

Road Weather Management – Weather Savvy Roads Pathfinder

| <p style="text-align: center;">PATHFINDER: Innovation Implementation Stage Definitions</p> | <p style="text-align: center;">Prompt Questions for Describing the Implementation Stage</p> <p style="text-align: center;">The following questions are intended to help you determine your current implementation stage. While it is not mandatory to respond to each question, some narrative describing your current status will be helpful to the EDC teams.</p> |
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| <p>Not Implementing: The State is not currently using Pathfinder anywhere in the State and is not interested in learning about it.</p> | <ul style="list-style-type: none"> • Is the State not implementing because: <ul style="list-style-type: none"> ○ Resources ○ Not Interested |
| <p>Development Stage: The State:</p> <ul style="list-style-type: none"> • establishes a cross-cutting Pathfinder team; and • documents the roles and responsibilities, communication methods, and messages that each team disseminates surrounding weather events. | <ul style="list-style-type: none"> • Under what circumstances do you communicate with the NWS? • How does your private weather service provider, if applicable, assist in crafting traveling information messages? |
| <p>Demonstration Stage: The State, in partnership with the Pathfinder team:</p> <ul style="list-style-type: none"> • pilots the project for at least a 3 month time period over an inclement weather season (e.g., winter weather, monsoon season, etc.); • documents each collaboration event, with a focus on capturing the impacts of disseminating consistent messages; and • holds a recommended minimum of 3 meetings during the pilot. | <ul style="list-style-type: none"> • What dissemination methods did the Pathfinder team use? • How successful were you in coordinating a clear, concise, and consistent impact message? • Did the media pick up on the message? • How much did it cost the State to implement Pathfinder? |
| <p>Assessment Stage: The State, with input from the Pathfinder team:</p> <ul style="list-style-type: none"> • assesses the overall results from the demonstration stage (e.g., cost, benefits, lessons learned, challenges, and future team members such as the local media); • and documents the assessment. | <ul style="list-style-type: none"> • Was the project successful? • How easy will it be to deploy a statewide implementation? • Is the State willing to share their results with other states? |
| <p>Institutionalized: The State, in coordination with the Pathfinder team:</p> <ul style="list-style-type: none"> • documents processes in the form of Standard Operating Procedures (SOP); • routinely collaborates on weather events as defined in the SOP, disseminates coordinated and consistent messages to the public, and documents results; and • trains new team members and helps share success stories with others. | <ul style="list-style-type: none"> • What are the main benefits and successes the State has encountered from deploying Pathfinder? |

Progress Report Questions (Pathfinder):

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| Reporting Period: | Progress Report #4: July 2018 – January 2019 |
| 1) If there has been NO CHANGE on this innovation during this reporting period and the previous Progress Report is still accurate, select "No Change from Progress Report" and you do not need to complete Questions 2-7. | (Choice) <input type="checkbox"/> No Change from Progress Report <input checked="" type="checkbox"/> Changes indicated in Progress Report Below |
| 2) Division Contact for additional information: | |
| 3) What is the State's current stage of innovation implementation? Review the Innovation Profile Template and select the appropriate implementation stage for this innovation. | (Choice) <input type="checkbox"/> Not Implementing <input checked="" type="checkbox"/> Development Stage <input type="checkbox"/> Demonstration Stage <input type="checkbox"/> Assessment Stage <input type="checkbox"/> Institutionalized |
| 4) Describe the State's accomplishments for this reporting period (both State DOT and local agency accomplishments). Please provide EDC-4 highlights with good "so what" nuggets. -- What would another state be interested in and/or how could leadership use the information I am providing? -- If the State has advanced to the next implementation stage, consider the prompt questions in the chart and explain the advancements made to support your selection. -- Please include benefits as part of your explanation (i.e. time/cost savings, delay/crash reductions, etc.) | <i>I-10 Lordsburg project for dust storm detection and notification is underway. Deployment of a closed-loop system that will rely on sensor data for message and beacon activation. This information will be shared directly with NWS. This system is expected to be brought on line and commissioned within the next 4 weeks.</i> |
| 5) Describe any additional assistance needed by your state. | <i>(open discussion)</i> |
| 6) Describe any implementation obstacles or lessons learned. Also, indicate if and how your state can provide assistance to others in their implementation of this innovation. | <i>(open discussion)</i> |
| 7) The responses have been coordinated with the necessary transportation agencies and Division Office technical resource. | (Choice) <input type="checkbox"/> Yes <input type="checkbox"/> No |

