## Construction Planning with GRIT

ND Association of County Engineers
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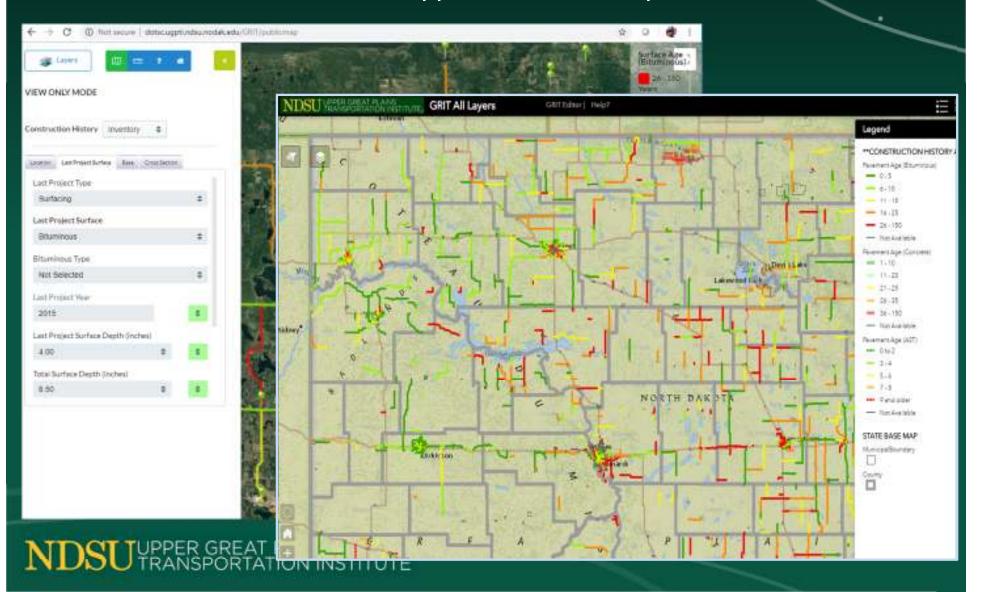


# GRIT - https://www.ugpti.org/resources/asset-inventory/



#### Geographic Roadway Inventory Tool (GRIT)

- Developed by UGPTI for ND Needs Study
- Custom web application with map viewers



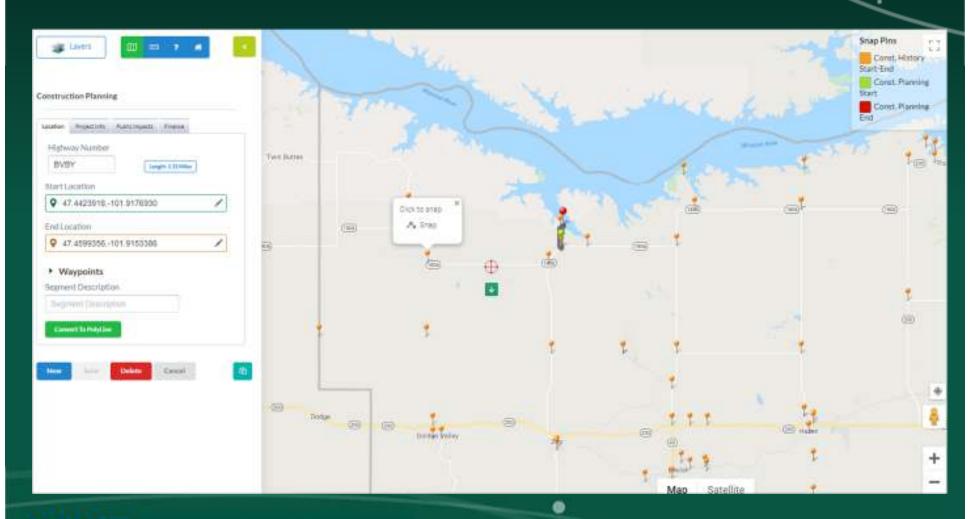
### Geographic Roadway Inventory Tool (GRIT)

