NORTH CAROLINA
Department of Transportation

# Project ATLAS: Improving Project Development through GIS

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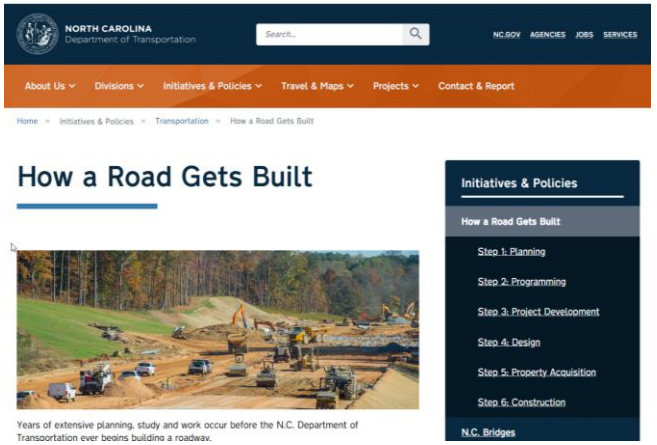
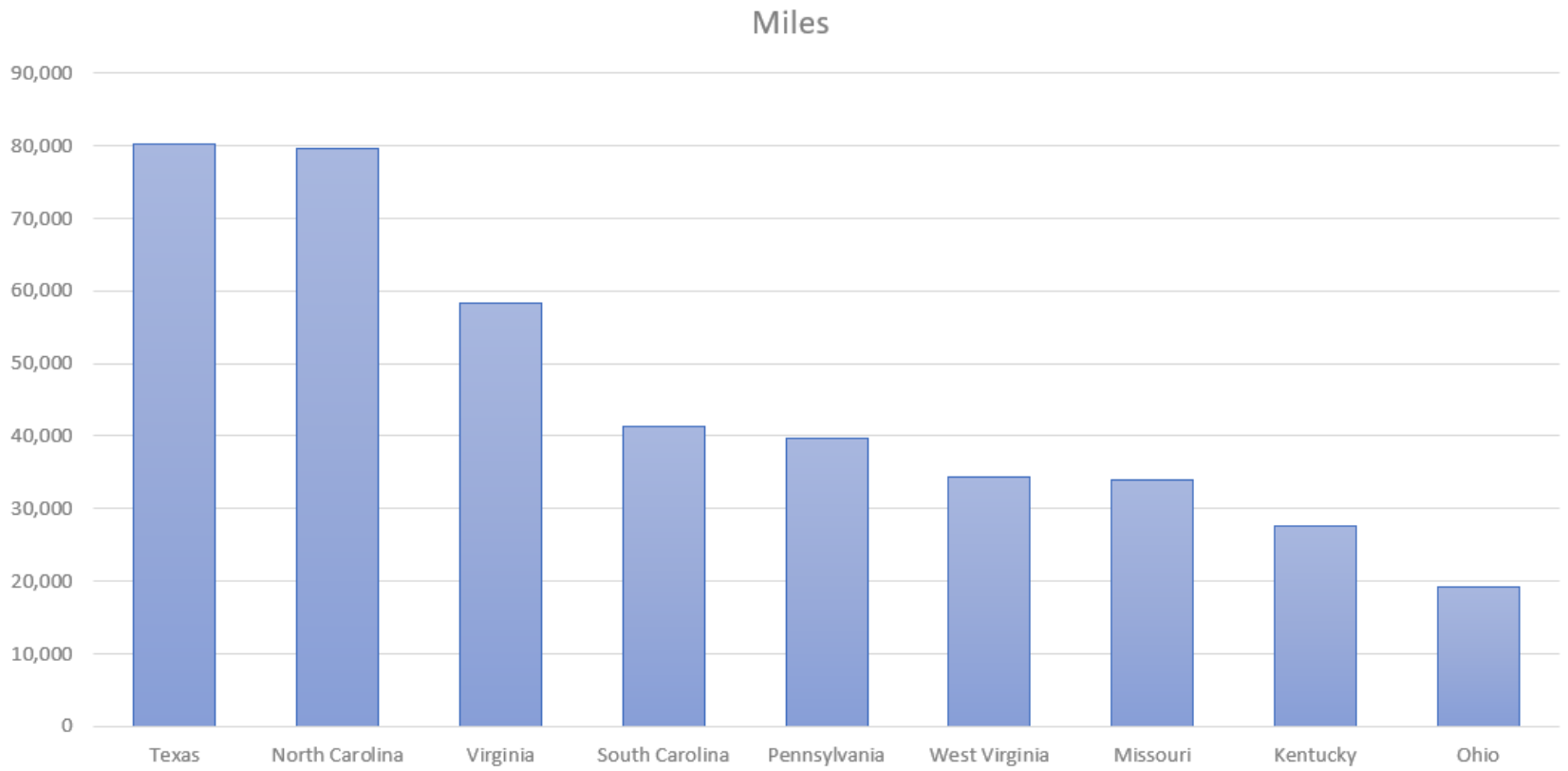
2/13/2019

# Project Delivery at NCDOT- The Process

- Step 1: Planning
  - Comprehensive Transportation Planning (20-25 years)
- Step 2: Prioritization and Programming
  - State Transportation Improvement Program (10 years)
- Step 3: Project Development and Env. Analysis
  - Project is funded and proposed project is evaluated for environmental impacts (NEPA/SEPA)
- Step 4: Design
- Step 5: Property Acquisition
- Step 6: Construction



# How does NCDOT measure up?



# How did ATLAS get started?

- August 2017, the Environmental Analysis Unit (EAU) here at NCDOT approached the GIS Unit to help them make project delivery more efficient.
- The EAU are heavy GIS users (predictive modeling, field verifications, impact maps)- they wanted to leverage this powerful tool to improve project delivery.

# Where does ATLAS fit into Project Delivery at NCDOT?

- Step 1: Planning
  - Comprehensive Transportation Planning (20-25 years)
- Step 2: Prioritization and Programming
  - State Transportation Improvement Program (10 years)
- Step 3: Project Development and Env. Analysis
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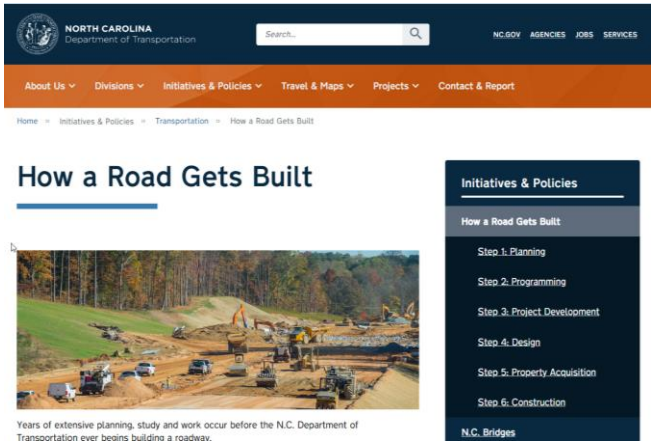
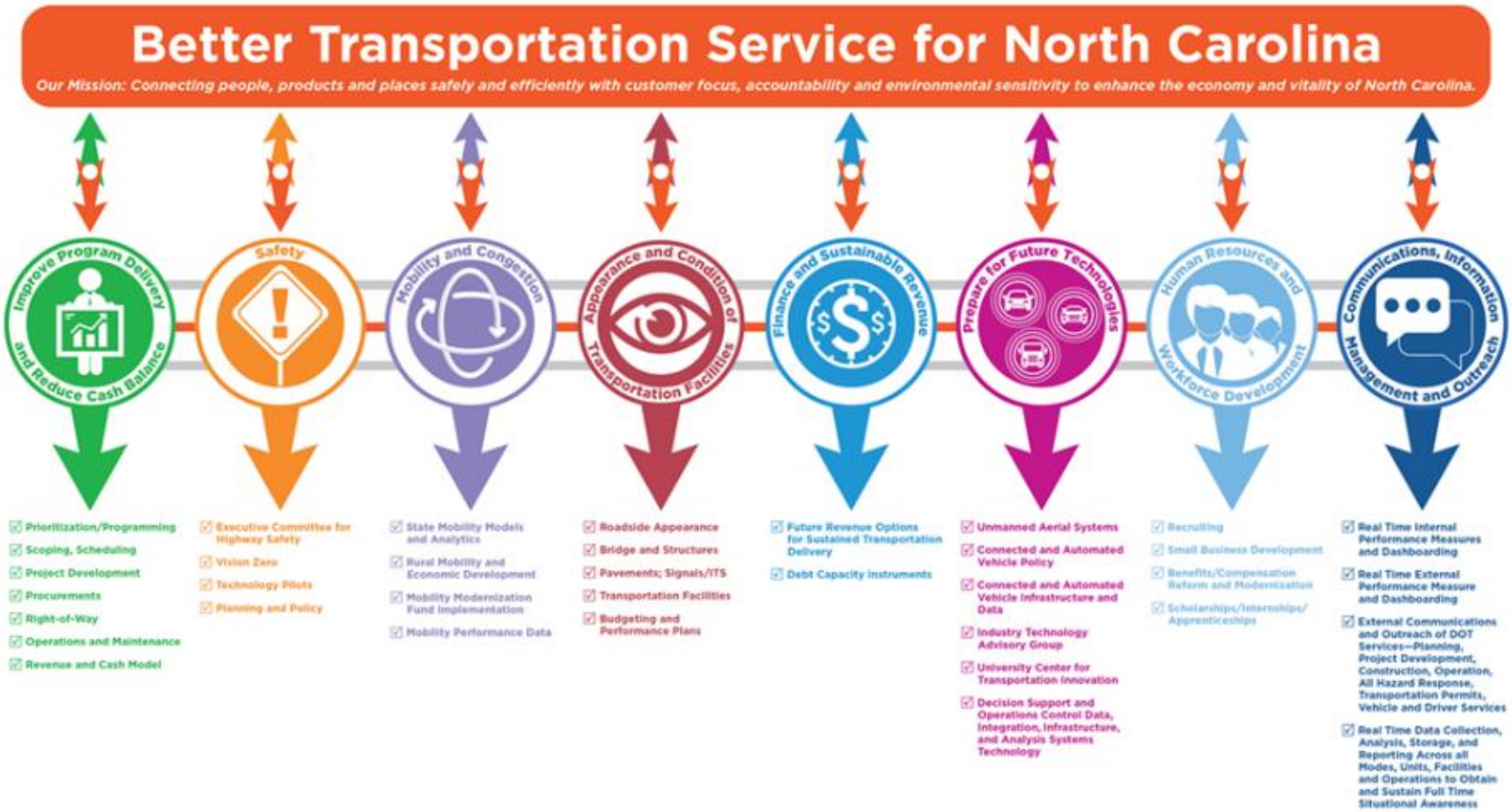


