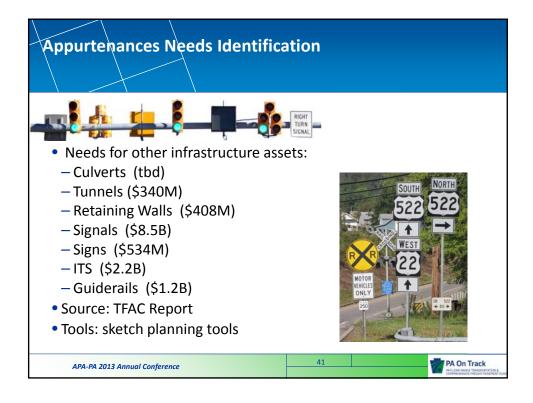


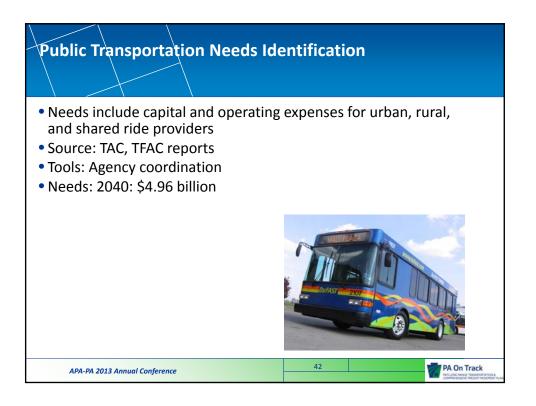












Rail Freight Class | Railroad Needs Identification

- Needs include all four Class 1 railroads (e.g., CN, CPR, CSX, NS, etc.)
- Source: Intercity Passenger Rail and Rail Freight System Plan for 2035
- Tools: Agency coordination
- Needs: 2040: \$1.5 billion
 - Network efficiency improvements
 - Improved terminals or facilities
 - Line upgrade needs
 - Safety enhancement improvements



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Rail Freight Class (I and III Railroad Needs

- Needs include all Class II and III railroads (e.g., regional, short lines)
- Source: Intercity Passenger Rail and Rail Freight System Plan for 2035
- Tools: Agency coordination
- Needs: 2040: \$315 million
 - Rail Line Upgrade and/or Rehabilitation
 - Terminal or Yard Construction/Expansion
 - Safety Enhancement Improvements
 - Green Locomotive Retrofit



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Rail Freight Public Agency and Private Industry Needs Identification

- Needs include industrial sites/private industry
- Source: Intercity Passenger Rail and Rail Freight System Plan for 2035
- Tools: Agency coordination
- Needs: 2040: \$91 million
 - Public agency capital needs (port authorities)
 - Private industry needs (rail-served industries/businesses)

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Passenger Rail Needs Identification

Needs include Amtrak's Keystone and Pennsylvanian service

Source: Amtrak website; PennDOT coordination

Needs: 2040: \$463 million

- Station improvements \$242.1 million
- Interlockings \$220.0 million
- Operating assistance \$15 million



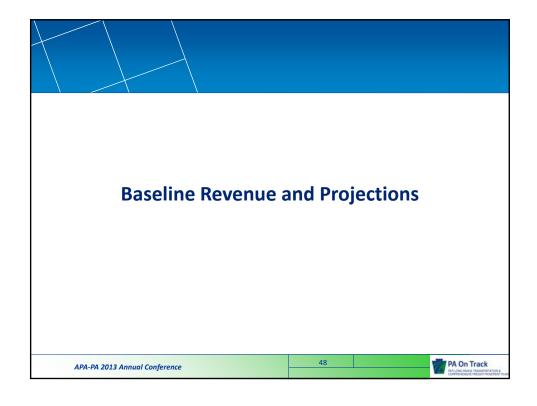
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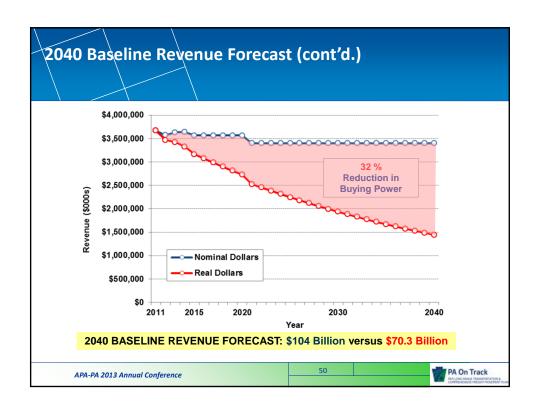
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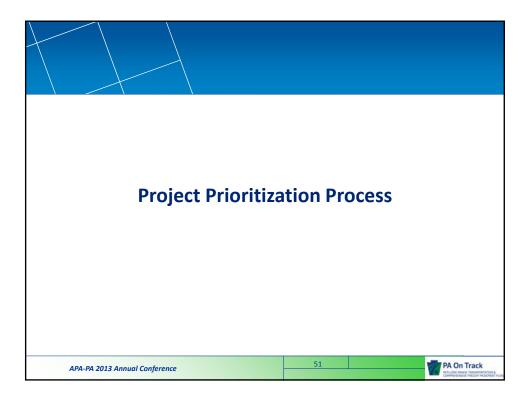
INCLUDE RANGE TRANSPORTATION