#### Currently 4 Layers of Data

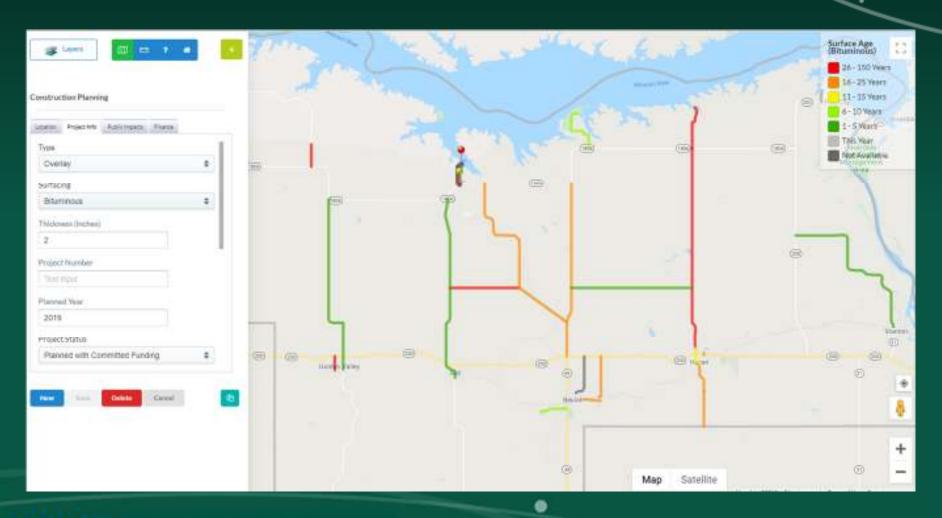


- **GRIT -** Construction Planning (5 Yr Plan)

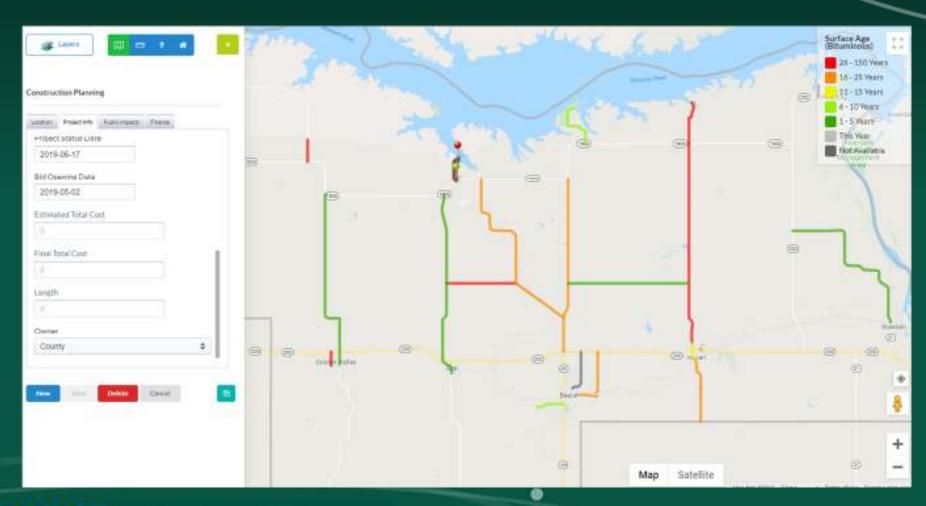
  Start with the location Tab
  - Insert a begin and end point easy



- **GRIT -** Construction Planning (5 Yr Plan)
  - Background layers like age to help select projects
  - Fill in dropdowns like type and age

