UGPTI Local Roads Study/GRIT

Geographic Roadway Inventory Tool (GRIT)

Now it’s REALLY important!

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Two Significant Outcomes of Session

1. Dedicated Transportation Fund for Counties
   • First time for this type of funding
   • Allows strategic planning for future projects
   • Rehab at the right time…extend the life

2. Base Funding for Local Road Studies and TAM
   • Played a big role in #1 above
   • Distribution based on this - 4 yrs old
   • Provides the information needed for strategic planning
   • Asset Management for Counties
Local Road and Bridge Study

• What’s involved...
• Data collection
  – Traffic data including truck volumes
  – Pavement Condition Data – current data 4yrs old
  – Gravel road costs (survey)
  – Inventory data - GRIT
• Modeling and forecasting
• Report and on-line web maps
• GRIT for County use...
What is GRIT?

• Geographic Roadway Inventory Tool
• Developed for Counties to support Needs Study
  – Inventory data that only Counties can provide
    • Construction History
    • Construction Planning
    • Load Restrictions
    • Bridges/minor structures
• Asset Management Tool
• DOTSC students
Objectives for Inventory Program?

• Easy to use web based tool
• Built on Existing Map Interface
  – Google Maps API
• Simplified Linear Referencing
• All types of Transportation Assets
• Web based GIS map services
• Minimize cost
Asset Inventory Toolkit

Development of the Asset Inventory Toolkit is a team effort, led by UGPTI. A steering committee comprised of ten county transportation leaders, NDDOT representative, and NDAGA representatives are providing guidance for the UGPTI's Inventory footprint development.

GRIT Help Videos

- Overview and Navigation
- Editing Locations
- Construction Segment Layer
- Load Restrictions Layer
- Minor Structures Layer
- Construction Planning Layer

Presentations

- Jan. 11, 2018 Webinar: GRIT Photo Logging
- Oct. 11, 2017 Webinar: GRIT Highlights and Enhancements
- Aug. 8, 2016 Webinar: GRIT Construction Layer
- Mar. 21, 2016 Webinar: GRIT Viewer Release
- Dec. 9, 2015 Statewide Rollout Webinar: GRIT 1.0
- Nov. 18, 2015 Webinar: GRIT 1.0
- Aug. 26, 2015 Webinar
- Aug. 12, 2015 Kickoff Webinar
GRIT 2.0 Editing Tool
- Four Layers with many attributes
- Inventory and Maintenance Data
Location Editing for all layers
- Just a Start and End Point
- A few simple tools ie Snapping
Construction History
- Last Project Surface TAB
- Surfacing, Type, Year, etc
Construction History
- Maintenance Items for each Surface
- Summary for project at end of year
Construction Planning layer
- Location – longer roads
- Improvements and Impacts
**Minor Structures layer**

- **Location** – point and flow
- **Age, Dimensions, Condition, Restrictions**

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GRIT Web-Map Viewers
- All Layers with sub data items
Construction Planning
pavement condition
Pavement Performance
- Select future year
- Condition, Age, Traffic
- Map and Graphs
Summary of Inventory Process

- Anybody can do it
- Initial data entry fairly quick
  - Hardest part is finding data
- Updates each year are simple
- Update Const History & Planning
- New layers can be added
So why more important then ever?

• Improve Accuracy of Needs Studies
• Important to show Legislators $ to good use.
• Efficiently manage your roads
• Document the history of our assets
  – Retiring Staff
• Justify improvement plans
• Answer questions quickly and reduce costs
• Research
UGPTI COUNTY ASSET INVENTORY

Geographic Roadway Inventory Tool
GRIT

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