Pavement Sub-Structure Scanning

Northeast Pavement Preservation Partnership
March 7-9, 2014
• Founded in 1987
• Subsurface NDE Evaluations
  – Highway and airfield pavements
  – Bridge and Parking Decks
  – Floor slabs, tunnels, pipelines, railroad tracks
• Projects in 50 US states and overseas
Typical Infrasense Pavement Projects

- **Network Level Pavement Structure Evaluation**
  - 1550 lane miles in ND, 23 Airfields in SC

- **Project Level Pavement Subsurface Evaluation**
  - Identify Extent of Concrete Base
  - Determine layer structure and remaining life (w/FWD)
  - Map AC thickness for mill and recycle
  - Identify and map subsurface voids

- **Mapping Density of New AC Pavement**
Pavement Layer Thickness
PA Turnpike
Apron Thickness Map

Thickness scale

2 4 6 8 10 12 14
Identifying Pavement Structure Changes
Rt. 2, Glastonbury, CT

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>AC over base (not PCC)</td>
</tr>
<tr>
<td>Green</td>
<td>AC over PCC</td>
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</tbody>
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Mapping Pavement Density
Rt. 125, Lee NH
Detecting Voids Beneath Pavement
LeClaire, IA