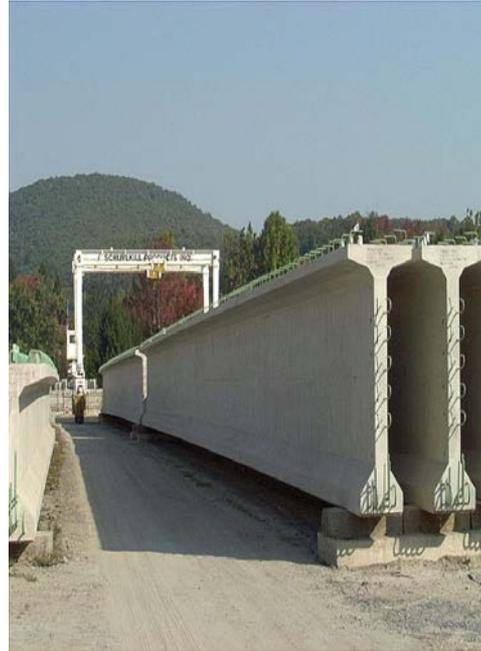


PennDOT's Paperless System eQMS - Electronic Quality Management System for the Quality Assurance Program For Structural Materials Fabrication



Why Quality Assurance Inspection?



PennDOT's Quality Assurance Program For Structural Material Fabrication

Quality Assurance of Structural Materials

- Metals and Timber Fabrication
- Precast and Prestressed Concrete Fabrication
- Coatings

PennDOT & P3's Quality Assurance Program Review of BOX CULVERT Fabrication



PennDOT's Paperless System

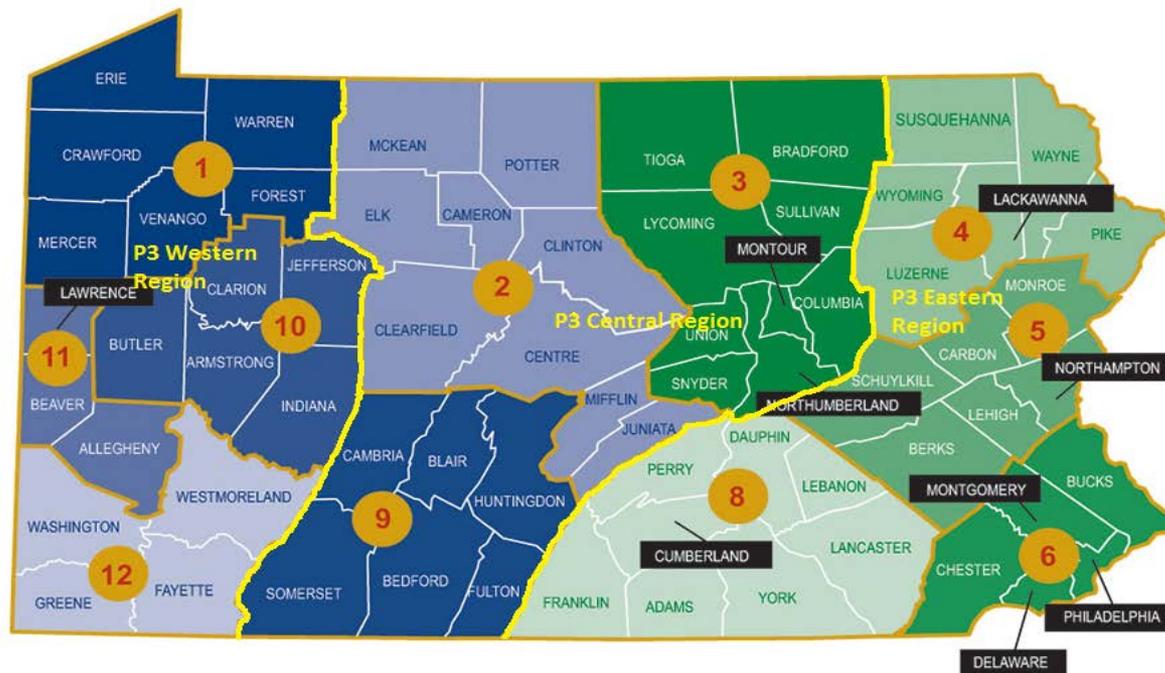
Why?

