IUapl_®

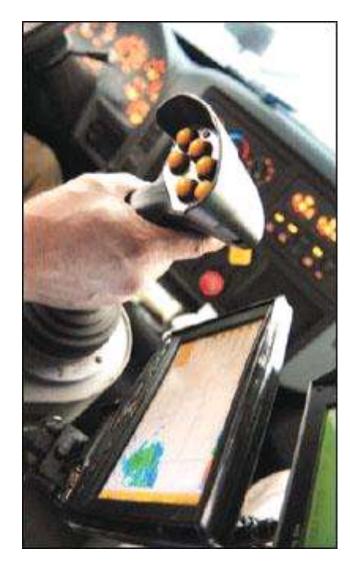
Denver Office



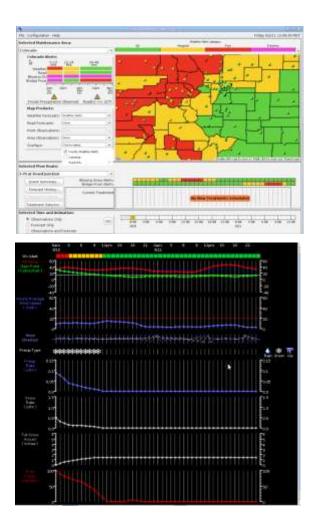
Road Weather

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(New) MDSS & In-Vehicle Systems



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SUPPORTING **MAINTENANCE &** ITS USE OF...

TRADITIONAL MDSS

SYSTEMS

(Based on Fed Prototype -**Central Processing**)

Meridian

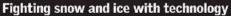
Vaisala

Telvent

IWAPI – Based on Latest

FHWA Release

(w/ live feeds from trucks)



Knowing when to treat the roads before a snowstorm used to be partly guesswork - sometimes a Notwing what to trait the folds before a showsomm used to be party quessions. — Sometimes a radio forecast or even an activity joint, Bitt this winter the Colorado Departiment of Transportation is using a new system that rivels battlefield technology. The key to the Maintenance Decision Support System is a computer program that sorts through weather forecasts, radiar and temperature readings and combines that information with real-time observations from snowplow drivers and maintenance shops. Ultimately, that leads to one plan of attack.

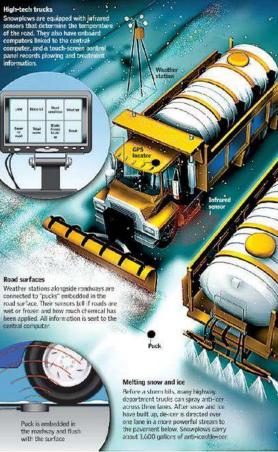
Key pieces of system Colorado Springs

Weather information



Weather stations: Hundreds of sites across the state send readings for temperature, wind, dew point, hourly precipitation and snowfall to a central computer. That and satellite information is combined with 15 forecasts. Once real-time information from snowplow drivers is added, the most accurate weather prediction is selected.

Selected roads: The MDSS was successfully Selected rows, the most was successfully tested in the Greeley area last year. It has expanded this year, but because of limited equipment, it is designated for highways that often see difficult weather conditions.



Source, Rev Smith and Alan Martiner, Colonale Department of Transportation Jon Marena, Joe Watt and Jeff Coertzen. The Denver Part

IUapl

NEW DISTRIBUTED MDSS SYSTEMS by IWAPI

MDSS Refined & Rebuilt -**Distributed Processing**)