# Secretary's Priorities

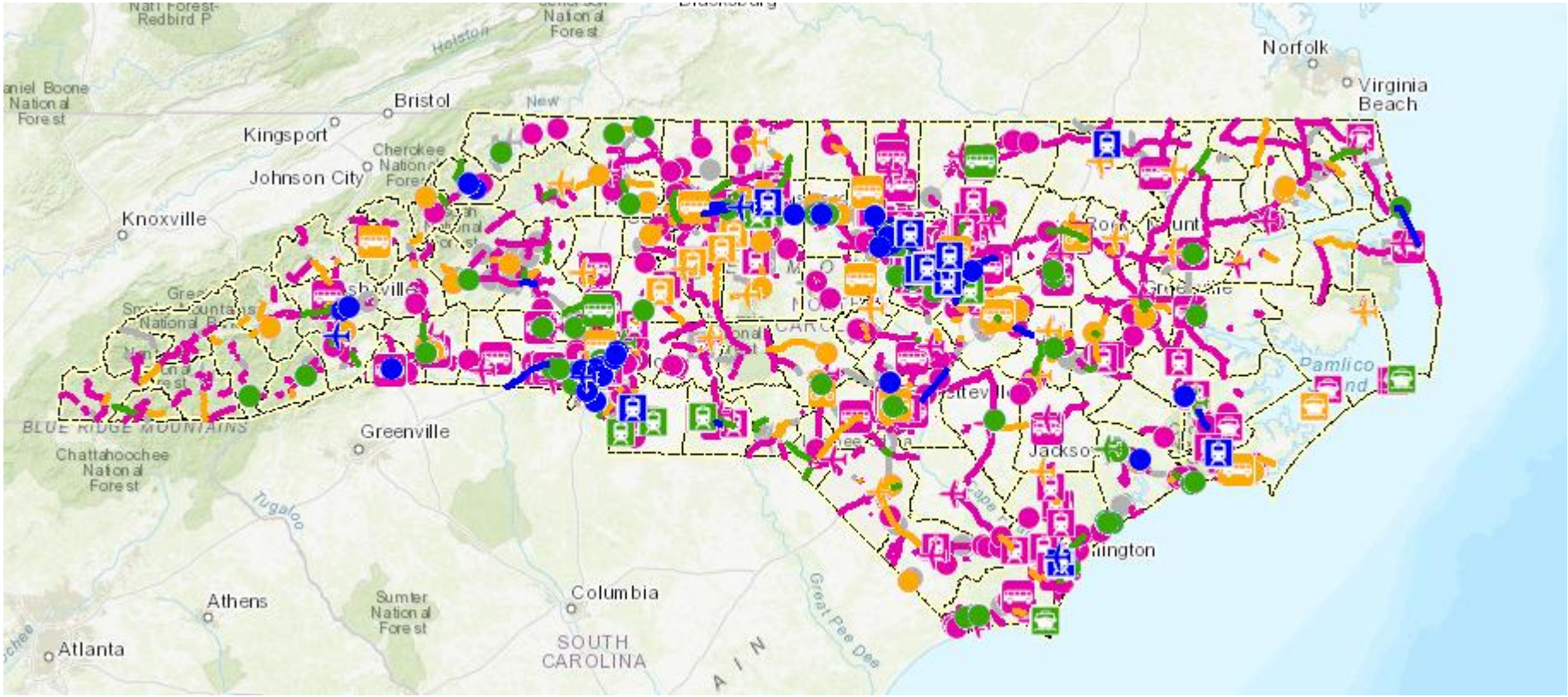


# NCDOT Project ATLAS

**A**dvancing **T**ransportation through **L**inkages, **A**utomation, and **S**creening

- Goal is to streamline project development by utilizing GIS tools, applications, and data
- Adheres to Secretary's Priorities for Improved Program Delivery
- Accelerated project delivery has strong economic impact and enhances NC's economic competitiveness

# Current State of Project Development



# Future Projects

The 2020-2029 draft State Transportation Improvement Program consists of 1,663 projects.

| Transportation Mode | Total Projects |
|---|---|
| Aviation | 86 |
| Bicycle/Pedestrian | 235 |
| Ferry | 6 |
| Highway | 1,266, including:<br>- 181 bridge projects<br>- 83 interstate maintenance projects<br>- 37 safety projects |
| Public Transit | 23 |
| Rail | 47 |
| **Total** | **1,663** |

# Starting Out

What does expediting project delivery really mean?

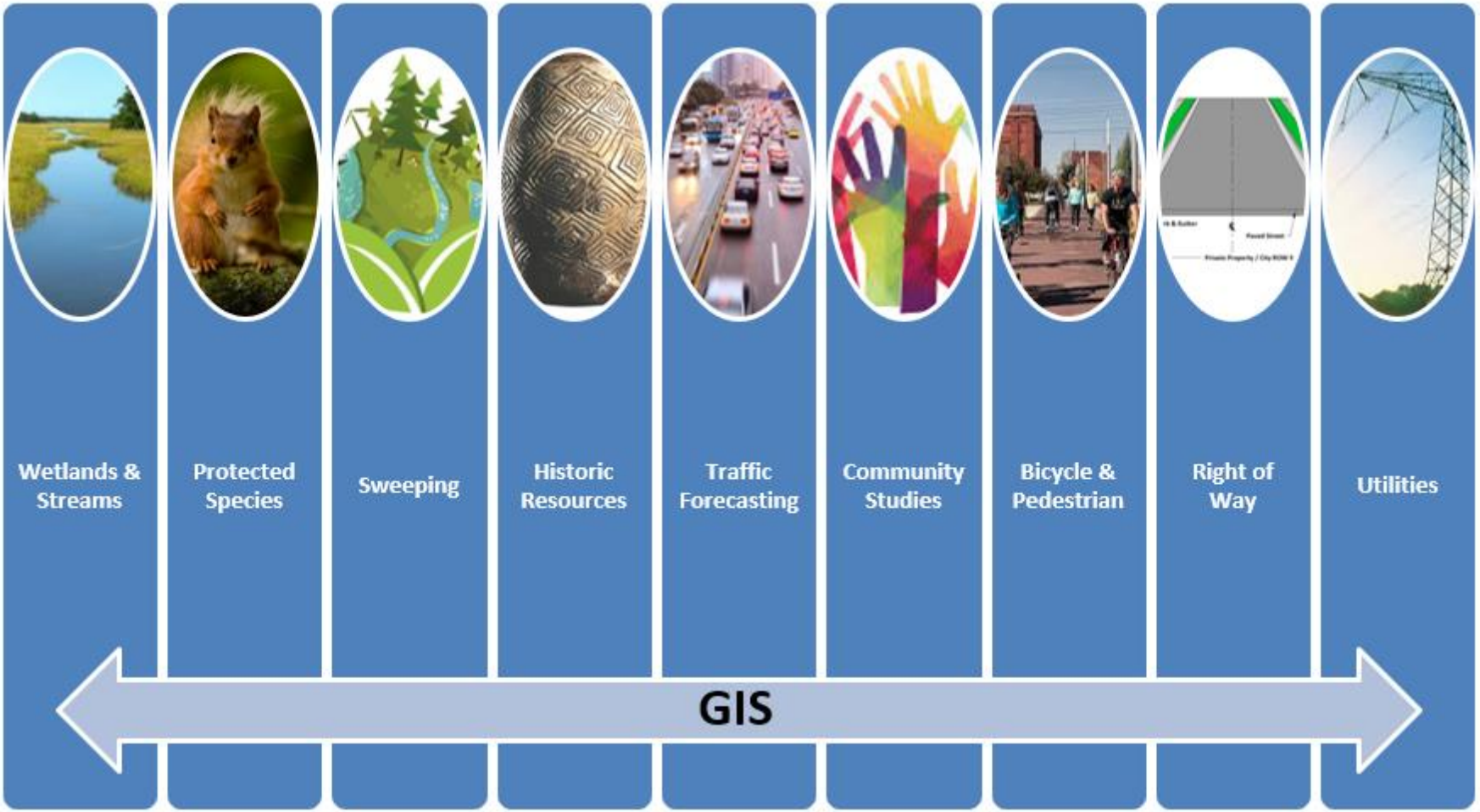
What have other DOT's done?

Isn't "everything" we do related to project delivery?


Who is involved in project delivery?

Where is the data to support this?