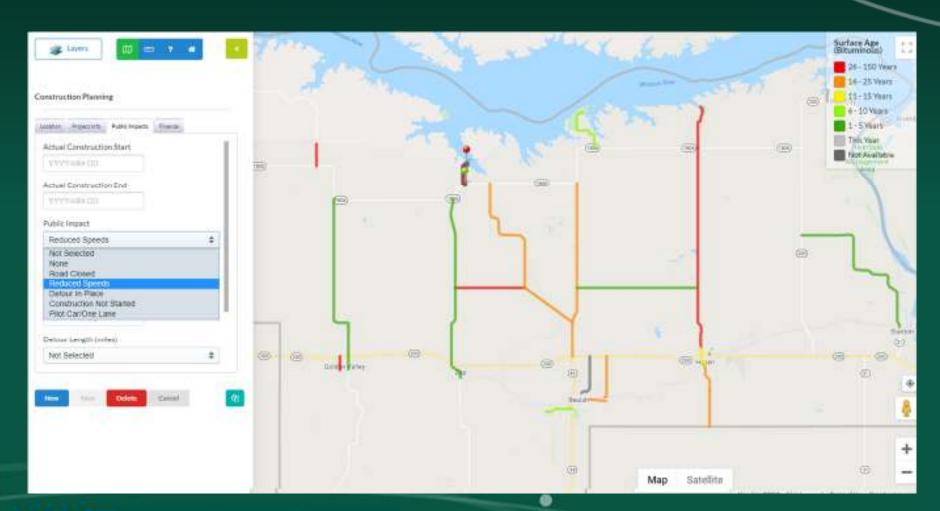


- **GRIT -** Construction Planning (5 Yr Plan)
  - Sroll down for other items such as costs



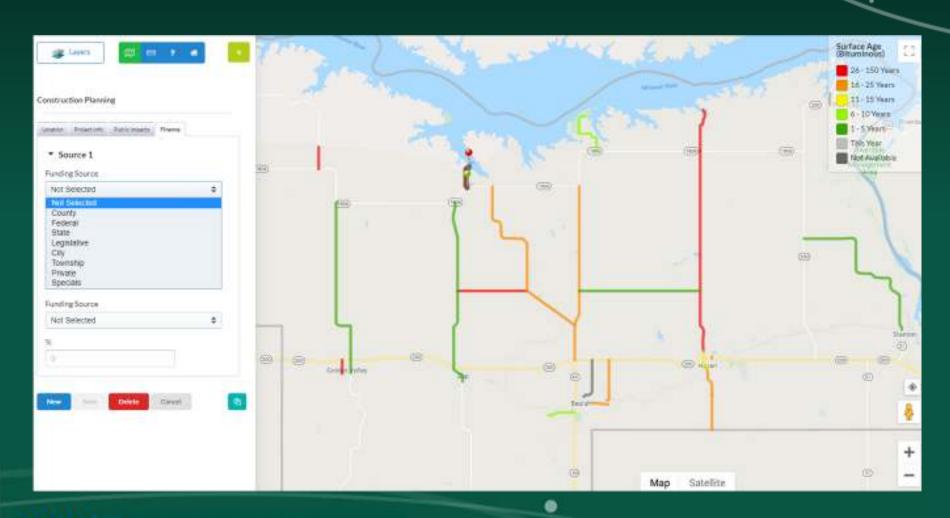
#### **GRIT -** Construction Planning (5 Yr Plan)