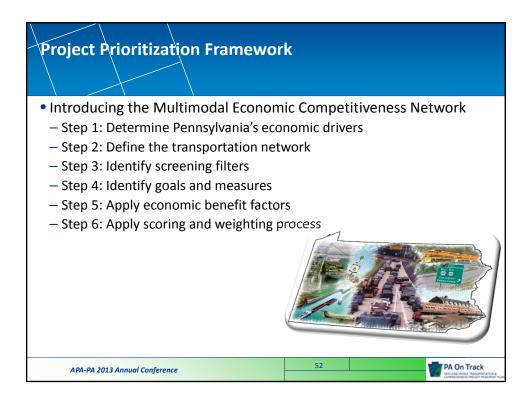
Needs include ADA curb ramps; education/guidance/publications; Incorporating bike/ped improvements in highway design, etc. Source: Survey of MPOs/RPOs/districts, planning partners, Philadelphia/Pittsburgh - "How much funding do you need on an annual basis to support the development of pedestrian and bicycle programs and facilities?" Needs: 2040: \$405 million - Includes funded and unfunded projects



2040 Baseline Revenue Forecast • Provides an estimate of federal and state revenues expected to be available for capital improvements to 2040 No new revenue included in estimate Projection of baseline revenues by mode Highway - Bridge - Transit - Rail Aviation Based on business as usual, conservative estimating Used to compare against modal needs estimates to identify likely funding gap Converted to "real" dollars to account for inflation PA On Track APA-PA 2013 Annual Conference







Project Prioritization Framework Multimodal Economic Competitiveness Network

- Critical multimodal transportation corridors and facilities connecting major economic drivers and regions to centers of commerce in PA and national and global markets
- Network includes interstate highways, major highway facilities, intermodal, freight rail, public transit, airports, and ports
- Failure within this network would have serious impacts on movement of goods and people, state's economy, and jobs

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Project Prioritization Framework Multimodal Economic Competitiveness Network

Step 1: Identify Economic Drivers

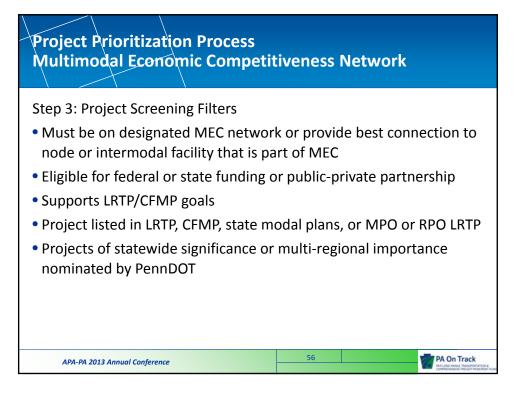
- Cities with largest population in 10 PREP regions
- Major regional tourist destinations
- Commodity network for top agricultural products by market value
- Primary highway and freight rail corridors connecting oil and gas production to strategic destination points
- Concentrations of targeted industries by employment
- Concentrations of manufacturing exports

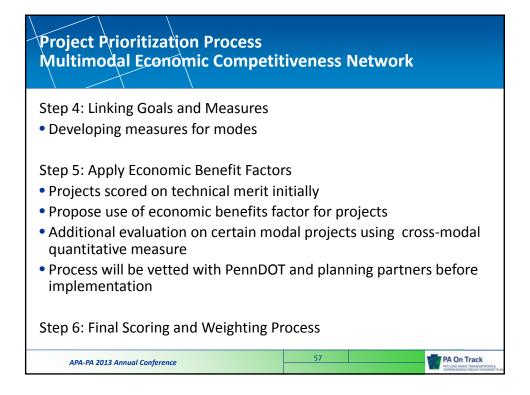
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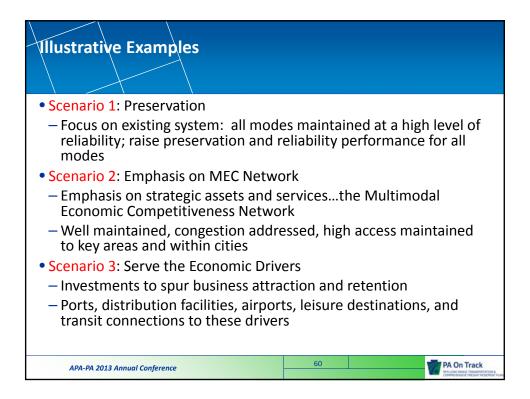
Project Prioritization Process Multimodal Economic Competitiveness Network Step 2: Defining the Multimodal Economic Competitiveness Network Network designation criteria for each mode - Highways - Airports - Intermodal Facilities - Public Transit - Ports and Waterways - Freight Rail







Alternative Investment Scenarios Goal = cohesive investment strategy Investment Scenarios combine essential elements Goals & objectives Needs Funding Priorities Alternative Investment Scenarios — aligned with TFAC Based on available funding Menu of strategic investment choices Different emphasis (e.g., system preservation, etc.) Portray alternatives/explain outcomes Understand consequences



Scenario 4: Multi-modal System Expansion Maintain and expand highway, transit, rail and non-motorized system linking cities and towns Scenario 5: Balanced Distribution Spread dollars across existing functional elements and across expansion, preservation and modernization

