



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

EDC-7 State of the Practice/Implementation Plan Form

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 <i>*State is all-inclusive (e.g., state transportation agency, local municipalities, contractors, consultants)</i>	Guidance Questions Prompt questions to help assess your current state of practice. <i>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.</i>
Not Implemented: The State* is not implementing any of the six NextGen TIM Technology categories.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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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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.		<ul style="list-style-type: none">• 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.		<ul style="list-style-type: none">• 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

Paul Jodoin FHWA Office of Operations (202) 366-5465 Paul.Jodoin@dot.gov	James (Jim) Austrich FHWA Office of Operations (202) 366-0731 James.Austrich@dot.gov	Joseph (Joe) Tebo FHWA Office of Operations (202) 366-9242 Joseph.Tebo@dot.gov
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This is the information that will be collected in the EDC-7 Baseline Report for each innovation. The deployment teams will use this information to better understand which States to focus their technical assistance efforts over the next two years of EDC-7 deployment.

If your State does not want to advance this innovation over the next two years, we ask you to please indicate your current level of implementation and indicate your goal as the same level of implementation with "NO Assistance Anticipated from FHWA in Deployment" selected in question 5.

Baseline Questions (Due April 21, 2023):		
<p>1) April 2023 Baseline: What stage of implementation is the State currently at?</p> <p>Select the NextGen TIM Technology category the State has identified as the top priority and will be used to define the implementation stages.</p> <p>Review the Implementation Stage Definitions and select the appropriate stage for your State.</p>	<p>(Choice – Pick One)</p> <p><input type="checkbox"/> Not Implemented</p> <p><input checked="" type="checkbox"/> Development Stage</p> <p><input type="checkbox"/> Demonstration Stage</p> <p><input type="checkbox"/> Assessment Stage</p> <p><input type="checkbox"/> Institutionalized</p>	<p>(Choice – Select Focus Category)</p> <p><input checked="" type="checkbox"/> UAS for TIM</p> <p><input checked="" type="checkbox"/> Debris Removal Systems</p> <p><input checked="" type="checkbox"/> Emergency Vehicle Lighting</p> <p><input checked="" type="checkbox"/> Advance Warning Technologies</p> <p><input type="checkbox"/> Emergency Vehicle Preemption</p> <p><input type="checkbox"/> TIM Technologies for EMS</p>
<p>2) Current Status: Provide the current state of practice to support the above selection. Please note State DOT, local agency, and transportation partners status.</p>	<p><i>(open discussion – please include a status for these categories)</i></p> <p>UAS for TIM: Assessment stage; developing an assessment document on the pilot with tethered UAVs</p> <p>Debris Removal Systems: Demonstration stage, piloting one in the western part of the state; applying for a STIC grant to support additional pilots</p> <p>Emergency Vehicle Lighting: Development stage; identified technology and performing additional research to determine next steps</p> <p>Advance Warning Technologies: Assessment stage; developing an assessment document on the EVA pilot. Development stage: identified the use of CMS on the back of the SSP vehicles and are identifying ways to incorporate this technology into the vehicle design</p> <p>Emergency Vehicle Preemption: n/a</p> <p>TIM Technologies for EMS: n/a</p>	
<p>3) Goal: What is the State goal in two years?</p> <p>Review the Implementation Stage Definitions on pages 1-2 and select from appropriate stage.</p>	<p>(Choice – Pick One)</p> <p><input type="checkbox"/> Not Implemented</p> <p><input type="checkbox"/> Development Stage</p> <p><input type="checkbox"/> Demonstration Stage</p> <p><input checked="" type="checkbox"/> Assessment Stage</p> <p><input type="checkbox"/> Institutionalized</p>	
<p>4) Implementation Plan Activities: Provide the proposed activities the State and their partners intend to perform to attain their goal.</p>	<p><i>(Summarize activities for the categories the State plans to focus on)</i></p> <p>UAS for TIM: NCDOT is in the process of procuring additional UAVs (Fotokite) for a more permanent solution.</p> <p>Debris Removal Systems: NCDOT has purchased one system and will procure additional options through grants to pilot.</p> <p>Emergency Vehicle Lighting: NCDOT is researching options.</p> <p>Advance Warning Technologies: NCDOT will be publishing a report regarding the pilot and will determine a way forward with procurement options.</p> <p>Emergency Vehicle Preemption: n/a</p> <p>TIM Technologies for EMS: n/a</p>	
<p>5) Assistance Needed: What assistance can the Innovation Deployment Team provide to help the State and their partners reach its goal within two years?</p>	<p><input type="checkbox"/> Training (e.g., NHI course or self-directed modules)</p> <p><input checked="" type="checkbox"/> Technical Support on specific projects/issues</p> <p><input checked="" type="checkbox"/> Guidance Documents (Suggest specific needs below)</p> <p><input checked="" type="checkbox"/> Webinars on specific topics (Suggest specific topics below)</p>	



