The Evolution of ITD winter operations

• History
  – Traditional response as recent as 6 years ago
    • Reactive instead of proactive
    • Adverse conditions such as snow floor and icy spots were common for long durations of time
    • Accident numbers were high
    • A response to the event was considered success
      – Roads were plowed to make it passible
    • Heavy equipment used for cutting snowfloor
The Evolution of ITD winter operations

Fall 2011 ITD created the first winter performance measures

- **Winter Performance index** - measured how well we deiced the roadways
- **Mobility** - measured how well we prevented ice and snow floor

These measures evaluated how effective we used chlorides and set a expectation on performance.
The Evolution of ITD winter operations

New Best Management Practices, training and strategies were constructed around chloride usage and metric attainment

- Proactive responses
- Application matrix
- Bond Breaker management
- No Borders team work
- Safer corridors
- Working through learning curves
ITD Winter Operations of today!

Good Mobility during events

Managing the bond breaker
Results of the improvement in operations

Accident Data V.S. Winter Season Severity
State Totals October-March

Red line average surface temp

Blue line average precipitation in inches

Yellow line is number of accidents x 100
ITD learning curve is continuous

- Training is continuing and evolving
- New technology
- More diverse chloride product selection
- Modification to existing equipment
- Hiring the right individuals for the future
- Accountability through metrics and performance tracking
- Responsible planning for the future
What this means to TAC

• Mobility will be the best possible
• ITD stewardship of chlorides will improve each season
• Future specs for equipment will improve efficiency's and reduce chloride usage
• Corridor management is ramping up
  – Managing surface conditions through other means than chloride usage
  – Mobilizing resources in orchestrated multi crew responses
• New products will be implemented
• Data driven decision making
Questions?

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