

# **PENNDOT Next Generation**

**Area V 2013 Annual Meeting**

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# PennDOT Next Generation

## Mission Statement

*Engage PennDOT Management and Staff to undertake a proactive approach for refreshing and advancing business practices and technology*

**Goal #1** – Achieve Savings throughout the Entire Organization

**Goal #2** – Integrate the practice of modernizing processes, maximizing organizational capacity, and reviewing and refreshing policies

# What is PennDOT Next Generation?

- A fresh review of PennDOT's policies, processes, procedures, and programs.
- PennDOT Next Generation will:
  - Examine our functions and create efficiencies
  - Refresh and advance business practices and technology
  - Create a culture of continuous improvement

# PennDOT Next Generation

## Why Now?

- **Better use of taxpayer money**
- **Become a better business partner**
- **Be a better employer and retain quality employees**
- **Be a national leader in research and new products**
- **Improve the public's confidence**

# PennDOT Next Generation

## What are the Components?

- **PennDOT Next Generation Projects**
- **Mapping the Future**
- **Modernization Initiatives**
- **State Transportation Innovation Council**
- **IdeaLink**

# PennDOT Next Generation Next Generation Projects

- **Began in February 2012 with four pilot projects:**
  - Bridge Inspection
  - Right-of-Way
  - Highway Occupancy Permits
  - Safety Culture
- **\$7.6 million in projected annual savings**

# Bridge Inspection Pilot

# Bridge Inspection Pilot Project Description

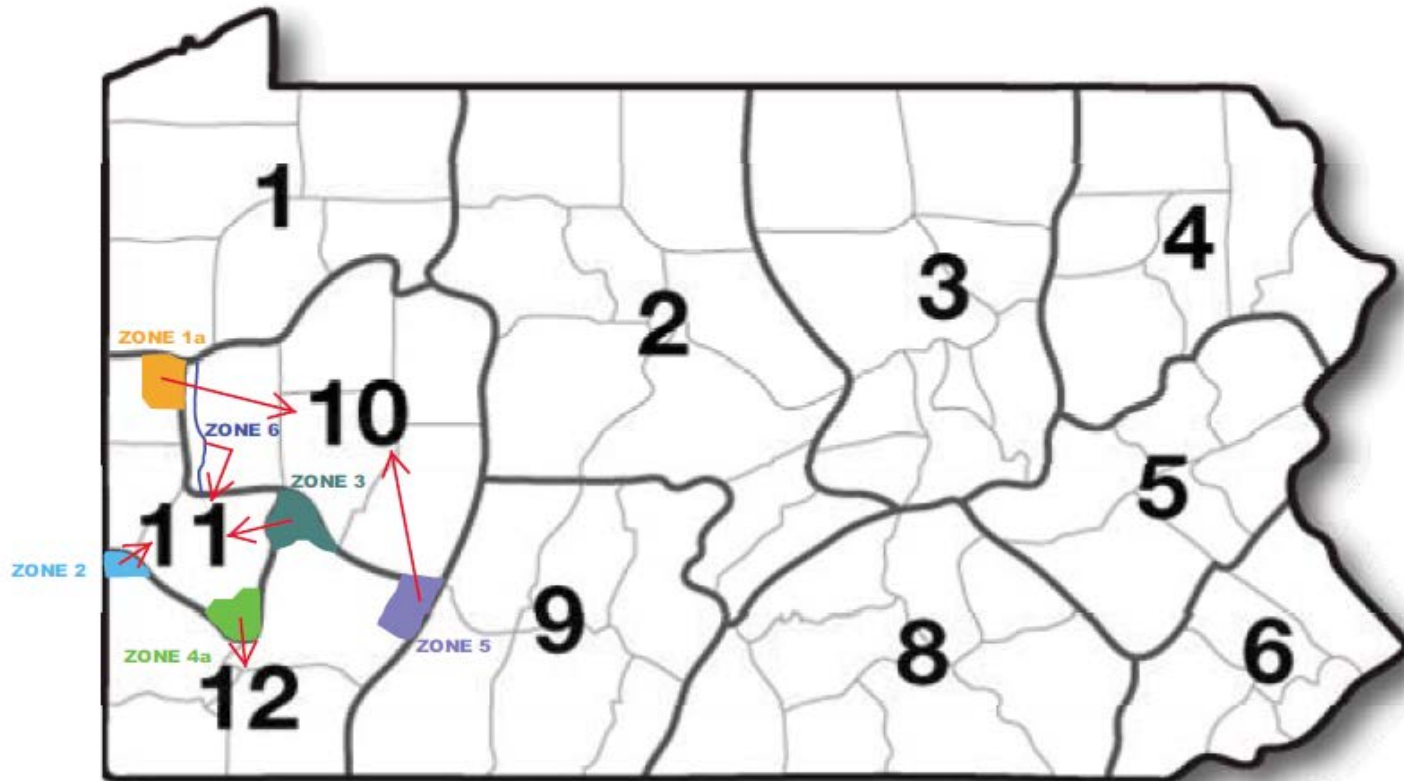
- **Pennsylvania ranks 3<sup>rd</sup> in the nation for number of bridges in FHWA's National Bridge Inventory (NBI)**
- **Identify opportunities to balance workloads across districts**
- **Streamline operations:**
  - **Field Inspections**
  - **Load Rating Analysis**
  - **APRAS Manual Reviews**



