

## National Strategic Winter Maintenance Plan 2018-2020 Accomplishments

### SI 1 - Routing

#### Optimal snow plow route planning

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#### *Explore optimal/adaptive snow plow route planning*

Location of maintenance garages and plow routes have largely evolved over time. Newer equipment and strategies may have rendered historical routes sub-optimal. There are several commercial route optimization programs in existence that have been developed for municipalities and delivery companies. These, however, do not take into consideration the dynamic nature of snowplowing on roads with differing levels of service. In addition, not all roads perform similarly; some are warmer or colder than the norm leading to extra or minimal effort to reach a desired level of service.

- Monitor and collaborate on implementation of Clear Roads project on Route Optimization
- STWO Podcast Episode 11: Which way should the snowplow go with Kyle Lester CO DOT, Larry Gangle ND DOT, Jim Hughes WI DOT
- ND DOT featured Route Optimization/Garage Optimization project in State Showcase Webinar
- IA DOT garage optimization project in NE Iowa
- Monitor CO DOT work on dynamic Route Optimization
- Future of Dynamic Route Optimization
- Possible pooled fund to link route optimization with MDSS for dynamic routing
- Monitor the CR project into developing RFP for route optimization