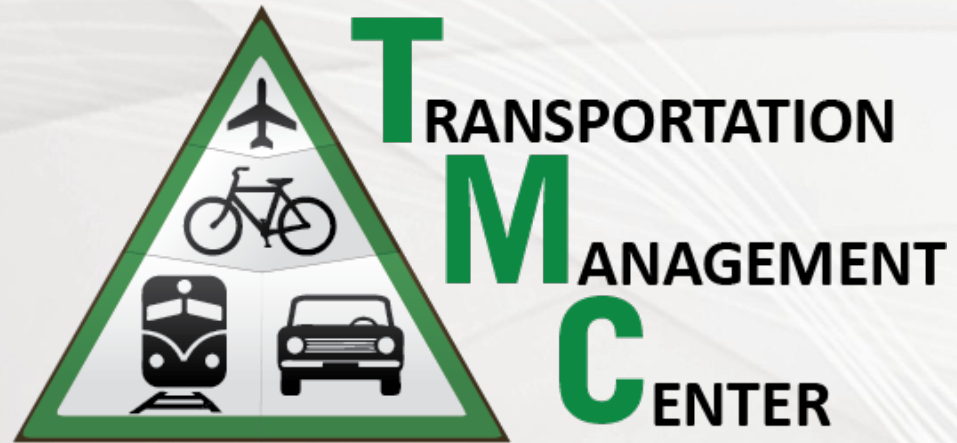


Where is IT in NHDOT ITS Mainstreaming?



Susan M. Klasen, PE
NHDOT TSMO Administrator

Where is the IT in ITS?