Hardcopy paper records to digital records

Storage-----retrieval

PennDOT's Quality Assurance Program For Structural Material Fabrication

P3 AND PENNDOT PROJECTS



PennDOT's Quality Assurance Program For Structural Material Fabrication

Quality Assurance

The Beginning

Why Inspection? Why Records?

It is the Law.

Federal funding requires you to have a quality assurance program.

CFR 23

3 levels:

QC

QA

Independent QA

PennDOT's Quality Assurance Program For Structural Material Fabrication

- Federal Regulation CFR 23, Part 637 Section 637.207 Quality Assurance Program-
- Two Parts
 - Acceptance Program
 - Independent Assurance Program



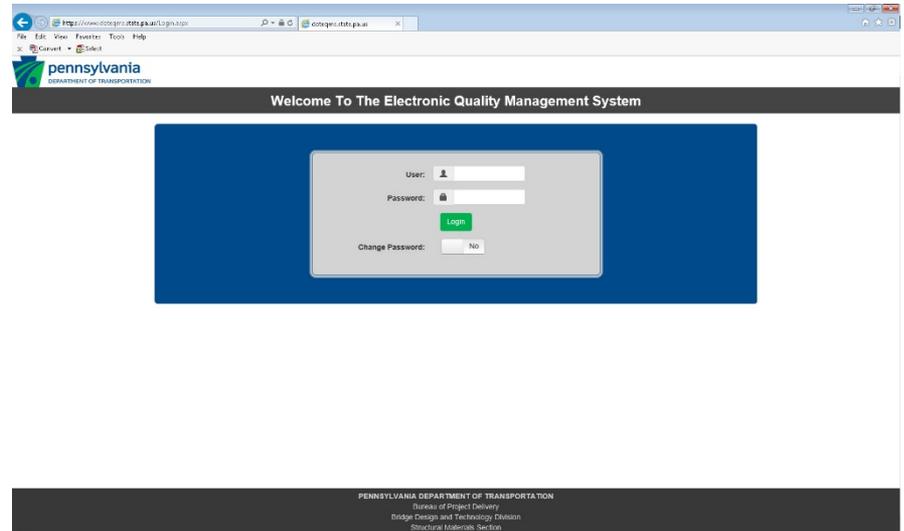
PennDOT's Quality Assurance Program For Structural Material Fabrication

- Pennsylvania State Regulation:
 - Pennsylvania Statutes
 - Title 36. Highways and Bridges
 - Chapter 1A State Highway Law
 - » ARTICLE IV. Construction, Improvement, Maintenance and Repair of State Highways
 - » 36 P.S. Part 670
 - » Section 670.401: Duty on Department of Highways



PennDOT's eQMS - Electronic Quality Management System for the Quality Assurance Program For Structural Materials Fabrication

- How did we get here?
- Why?
- What are the requirements?



