

DTSD Innovation Program

Construction Innovations & Field Technologies

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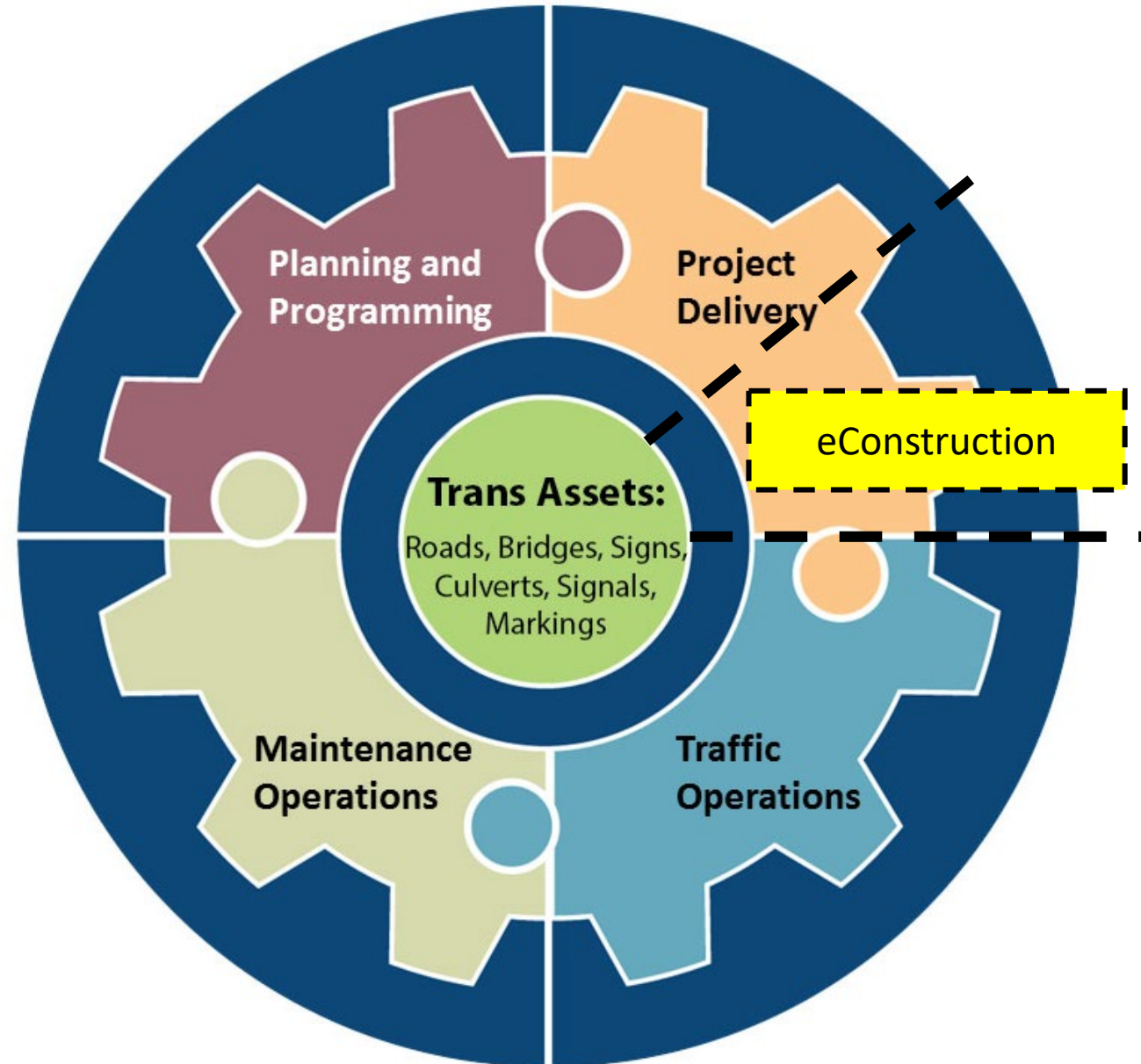
Today's Topics

- WisDOT Business Drivers
- Construction Technology Examples
- OnStation Demo



What is eConstruction?

“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.” ~FHWA



What does it mean to go paperless?

	Paper	Paperless	Electronic	Digital
Information	Handwritten, Printed	Image	Data	Object
	<i>Physical Cabinets</i>	<i>.pdf, .bmp</i>	<i>.dxf, csv</i>	<i>model, services</i>
Workflow	Organic	Implied	Explicit	Seamless
	<i>Learned</i>	<i>email inbox</i>	<i>documented, semi-automated, Semi-measured</i>	<i>automated, Notifications, Performance mgmt</i>
Integration	None	Shared	Interoperable	Integrated
	<i>printed & filled-out forms, snail or inter-d mail</i>	<i>email a roadway design pdf</i>	<i>dxf emailed from consultant to DOT and back again</i>	<i>same model accessed, reviewed, marked up by all parties, auto-push of model data to traffic/maint. operations sys.</i>

Examples of Construction Innovations

- **Bluebeam Studio**

- *Collaborative plan review*

- **Box.com**

- *File Sharing & Access*

- **Unmanned Aerial Systems (UAS)**

- *Data collection, project documentation, traffic monitoring*
- *FHWA Every Day Counts 5 Initiative*



Examples of Construction Innovations

- **OnStation (*Demo by Bob Meurer*)**
 - Mobile app used during construction on iPads
 - Project plan set is loaded into application and accessible by project team and partners
 - Uses device GPS signal to locate user on plan set and provides station/offset reference
 - Allows for users to select from multiple alignments



Thank you!

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Innovation is Awesome!