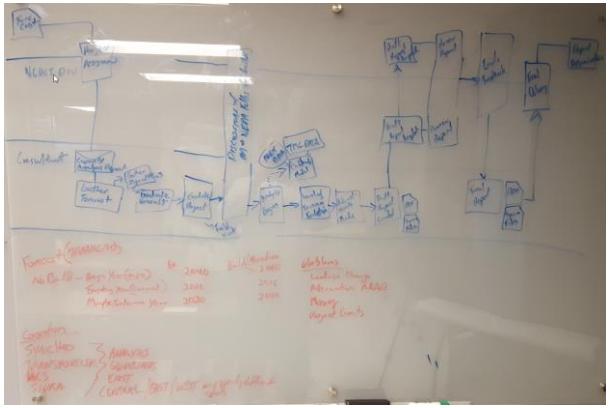
# Disciplines involved

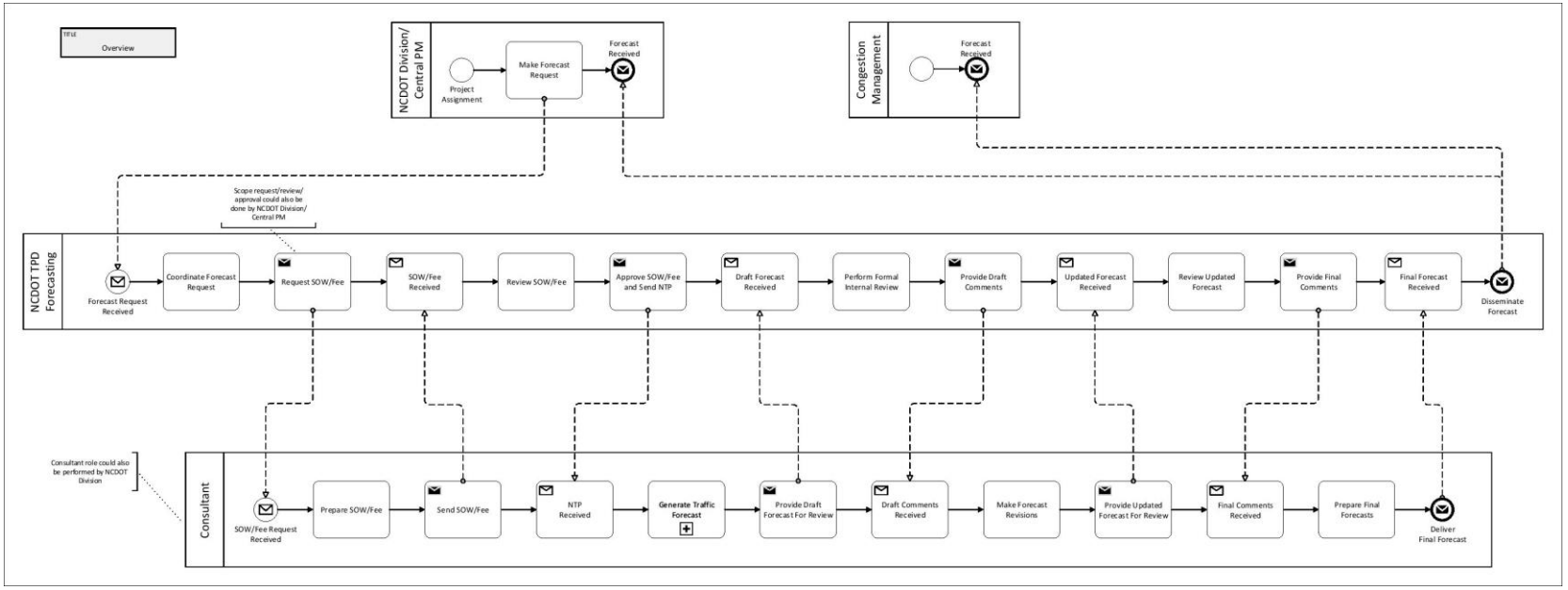


# Current State of Project Development

- No standards for required deliverables
- There is a central repository for project's and their associated non-spatial data (PDF's, Word Doc's etc.) (No spatial data is collected.)
- There is a business process, but it is mostly manual
- GIS data used to do reports is not standard across projects or firms working on projects.
  - Data is downloaded and worked on in ArcMap and becomes out of date
- There is no spatial context for a project or past projects and no central repository for related spatial data
- There are a series of enterprise applications that support different aspects project delivery but these applications are not integrated