Guardian Of the QA Program

P.E., CWI, PCI-3

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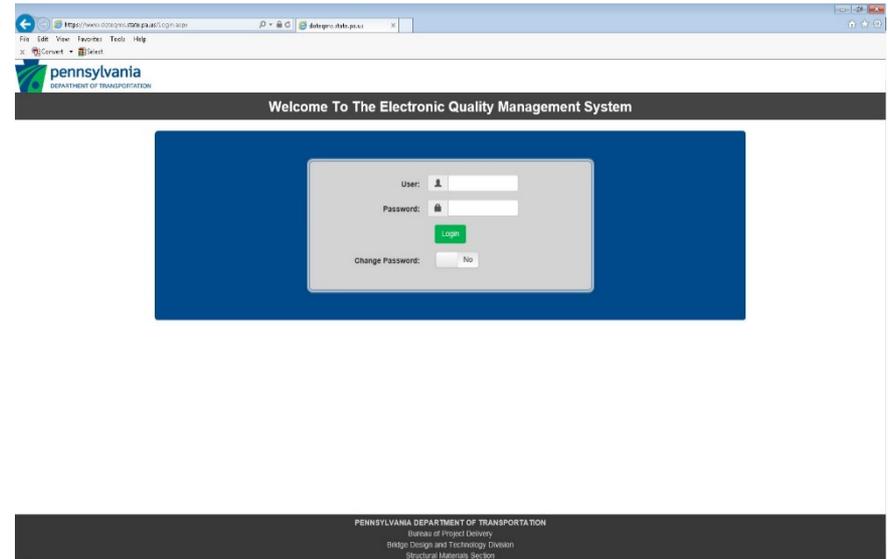
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PennDOT's **Internal** Paperless System eQMS - Electronic Quality Management System for the Quality Assurance Program For Bridge Fabrication

Managed by Structural Material
Section (SMS)

Pub 135- Metals Fabrication

Pub 145- Concrete/Prestressed



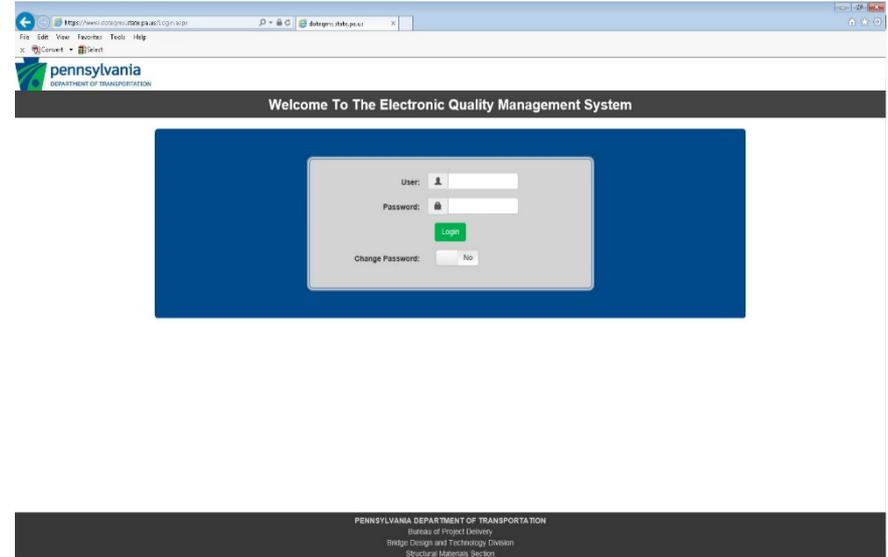
In February 2004, the Department introduced a comprehensive fabrication inspection documentation application, hereafter referred to as the Electronic Quality Management System (EQMS). This inspection manual has been revised around the premise that the inspection reporting process is now completely electronic. The intent of this manual is not to provide details or training for using the EQMS application; that information is available through separate training guides and help menus within the application.

PennDOT's **Internal** Paperless System eQMS - Electronic Quality Management System for the Quality Assurance Program For Structural Material Fabrication