- Next tab public impacts
- Dropdowns such as road closed



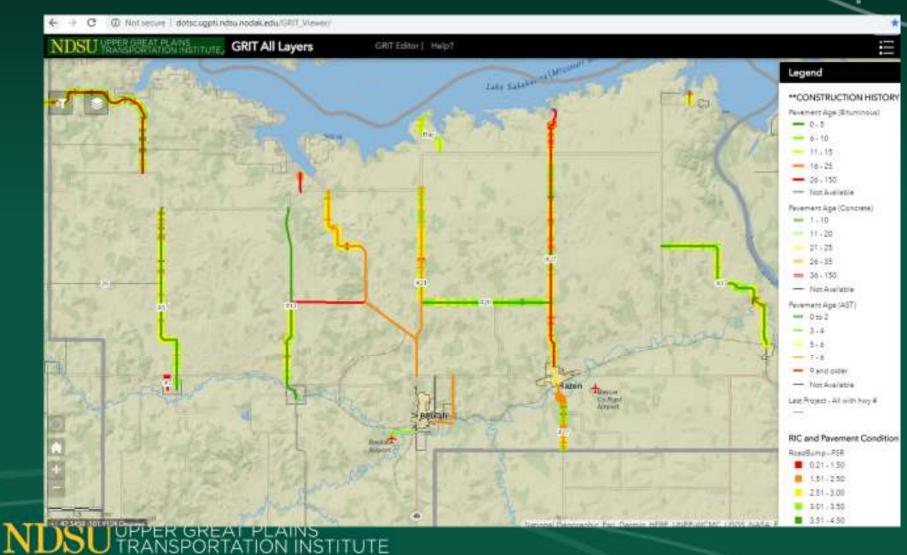
#### **GRIT -** Construction Planning (5 Yr Plan)

- Next tab Finance
- Funding source and % of costs



#### **GRIT- Webmap Viewer**

- Easy access to all data items
- Showing pavement age and condition together



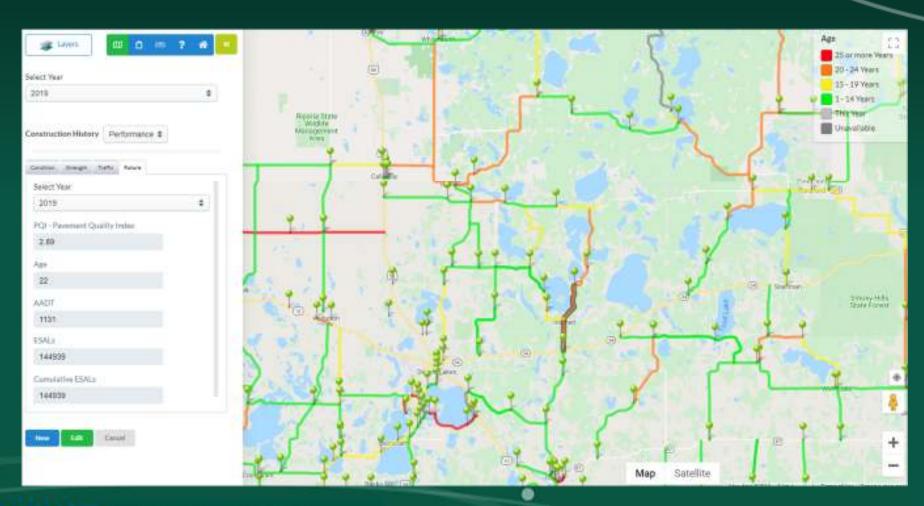
#### **GRIT- Webmap Viewer**

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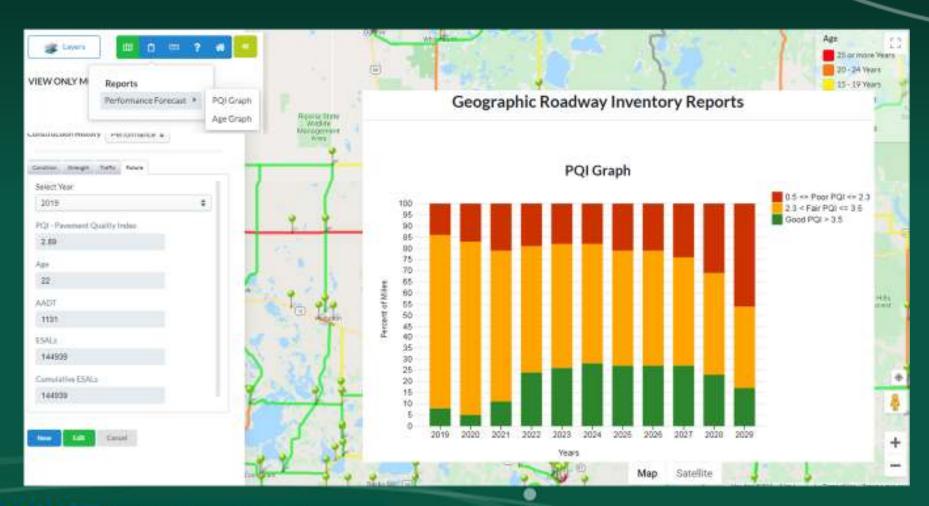
#### GRIT- Condition Forecasting - coming soon!