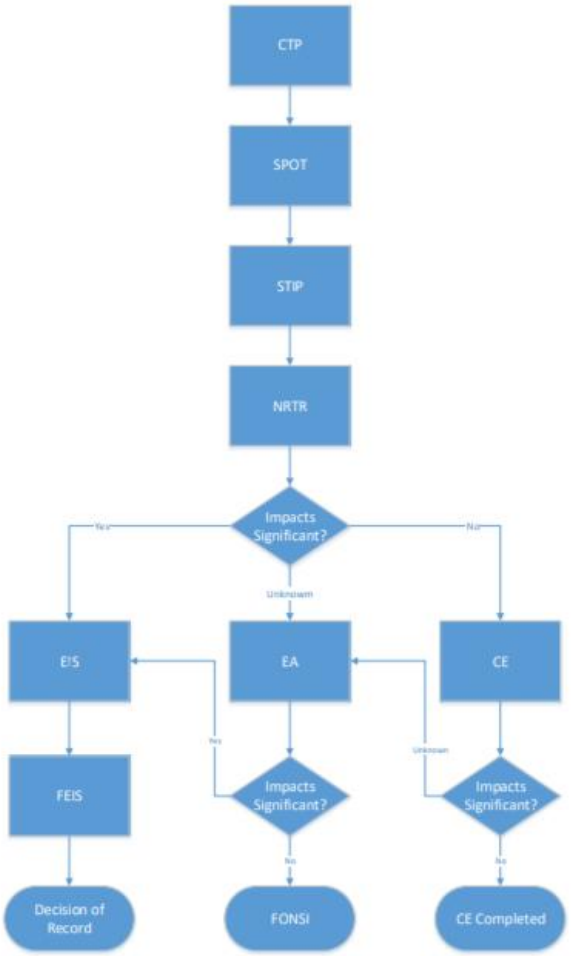
# Drawings to Diagrams

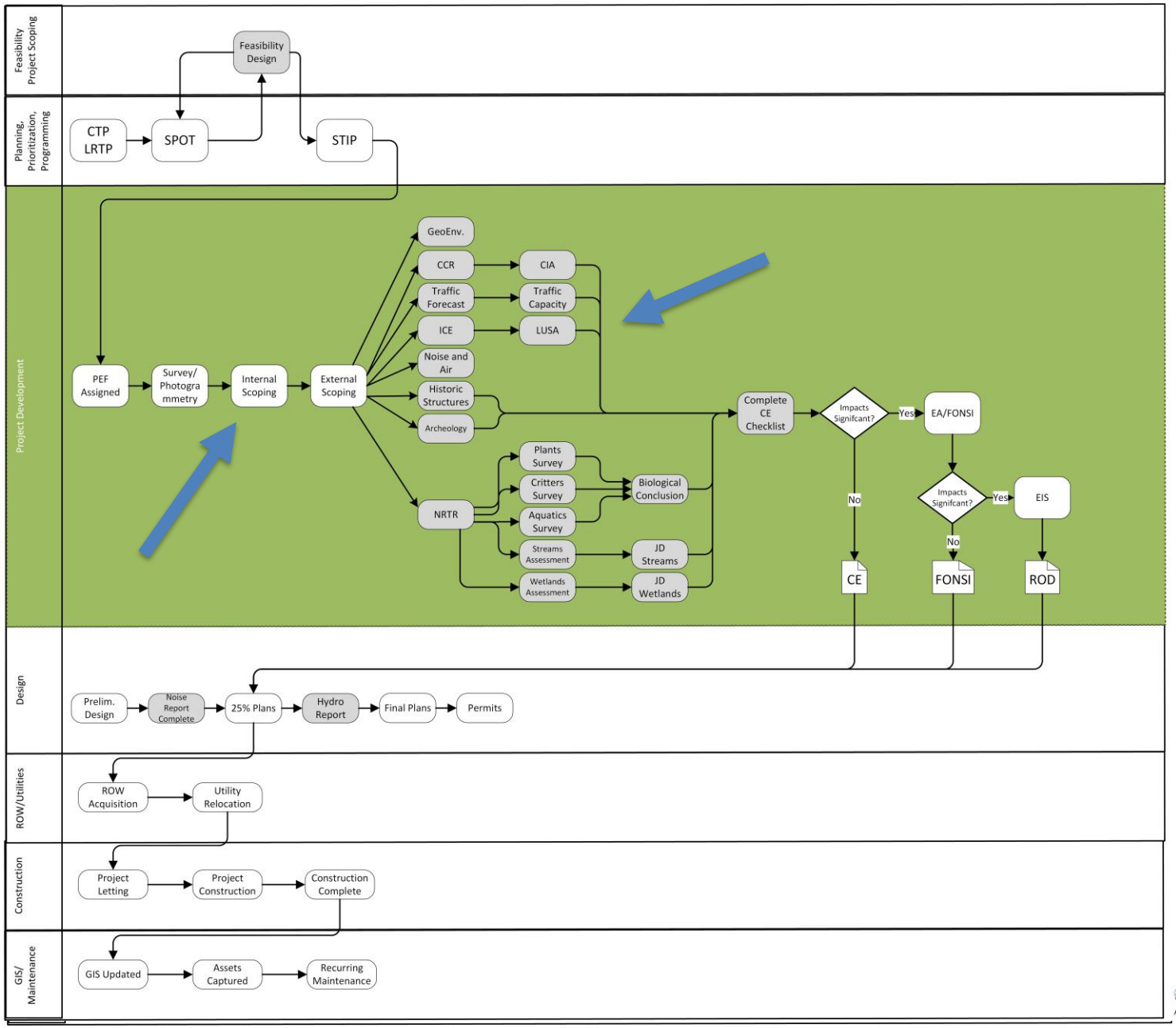


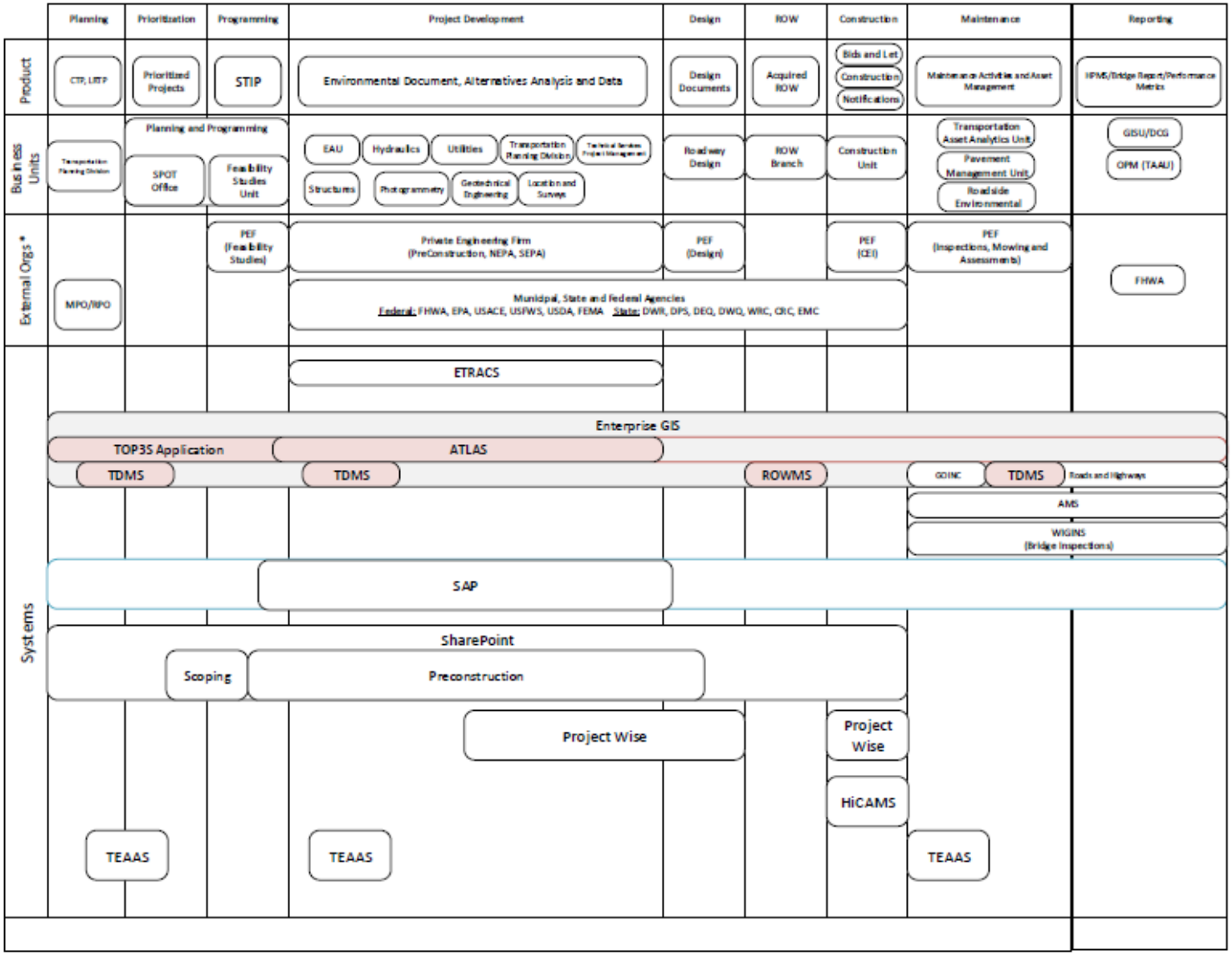
# Overall Picture Takes Shape

- Over 80 interviews with business units across the agency by October 2017.
- Understanding emerges that there are deficiencies with many aspects of the project development process- not just data itself
- The Project Managers need better information before a project begins... "An informed scoping meeting"

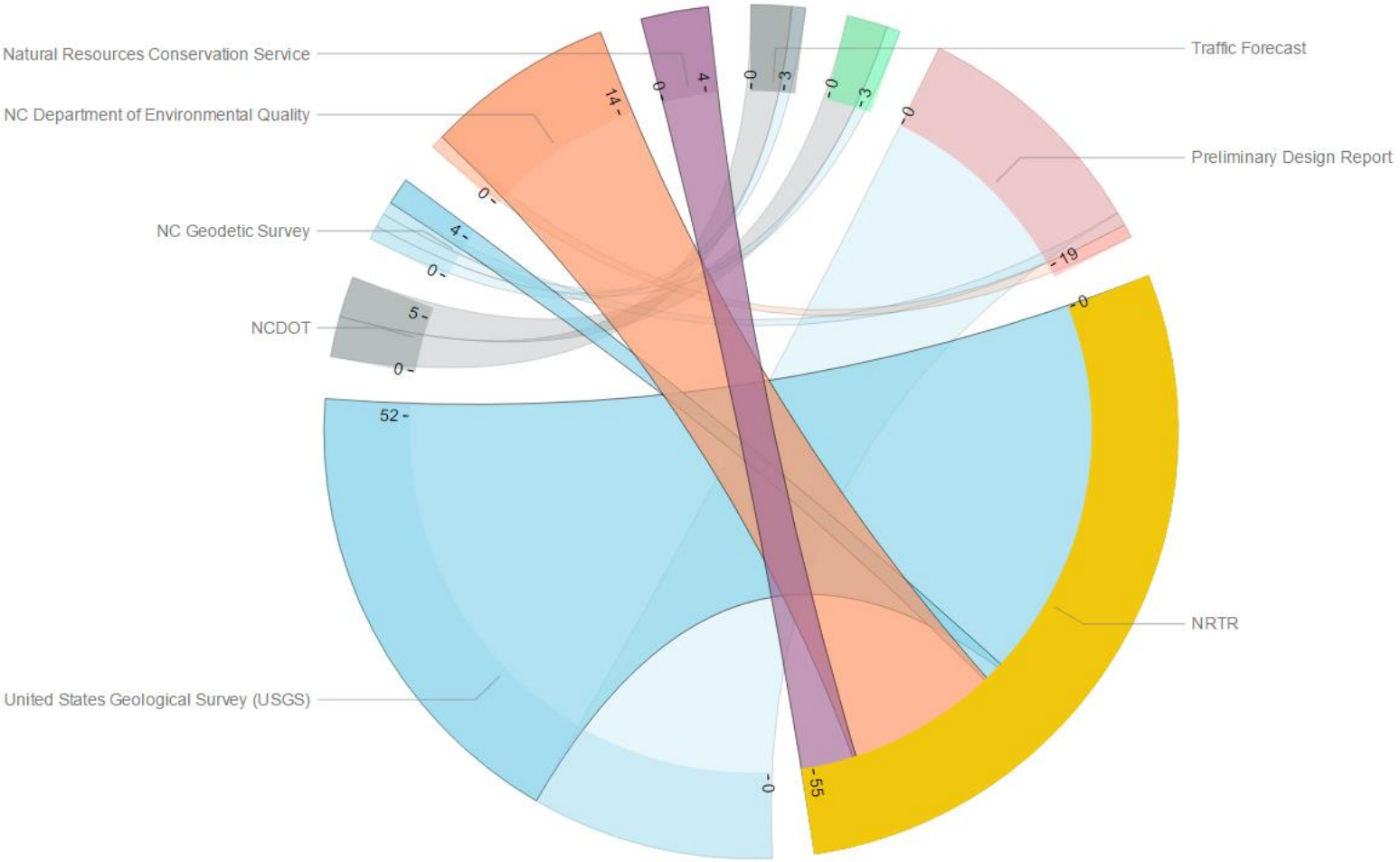


AS IS Flow


Feasibility Project Scoping
Feasibility Design
Planning, Prioritization, Programming
CTP LRTP
SPOT
STIP
Project Development
PEF Assigned
Survey/ Photogra mmetry
Internal Scoping
External Scoping
GeoEnv.
CCR
CIA
Traffic Forecast
Traffic Capacity
ICE
LUSA
Noise and Air
Historic Structures
Archeology
NRTR
Plants Survey
Critters Survey
Aquatics Survey
Biological Conclusion
Streams Assessment
JD Streams
Wetlands Assessment
JD Wetlands
Complete CE Checklist
Impacts Signifcant?
Yes
EA/FONSI
No
CE
Impacts Signifcant?
Yes
EIS
No
FONSI
ROD
Design
Prelim. Design
Noise Report Complete
25% Plans
Hydro Report
Final Plans
Permits
ROW/Utilities
ROW Acquisition
Utility Relocation
Construction
Project Letting
Project Construction
Construction Complete
GIS/ Maintenance
GIS Updated
Assets Captured
Recurring Maintenance

