

Next-Generation Traffic Incident Management (NextGen TIM): Technology for Saving Lives

EDC-7 State of the Practice/Implementation Plan Form

Below are the EDC-7 progress report questions and schedule.

Report	Reporting Period	Due from Division Offices
Baseline Report #1	Current status as of April 2023	COMPLETED!
Progress Report #2	May 2023 through April 2024 (1 year)	May 17, 2024
Progress Report #3	May 2024 through October 2024 (6 months)	November 15, 2024
Final Progress Report #4	November 2024 through April 2025 (6 months)	May 16, 2025

Progress Report Questions		
 If there has been NO CHANGE on this innovation during this reporting period and the previous Report is still accurate, select "No Change from last Progress Report" and you do not need to complete Questions 2-5. What is the State's current stage of innovation implementation? Review your past progress report responses and the Implementation Stage Definitions on page 1. 	(Choice) ☐ No Change from last Progress Report ☑ Changes indicated in Progress Report Below (Choice) ☐ Not Implemented ☐ Development Stage ☑ Demonstration Stage ☐ Assessment Stage	
support your selection. Please include benefits as part of your explanation (i.e. time/cost savings, delay/crash reductions, etc.)	(open discussion) UAS for TIM: Assessment. Our 2 x tethered drones are still operational to respond on scene in areas with minimal to no camera coverage. We're looking for additional use-cases to include observing work zone issues with incidents. Attended peer exchange in Austin and plan to implement work zone ideas presented by Indiana DOT. Published final report on UAS and EVAs from STIC grant. Debris Removal Systems: Development – moving towards Demonstration. Coordinating with NCDOT fleet management on vendor fabrication. Received design plans from MoDOT. Hosted a demonstration with Incident Clear (to receive this system end of June). Working through the fabrication of the remaining 2 systems. Attended peer exchange in Minneapolis on debris removal tools which is helping to shape procurement strategy – using different vendors than what MODOT and MNDOT used (based on their recommendations). Emergency Vehicle Lighting: Development stage; identified technology and performing additional research to determine next steps.	



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	Advance Warning Technologies: Demonstration stage: completed EVA pilot with Makeway, Icone, and Haas. Installing full-matrix CMS on the back of the SSP vehicles. These are part of the newer trucks for use across the state. Published final report on UAS and EVAs from STIC grant.	
	Emergency Vehicle Preemption: n/a TIM Technologies for EMS: n/a	
 Describe any implementation challenges or lessons learned. Also, indicate if and how your state and transportation partners can assist others in their implementation of this innovation. 	Debris Removal Tool procurement / installation has been a challenge with the MODOT tools (Swiper / Jaws). Attempting to develop a local vendor to fabricate instead of using Missouri's vendors. MNDOT and MODOT have been very helpful in addressing these issues. INDOT provided some excellent lessons learned on the use of tethered drones in work zones that we are implementing.	
5) Describe any additional assistance needed by your state or partners.	(open discussion) n/a	



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The below table is meant to provide a means to define the implementation stages that will be used throughout the 2-years of EDC-7 deployment. These definitions are used when capturing your baseline, progress, and final reports for each of the innovations and were developed to provide consistency between states in measuring the deployment progress of an innovation.

The six NextGen TIM Technology categories covered in EDC-7 include:

- 1. Unmanned Aircraft Systems (UAS) for TIM
- 2. Debris Removal Systems
- 3. Emergency Vehicle Lighting
- 4. Advance Warning Technologies

- 5. Emergency Vehicle Preemption (EVP)
- 6. TIM Technologies for Emergency Medical Services (EMS) to Support Post-Crash Care

States* can choose to select one or more NextGen TIM Technology categories to focus on during EDC-7. However, to simplify tracking, it is recommended that the State* use the NextGen TIM Technology category that will be the top priority, or most likely to advance, to select their Baseline and Goal implementation stages.

Innovation Implementation Stage Definitions *State is all-inclusive (e.g., state transportation agency, local municipalities, contractors, consultants)	Guidance Questions Prompt questions to help assess your current state of practice. NOTE: Not all questions have to be affirmatively answered to meet any given stage; judgment is required; call the NextGen TIM Technology Deployment Team w/ questions.	
Not Implemented: The State* is not implementing any of the six NextGen TIM Technology categories.	 Implementation of the NextGen TIM Technologies has been evaluated and it was determined that they are not appropriate for the State*. Resources (personnel, financial, or technological) are not available to assist with implementation of any of the NextGen TIM Technologies. The State* is not interested in creating an implementation plan or learning more at this time. 	
Development Stage: The State* has identified one or more NextGen TIM Technology categories to advance and is gathering facts and building support for implementation.	 Has an implementation lead/champion been identified? Have efforts to gather information (i.e., participation in webinars or workshops, identification of best practices, etc.) been initiated? Are efforts underway to build support with involved stakeholders? Has development of an approach or supporting processes for technology deployment been initiated? 	
Demonstration Stage: The State* is testing or has initiated a pilot for one or more of the NextGen TIM Technology categories.	 Is the State* conducting field testing of the NextGen TIM Technology? Has the State* secured management support to the field testing or a pilot program of the technology? Has the State* applied for, or received, grant funding (e.g., State Transportation Innovation Council (STIC) or Accelerated Innovation Deployment (AID) Demonstration funding), or secured State* funding to pilot the technology? 	



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Innovation Implementation Stage	Guidance Questions	
Definitions	Prompt questions to help assess your current state of practice.	
*State is all-inclusive (e.g., state transportation agency, local municipalities, contractors, consultants)	NOTE: Not all questions have to be affirmatively answered to meet any given stage; judgment is required; call the NextGen TIM Technology Deployment Team w/ questions.	
Assessment Stage: The State* has tested or piloted one or more NextGen TIM Technology categories and is assessing the performance of the technology and adjusting any processes for broader deployment.	 Is the State* assessing and refining the use of the NextGen TIM Technology based on the results of the field testing/pilot, with the intention of expanded deployment? Is the technology being considered for regular use? Are performance measures and baseline data for evaluating the effectiveness of the technology in place? Are plans in place to incorporate the technology into contracts, guidance, manuals, or policies? 	
Institutionalized: The State* has adopted the chosen NextGen TIM Technology categories as a standard practice.	 Has the State* implemented the NextGen TIM Technology as standard practice? Has the technology been incorporated into contracts, guidance, manuals, or policies? 	

Deployment Team Contact Information

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