Managed by Structural Material
Section

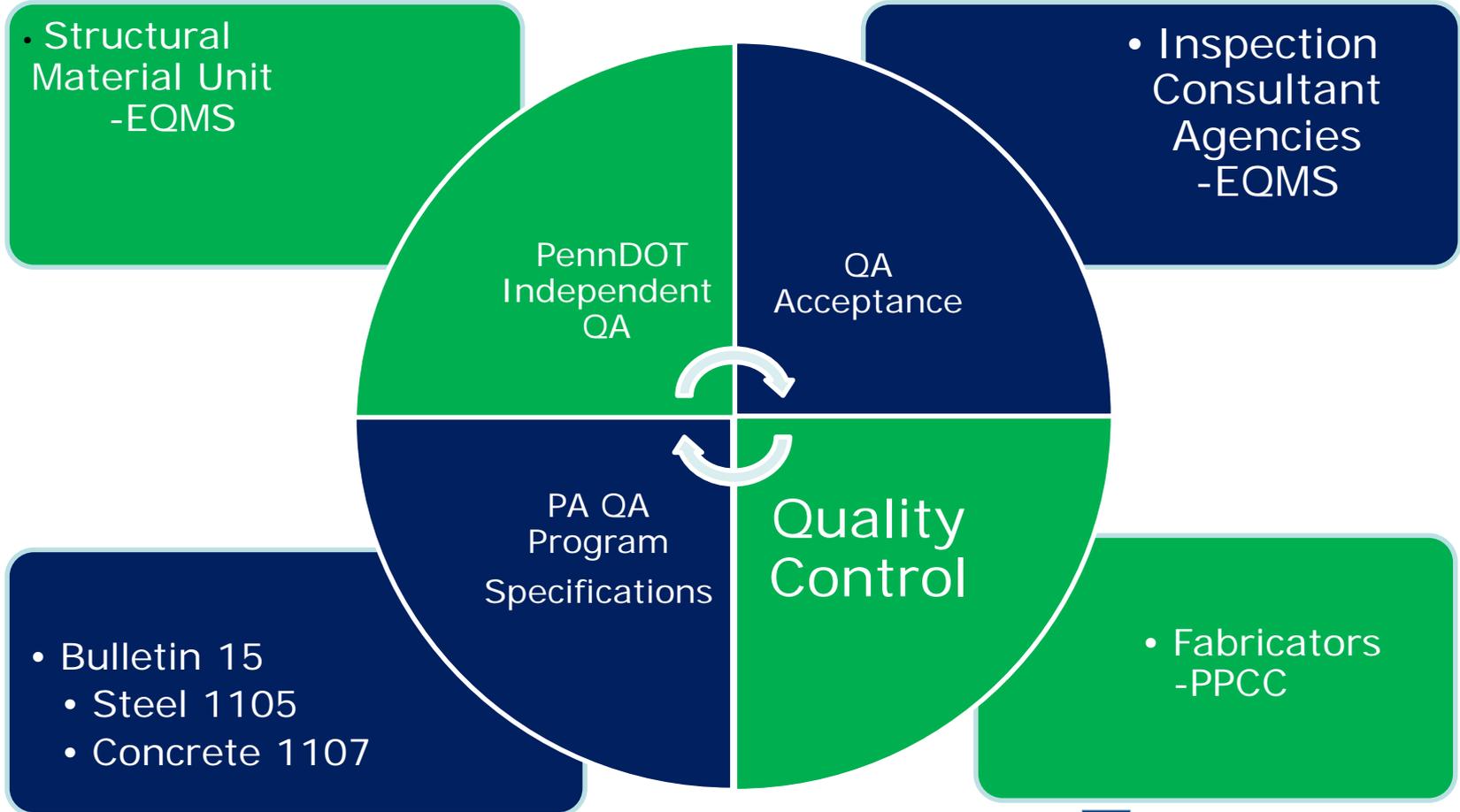
Pub 135- Fabrication

Pub 145- Concrete/Prestressed

A screenshot of a web browser displaying the login page for the Electronic Quality Management System (eQMS). The browser's address bar shows the URL "https://www.dot.state.pa.us/eqms/login.asp". The page features the Pennsylvania Department of Transportation logo and the text "Welcome To The Electronic Quality Management System". The login form is centered on a blue background and includes fields for "User:" and "Password:", a green "Login" button, and a "Change Password:" section with a "No" button. At the bottom of the page, there is a footer with the text "PENNSYLVANIA DEPARTMENT OF TRANSPORTATION", "Bureau of Project Delivery", "Bridge Design and Technology Division", and "Structural Materials Section".

