

e-Construction 2015 Status

FieldManager and Contract Management
Conference 2015

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Engineering Support Services

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e-Construction:

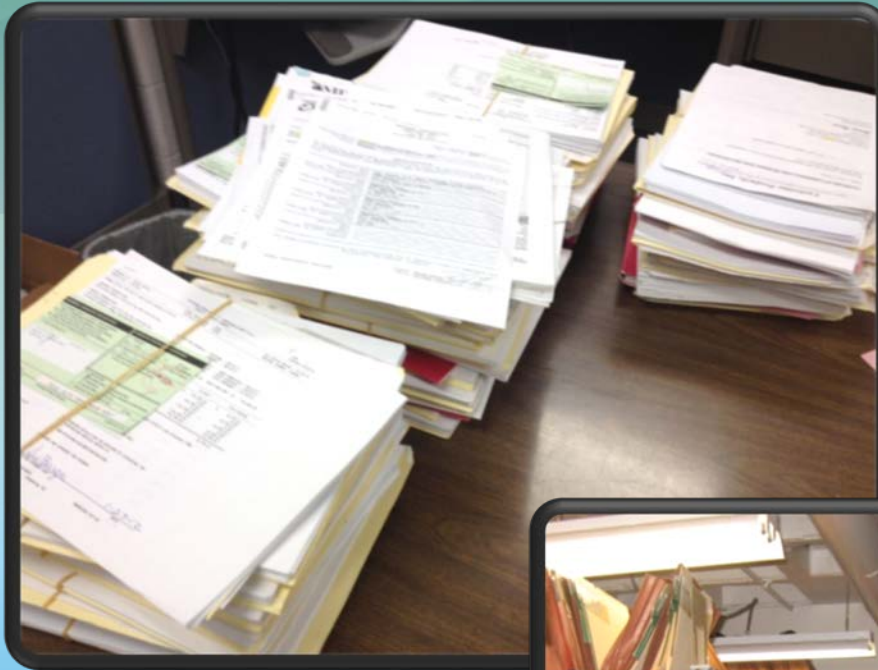
The collection, review, approval, & distribution of highway construction documents in a paperless environment.



What is e-Construction?

- Electronic submission of all construction documentation
- Increased use of mobile devices
- Increased automation of document review & approval
- Essential use of electronic signatures by all parties throughout the process
- Document management software accessible to all stakeholders on any device

A Reminder – Why?



A Reminder – Why?



A Reminder – Why?



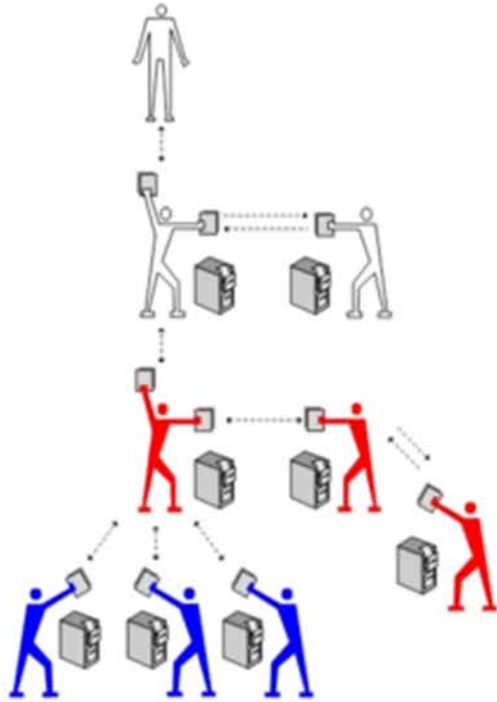
Another Reminder – Lost Documents!



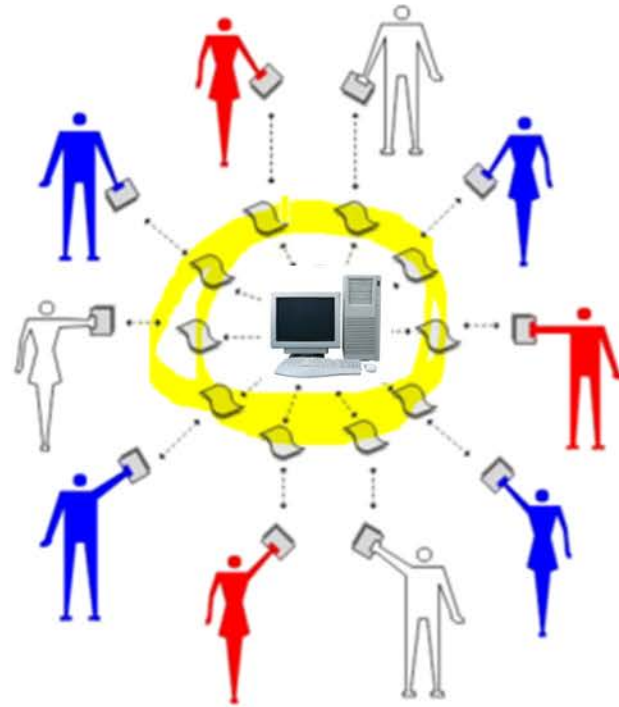
How much longer
can we afford
manual paper
processes?



