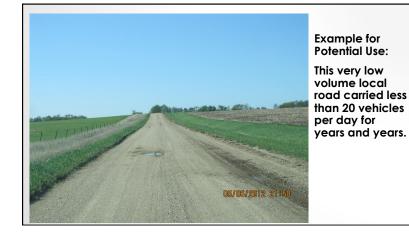


HOW THIS TECHNOLOGY CAN BE USED:

- A cost effective means to assessment local roads better than a "windshield" survey.
- Assessment of roads prior to change in functional class
- Example: Local Road changed to Agribusiness Access
- Assessment after catastrophic events
- Example: Post flood assessment
- Assessment prior to use for detour or construction haul roads







Overall condition was fair, but always a problem section in the spring.

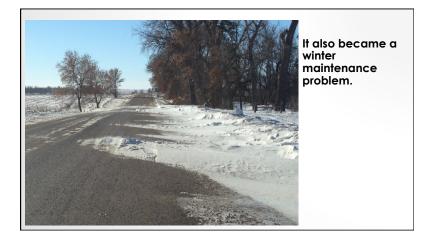




Then, late in 2011 a large commercial dairy was permitted along this road.

It became the primary access route.







Bigger perspective:

What happens if one of these delivers grain?

Many people (including the SD Dept of Ag) realized significantly greater improvement was needed after the dairy was built.

Aerial imagery would have been extremely helpful to show the potential problems



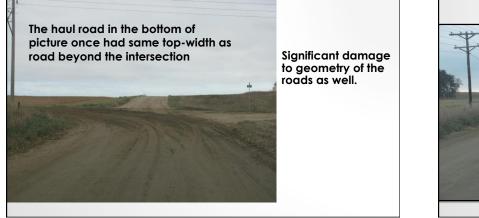














Existing roads too narrow for trucks to meet – added routes had to be used to keep trucks from meeting one another – increasing miles of road affected.







Big problem at end:

Restoration by the Wind Tower Const Company – but to what condition?

No good assessment of previous road condition led to disagreement later.



Experience during a UAV demonstration project this past June:









It was hard to see another problem even while walking the road shoulder.



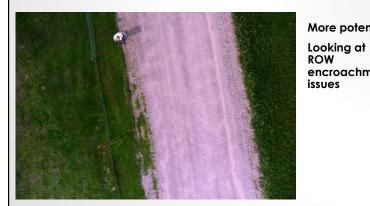
Channel poblems





Erosion at roadside clearly visible:





More potential:

encroachment issues









Very high resolution allows you to zoom in and get a good look at outlet and pipe end condition:



Potential for paved road geometry and condition evaluation as well.



Significant extent and severity of pavement cracking

A VERY SHORT SUMMARY OF WHAT CAN BE DONE WITH UAV ASSESSMENT

Thank You

2014 Local Roads Confernece - Rapid City, SD