Geographic Roadway Inventory Tool
Construction Planning

WDEA RoundTable
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GRIT - https://www.ugpti.org/resources/asset-inventory/
- Geographic Roadway Inventory Tool (GRIT)
  - Developed by UGPTI for ND Needs Study
  - Custom web application with map viewers
  - All ND counties have roadway data entered in GRIT
- **Geographic Roadway Inventory Tool (GRIT)**
  - Currently 4 Layers of Data

![Table showing various categories and data fields]

- **Construction History**
  - Location
  - Highway
  - Surface Type
  - Proj Type
  - LP Year
  - LP Depth
  - Total Depth
  - Base Type
  - Base Depth
  - Base Year
  - Base Treatment
  - SubGrd Strength
  - Treatment
  - Lane Width
  - Shoulder Width
  - Grade Year
  - Stripping
  - Rumble Strips
  - Curbs
  - Inslope
  - ROW
  - Owner

- **Construction Planning**
  - Location
  - Highway
  - Project Type
  - Project #
  - Planned Year
  - Status
  - Bid Open Date
  - Cost
  - Start Date
  - Public Impact
  - Restrictions
  - Detour
  - Comments
  - Funding Srce
  - Funding Splits
  - Fund Commit

- **Bridges**
  - Location
  - Highway
  - Type
  - Material
  - Span
  - Maintenance
  - Year Installed

- **Load Restrictions**
  - Location
  - Highway
  - Owner
  - Func. Class
  - Road Type
  - Seas. Load Limit
  - Seas. Gross Lmt
  - YrRnd Limit
  - YrRnd Gross

- **Maintenance**
  - Const History
  - Segments
  - Bituminous
  - Seal Coat
  - Crack Seal
  - Patching
  - Striping
  - Year
  - Cost
  - Blading
  - Regravel
  - Reshape
  - Spot Repair
  - Dust Control
  - Frequency
  - Concrete
  - Cracks
  - CPR
  - Cost
GRIT - Construction Planning (5 Yr Plan)
- Start with the location Tab
- Insert a begin and end point - easy
GRIT - Construction Planning (5 Yr Plan)
- Background layers like age to help select projects
- Fill in dropdowns like type and age
• **GRIT - Construction Planning (5 Yr Plan)**
  - Scroll down for other items such as costs
- GRIT - Construction Planning (5 Yr Plan)
  - Next tab - public impacts
  - Dropdowns such as road closed
• GRIT - Construction Planning (5 Yr Plan)
  - Next tab - Finance
  - Funding source and % of costs
GRIT- Webmap Viewer

- Easy access to all data items
- Showing pavement age and condition together
• GRIT- Webmap Viewer
  - Easy access to all data items
  - Showing pavement age and condition together
• GRIT- Condition Forecasting - coming soon!
  - Needs Study Model to predict condition
  - Select Year to see future condition data and map
- GRIT- Condition Forecasting - coming soon!
  - System performance reports
  - % miles in good fair poor based on your planning layer
Items to Consider

- **Update Construction History for the Needs Study**
  - Any projects since 2015
  - Just edit existing segments - no overlaps
  - Update other items such as pavement and base info

- **Update Construction Planning**
  - With dedicated funding - build out a 5 to 10 year plan
  - Webmaps with construction status
  - Show where legislative funding will be used

- **Pavement Condition Forecasting coming...**
  - Will probably be available at conclusion of Needs Study
More Information/Resources

• See the UGPTI Website at
  – https://www.ugpti.org/
    • Resources/Asset Inventory

• Email Contacts
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