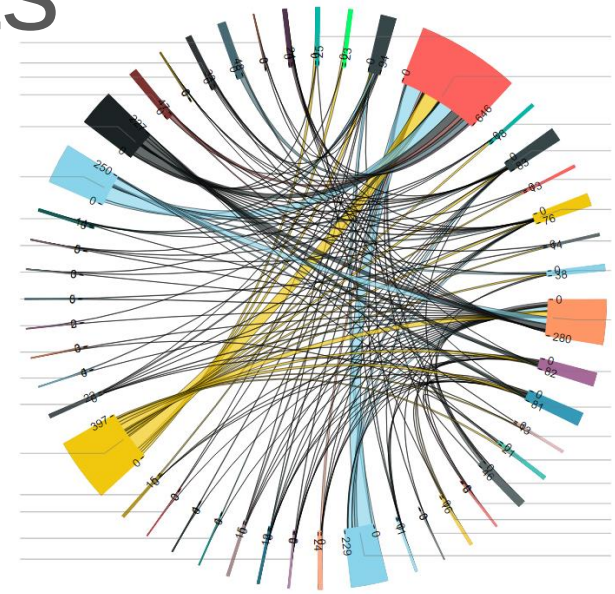

Planning
Prioritization
Programming
Project Development
Design
ROW
Construction
Maintenance
Reporting
Product
CTP, LRTP
Prioritized Projects
STIP
Environmental Document, Alternatives Analysis and Data
Design Documents
Acquired ROW
Bids and Let
Construction
Notifications
Maintenance Activities and Asset Management
HPMS/Bridge Report/Performance Metrics
Business Units
Planning and Programming
SPOT Office
Feasibility Studies Unit
EAU
Hydraulics
Utilities
Transportation Planning Division
Structures
Photogrammetry
Geotechnical Engineering
Location and Survey
Roadway Design
ROW Branch
Construction Unit
Transportation Asset Analytics Unit
Pavement Management Unit
Roadside Environmental
GISU/DCG
OPM (TAAU)
External Orgs *
MPO/RPO
PEF (Feasibility Studies)
Private Engineering Firm (PreConstruction, NEPA, SEPA)
PEF (Design)
PEF (CEI)
PEF (Inspections, Mowing and Assessments)
FHWA
Municipal, State and Federal Agencies
Federal: FHWA, EPA, USACE, USFWS, USDA, FEMA State: DWR, DPS, DEQ, DWQ, WRC, CRC, EMC
Systems
ETRACS
Enterprise GIS
TOP3S Application
ATLAS
TDMS
TDMS
ROWMS
GOINC
TDMS
Roads and Highways
AMS
WIGINS
(Bridge Inspections)
SAP
SharePoint
Scoping
Preconstruction
Project Wise
Project Wise
HiCAMS
TEAAS
TEAAS
TEAAS

# Initial Cataloging of Data



# Data Facts

- 27 Parent Agencies
- 54 Root Web Service Locations
- 563 Total Layers
- 140 Used in Screening a project

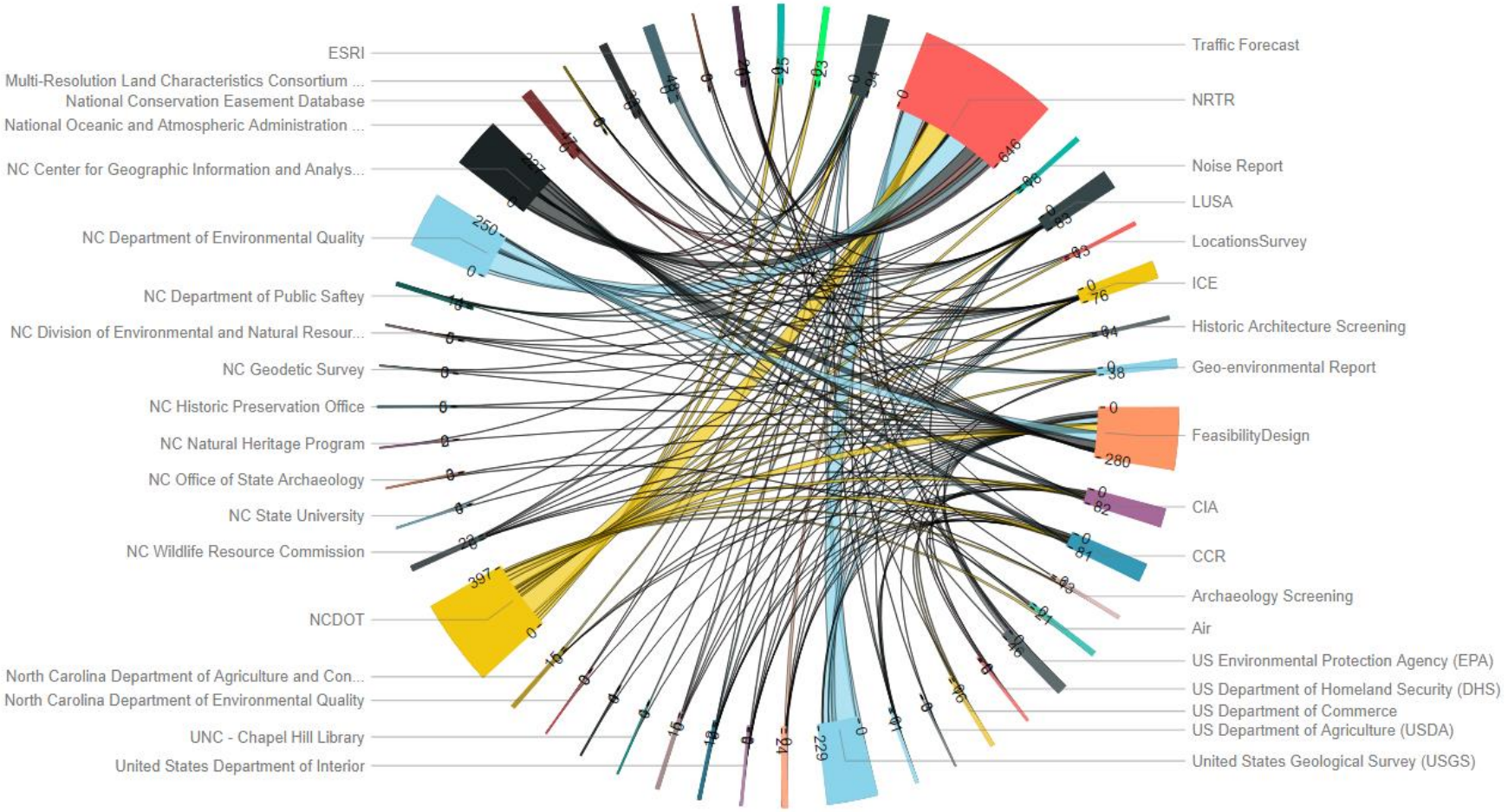


## Layers Top 5 Contributors

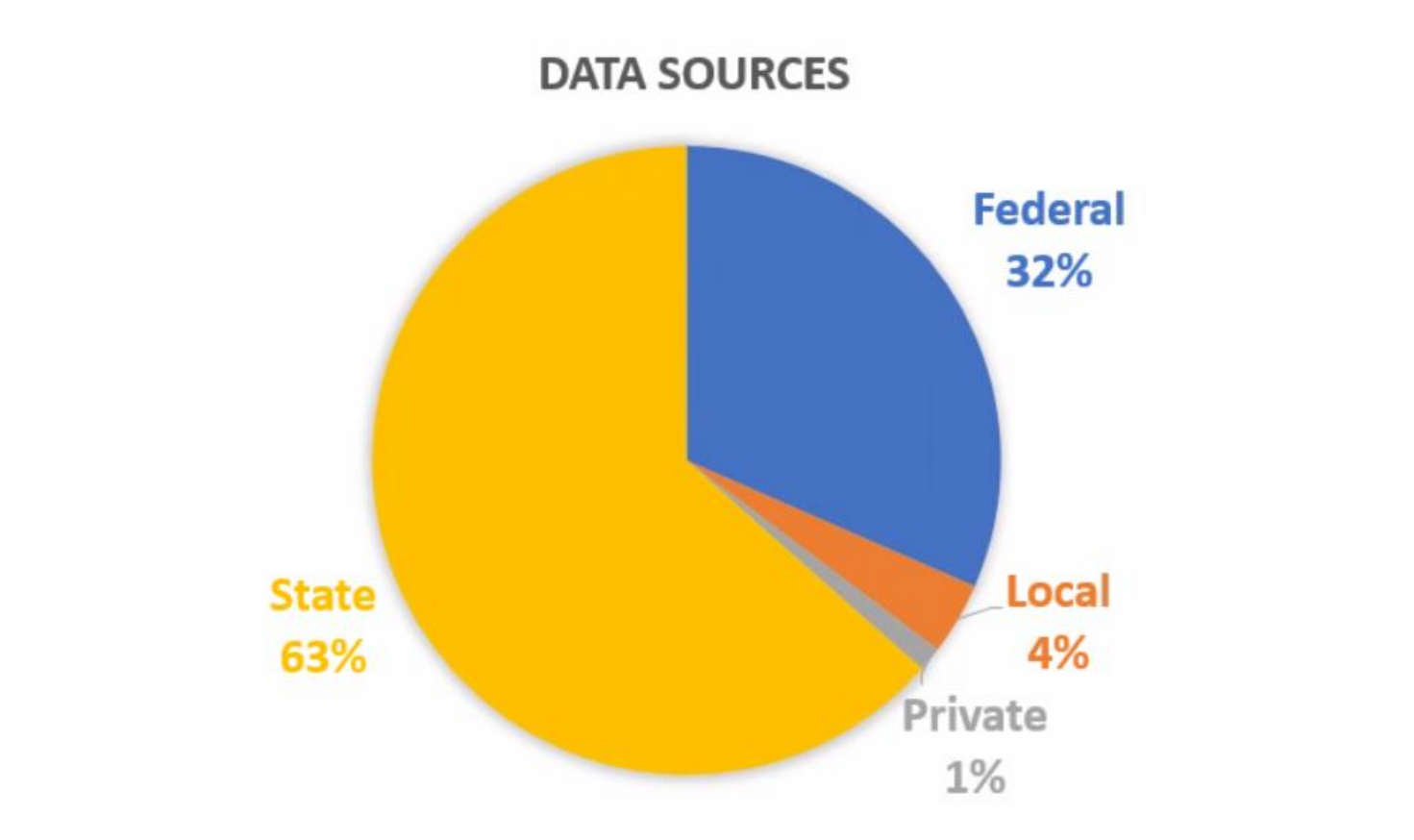
| Organization | Count |
|---|---|
| NCDOT, GIS Unit | 154 |
| US Geological Survey (USGS) | 75 |
| NC Center for Geographic Information and Analysis (CGIA) | 74 |
| NC Department of Environmental Quality (DEQ) | 60 |
| US Department of Homeland Security (DHS) | 33 |