# Bridge Inspection Pilot Status

- **Increased inspection frequency for small “good” condition bridges**
  - From 2 years to 4 years
- **Implemented regional review teams for Load re-ratings**
  - West, Central, East
- **Improved Automated Permit Routing and Analysis System (APRAS)**
  - More efficient routing
  - Shared reviews

# Bridge Inspection Pilot Ongoing Progress



## KEY

- ZONE 1a - Northeast Lawrence County inspected by District 10-0**
- ZONE 2 - Northern Washington County inspected by District 11-0**
- ZONE 3 - Northwest Westmoreland County inspected by District 11-0**
- ZONE 4a - Southern Allegheny County inspected by District 12-0**
- ZONE 5 - Eastern Westmoreland County inspected by District 10-0**
- ZONE 6 - Structures carrying I-79 in Butler County inspected by District 11-0**

# Bridge Inspection Pilot Benefits

- **Equalize Workload between Districts**
- **Time and Cost Savings**
- **Expertise Sharing**
- **Improved Consistency**

**PROJECTED ANNUAL SAVINGS = \$540,000**

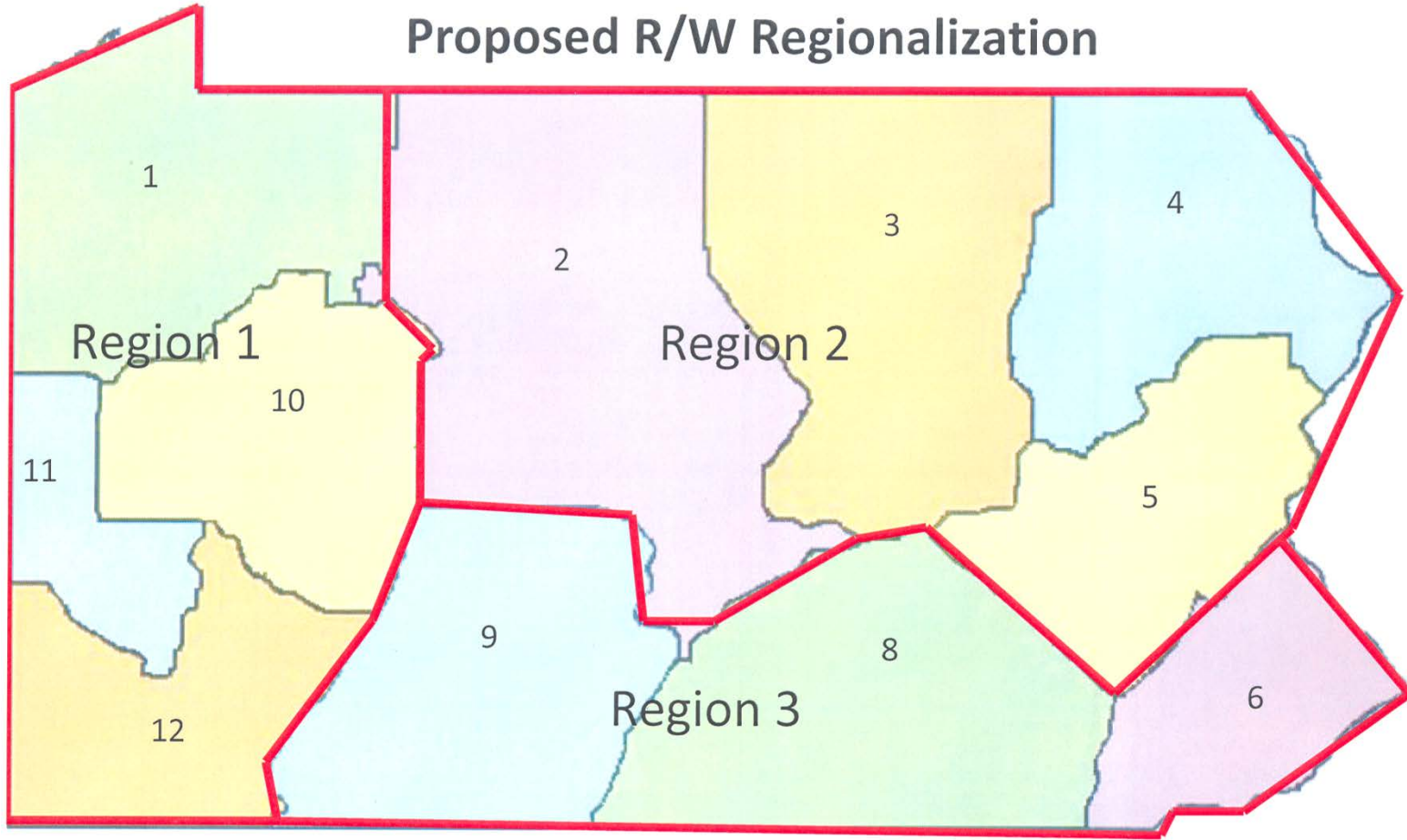
# Right-of-Way Pilot

# Right-of-Way Pilot Project Description

- **Districts currently manage ROW locally**
  - Staffing levels vary
  - Appraiser availability inconsistent
- **Examine processes, policies, and organization to streamline:**
  - Appraisals and acquisitions
  - Outdoor Advertising
  - Property management

# Right-of-Way Pilot Management Structure

Proposed R/W Regionalization



# Right-of-Way Pilot Status

- **Implemented**
  - **Outdoor Advertising surveillance cycle-time changed from annual to biennial**
  - **Eliminated redundant reviews**
  - **Regionalized work functions**
- **Additional ideas underway, including**
  - **Paperless submissions**
  - **Reduce Treasury payment from 30 to 15 days**

# Right-of-Way Pilot Benefits

- Streamlined communications
- Resource sharing
- Knowledge sharing
- Improved efficiency