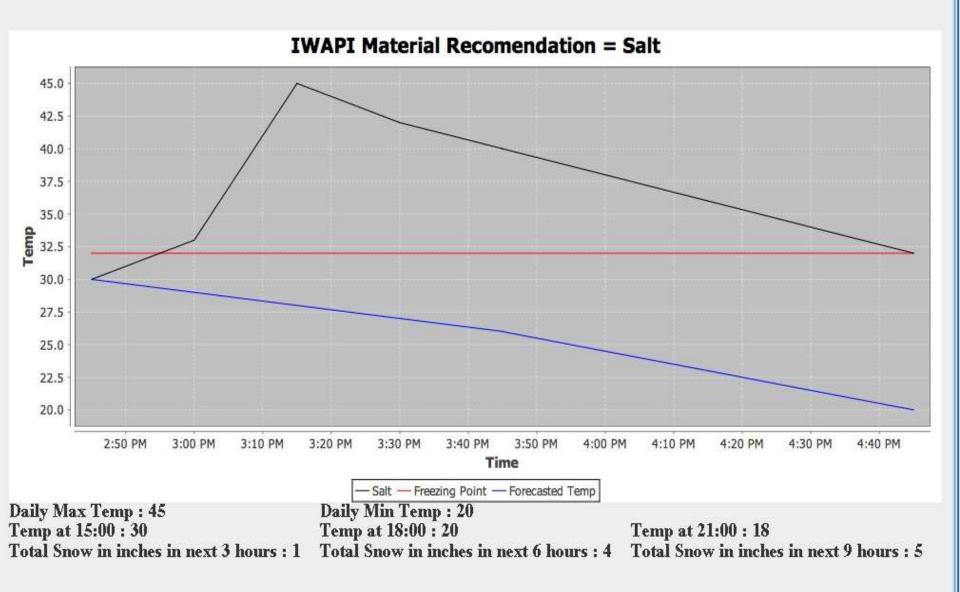
More Responsive to Local Weather

Guidance In & Out of Coverage

Standardized Interfaces for Plug and Play Use of Weather Service Providers Most Accurately Calling Forecasts for Your Area

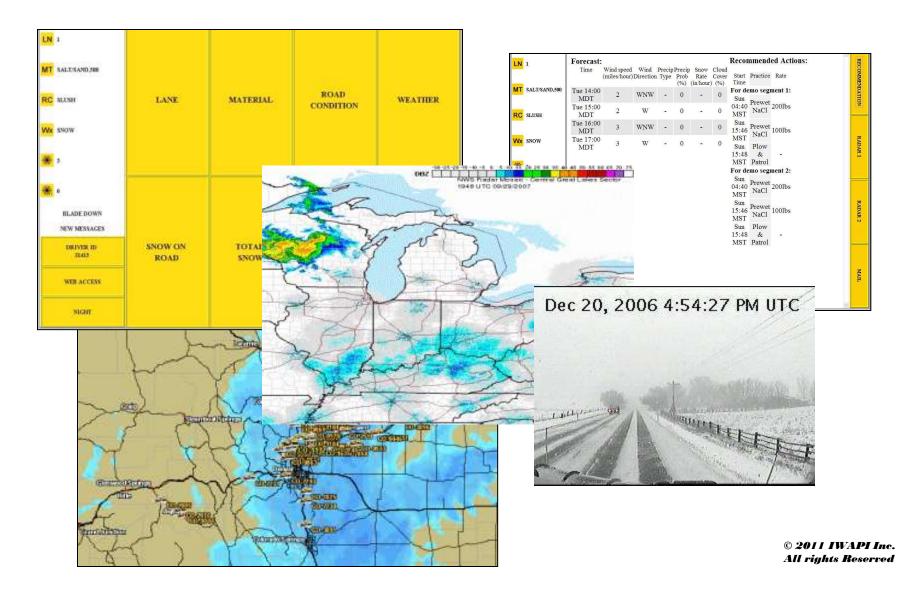
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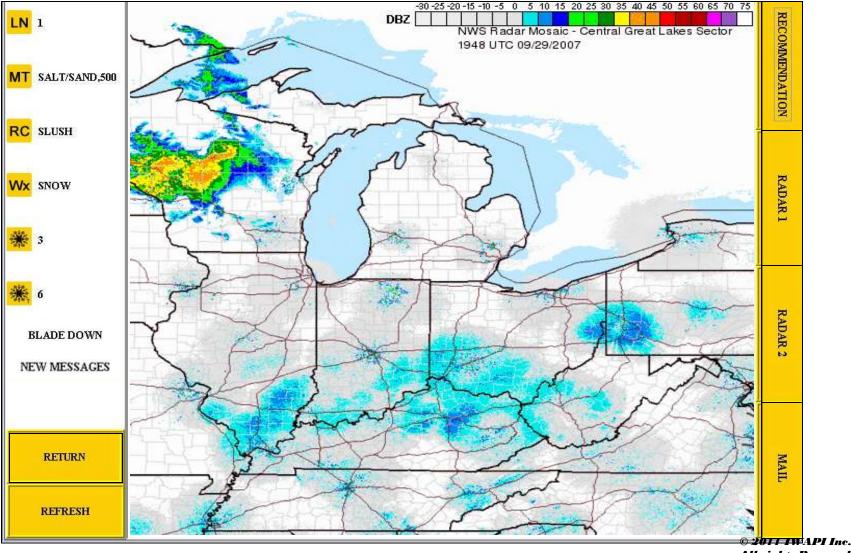
Configurable Screens & Year Around Applications







