Decision Support Part 2: Maintenance Operations

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This session explores the techniques to assess sensor accuracy, placement, and equipment and will discuss issues and opportunities revolving around data confidence in decision making.

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- Using road surface-state and infrastructure monitoring technology
- Integrating roadside data with mobile observations
- Implementing Enhanced Maintenance Decision Support Systems
- Active plow routing

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Topics discussed:

- MDSS
- Probabilistic forecasting
- Mobile road condition sensors
- Quality and quantity of data
- Fusion of RWIS, traffic, AVL data
- Automated measurement of an event

Gaps

- How to expand performance monitoring concept like Idaho.
- Mobile sensors available but which ones or how to implement?
- Should road-weather industry adopt probabilistic forecasts for decision support?

Plan to address gaps

- Case studies to help agencies understand value of implementing MDSS for performance monitoring.
- Benefit/cost analysis to determine value of new road sensors to enhance or replace conventional road reports.
- MDSS forecast error; evaluation of benefits and drawbacks of coupling probabilistic forecasts to treatment recommendations.