

# *Clarus* ICC Meeting #6 Overview & Objectives

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Silver Legacy, Reno, NV

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# The *Clarus* Initiative

- 30+% of the attendees today are participating in an ICC meeting for the first time
- The *Clarus* Initiative is a federally funded project jointly directed by FHWA & RITA of USDOT. The program managers are:
  - Paul Pisano, FHWA
  - Ben McKeever, RITA
- *Clarus*, Latin for “clear,” is a result of a recommendation from the National Academies report, *Where the Weather Meets the Road*



# The *Clarus* Initiative

- The **objective** is to provide clear, relevant weather information on the roadway conditions to all transportation managers and users
- The **goal** is to alleviate the effects - fatalities, injuries and delays - of adverse weather and road conditions in a cost-effective manner



# The *Clarus* Initiative

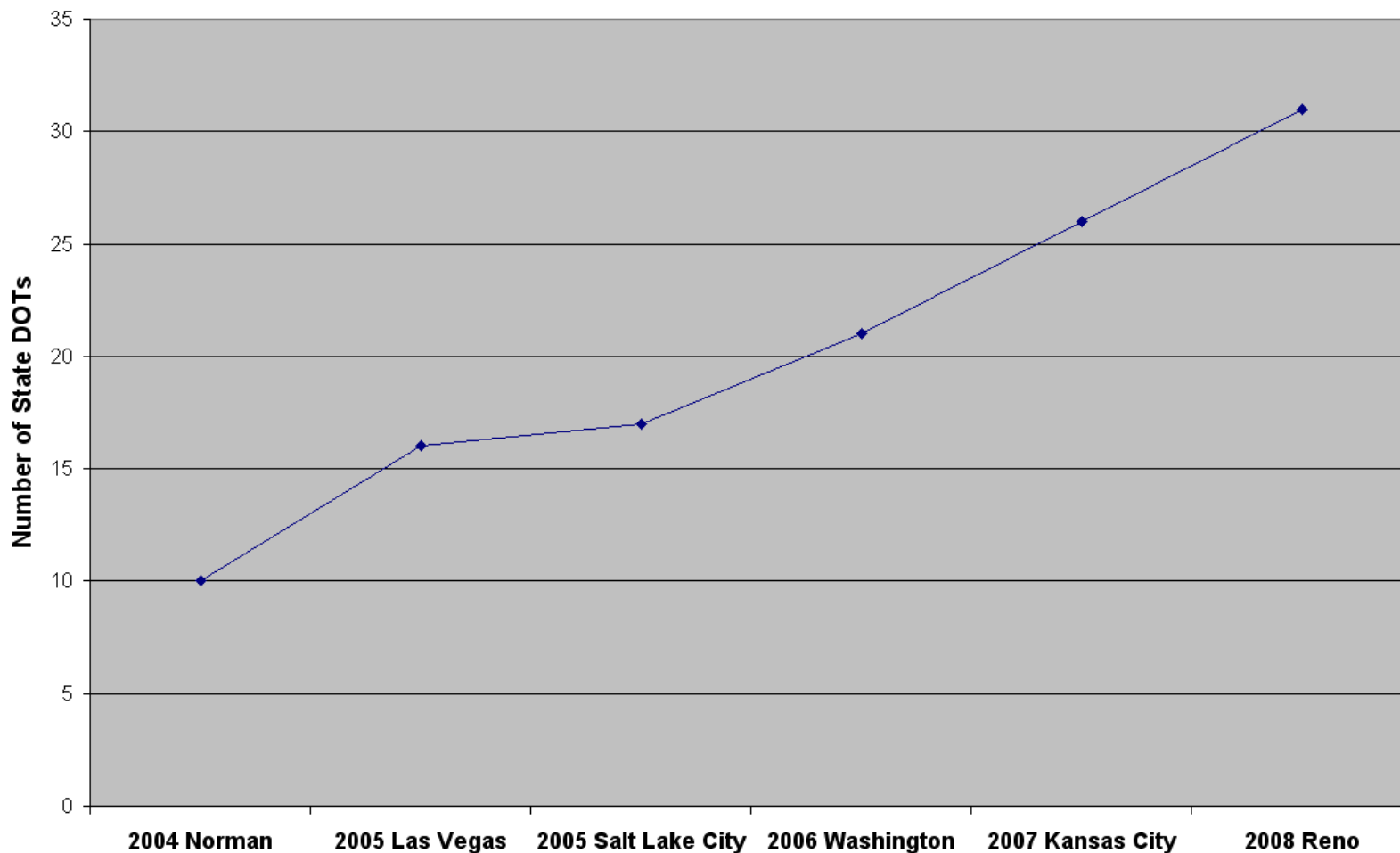
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- The *Clarus* Initiative is the program to design, implement & populate a data management system to collect, quality check & make available all public transportation agency operated atmospheric & pavement observations & metadata
- The *Clarus* System is the hardware & software portion of the Initiative
- Mixon/Hill, Inc. of Overland Park, KS is the contractor who built, operates and maintains the *Clarus* System on behalf of USDOT



