

ISSUE: 04. WINTER SERVICE MANAGEMENT

SUB-ISSUE: Monitoring performance

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Room: B

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Presentation title:

PERFORMANCE METRICS AND TOOLS FOR WINTER MAINTENANCE OPERATIONS

Summary:

The continued maturation of Maintenance Decision Support System (MDSS) technologies within the United States have enabled new approaches for near real-time evaluation of both the effectiveness and efficiency of winter maintenance operations. In general, MDSS utilize sophisticated road condition modeling techniques to integrate location-specific weather and road condition observations and forecasts, together with winter maintenance policies, practices and reported activities, to both track and predict how roads will respond to ongoing and pending / prescribed weather and maintenance activities. However, research being carried out in a fifteen-state Transportation Pooled Fund study has recently demonstrated that the underlying data tracking and simulation systems also hold substantial potential for supporting high-level evaluation of winter maintenance operations.

