

### Agenda



Overview and Background

Experiences:Challenges andSolutions

Planned FutureEnhancements

# Why did Idaho need a new system?

- Phone system overloads
- Outdated user interface
- Limited breadth of information
- Disconnect with national 511 standards
- Lack of timely and accurate information

#### Expected additional benefits

- Potential to improve safety
- Improved efficiency
  - Greater use of automation
  - Combined processes



## Idaho Traveler Services History

- Decision to implement 511 (early 2004)
- Selection of CARS system (late 2004)



- Established system
- CARS coalition cost sharing
- Ability to handle call volumes

### System Development Goals

- Desire to provide comprehensive traveler information
- Foster partnerships among agencies with traveler information interests
- Focus on improved accuracy and timeliness
- Initial system
  - Focus on winter driving conditions
  - Other available information

#### Program Schedule

Initial system planning and design . . 2004-2005 Beta testing and training . . . . . . . Sep-Oct 2005 System live (initial system) . . . . . . Nov. 2005 Operation and refinements . . . Winter 2005-2006 Additions . . . . . . . . . . Jan. 2006 – present Road Work Trucking Spring Additions Live . . . . . . . . . April 2006 System refinements . . . . . . . . . . . . Ongoing

# Idaho Travelers Services System Providing Information Travelers Need to Know

Winter Driving Conditions

Road Work activities that impact traffic

Commercial Vehicle Delays, restrictions Incidents that occur on Idaho highways



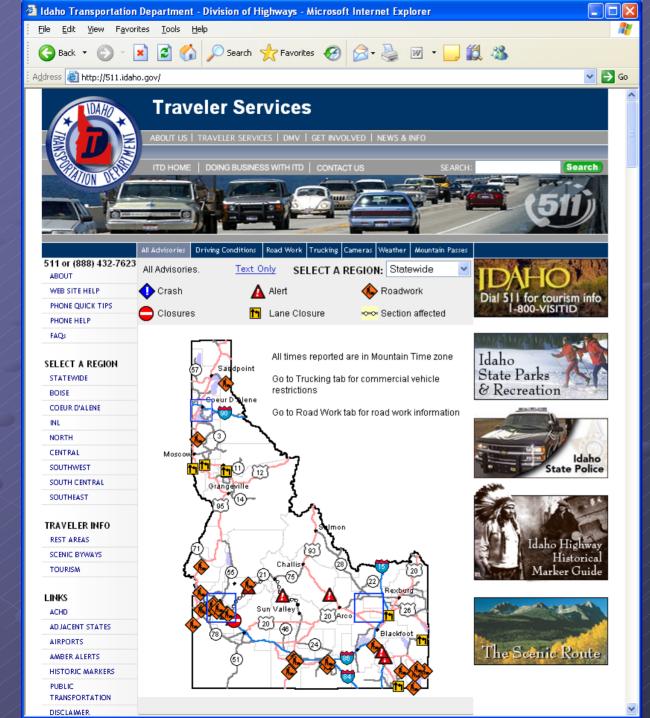
Data Entry



CARS: Condition Acquisition and Reporting System

Public Access: web/phone





http://511.idaho.gov

### Data Entry Approach

- ITD's relationship with State Communications. They:
  - Provide District maintenance operations dispatch
  - Are responsible for road closures/openings
  - Collect winter road conditions by roadway segment from maintenance Foreman
  - Input into CARS at two designated times per day and provide backup for exception reporting
- ITD Districts input exception reports into CARS during normal business hours\*

Experiences: Challenges and Solutions

# Challenges (selected for discussion)

- Procedural Changes within Idaho Transportation Department
- Segment-based Reporting of Winter Road Conditions



- Location Descriptions in Rural Areas
- To Time Stamp, or not to Time Stamp
- Maintaining Multi-Agency Involvement and Support

Experiences: Challenges and Solutions

### ITD Procedural Changes

#### THE CHALLENGE

- Extensive winter road condition reporting procedures implemented to fit new system
  - Times of day and exception reporting
  - Who to report information to
  - What and how to report information
  - How to enter information into the system
- Institute changes obtain buy-in and compliance

### ITD Procedural Changes

#### THE SOLUTION

- Developed brief concept paper and circulated for comment
  - Worked through established Maintenance Steering Committee
  - Revised as appropriate
- Obtained support from management
- Found "champions" to support implementation
- Training, training, training!
  - Conducted at the Districts
  - Weekly statewide video conference calls to address issues

Experiences: Challenges and Solutions

## Segment-based Reporting

#### THE CHALLENGE

- Idaho reports winter road conditions for 200+ segments
  - CARS not built to handle this type of data entry
- Initially, State Comm was spending more than 3 times longer to input conditions, than previous system
  - It was nearly impossible to support