All inspection activities are required to be recorded electronically using the latest version of EQMS "Electronic Quality Management System" Provided by the Department. New inspectors are required to receive training from the department unless otherwise approved by the Chief Structural Materials Engineer. New users are required to sign the "AGREEMENT TO AUTHORIZE ELECTRONIC ACCESS TO EQMS" prior to using EQMS

PennDOT's Quality Assurance Program For Structural Material Fabrication



PennDOT's External Paperless System Quality Assurance Program

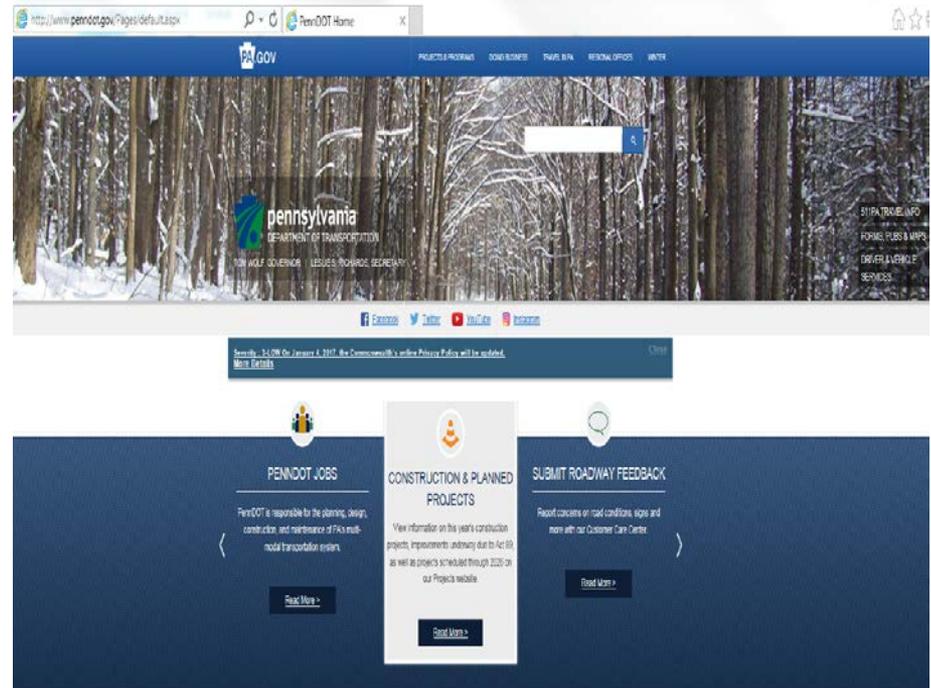
The screenshot shows the PennDOT website homepage. At the top, there is a navigation bar with the PA.GOV logo and links for PROJECTS & PROGRAMS, DOING BUSINESS, TRAVEL IN PA, REGIONAL OFFICES, and WINTER. Below this is a large banner image of a snowy forest. The banner contains the Pennsylvania Department of Transportation logo, the text "pennsylvania DEPARTMENT OF TRANSPORTATION", and the names of the Governor (Tom Wolf) and Secretary (Leslie S. Richards). A search bar is positioned in the upper right of the banner. To the right of the banner, there are links for "511PA TRAVEL INFO", "FORMS, PUBS & MAPS", and "DRIVER & VEHICLE SERVICES". Below the banner is a social media bar with icons for Facebook, Twitter, YouTube, and Instagram. A notification banner at the bottom of the banner area states: "Severity : 3-LOW On January 4, 2017, the Commonwealth's online Privacy Policy will be updated. More Details". The main content area features three columns: 1. "PENNDOT JOBS" with a description of PennDOT's role in planning, design, construction, and maintenance of PA's multi-modal transportation system, and a "Read More >" button. 2. "CONSTRUCTION & PLANNED PROJECTS" with information about this year's construction projects, improvements underway due to Act 89, and projects scheduled through 2026, and a "Read More >" button. 3. "SUBMIT ROADWAY FEEDBACK" with a prompt to report concerns on road conditions, signs, and more with the Customer Care Center, and a "Read More >" button.