# State DOT Participation

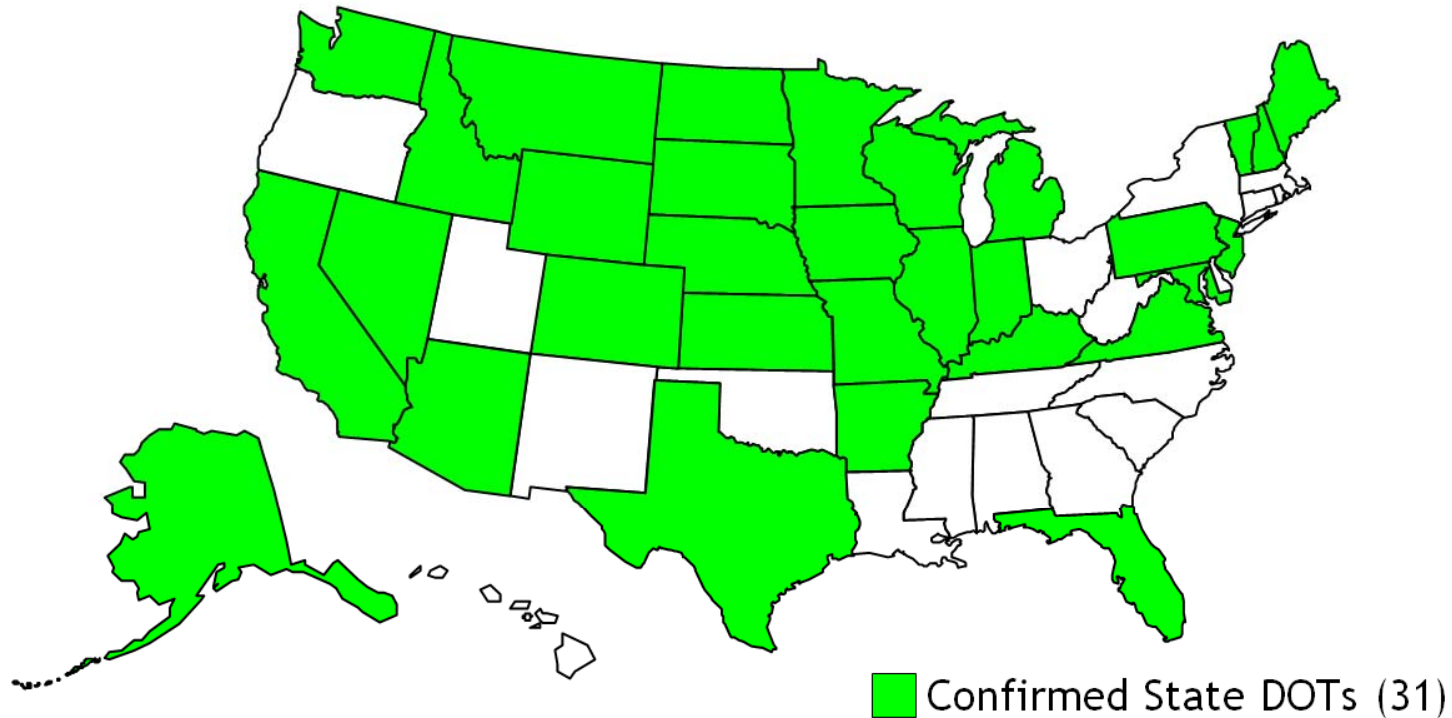
Number of State DOTs Participating in Clarus ICC Meetings



6<sup>th</sup> Clarus & 10<sup>th</sup> MDSS Stakeholder Meetings, August 4-7, 2008, Reno, NV



# Clarus ICC#6 Attendees



## Additional Transportation Agency Participants

- |                            |                           |
|----------------------------|---------------------------|
| McHenry County, IL         | Environment Canada        |
| City of Grand Prairie, TX  | City/County of Denver, CO |
| City of Virginia Beach, VA | NY State Thruway          |
| Dallas Area Rapid Transit  |                           |



