

# Research in Progress

## Understanding Asset Management Systems Utilized by Municipalities in Massachusetts

### Research Need

Massachusetts has about 3,000 centerline miles of roadways under its jurisdiction and 33,700 miles are municipal or other jurisdictions. Conditions on MassDOT's 3,000 miles are reported annually to the legislature and 3,361 miles of national highway roadways are reported through the Highway Performance Monitoring System (HPMS). Condition data on the remaining mileage remains unreported. Many cities and towns have implemented asset management systems utilizing differing approaches. MassDOT needs to identify what type of pavement asset data is being collected by these municipalities, who collects the data, and what these organizations then do with the data.

### Goals/Objectives

The main goal of this study is to catalog the different pavement management systems being used by municipalities, Metropolitan Planning Organizations (MPOs), and Regional Planning Agencies (RPAs) throughout Massachusetts. The objectives of this project are:

1. Catalog the different asset management systems being used by cities, towns (municipalities), MPOs, and RPAs throughout Massachusetts.
2. Prepare a report describing the different asset management systems used, type of data collected, and how that data is being utilized in decision making.

### Project Information

This project is being conducted as part of the Massachusetts Department of Transportation (MassDOT) Research Program with funding from Federal Highway Administration (FHWA) State Planning and Research (SPR) funds.

#### Principal Investigators:

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#### Performing Organization:

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#### Project Champions:

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#### Project Start Date:

April 2020

#### Expected Project Completion Date:

April 2022

### Methodology

The experimental plan designed for this project includes:

1. Conduct a thorough literature review to determine if other states within the United States have conducted any similar studies on cataloging the local level pavement management systems within their state.
2. Develop an internet-based survey to gather information related to local level asset management from each municipality, MPO, and RPA in Massachusetts.
3. Conduct on-site interviews to obtain greater depth and insights into the municipality's pavement management system practices.
4. Explore the possibility of correlating the outputs of the different pavement management systems to each other.