Penndot.gov

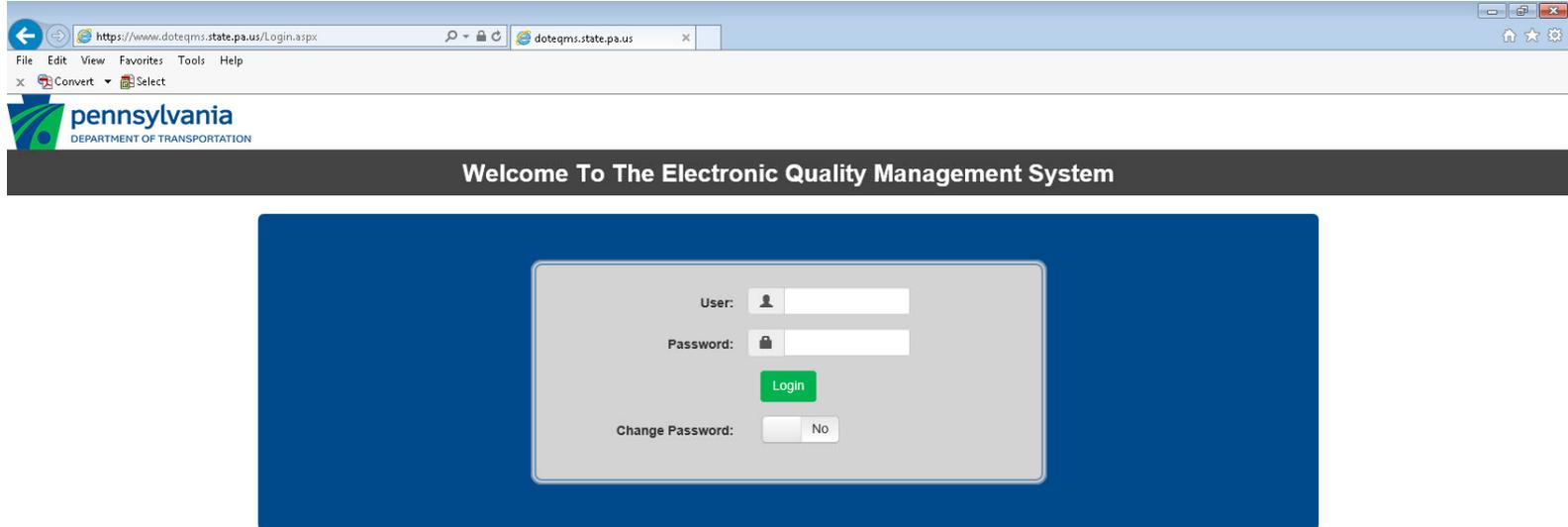
PennDOT's External Paperless System Quality Assurance Program

Access to:

- PPCC-share point
- Electronic Publications
 - Bulletin 15 (ECAMMS)
 - Pub 408 Construction Specifications
 - BD Standards
 - BC Standards
- ECMS
 - Project information by ECMS #
 - SMS Engineering agreements
 - invoicing



PennDOT's **Internal** Paperless System eQMS - Electronic Quality Management System for the Quality Assurance Program For Structural Material Fabrication



www.doteqms.state.pa.us

Products and Manufacturing Processes

- Steel Girders
- Sign, traffic and light Structures
- Prestressed Beams
- Box Culverts
- General Precast Items
- Specialty Items
- Reinforced Concrete Pipe

General Precast Items

- Inlet Boxes
- Inlet Tops
- Endwalls
- Manholes
- Risers (Inlet and Manhole)
- Junction Boxes
- Median Barriers
- Sound Walls

PennDOT's Quality Assurance Program For Structural Material Fabrication

- EQMS Application
 - 100% electronic inspection documentation
 - Application overview
 - full web based application
 - SQL data base server
 - Data query

Why Paperless?