# Private Sector Attendees

- AnythingWeather Communications
- Baron Services/XM Radio
- Cambridge Systematics
- DTN/Meteorlogix
- High Sierra Electronics
- IWAPI, Inc.
- Meridian Environmental Technology
- Quixote Transportation Technologies
- Vaisala, Inc.
- Vanus, Inc.
- WSI Corporation



# Academic Sector & Int'l Attendees

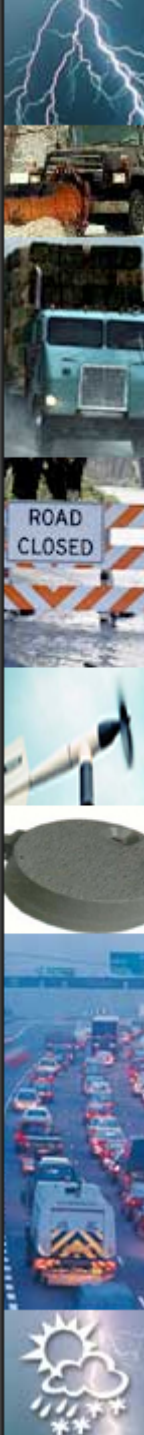
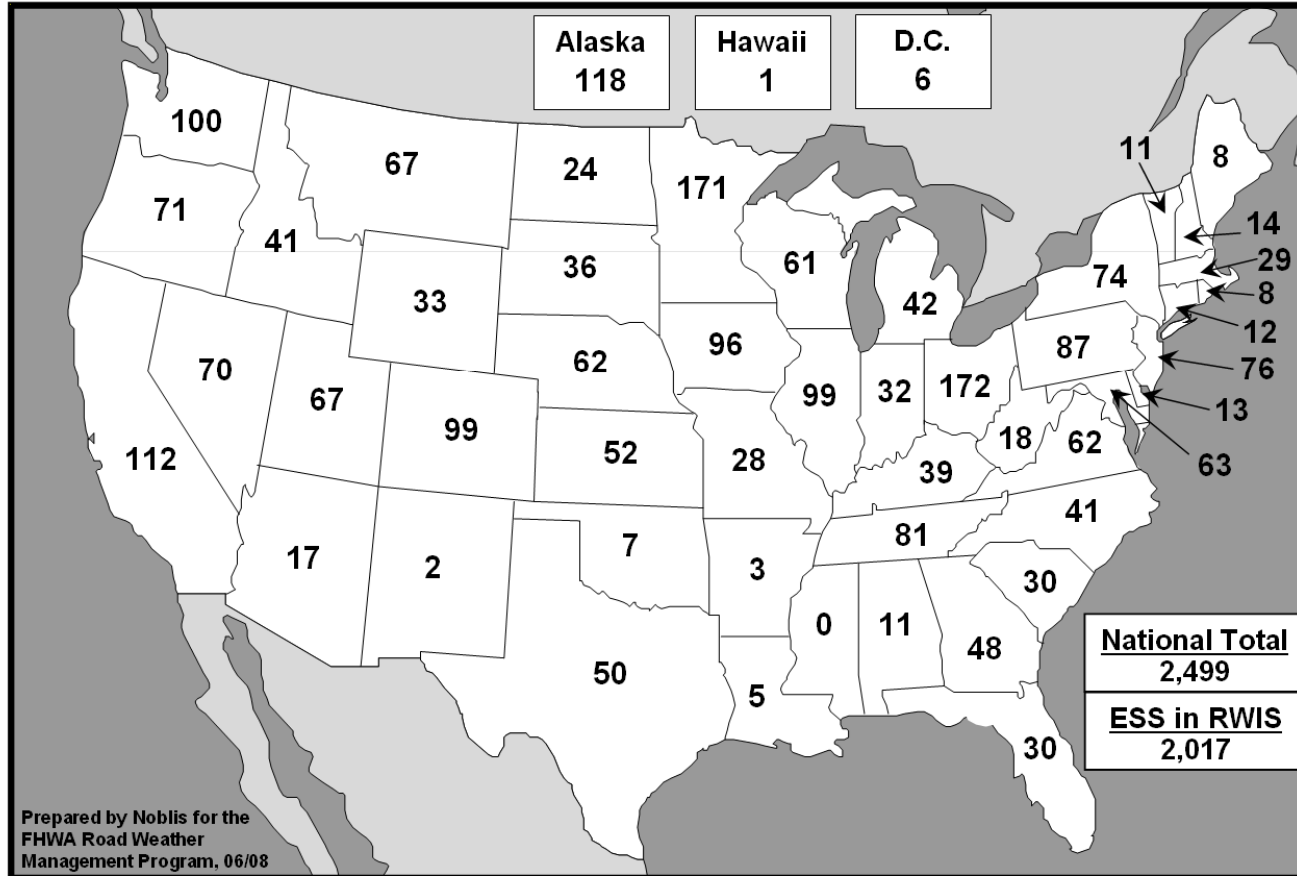
- Environment Canada
- National Center for Atmospheric Research
- New Jersey Institute of Technology
- Texas Transportation Institute
- Western Transportation Institute



