Schneider Electric
Weather Forecasting and Winter Road Maintenance Solutions

2013 FHWA Road Weather Management Meeting

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Schneider Electric Transportation Solutions

- **Weather Decision Support Solutions**
  - Comprehensive weather decision support for winter road maintenance operations
  - WeatherSentry – SaaS platform for service delivery
  - TotalView® - Integrated, open RWIS data management
  - Intelligent MDSS – Route-based, client-specific treatment recommendations
  - Smartphone app, weather web services, ITS integration

- **Portfolio of Clients**
  - 33 State and Provincial DOTs and 1000+ City and Counties
  - 25+ years of forecasting experience for Transportation

- **Forecast Accuracy Drives Accurate DSS**
  - Consult with 50 experienced meteorologists on staff (4 CCMs)
  - Meteorologists integral to creation of forecasts

- **Strategic Collaborative Approach**
  - OPEN SYSTEM APPROACH
  - Close client collaboration to increase efficiencies
  - Key partnerships for integration and options
  - Continuing engineering approach

- **Overall Benefit**
  - Improved traveler safety and satisfaction
  - Reduced chemical and labor costs
  - Reduced environmental impact
Schneider Electric and Smart Cities

- **Smart Cities initiative**... efficient, livable and sustainable
- Cities are 50% of the world’s population, 75% of the energy consumption and 80% of emissions

[Image of a cityscape with various sections labeled as Smart Buildings, Smart Water, Smart Energy, Smart Integration, Smart Public Services, Smart Mobility, and Weather Intelligence.]
Total View® = WeatherSentry® + RWIS Data Management

- RWIS Data Management
  - Schneider Electric OASyS SCADA system routinely polls your RPU’s in the field
  - Displays, archives & distributes your RWIS data

- Weather and Pavement Forecasting
  - Includes alerting and meteorologist consultation

- Both in one place!

- Hosted Solution
  - No IT support required
  - Data owned by client

RWIS Network → OASyS SCADA System → MxVision WeatherSentry Online
Web Services - Weather Content for your Applications & Websites

- Weather content for situational awareness
  - Radar
  - Forecasts
  - NWS Bulletins
  - Temperature
  - Wind Speed
  - Local Storm Reports
- Same high-quality content as in WeatherSentry Online
- Integrate into your existing applications
  - Building management system
  - Mobile asset management system
  - Customer applications
- Map Services (REST services)
  - WMS (Web Mapping Service)
  - WFS (Web Feature Service) coming soon
  - OGC standard
Example Deployment

- Alberta Transportation
- TotalView with Intelligent MDSS
  - Integrated multi-vendor RWIS
  - Route-based MDSS with AT
  - Contractor-specific treatment recommendations

![Snow Depth on Road](image1.png)

![Pavement Condition](image2.png)

![Route-Specific Treatment Recommendations](image3.png)
Additional TotalView Deployments

- Massachusetts DOT
- Michigan DOT
Same technology as in the Integrating Clarus Data with the 511 New York Traveler Information System, June 30, 2011
Thank you!

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