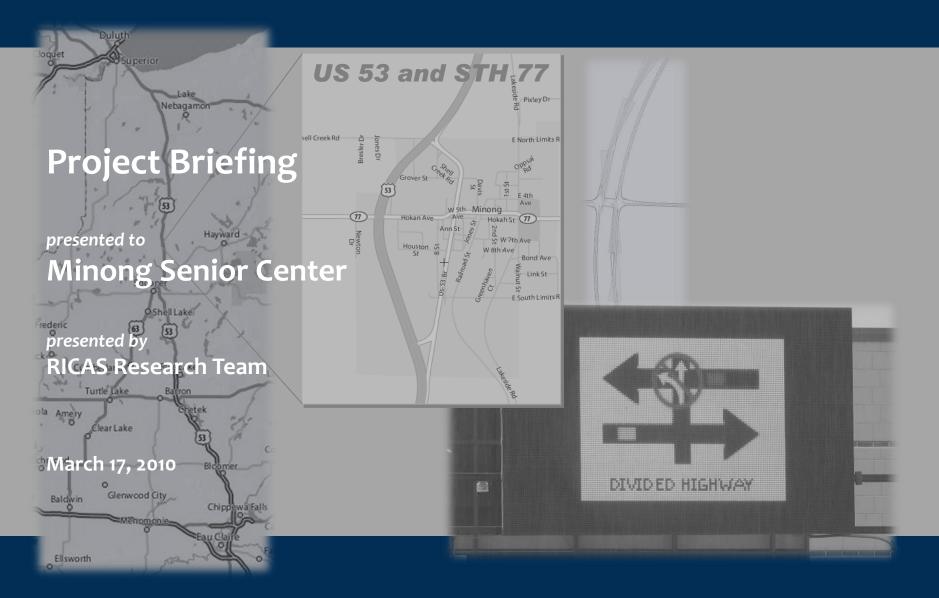
Rural Intersection Collision Avoidance System (RICAS)





PRESENTATION AGENDA

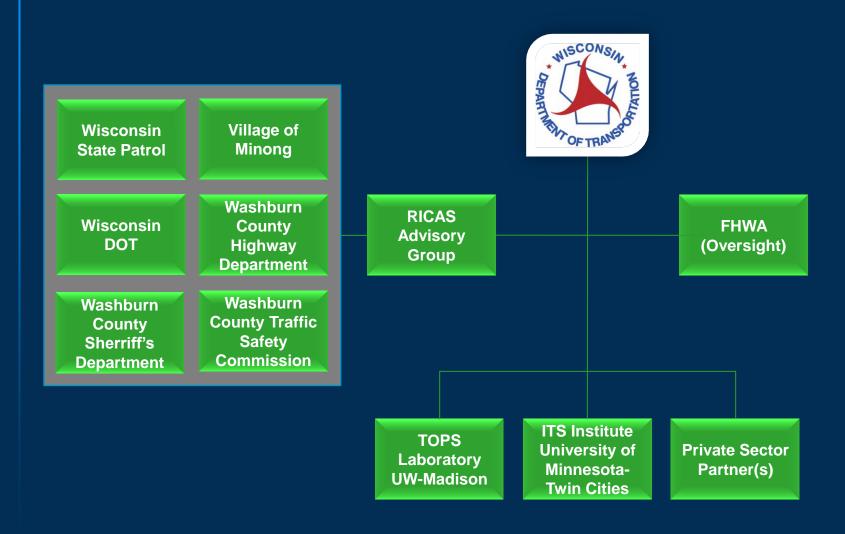


- RICAS Advisory Group
- US 53/STH 77 Intersection Safety Characteristics
- Development of RICAS in Minnesota
- System Overview
- Cannon Falls, MN Videos
- Example Intersection Scenarios
- Expected Project Benefits
- Project Schedule
- Questions



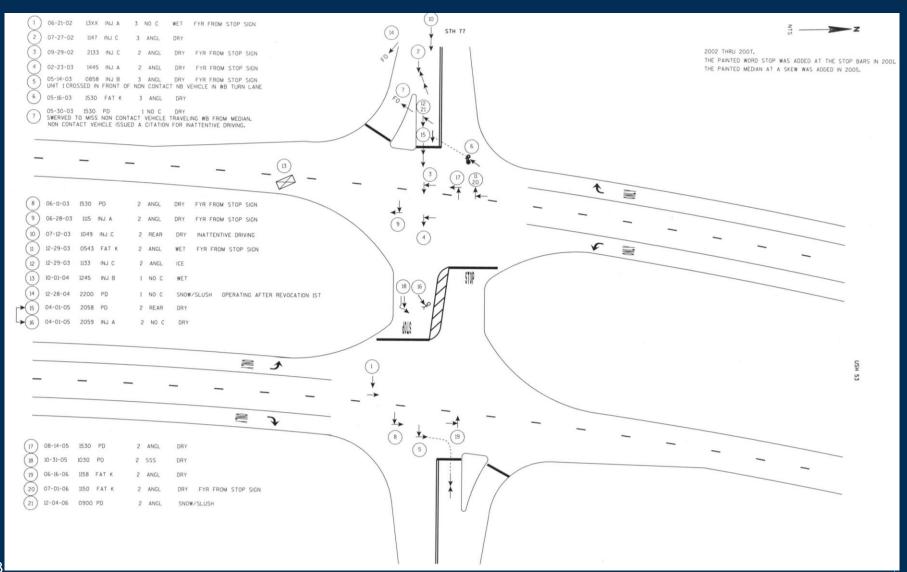


RICAS Advisory Group



US 53 and STH 77 Safety Characteristics







Development of RICAS in Minnesota

Signing Studies



Simulator Studies

On-Road Studies





RICAS COMPONENTS



 Electronic Message Signs – relay alerts and warnings to side-road drivers as determined by the computational system



