# **Federal Prototype MDSS**



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# **Background**

Maintenance Decision Support System (MDSS)

- ♦ First version was developed in 2001
- ♦ Version 6.1 recently released
- ♦ Deployed over Denver, E470 Toll road, Denver International Airport, A1 Highway Madrid
- ♦ Plans for deployment in complex terrain





#### **MDSS** - Issues

> Tactical Forecasting

> Forecasting in Complex Terrain

> Pavement model issues (non-winter, high latitudes)

> Usefulness in Airport ground environment

**Complex Decisions** 

Treatment recommendations

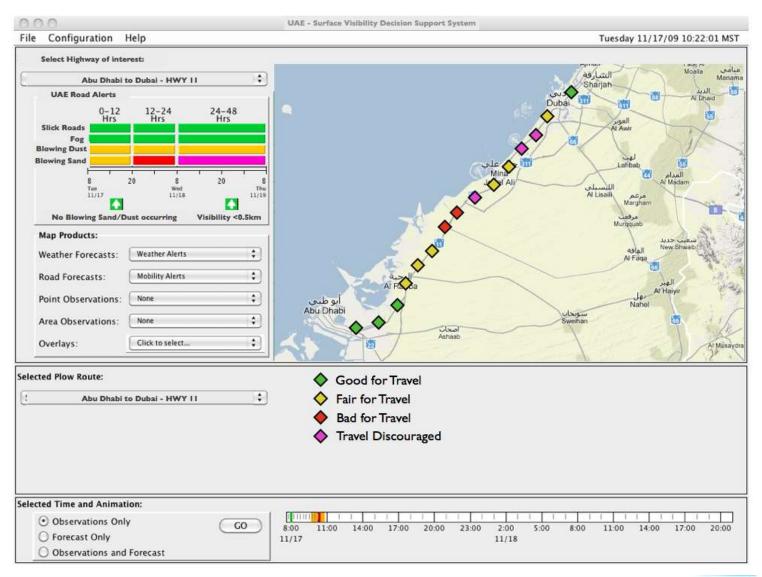


### **Future MDSS-type Systems**

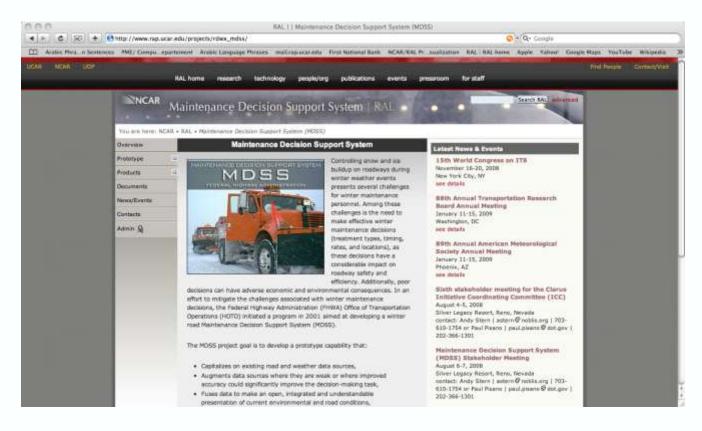
- ➤ Non-winter maintenance pavement, precip, lightning, etc.
- > Fleet routing
- > Emergency Services
- ➤ Complex Airport DSS
- > Rail
- > Visibility
- \* Some of this still needs to be researched out



# **Future MDSS-type Systems**



### **MDSS Information**



http://www.rap.ucar.edu/projects/rdwx\_mdss

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