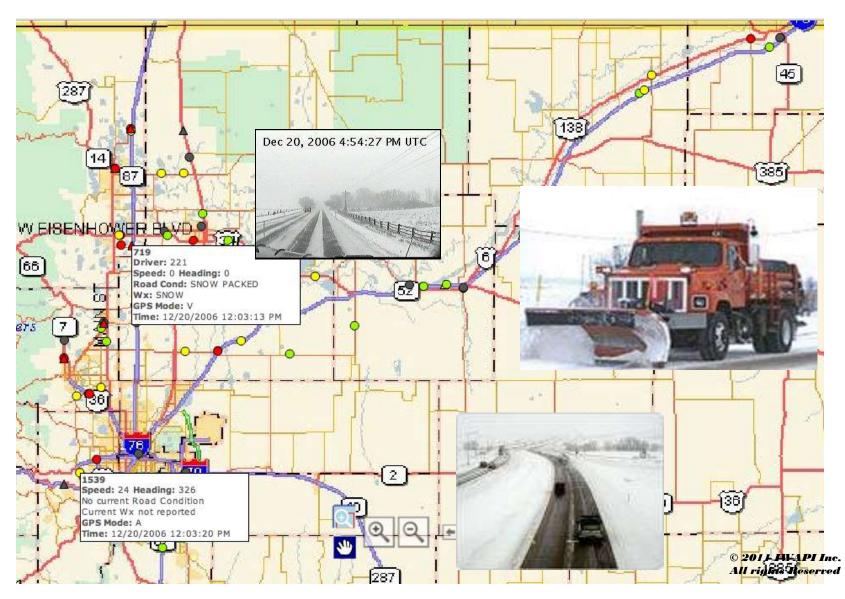
Time Lapse Loop Composite



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Live Displays Office, Home & Mobile Access





iuapi[®] W EISENHOWER BLVD Driver: 221 peed: 0 Heading: 0 oad Cond: SNOW PACKED 59 Wx: SNOW in. SPS Mode: V te: 12/20/2006 12:03:13 PM ٩ 275 361

Temps

Cameras

• Front & Rear

Blade & Load

Materials, Quantities & Locations



2

287

Vehicle Information

Established Standards



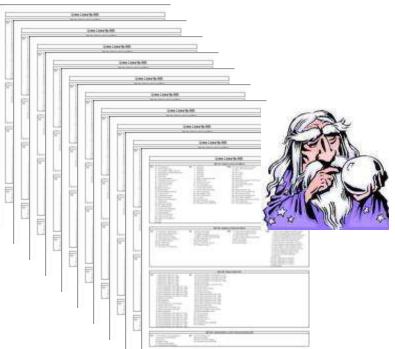
Electronics High – IWAPI (Computer)/Modem Mid - Some Controllers Low - Other Controllers & Sensors Base - SAE/MID Codes

Standard SAE/MID Codes

- J-1939/1708/1587 • Warning Messages
 - Temps, Brakes & Wipers
 - Fuel, Odometer

& More



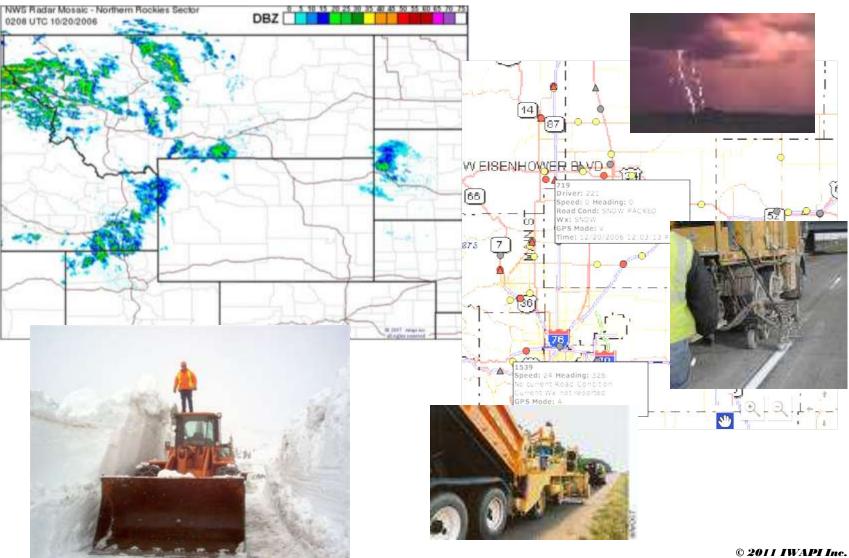






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Year Around



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ACCESS What you need – Where you need it



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