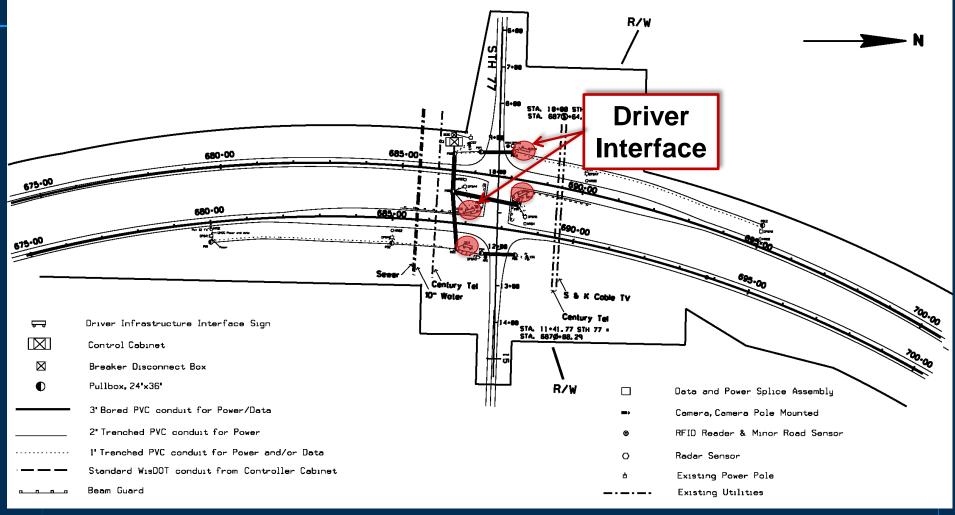
Actual sign: 66" x 92"; 80 x 112 pixels (20 mm pitch)



View of the near-side sign. Unsafe to cross.

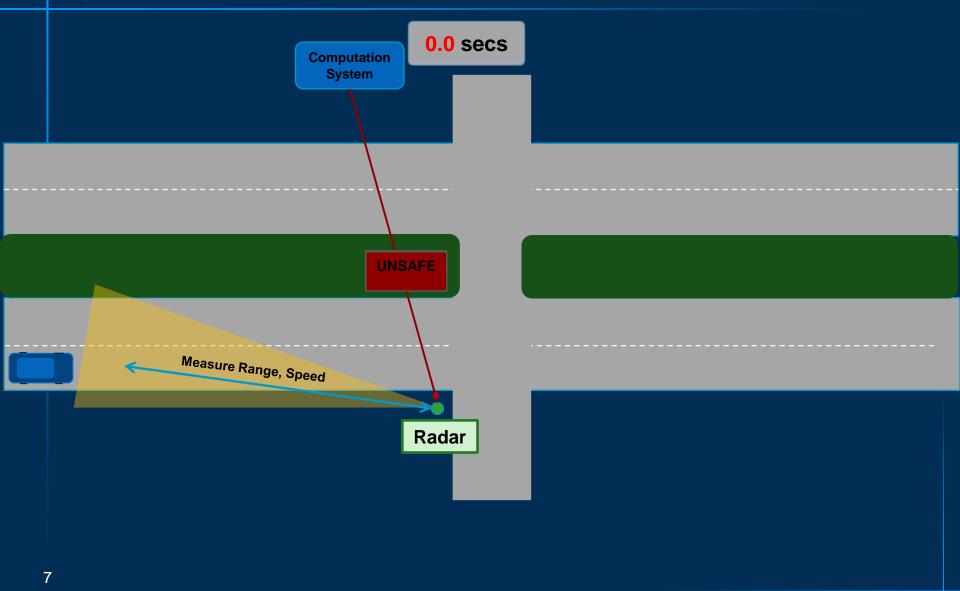
Mainline traffic on the left and right is less than 7.5 seconds away.







System Overview





Cannon Falls, MN Videos



Example Intersection Scenarios



Traffic From the Left: No traffic, ok to cross

Traffic From the Right: Traffic Coming, Be Very Cautious



Example Intersection Scenarios



Traffic From the Left: Traffic Coming, Be Very Cautious

Traffic From the Right: Traffic Coming, Do Not Cross



Example Intersection Scenarios



Traffic From the Left: Traffic Coming, Do Not Cross

Traffic From the Right: No Traffic, Safe to Cross







DIVIDED HIGHWAY

14



DIVIDED HIGHWAY

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EXPECTED PROJECT BENEFITS



- Reduce the frequency of crashes at the intersection of US 53 and STH 77 in Minong
- Better understanding of drive behavior, both by frequent and infrequent users of the intersection
- Documentation of the safety benefits to support a benefit-cost analysis
- Pending proper evaluation, provide motivation for further deployments throughout the U.S.



QUESTIONS

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