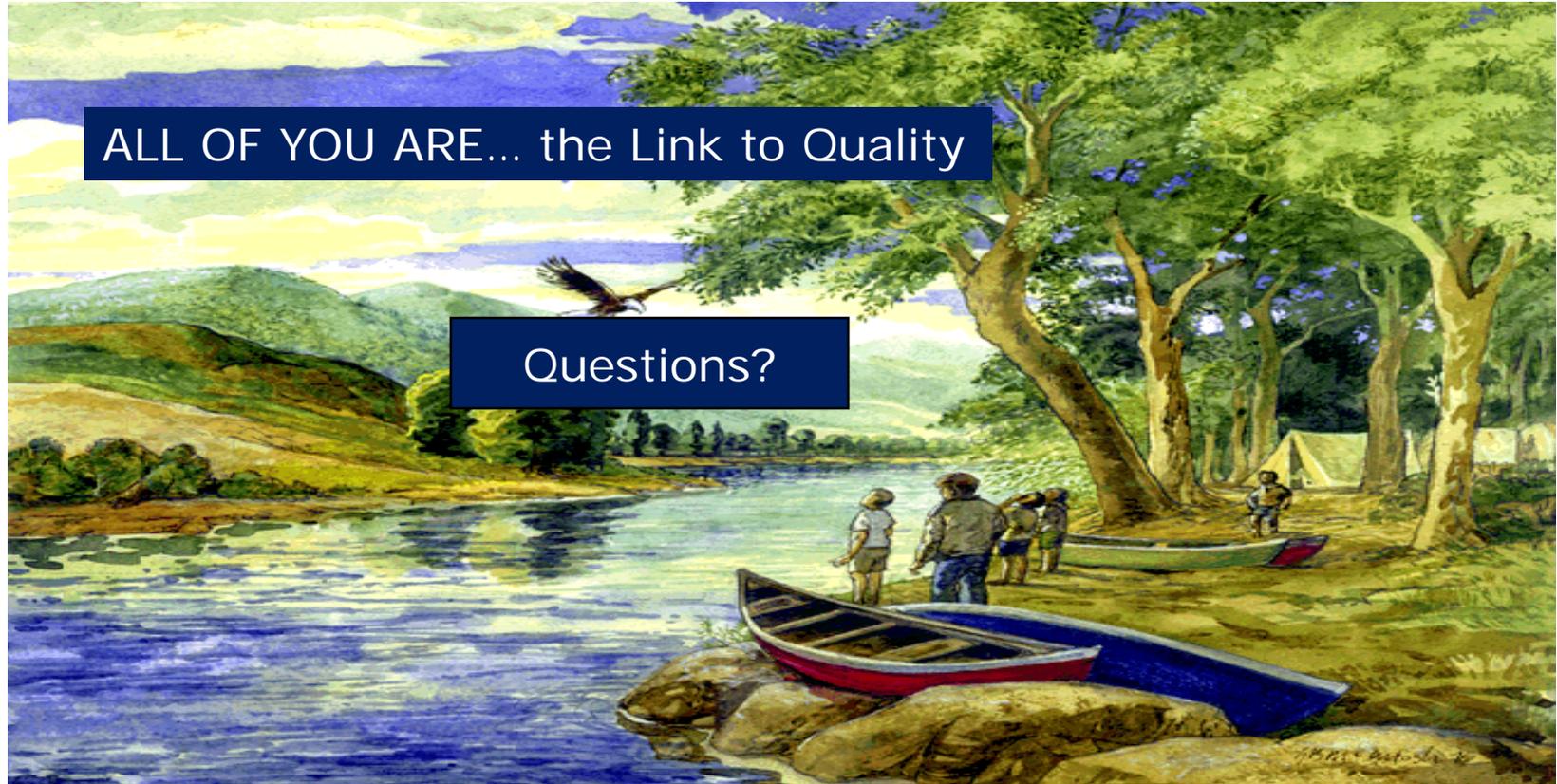
- Improve store requirement
- Improve retrieval



PennDOT's Quality Assurance Program For Bridge Fabrication

ALL OF YOU ARE... the Link to Quality

Questions?



PennDOT's Quality Assurance Program For Bridge Fabrication

- I AM WATCHING YOU

MAKE ME HAPPY