## Screening Layers Top 5 Contributors

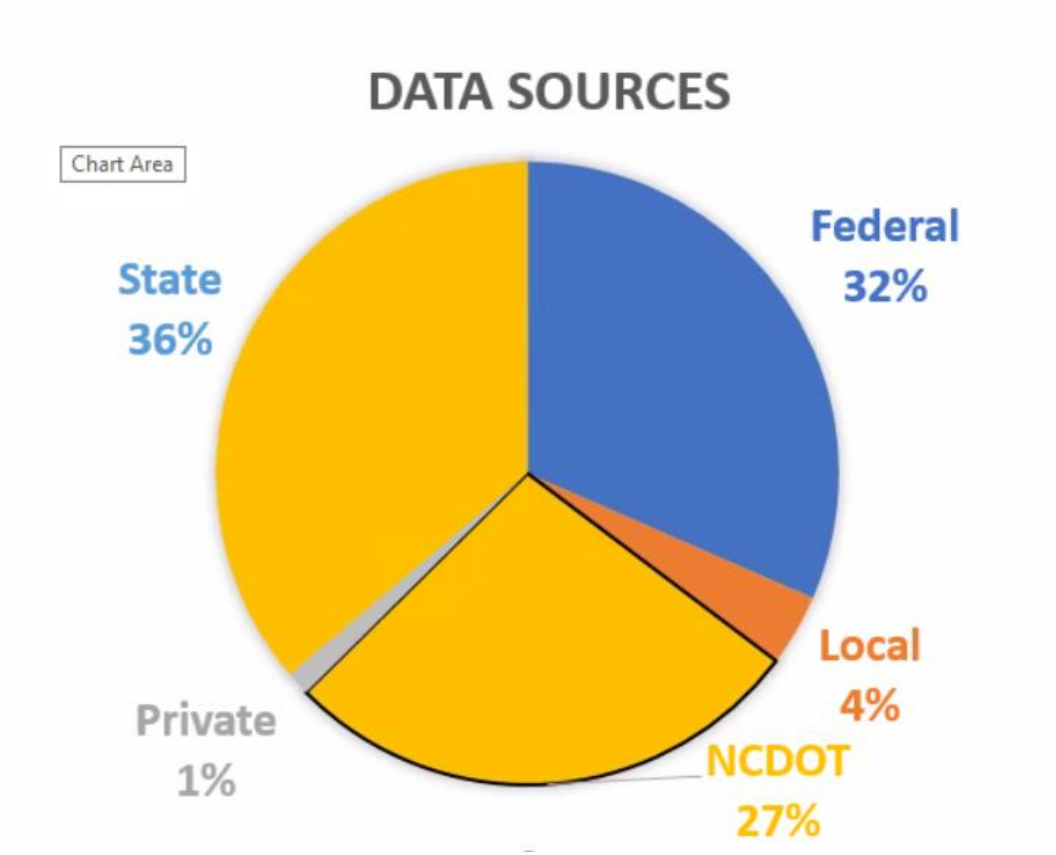
| Organization | Count |
|---|---|
| NC Department of Environmental Quality (DEQ) | 30 |
| NC Center for Geographic Information and Analysis (CGIA) | 21 |
| US Geological Survey (USGS) | 18 |
| NCDOT, GIS Unit | 14 |
| US Army Corps of Engineers (USACE) | 10 |


ESRI
Multi-Resolution Land Characteristics Consortium ...
National Conservation Easement Database
National Oceanic and Atmospheric Administration ...
NC Center for Geographic Information and Analys...
NC Department of Environmental Quality
NC Department of Public Saftey
NC Division of Environmental and Natural Resour...
NC Geodetic Survey
NC Historic Preservation Office
NC Natural Heritage Program
NC Office of State Archaeology
NC State University
NC Wildlife Resource Commission
NCDOT
North Carolina Department of Agriculture and Con...
North Carolina Department of Environmental Quality
UNC - Chapel Hill Library
United States Department of Interior
Traffic Forecast
NRTR
Noise Report
LUSA
LocationsSurvey
ICE
Historic Architecture Screening
Geo-environmental Report
FeasibilityDesign
CIA
CCR
Archaeology Screening
Air
US Environmental Protection Agency (EPA)
US Department of Homeland Security (DHS)
US Department of Commerce
US Department of Agriculture (USDA)
United States Geological Survey (USGS)

# Data Breakdown

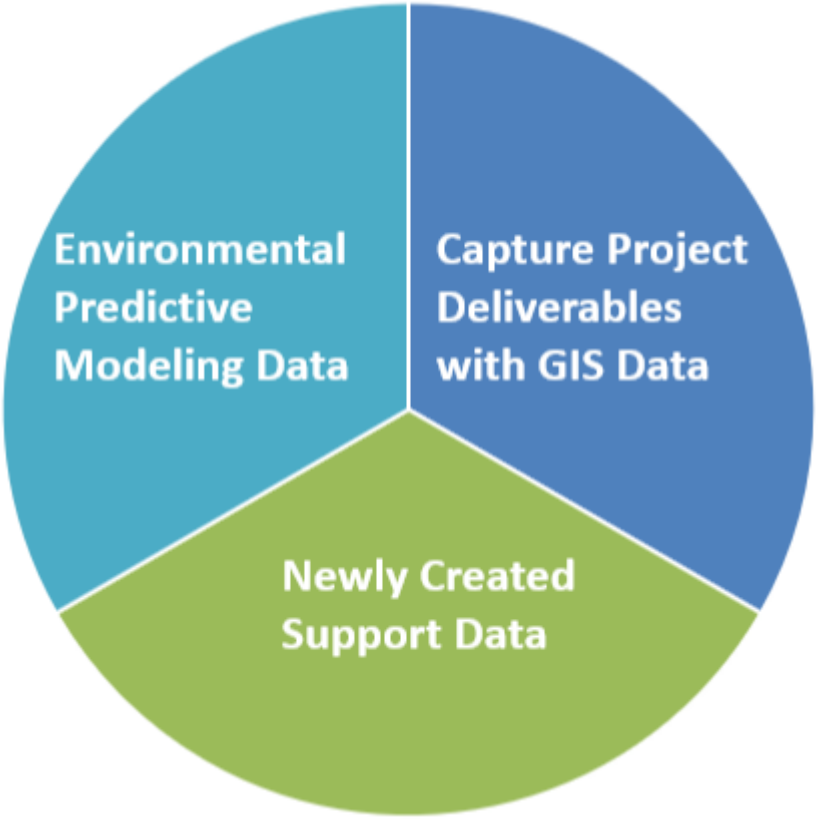


# Data Breakdown



# Data Developed through ATLAS

130 New Layers are being created



# GIS Specific Goals Developed

| # | Business Goal |
|---|---|
| 1. | Provide the transportation project community a searchable gateway to all spatial data used in project delivery at NCDOT. |
| 2. | Create a tool that screens NCDOT STIP projects against spatial project data for significant impact areas. |
| 3. | Provide a platform for project managers to view their project, their project's impacts, and other significant information related to managing that project. |
| 4. | Stand-up an enterprise GIS SDE for NCDOT project data. |
| 5. | Create enterprise GIS data for project delivery. |

# From Goals to Tools

## Search Tool

**April 2019**

A gateway to search and retrieve verifiable, current and accurate project related data.

Addresses NCDOT's need to have consistent data available to Project Managers and Consultants.

## Screening Tool

**April 2019**

A powerful web-based tool to evaluate potential impacts to NCDOT projects using GIS data and predictive modeling.

Allows Project Managers and NCDOT Consultants to understand and coordinate earlier about challenges projects will encounter.