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	<p><input checked="" type="checkbox"/> Workshops or Peer Exchanges</p> <p><input checked="" type="checkbox"/> Case Studies (e.g., Successful deployments from other states)</p> <p><input type="checkbox"/> NO Assistance Anticipated from FHWA in Deployment</p> <p><input checked="" type="checkbox"/> Our State is willing to assist others</p> <p><input type="checkbox"/> Other _____</p>
6) FHWA Division Contact for Innovation:	



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The discussion and use of the information in the table below is meant to provide your state with an initial framework to help meet your Innovation Goals. This information is helpful to provide to the Deployment Teams for them to better understand any activities that they could assist with in your implementation efforts (but not required to be supplied with the baseline report).

Innovation Implementation Team Members		
State DOT:	Jennifer Portanova	Dom Ciaramitaro
FHWA:		
State Innovation Goal (Benefit Goal): In other words, after 2 years "What would success look like for your state?" (i.e. X innovation will save X time, money, or lives.) These benefits are what elected officials and the traveling public can relate to and help to support the level of resources invested in the deployment of innovations under EDC. What are the measurable targets to assess your progress?		
To be published; the state's goals will be in line with federal goals for EDC7		
Obstacles: What is perceived as hindering the State in meeting the implementation goal?		
Funding sources to support the due diligence of testing the technology to identify the feasibility of incorporating the technology into the standard practice. Also, any software-based technology will need to overcome state DIT procurement rules which potentially can be a lengthy process.		
Implementation Plan Activities		
Activity No.	Description of Activity	Target Completion Date
1	Complete needed research of potential technology	First Quarter 2024
2	Identify options for procuring technology for pilot project	Second Quarter 2024
3	Procure technology for pilot project	Third Quarter 2024
4	Implement pilot project	Fourth Quarter 2024
5	Assess technology and submit findings in a report	Second Quarter 2025
6	Provide findings per peer exchanges	Fourth Quarter 2025
Action Items to follow up with after discussion:		



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This is provided to show what information will be captured in future progress reports during the 2-years of EDC-7 deployment. The progress report schedule has changed from previous EDC rounds, the first 6-month progress report was dropped to allow more time to make progress on the innovation deployment. Progress Report #1 will be 1 year after the Baseline Report, Progress Report #2 will be 6 months later, with a Final Report requested 2-years after the initial baseline.

Progress Report Questions:	
<p>1) 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.</p>	<p>(Choice)</p> <p><input type="checkbox"/> No Change from last Progress Report</p> <p><input type="checkbox"/> Changes indicated in Progress Report Below</p>
<p>2) What is the State's current stage of innovation implementation?</p> <p>Review your past progress report responses and the Implementation Stage Definitions on page 1.</p>	<p>(Choice)</p> <p><input type="checkbox"/> Not Implemented</p> <p><input type="checkbox"/> Development Stage</p> <p><input type="checkbox"/> Demonstration Stage</p> <p><input type="checkbox"/> Assessment Stage</p> <p><input type="checkbox"/> Institutionalized</p>
<p>3) Describe the State's accomplishments for this reporting period (State DOT, local agency, and transportation partners accomplishments).</p> <p>-- If advanced to the next implementation stage, consider the prompt questions in the chart and explain the advancements made to support your selection.</p> <p>-- Please include benefits as part of your explanation (i.e. time/cost savings, delay/crash reductions, etc.)</p>	<p>(open discussion)</p>
<p>4) 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.</p>	<p>(open discussion)</p>
<p>5) Describe any additional assistance needed by your state or partners.</p>	<p>(open discussion)</p>