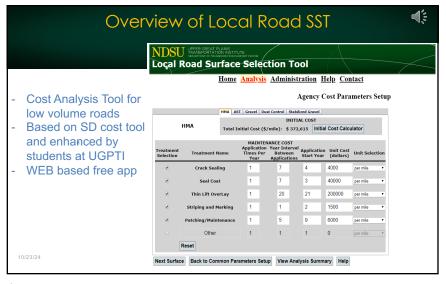
2024 Local Roads Conference 10/23/24



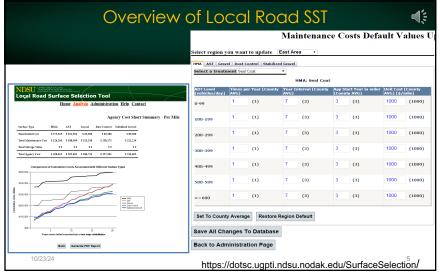
UGPTI Programs · Advanced Traffic Analysis North Dakota Local Technical Center (ATAC) Assistance Program (NDLTAP) · Rural Transportation Safety and · Center for Surface Mobility Security Center (RTSSC) Applications & Real-time Small Urban and Rural Center on Simulation environments Mobility (SURCOM) (SMARTSeSM) Transportation Learning Network (TLN) DOT Support Center Commercial Vehicle Safety Center (DOTSC) (CVSC) · Mountain-Plains Consortium (MPC) Focus Areas: agricultural freight, rural traffic analysis, tribal outreach

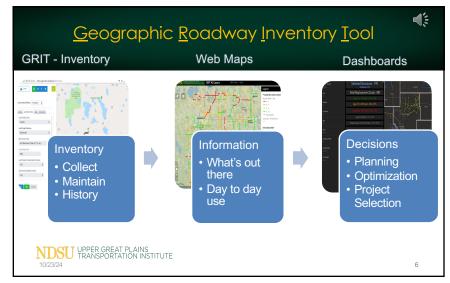
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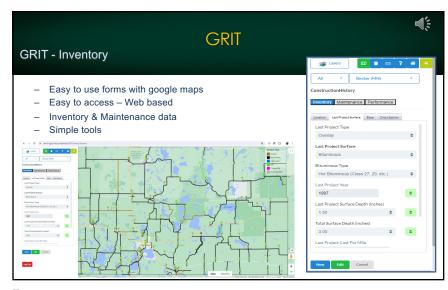


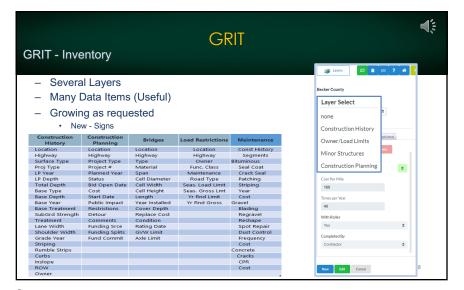


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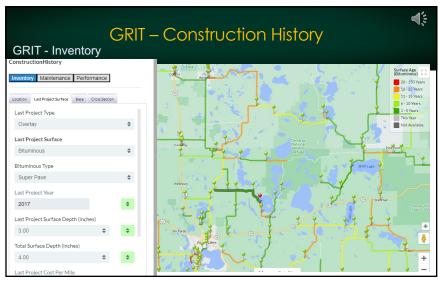


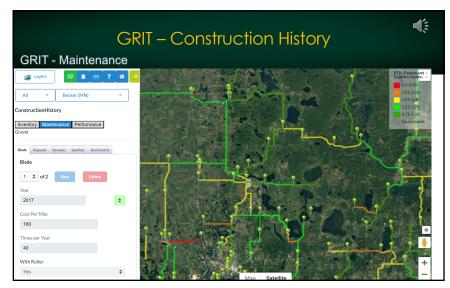


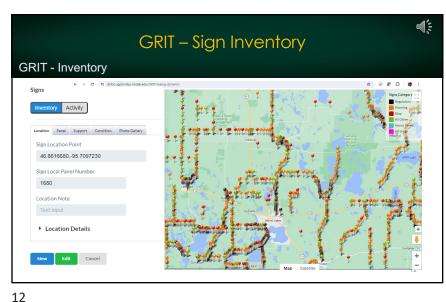


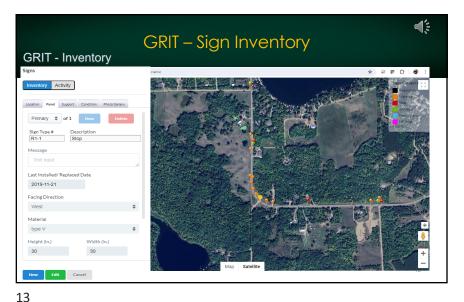


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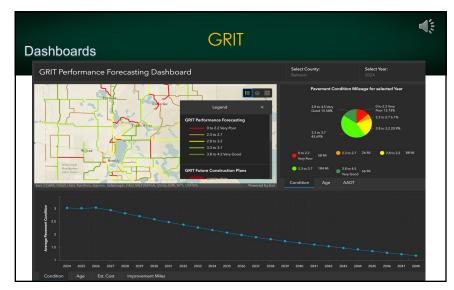




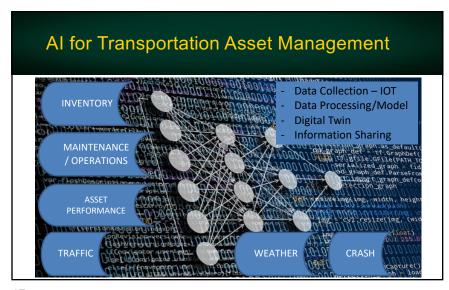


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Al for Asset Management – Example 2

- Gravel Road Inventory/Management
 - Life Cycle 3 days to 3 months
 - Many factors affect condition
 - Need condition and traffic daily
- Al to assist Data Collection

- Train ML to count vehicles and rate condition from camera images.
- Build in-expensive IOT camera that can run model during the Summer.
- Processed data uploaded to GRIT and combined with other data.
- Al models will forecast and make recommendations for GR management.