## ATLAS Workbench

**April 2019**

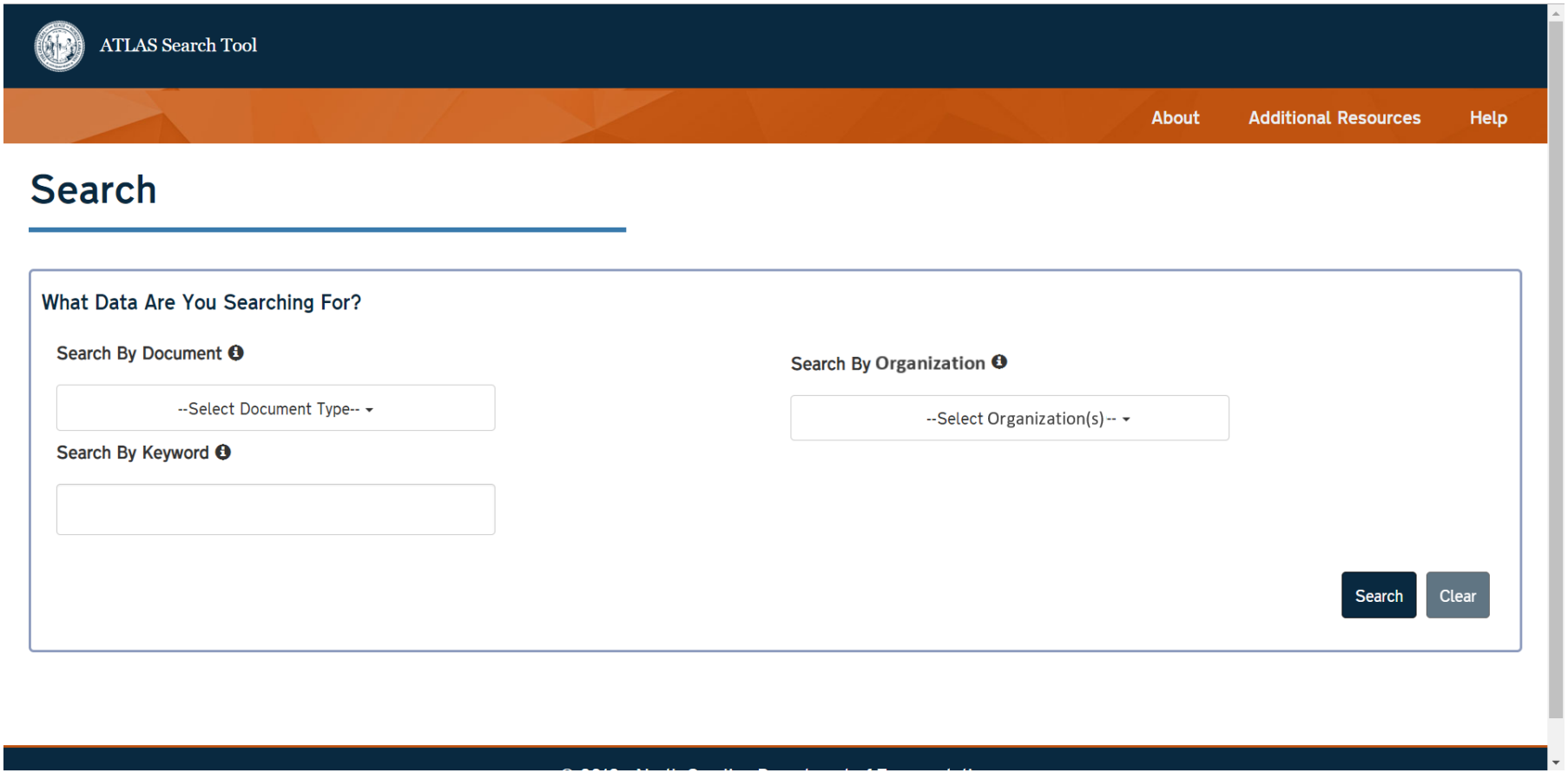
A unified toolset for Project Managers to assess and monitor their projects via the web.

Allows Project Managers and Consultants a common platform to access current project data, historic project data, current deliverable status, and visualize project progress.

Team is also supporting: Automation, Data Creation, and Post Deployment App Management Tool.

# Search Tool

- Key Functionality
  - Search for data by document type, DOT discipline, and keyword
  - Download data package in GBD and DGN formats
  - View data package on a map


ATLAS Search Tool
About
Additional Resources
Help
Search
What Data Are You Searching For?
Search By Document
--Select Document Type--
Search By Keyword
Search By Organization
--Select Organization(s)--
Search
Clear

237 Layers Found.

| Select | Layer Name | Description | Owner |
|---|---|---|---|
| ☑ | 2012 Integrated Reporting Water Quality Assessments | This data set contains the detailed water quality assessment for the 3,381 waterbodies in North Carolina where assessment data or information were available. The data assessed were from over 5,000 monitoring stations with data and information mostly collected in calendar years 2006-2010. This data set includes parameters assessed and water quality rating. | NC Department of Environmental Quality, Division of Water Resources |
| ☑ | 303d and 305b Streams (ESM Layer) | 303d and 305b Streams for ESM application hosted by NCDOT. | NCDOT, GIS Engineering Transportation Systems, GIS Unit |
| ☐ | Albemarle - Pamlico National Estuary Partnership Map | AP map is an interactive mapping application designed to provide geographic information about the Albemarle-Pamlico (A-P) watershed and APNEP. | NC Department of Environmental Quality, Albemarle-Pamlico National Estuary Partnership |
| ☑ | Alluvial Fans | Location and attributes of alluvial fan studies. Only the 1-percent-annual-chance flood is mapped for alluvial fans. The alluvial fan could be mapped as: Zone AO areas with depths and velocities; Zone AO areas with just depths; or Zone A, AE, or X. This information is needed for the Summary of Alluvial Fan Analyses and Results of Alluvial Fan Analyses tables in the FIS report. | Department of Homeland Security, Federal Emergency Management Agency |
| ☑ | Anadromous Fish Spawning Areas | NC DEQ maps here: http://portal.ncdenr.org/web/mf/afsa-maps | NC Department of Environmental Quality, Division of Marine Fisheries |

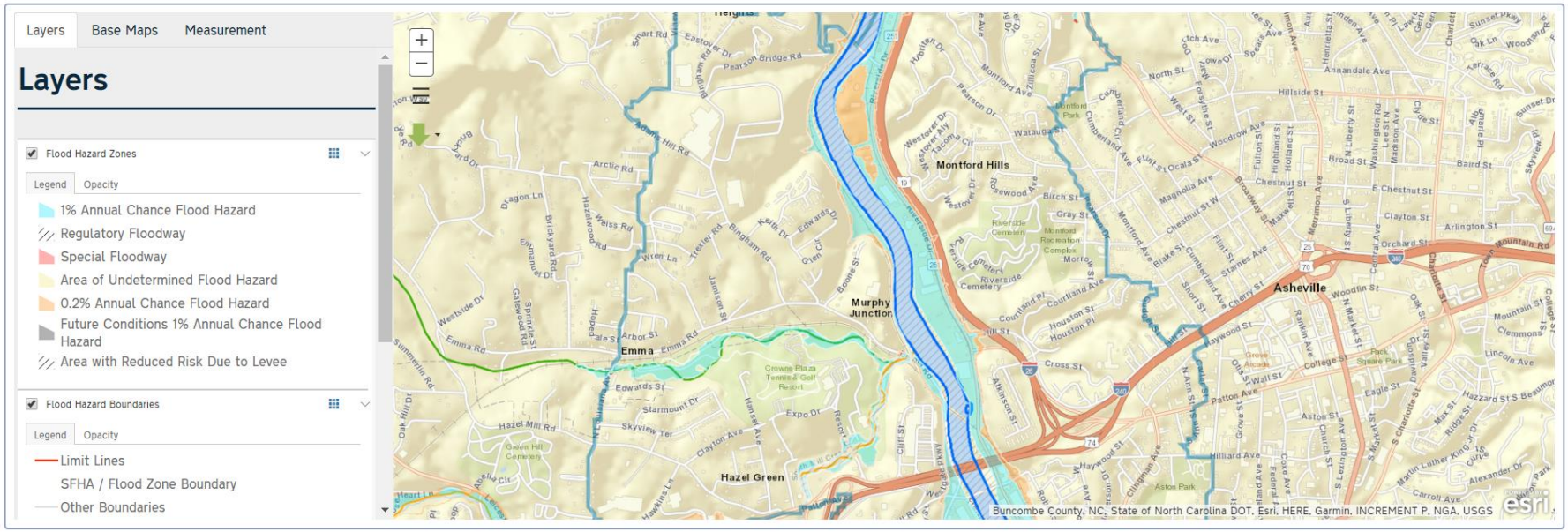
Use checkboxes to select data sets you would like to Download or View on Map, then hit Download or View on Map button. You will then be prompted to define your geographic area of interest.

