

Open Data under the Clarus Initiative

Mobility Program Workshop Arlington, Virginia December 1, 2010

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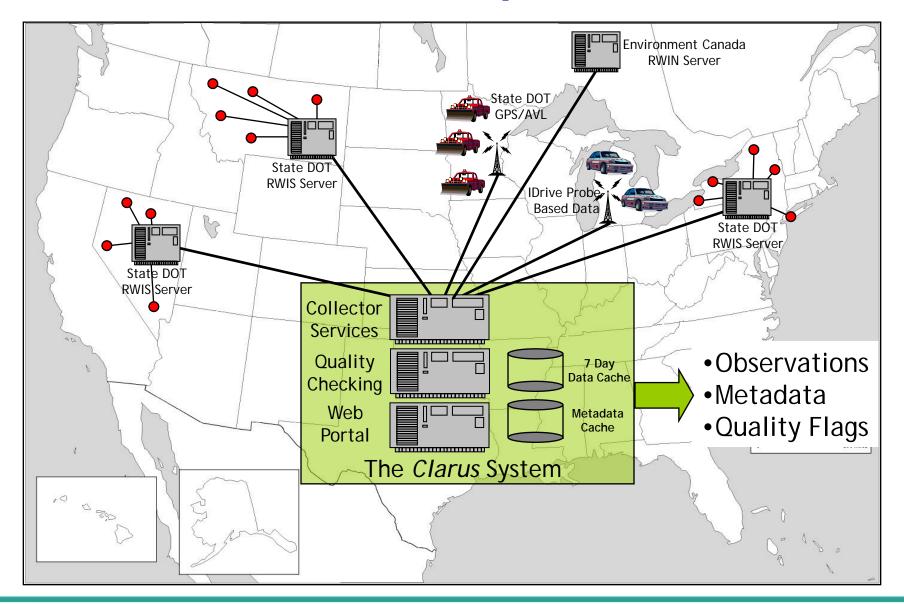
Outline

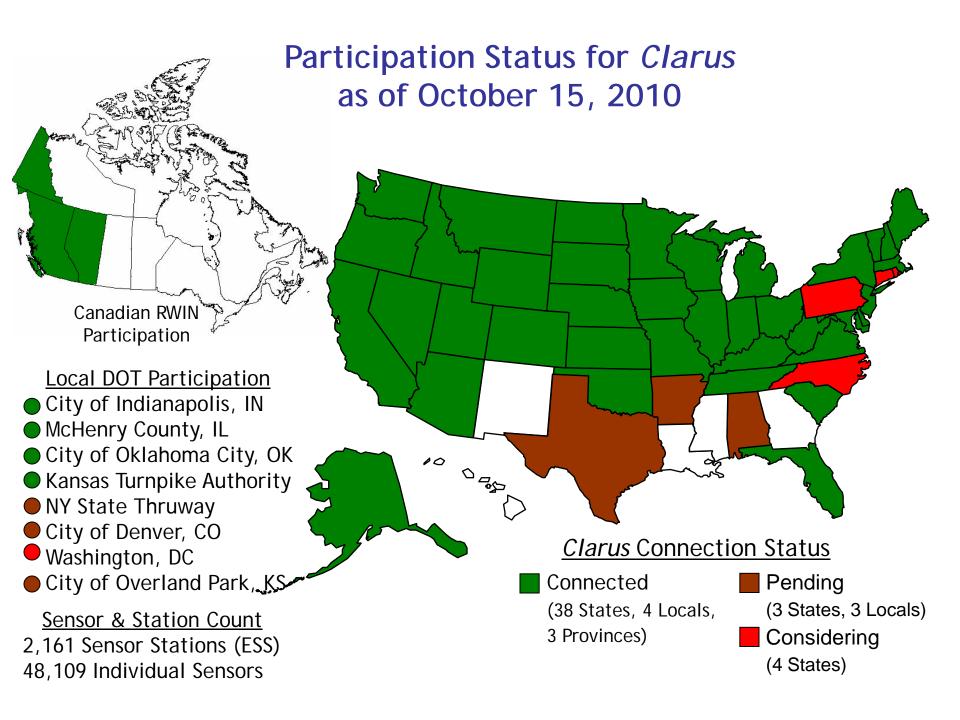


- Clarus overview and open data
 - Focus on data feeds into and out of the Clarus System
- Liability concerns



Clarus Overview and Open Data





Data Feeds into/out of Clarus



- Data feeds into Clarus
 - We'll ingest the data in any format we can get it
 - Prefer NTCIP 1204
- Includes full metadata for each sensor station
 - As important as the data itself
- We do not require data sharing agreements but expect to when moved to NOAA
 - Protects provider everyone on same page about use of data
 - Data provider gets to limit who gets to their data for use
- Data feeds out of Clarus
 - Accessible via the Clarus System www.clarus-system.com
 - Website includes disclaimer
- Data outputs available in 3 formats: XML, CSV, & CMML
 - In processing of working with mapping format KML
 - Clarus data provided in support of final end products



Liability Issues

- Examined RWIS-related liability concerns and identified recommended strategies for addressing policy and institutional issues
- Work conducted by the Natl. Conference of State Legislators (NCSL)

Methodology:

- Conducted legal review to identify law/precedence on liability exposure
- Reviewed relevant statutes and legal statements for all 50 States and the District of Columbia
- Surveyed experts

Primary Institutional/Policy Issues:

- 1. Dissemination of RWIS information directly to traveling public
- 2. Providing RWIS information indirectly, through third party such as *Clarus*
- 3. A DOT's duty to respond to RWIS notifications of hazards
- 4. Liability for not using RWIS when expected or indicated.

Key Takeaways



#1: RWIS is a largely unexplored question of law — which must be conceptualized within complex, state-specific legal contexts.

- Sovereign immunity and exceptions to waivers of immunity
- Limitations on assuming duties of care
- Weather immunity statutes

#2: RWIS is a tool that can help reduce state exposure to liability.

- Helps state DOTs meet traditional legal duties to correct or warn of known, dangerous conditions
- Can provide evidence for a DOT

#3: Over half of the surveyed experts identified no RWIS-related liability concerns.

 19 of 36 responses, representing 18 State DOT



Report Guidance for RWIS Users

#4: State DOTs and legislators have many strategies to address RWIS-related liability concerns.

Data Sharing Strategies:

- Limits on Information Sharing
- Online Disclaimers
- Agreement with Third Parties
- System Optimization

DOT Departmental Policies and Regulations

- Public Outreach and Education
- Risk Management
- Ongoing Allocation of Funds

Legislative Strategies

- Legislation Relating to Tort Liability and Immunity
- Appropriations

Report



- Final Report is available on line at:
 - At FHWA: http://www.ops.fhwa.dot.gov/weather/index.asp
 - At NCSL:
 http://www.ncsl.org/documents/transportation/Weather or Not Full Report R all 04.30.10.pdf



Q&A