**PROJECTED ANNUAL SAVINGS = \$1.2 Million**



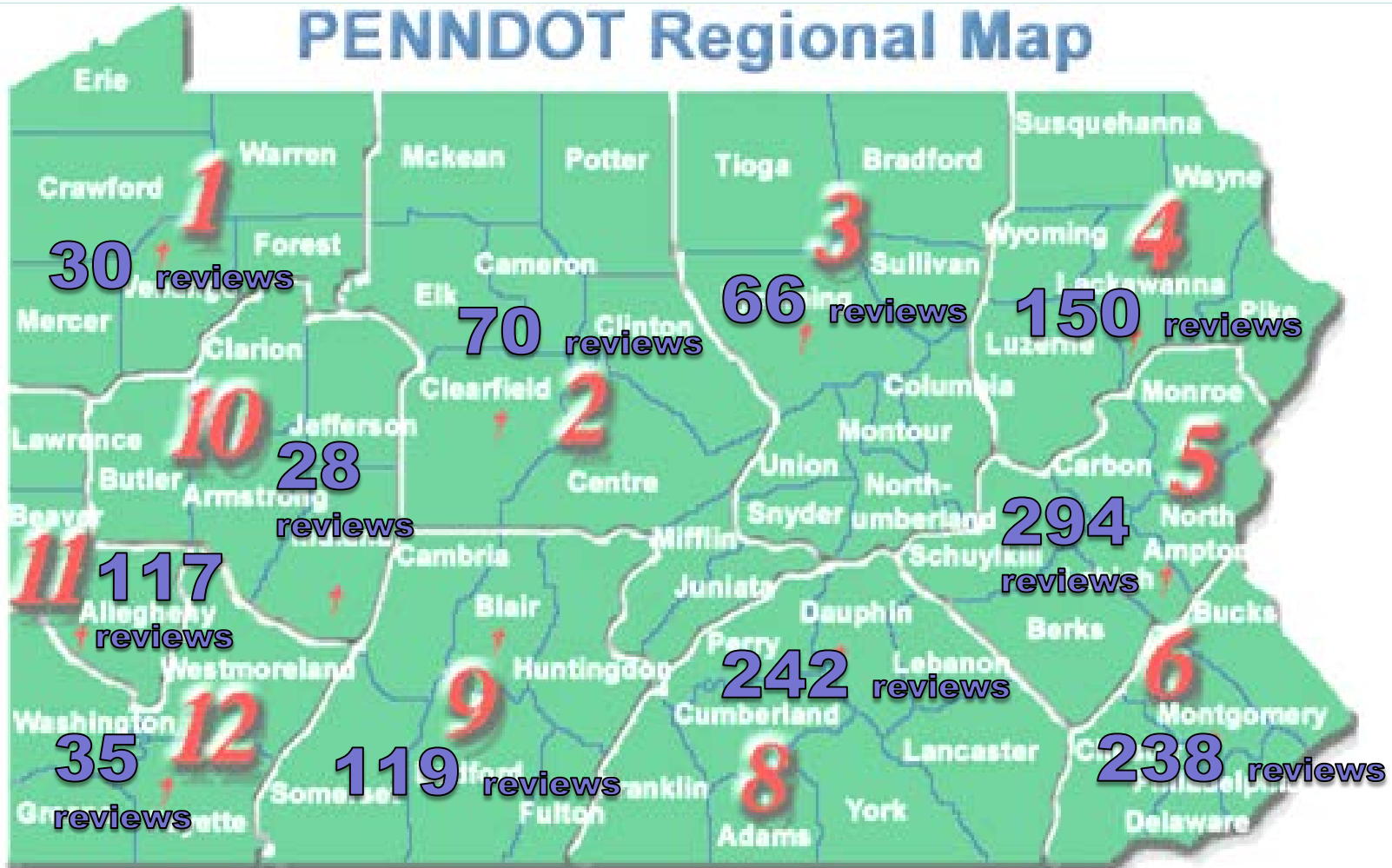
# Highway Occupancy Permit (HOP) Pilot

# HOP Pilot Project Description

- **All functions are at the district level**
  - Inconsistent workloads and use of Consultants
  - Approx. 1,400 reviews per year
- **Identify opportunities to streamline permit review process**
- **Regionalize reviews of transportation impact studies and assessments**

# HOP Pilot

## Projected Annual TIS/TIA Reviews



Based on District input and District 8 consultant TIS review contract data.

# HOP Pilot Status

- **Near-term**
  - Forward TIS / TIA to Central Office for review via ePermitting system (EPS)
- **Long-term**
  - Develop process to distribute reviews across District boundaries as necessary
  - Optimal regional structure being evaluated

# HOP Pilot Benefits

- **HOP review times were reduced from 45 days to 10 days**
- **Review consistency**
  - Developer expectations consistent statewide
  - Single applicant point of contact
- **Cost/time savings**
  - Reduction/elimination of consultant costs
  - Quicker review time turnarounds

**PROJECTED ANNUAL SAVINGS : \$1.9 Million**

# Safety Culture Change Pilot

# Safety Culture Change Pilot Project Description

- Change the safety culture from a priority to a Core Value
- Potential to significantly reduce costs and improve employee well-being
- Current PennDOT workers compensation claims: \$7.6 million annually

# Safety Culture Change Pilot Status

- **Safety culture survey assessment : over 8,000 participants**
- **Mandatory safety culture training was developed**
  - Pilots in Districts 5 and 12
- **Updating safety documentation**



# Safety Culture Change Pilot Benefits

- **Creates a culture where safety is a core value, not just a priority**

**PROJECETED ANNUAL SAVINGS : \$4 million**

# Other Next Generation Projects

**Based on the success of the four pilots....**

- **30 new Next Generation projects underway**

# Current Project Areas

- Geotechnical
- Surveying
- Winter Services
- Inter-agency Maintenance
- CADD Support
- Materials Testing
- GIS
- Public Transit
- Grant Management

# Other PNG Accomplishments

- Relocating the Photogrammetry and Survey Section from a rental facility saves \$114,000 annually
- CADD replacement plotters and scanning equipment will save \$1,000,000 over the next decade.

