PennDOT e-Construction Initiative

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PennDOT's Existing eConstruction

- **Engineering and Construction Management System (ECMS)**
  - Construction Projects includes Construction Documentation System version 3 (CDSv3)
  - Engineering Agreements

- **PennDOT Project Collaboration Center (PPCC)**
  - Submittals with automated workflow
  - Shared/Project Files/Photos

PennDOT's Existing eConstruction

- ASTA
  - Scheduling Software
  - In use for contractor's to create and submit their CPM Schedules

Asta Powerproject®

- Electronic Construction and Materials Management System (eCAMMS)
  - Electronic Plant Books, mix designs, sampling test results, approved source bulletins, District Letter of Materials Certification (T-4238A)

PennDOT Mobile Construction Applications

MC DOCs

CID

PSA

MPT

Punchlist

E&S VI

Force Account

CMH Mobile

pennsylvania
DEPARTMENT OF TRANSPORTATION

2018 APC Fall Seminar
e-Construction & Partnering

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What is e-Construction?

- e-Construction is a paperless construction administration delivery process that includes electronic submission of all construction documentation by all stakeholders, electronic document routing/approvals (e-signature), and digital management of all construction documentation in a secure environment allowing distribution to all project stakeholders through mobile devices

How are contractors using e-Construction?

- ECMS
- PPCC (Share Point)
- Scheduling
- Time Keeping
- Production Tracking
- On-site survey/control
- Invoice approval

What are the benefits?

- Efficient and timely

- A lot of information available all at once

- Helps centralize information

- Paperless

- Improves communication

- Documents shared responsibility

- Helps standardize submittals

What are the obstacles?

- Cost (ipads, laptops, smart phones)

- Training

- Experience

- Personnel availability

- Applicable for all sizes of companies

- Consistency from District to District

- Is this replacing some face-to-face communication?

- All issues do not need to be electronic (i.e. verbal resolution)

Where to we go from here? How do we build upon the current platforms?

- Workshops
  - PennDOT wants our input/opinions
  - Good/Bad with current e-construction systems
  - Identify contractor's needs with apps
  - Encourage employees to give it a chance
  - Contractor awareness of available PennDOT apps
- Build Relationships & Establish Partnerships
  - Successful Partnerships = Successful Projects
  - Communication – electronic and verbal

Conclusions

- This is the future

- PennDOT and Industry need to jointly support this concept

- This concept is a major cultural shift within the industry

- Collaboration/Partnering amongst all parties involved is key

- Proper planning and discussions can be a win for all involved

Questions