# ESS Deployment

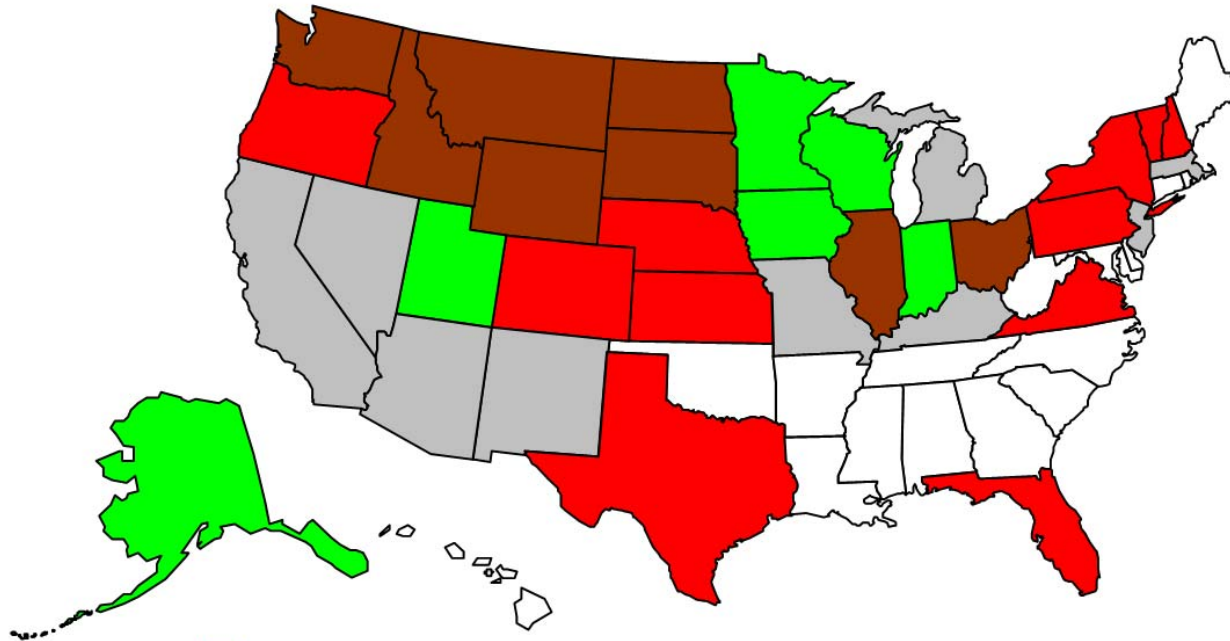
## ESS owned by State Transportation Agencies

An Environmental Sensor Station (ESS) is any site with sensors measuring atmospheric conditions, pavement conditions, and/or water level conditions.



# Status after 2007 ICC Meeting

## Participation Status in *Clarus* as of 30 September 2007



Connected to Clarus (6)