### Segment-based Reporting

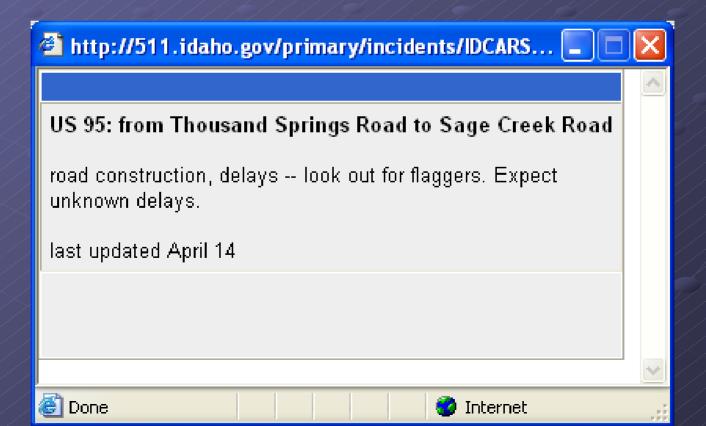
#### THE SOLUTION

- Idaho requested that Castle Rock develop a tool to facilitate segment based data entry
  - Cost shared with Iowa and Maine
  - Tailored to Idaho specific segments and needs
- Tool was in place about 1 month after system initiation
  - It worked!
- Refinements are being made to the tool for upcoming winter season

### Location Descriptions in Rural Areas

#### THE CHALLENGE

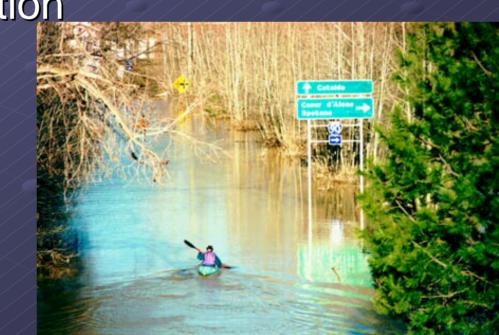
Lack of recognizable location descriptors in rural areas



## Location Descriptions in Rural Areas

#### THE SOLUTION

- Adding in free text to describe location, where possible
  - "Event is 2 miles south of \_\_\_\_\_ city"
- CARS next generation to implement more sophisticated approach
  - Near city locations



#### Time Stamp, or no Time Stamp

#### THE CHALLENGE

- Idaho's philosophy
  - Keep the information accurate and current and no time stamp would be necessary
  - Didn't want to confuse users with various update times
  - Problem was always having accurate and current information
- Users strongly requested a time stamp on events

### Time Stamp, or no Time Stamp

#### THE SOLUTION

- After much discussion and thought, realized better to let users know when events were last updated
- Idaho implemented a time stamp
  - Time stamp for each event = event update time
- Currently implementing change within CARS to easily update an event time stamp without altering the event
  - When conditions are evaluated and do not change

#### Multi-agency Involvement and Support

#### THE CHALLENGE

- Idaho traveler information system is broad based involving several agencies
- How could we effectively "involve" all participating agencies
- Need for multi-agency support and participation to develop and implement the new system





#### ITD unveils new 511 travel information system

ITD formally launched a new statewide travel information service Tuesday that provides updates on winter road and weather conditions, emergency closures and access to tourist information 24-hours-a-day, seven-days-a-week.

By calling 511 or visiting 511.idaho.gov on the Web, travelers will have access to travel conditions as they change on Idaho's highways and will receive more timely and accurate information. The new system also includes more than 70 Web cameras located across the state. Idaho 511 will share 576 telephone lines with multiple states, minimizing the chance of callers getting a busy signal during winter storms.

"A well informed motorist travels smarter and travels safer," said Charles L. Winder, chairman of the Idaho Transportation Board.



Within minutes of road and weather conditions being reported from transportation department snowplows, the information will be updated on both the Web site and telephone system.

"Timely information is critical to making the best travel choices," Winder added. "Idaho's new 511 system not only will provide current road and weather conditions, but is free and easy to use."

The 511 phone system uses voice recognition technology, enabling callers to get information simply by speaking into the telephone. It also enables callers to make selections using the phone keypad.

The 511 idaho gov site is designed for easy navigation and features clickable maps.

#### Multi-agency Involvement and Support

#### THE SOLUTION

- Step 1: Established stakeholder group to help develop system and provide early input
  - 19 agencies participated
  - Conducted 4 meetings over 10 month period

Step 2: Established Advisory Council to Idaho

Transportation Board

- 11 members
- Establish partnership
- Provide policy level input
- Provide strategic oversight
- Guide future system enhancements



### Planned Future Enhancements (FY 07)

- Automated notifications subscriber based (public agency and media only)
- Center to Center Interfaces to share information with other sources
- Enhancements to CARS 511
- Next Generation CARS Web
- Mileage Calculator and Route Summary

### **Potential Future Enhancements** (FY 08 and Beyond)

- Inclusion of Some Local Roads for Detours
- Expansion of Notifications to the Public
- Expansion of CVO Information
- More Automated Data Collection and Entry Directly into CARS
- Improved Weather Information
- CARS 4 Implementation



#### Safe.

Before leaving home or work

tion on the phone or on the Web, 24 hours-a-day

Call 511 from any phone, or visit 511 idaho.gov

for continual updates on interstates and other major state

#### On the phone

- Dial 511
- Speak or use your keypad

- 511.idaho.gov
- View traffic cameras

Travel Smart. Travel Safe.

#### Other Observations

- Listen to your users and take their input seriously
  - Many changes made since initial system start-up
- Change is good . . . . NOT
  - Users had difficulty with "new" system
- Can't be all things to all people
  - Need to strike a balance
- Technology problems are the easy ones
  - Getting people to change their philosophy and processes have been the most challenging

