Decision Support Part 2: Maintenance Operations

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.
Decision Support Part 2: Maintenance Operations

- Using road surface-state and infrastructure monitoring technology
- Integrating roadside data with mobile observations
- Implementing Enhanced Maintenance Decision Support Systems
- Active plow routing
Decision Support Part 2:
Maintenance Operations

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?
Ways 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.