Partially Connected\*

Pending Connection

Considering Connection

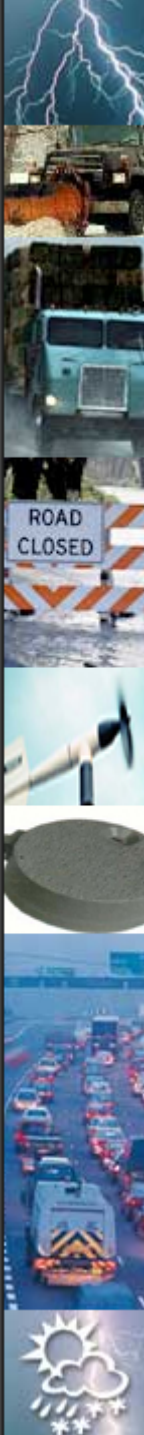
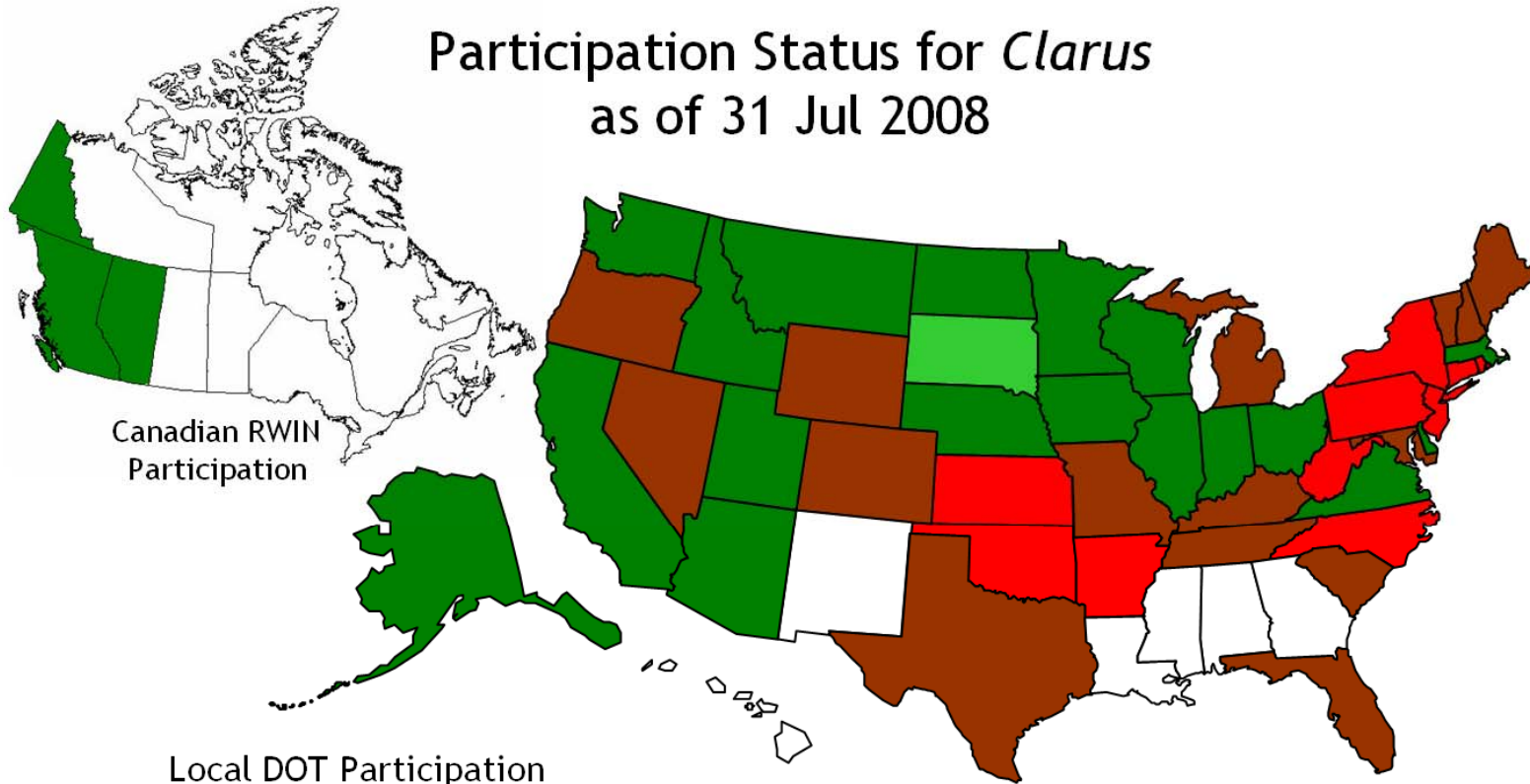
Participated in Stakeholder Meetings

\*Not shown: Alberta,  
British Columbia & Yukon



# Status Today

## Participation Status for *Clarus* as of 31 Jul 2008



# Meeting Objectives

- Update stakeholders on the Initiative
  - *Clarus* System Updates & Data Availability
  - Regional Demonstration Status
  - Update on the transition to NOAA
  - Present *Clarus*-related training
- Share experiences
  - In nearly all sessions, time has been provided for interaction. Please participate!
  - A survey will be conducted after the meeting. Details provided via email.



# Session Topics

- Session 2: *Clarus* System Update
  - Upgrades to the *Clarus* System & GUI
  - Next generation quality checking algorithms
- Session 3: The *Clarus* Transition
  - Update on transition plans with NOAA
- Session 4: Training
  - New ESS Siting Guidelines
  - New road weather training courses



# Session Topics

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- Session 5: *Clarus* Experiences Discussion
  - Use of *Clarus* data by industry
  - Integration of *Clarus* data by U.S. and International transportation agencies
  - Discussion of shared experiences with *Clarus*
- Session 6: Regional Demonstrations
  - Updates on each demonstration phase
- Session 7: Data Governance Issues
  - Disclaimers
  - Data Use Agreements
- Session 8: Update on VII