Road Weather Management – Weather Savvy Roads

Integrating Mobile Observations (IMO):

| Integrating Mobile Observations (IMO): Innovation Implementation Stage Definitions | Prompt Questions for Describing the Implementation Stage |
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| <p>Not Implementing: The State is using IMO anywhere in the State and is not interested in learning about it.</p> | <ul style="list-style-type: none"> • Is the State not implementing IMO due to: <ul style="list-style-type: none"> ○ Lack of resources ○ Not Interested ○ Other reason? |
| <p>Development Stage:</p> <ul style="list-style-type: none"> • The State establishes a project team and gets acquainted with applications (e.g., Enhanced MDSS, End-of-Shift Reporting, Performance Measures) that leverage connected vehicle / mobile data; and • the project team develops an implementation plan and uses it to secure support and funding from middle and upper management; | <ul style="list-style-type: none"> • Is the State documenting its use of data internally, along with exploring ways it's being done in other DOTs? • Has the State documented the applications the data would support? |
| <p>Demonstration Stage: The State conducts a demonstration project for at least a season, including the installation of sensors on vehicles, the testing of data flows, and the use of the data to support weather-related applications. The project team documents the costs to deploy, benefits, and lessons learned.</p> | <ul style="list-style-type: none"> • What have been the main deployment challenges? • What applications are being used and/or considered? |
| <p>Assessment Stage: Following a successful demonstration, the project team:</p> <ul style="list-style-type: none"> • develops a statewide deployment plan that includes a financial outlay plan, a data management plan, a communications plan, and training needs; and • documents other applications and management strategies that the data can support. <p>The team executes the deployment plan and conducts independent evaluations of the outputs and outcomes.</p> | <ul style="list-style-type: none"> • Was the demo successful? • What will it take to deploy statewide? • What are the anticipated challenges and paths to overcome them? |
| <p>Institutionalized: As part of its standard operating procedures, the state routinely captures road weather and related data from its fleet vehicles and incorporates that data into a range of transportation system management strategies that enable them to better manage their system. In addition, appropriate policy documents are developed, and knowledge and technology transfer materials are developed and readily available.</p> | <ul style="list-style-type: none"> • What are the main benefits and successes the State has encountered from deploying mobile data collection technologies? |

Progress Report Questions (IMO):

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| Reporting Period: | Progress Report #2: July – December 2017 |
| 2) If there has been NO CHANGE on this innovation during this reporting period and the previous Progress Report is still accurate, select "No Change from Progress Report" and you do not need to complete Questions 2-7. | (Choice) <input checked="" type="checkbox"/> No Change from Progress Report <input type="checkbox"/> Changes indicated in Progress Report Below |
| 2) Division Contact for additional information: | |
| 3) What is the State's current stage of innovation implementation? Review the Innovation Profile Template and select the appropriate implementation stage for this innovation. | (Choice) <input type="checkbox"/> Not Implementing <input type="checkbox"/> Development Stage <input type="checkbox"/> Demonstration Stage <input type="checkbox"/> Assessment Stage <input type="checkbox"/> Institutionalized |
| 4) Describe the State's accomplishments for this reporting period (both State DOT and local agency accomplishments). Please provide EDC-4 highlights with good "so what" nuggets. -- What would another state be interested in and/or how could leadership use the information I am providing? -- If the State has advanced to the next implementation stage, consider the prompt questions in the chart and explain the advancements made to support your selection. -- Please include benefits as part of your explanation (i.e. time/cost savings, delay/crash reductions, etc.) | <i>(open discussion)</i> |
| 5) Describe any additional assistance needed by your state. | <i>(open discussion)</i> |
| 6) Describe any implementation obstacles or lessons learned. Also, indicate if and how your state can provide assistance to others in their implementation of this innovation. | <i>(open discussion)</i> |
| 7) The responses have been coordinated with the necessary transportation agencies and Division Office technical resource. | (Choice) <input type="checkbox"/> Yes <input type="checkbox"/> No |