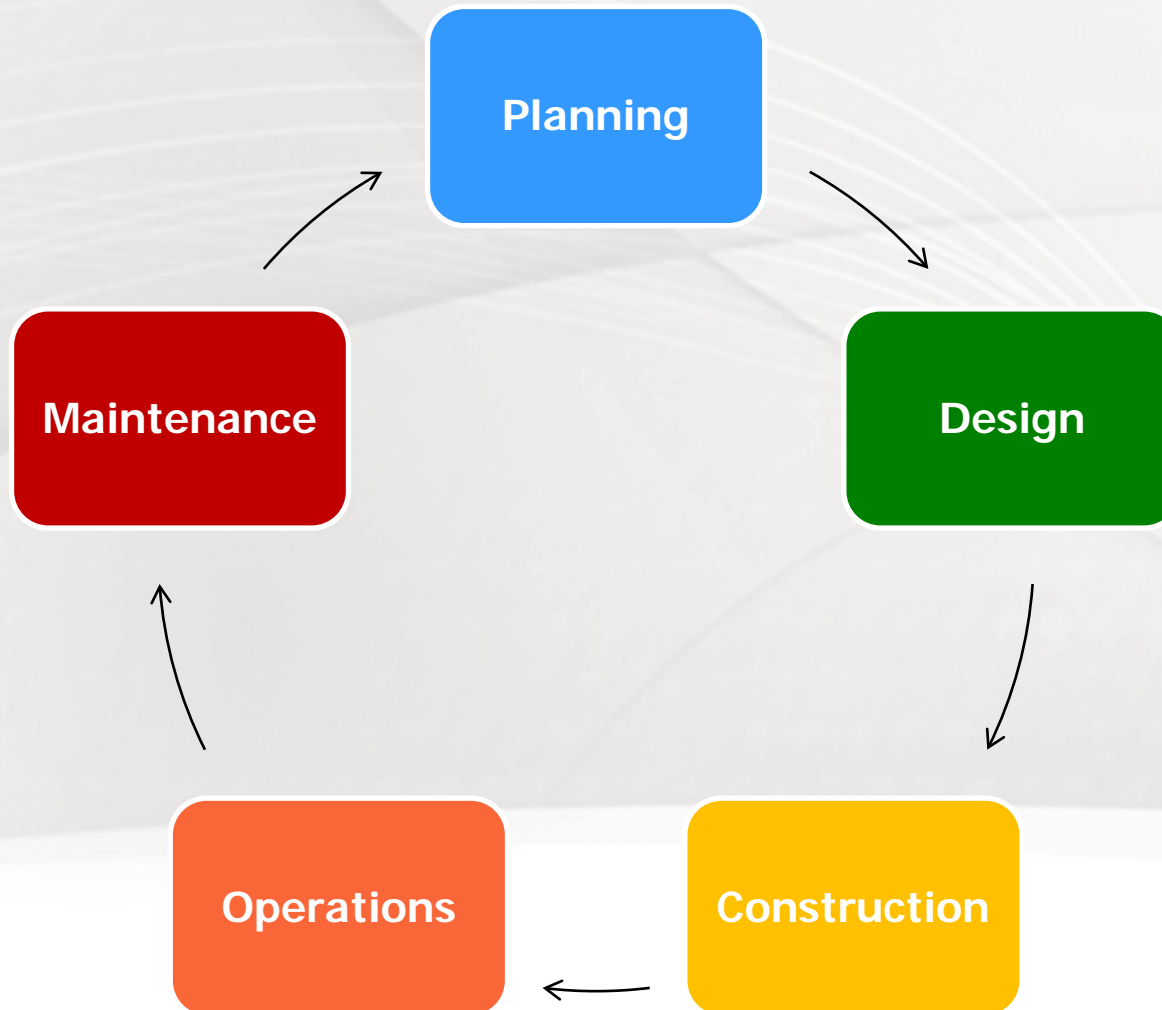
FHWA Sponsored Webinar
August 18, 2009



Denise Markow, PE
TMC/ITS & Program Manager
NH Department of Transportation

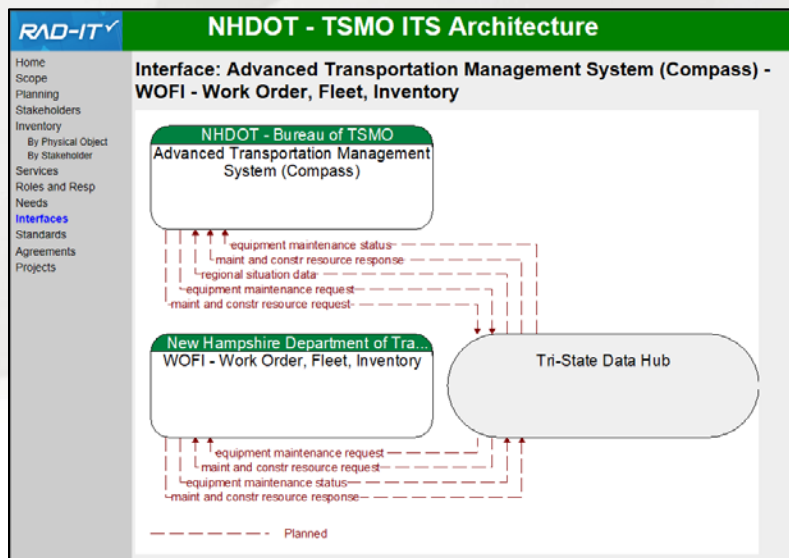
Gail Hambleton
IT Leader Transportation
NH Department of Information Technology

Where is IT in NHDOT ITS Mainstreaming Approach?



Planning

- **ITS Masterplan and network architecture** - IT is involved in all meetings to understand NHDOT's goals and begin discussing communication and security concerns
- **Initial ITS Request Form** - Every project that advertises through NHDOT must complete this form
- **Cyber Yankee Participation** - National Guard Cyber Training Exercise- NHDOT and IT participated and built a virtual range representing ITS network
- **Routine meetings** with branches of IT (Security group, software divisions, network operations)