A Centralized Sharing Model



Traditional



Collaborative

Auditability, Accountability, Transparency

e-Construction Keys to Success

- e-Signature setup
- ProjectWise Explorer setup
- ProjectWise Training
- Work on an e-Construction Project
- Ask Questions



What Does e-Construction Look Like?

- **Contractors**
 - Opportunities to cut costs resulting in lower bid prices
 - Faster payments
- **Inspectors**
 - Spending more time on job site
 - Increased efficiency & faster problem solving
- **Engineers/Management/FHWA**
 - Increased & timely oversight
 - Quicker management approvals



e-Construction Rollout

- Pilots projects started construction in October 2012
- One Project in each TSC in 2014
- All Trunkline Projects 10/3/14 letting



Statewide Implementation

MDOT:

**All trunkline projects will use
e-Construction Documentation
process in the
2015 Construction Season
(October 3, 2014 letting).**

Deployment Efforts

- Michigan is participating with the combined FHWA & AASHTO effort to share e-Construction innovations through:
 - Every Day Counts-3 Initiative
 - AASHTO Innovation Initiative (formerly Technology Implementation Group - TIG)
- MITA participation also:
 - Home office: Glenn Bukoski, Doug Needham
- 35 Contractor Training Sessions
 - Live Webinars
 - Next Webinar 4/8/15



Estimated Results

- An estimated \$12 M in cost savings & reduced overhead annually
 - About 7 million pieces of paper saved annually
- Field staff on jobsite for higher percentage of time
- Immediate productivity gains
- Increased employee & stakeholder engagement
 - Enthusiasm drove the process
 - Users presented ideas to make process even better



Where is MDOT Today?

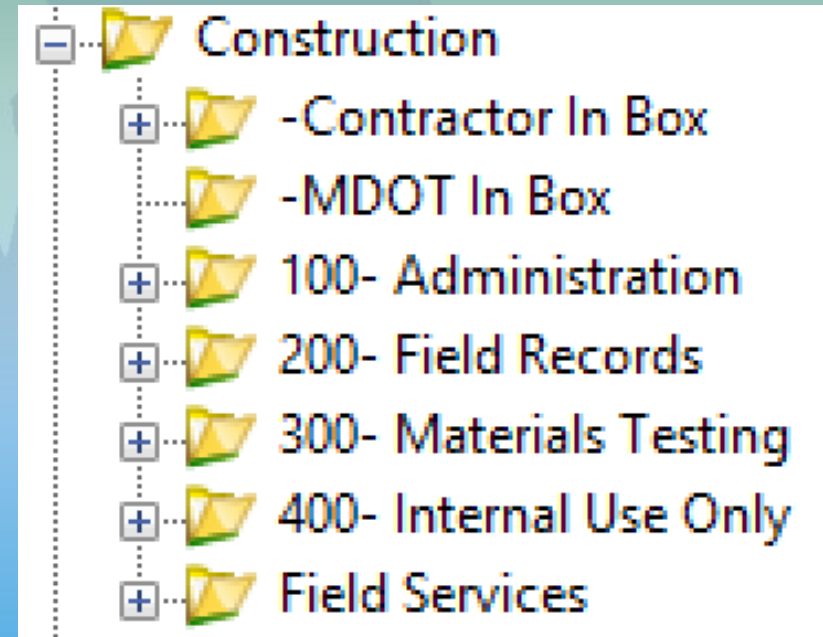
The following stakeholders are in production, including:

- All MDOT construction & materials offices
 - 2741 Total Users
- 194 contracting firms
 - Over 550 contractor users
- 42 consultant firms
 - Over 280 consultant users
- 22 FHWA users
- 207 contracts



Constuction Folder Structure

- - Contractor In Box
- - MDOT In Box
- - Administration Files
- - Field Records
- - Materials Testing
- - Internal Use Only
- - Field Services
- Demo – Tips and Tricks





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e-Construction Conclusion

