



Charles D. Baker, Governor  
 Karyn E. Polito, Lieutenant Governor  
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## 2022 RESEARCH PROJECT STATEMENT

### Research Topic:

Development of a Salt Spreader Controller Program that Correlates its Material Dispensation Rate to Machine "Sensed" Roadway Weather Parameters

### Research Budget and Timeline:

- \$ - \$125,000
- months (of which the final 3 months are for review)

### Problem Statement and Objectives

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Note: MassDOT is in the process of identifying a material spreader for this project. There may be a need for the project's budget to secure an updated spreader controller or spreader system (\$5,000 - \$20,000), and perhaps one MD30 mobile RWIS unit (\$5,000 - \$6,000).

### Anticipated Outcomes and Deliverables

Outcomes: This research will be used to de

road weather When in use, t

### Deliverables:

Technical report and implementation of a road weather-based spreader controller program that automatically adjusts material spreading rates based on machine "sensed" road weather parameters. Recommendations on

Final Presentation: Final Report summarizing the implementation and results, and recommendation