- 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



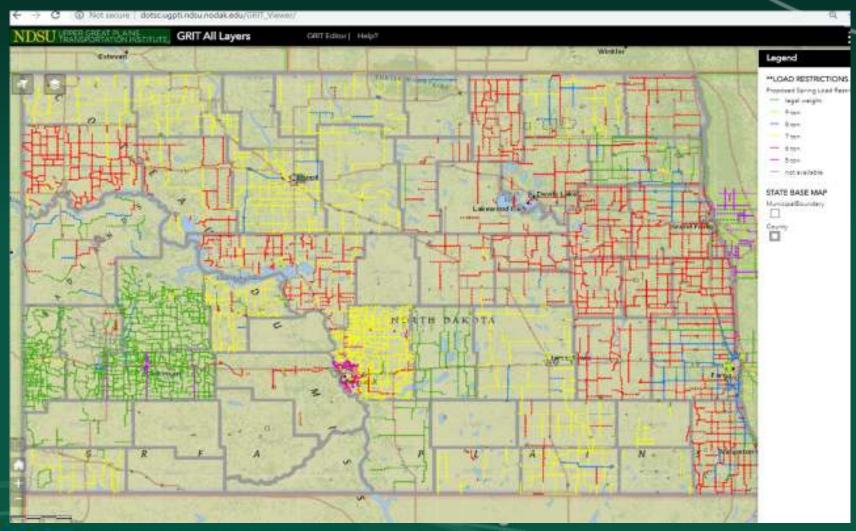
## Items to Consider

- 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



#### **Load Restrictions Layer**

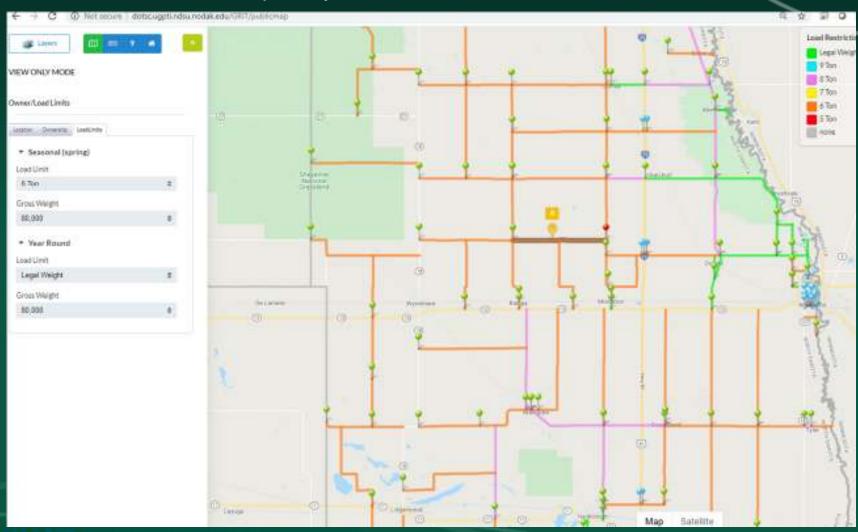
- Almost all counties complete or started
- NDDOT would like to bring into ND Traveler Information Map





#### **Load Restrictions Layer**

- Same location Tab
- Easy dropdown menus for Seasonal and Year round



## More Information/Resources

- See the UGPTI Website at
  - https://www.ugpti.org/
    - Resources/Asset Inventory
- Email Contacts
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