Challenge to the Audience

Max Perchanok, Section Chair
Maintenance and Preservation
Transportation Research Board
Workshop Objectives
An illustration

<table>
<thead>
<tr>
<th>Winter Season</th>
<th>Performance Target (%)</th>
<th>Actual Achievement (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-2014</td>
<td>90</td>
<td>92</td>
</tr>
<tr>
<td>2012-2013</td>
<td>90</td>
<td>95</td>
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<td>2011-2012</td>
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<td>2010-2011</td>
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<td>2009-2010</td>
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<td>2008-2009</td>
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<td>91</td>
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<tr>
<td>2007-2008</td>
<td>90</td>
<td>95</td>
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</tbody>
</table>
Winter blast paralyses Hwy 402 traffic

JENNIFER O'BRIEN, RANDY RICHMOND, JOHN MINER AND JONATHAN SHER, QMI AGENCY
Wednesday, December 15, 2010 8:00:00 EST AM

360 vehicles trapped
1 person dead
75,000 trips delayed

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Have we improved outcomes?

- Weather forecast
- Motorist warning
- Traffic control
- More plows, road salt
- Snow fence
- Communication
- Recovery
Value to society?

- Accident savings
- Travel savings

Legend
- Time Savings
- Fuel Savings
- Safety Savings

Kuemmel & Hanbali, 1992

Accident reduction

Figure 3: Additional safety benefit for achieving a given LOS target

Figure 4: Mobility Benefit of WRM versus WRM LOS Standard (Ontario Provincial Network)

Fu et al, 2012

TRANSPORTATION RESEARCH BOARD
Challenge to the Audience

Weather forecast + Maintenance practices = Reliable travel

Develop a plan to address gaps in research and barriers to implementation

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