# Construction QA

- **Share construction inspectors and managers across PennDOT districts to balance workload**
- **Streamline data collection for construction projects**
  - **Sharepoint and Mobile computing**
- **Reduce costs without sacrificing quality**
- **Projected annual savings up to \$20 million**

# Materials Testing

- **Simplify the testing, approval, and certification process**
- **Regional testing labs**
- **Use of concrete acceptance maturity meter**
- **Revise/eliminate material forms and data collection**
- **Projected annual savings up to \$1.3 million**

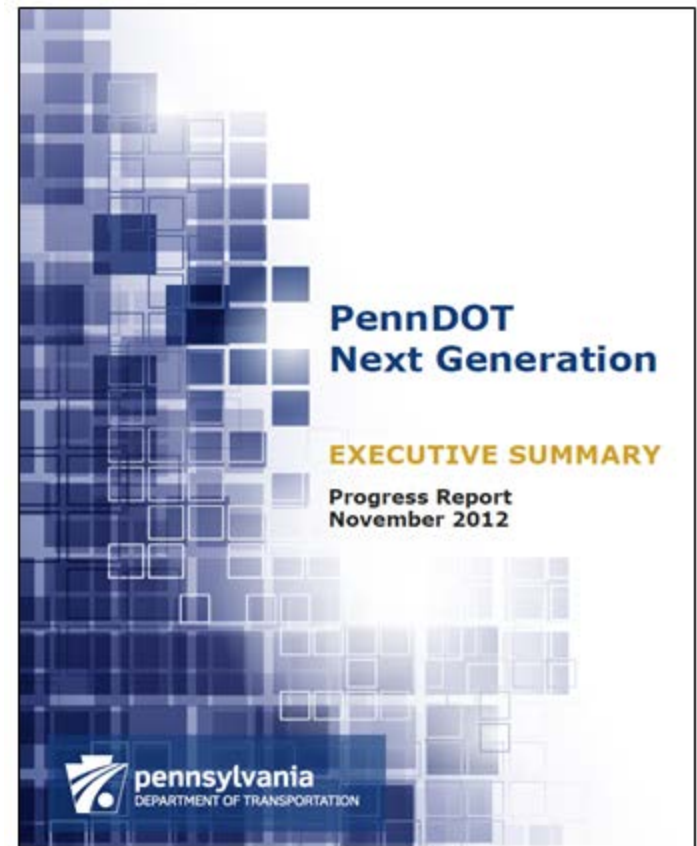
# Winter Services

- **Share resources and equipment**
- **District 4-0 Pilot for routed rentals**
- **More effective use of materials and snow plow routes**
- **Maintain roadway conditions while saving money and reducing overtime costs**
- **Projected annual savings up to \$10 million or more**

# PennDOT Next Generation

- **Executive Summary**
  - November 2012
  - Status of all five Next Generation components

[www.ModernDOT.pa.gov](http://www.ModernDOT.pa.gov)

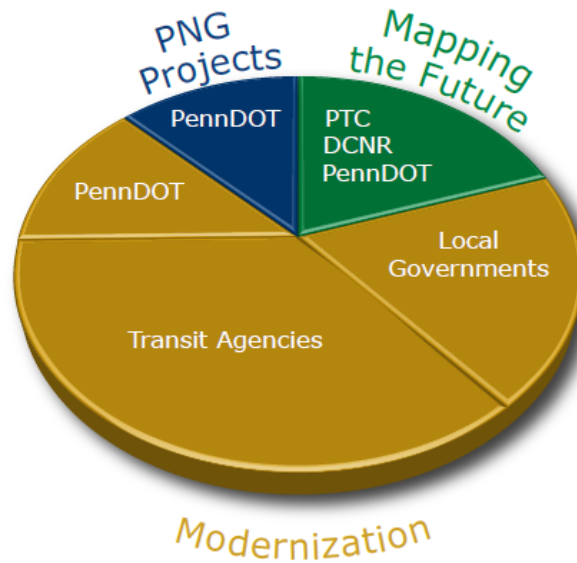




# PennDOT Next Generation



## Current Cost Savings



**Total Projected Annual Savings:  
\$50 - 75 million**

# Summary

- **\$50 to \$70 million potential total savings so far**
- **More than \$40 million in potential savings from Next Generation Projects**
- **Next Generation Project Savings = Additional capacity for contract work**

# Thank you

## Comments, questions, or ideas?

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