Planning

Work Plan Table: FY 2019 - FY 2021

Implementation/Operation

	FY 2019	FY 2020	FY 2021
SERVICES			
Permanent ITS Device Installations*			
Work Zone ITS Deployments*			
Standardize Design, Specification, and Construction Submittal Process*			
Establishing Traffic Signal Connectivity*	System Requirements	Pilot	
29408 Everett Turnpike ATMS*	Construction	M and O	M and O
25198 RWIS RFP*	Design	Construct and Warranty	
I-89 Corridor Master Plan*	Design		
NH-101 Master Plan*		Design	
Turnpike ITS			
Traffic Data Collection*		Pilot traffic count	
5 Year Strategic Plan*	Draft	Approval	
Infrastructure Asset Plan*			
Device Maintenance Inventory*			
Asset Mapping/Process Flows*			
Lifecycle Replacement Program*			
Maintenance Work Order Tracking*			
Update Network Architecture*		Approval	Initial Implementation
TMC OPERATIONS			
TMC Standard Operating Procedures			
TSMO Continuity of Operations Plan (COOP)*			
Compass Enhancements- current contract - ends 9/1/22*			
Compass Sole Source Contract and Extension*		Identify Funding	Contract Documents
Annual TSMO Winter Communication Conference			
Integrate Smart Workzones into Compass			
Promiles OS/OW integration*	Develop in ATMS		
Transportation Weather Support System (TWSS)*	Requirements	Procurement	
TMC Network Upgrade and Maintenance Plan*			
COMMUNICATION INFRASTRUCTURE			
ITS Communication Master Plan*	Finalize	Approval	
Barco Wall Upgrade*	Complete		
Network Monitoring Review and Potential Upgrade*	Complete - moved to solar winds		
FirstNet*		Partial Use	
Shared Resource Program*			Explore options
RADIO COMMUNICATION NETWORK (LMR)			
Radio Multicasting (ROIP)	Strategize	Develop	
District 2 Microwave Communication	Finalizing Lease for Whaleback		
Inventory Radio Assets (Fixed Assets) and Develop Phased Replacement Program			
NHDOT LMR Workgroup			
PARTNERING AND PUBLIC OUTREACH			

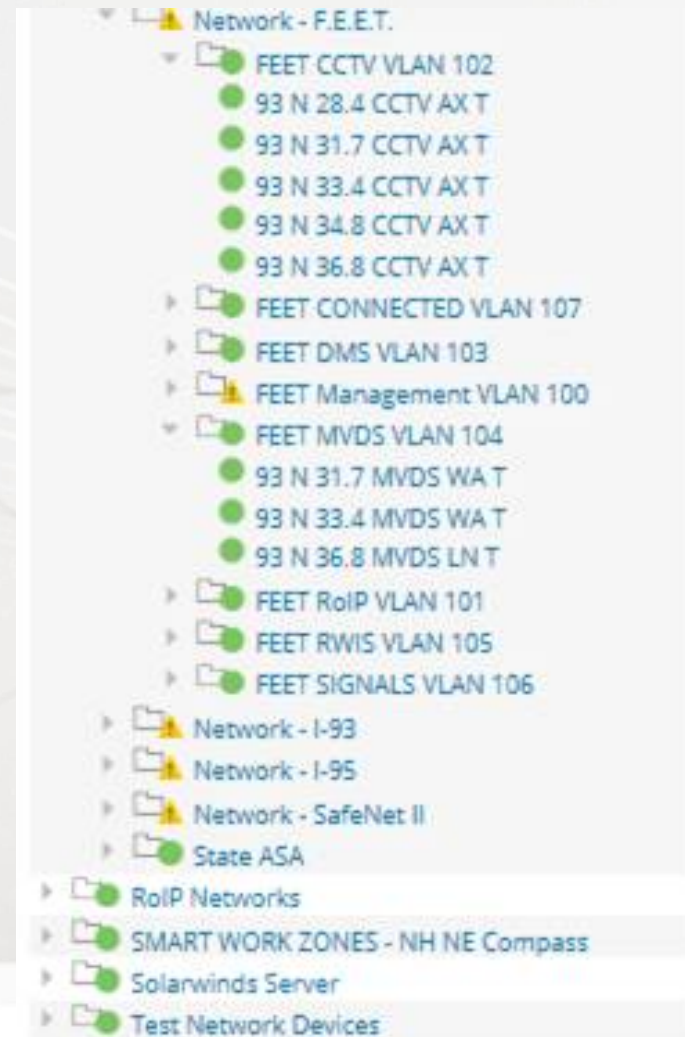
Construction

- **Procurement Flexibility**
 - In Contract
 - Funded through project but purchased, configured and installed through IT
- **Bi-weekly Updates** from ITS Project Manager to IT and Operations so no surprises
- **IT invited to field reviews**



Operations

- **Network Monitoring** tools such as Solar Winds provide daily checks to ensure uptime, and are used to track the health of individual devices
- **Device Status Summary Report**
Prepared and provided to Administrator and Assistant Administrator bi-weekly for review
- **Device Inventory** is tracked in GIS



Maintenance

- **Repairs/Replacements**
 - IT and DOT onsite together
 - Flexibility in procuring replacement parts
- **Workflow**
 - Work instructions are established that link TSMO and IT staff from the start of the planning process all the way through to daily maintenance
- **Relocating** portable field ITS devices
- **DoIT Patching and Upgrades** to the software and hardware is always scheduled through IT in conjunction with TSMO Administrator and Operations Supervisor