Download or View On Map

ATLAS Search Tool

About | Additional Resources | Help

Search Home » Area of Interest » Map View

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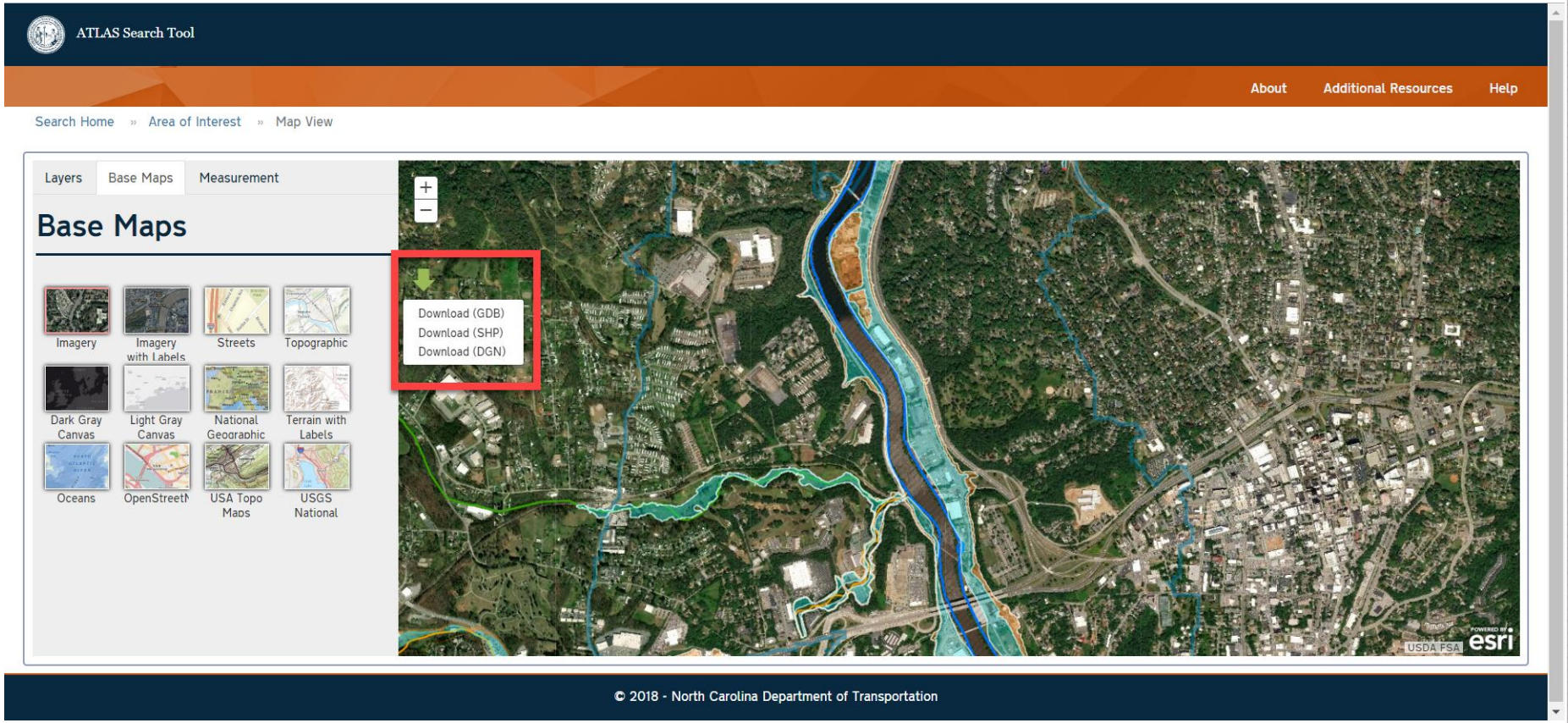
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Layers
Base Maps
Measurement
Base Maps
Imagery
Imagery with Labels
Streets
Topographic
Dark Gray Canvas
Light Gray Canvas
National Geographic
Terrain with Labels
Oceans
OpenStreetM
USA Topo Maps
USGS National
Download (GDB)
Download (SHP)
Download (DGN)
USDA FSA
esri
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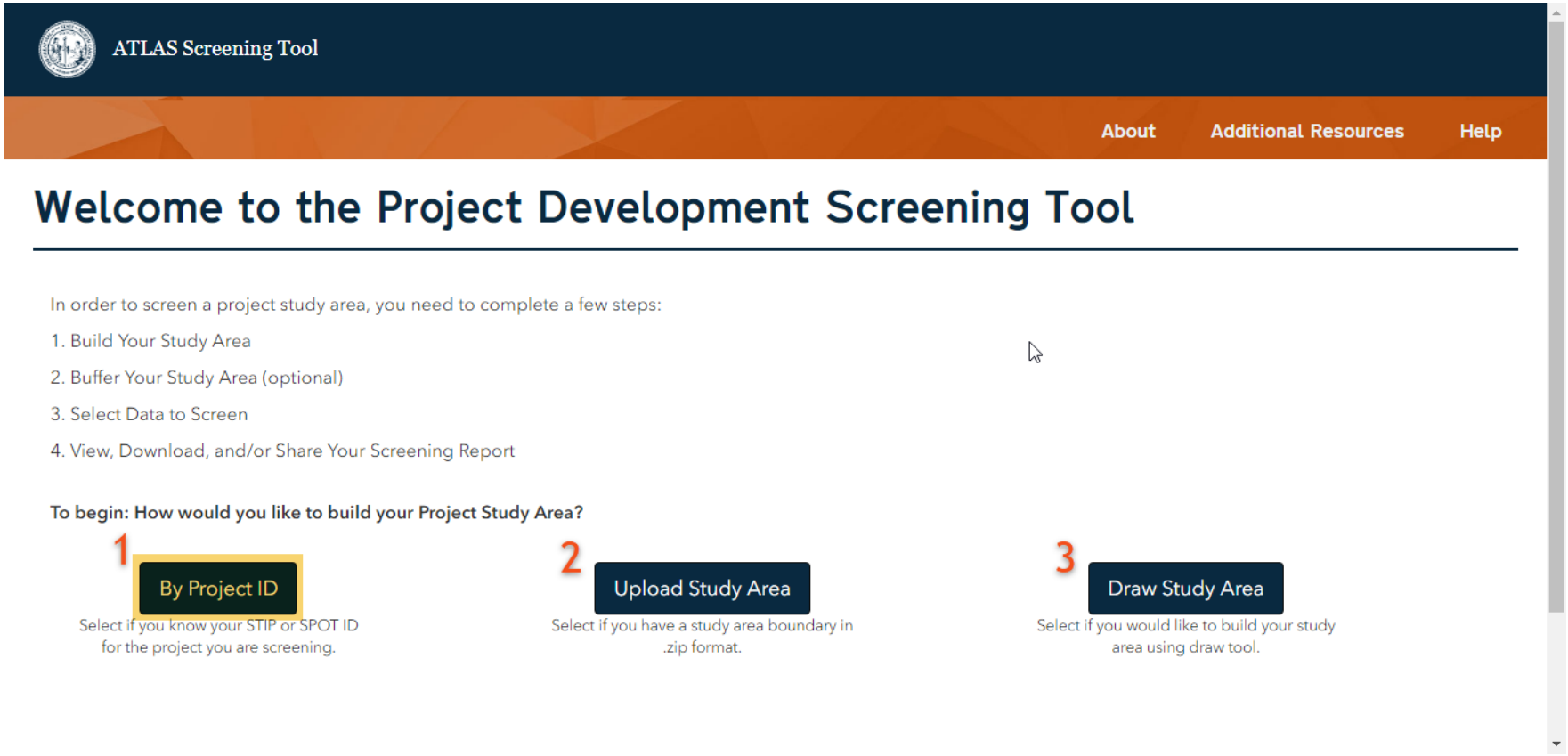
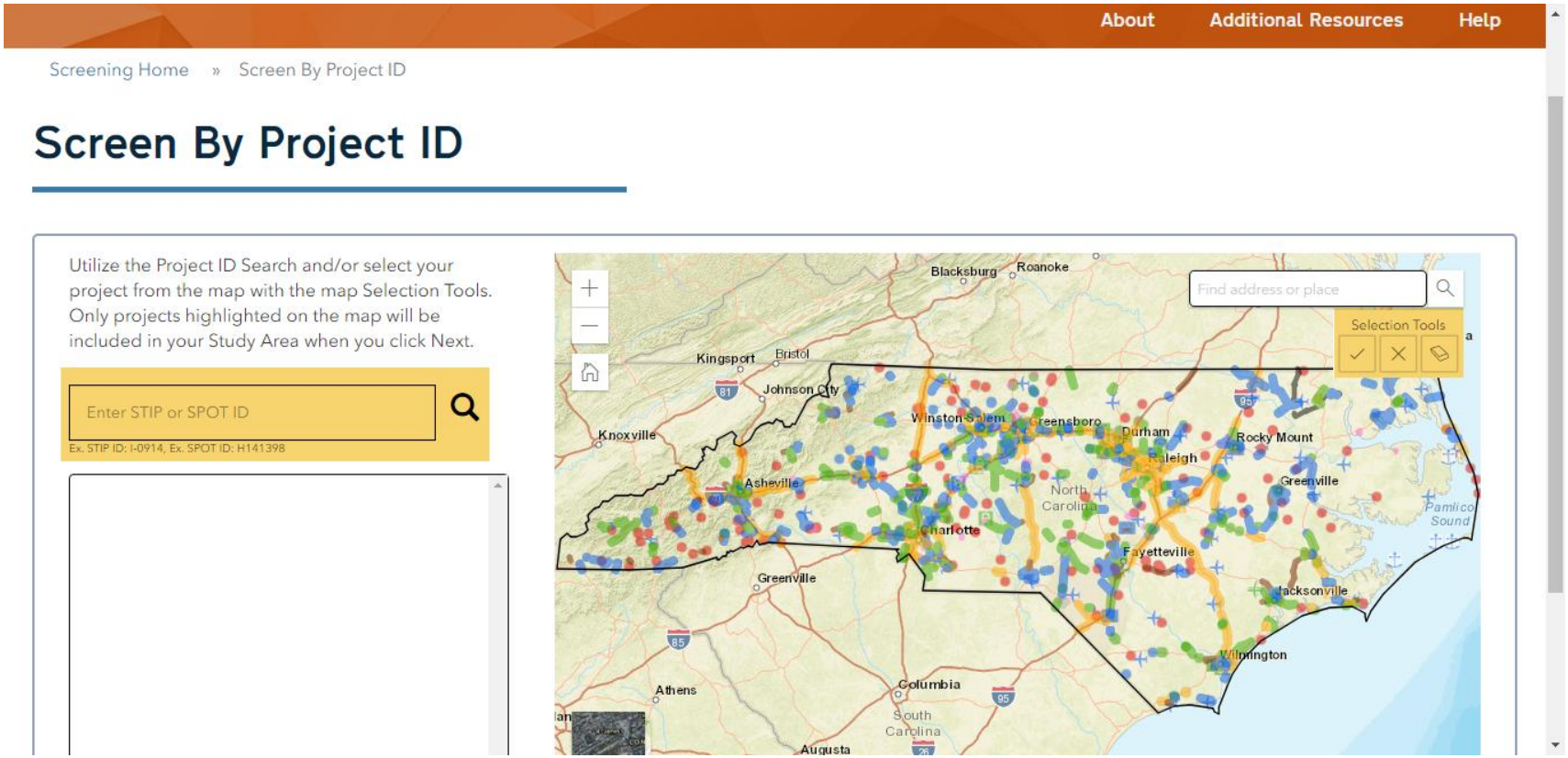
# Screening Tool

- Key Functionality
  - Screen against 60+ key data layers for area impacts
  - Ability to screen STIP and SPOT projects, uploaded study area, or draw a study area
  - Produce screening report that measures impact totals by individual data set
  - Provide ability to download impacts data sets
  - View impact data on a map


ATLAS Screening Tool
About
Additional Resources
Help
Welcome to the Project Development Screening Tool
In order to screen a project study area, you need to complete a few steps:
1. Build Your Study Area
2. Buffer Your Study Area (optional)
3. Select Data to Screen
4. View, Download, and/or Share Your Screening Report
To begin: How would you like to build your Project Study Area?
1
By Project ID
Select if you know your STIP or SPOT ID for the project you are screening.
2
Upload Study Area
Select if you have a study area boundary in .zip format.
3
Draw Study Area
Select if you would like to build your study area using draw tool.


About
Additional Resources
Help
Screening Home » Screen By Project ID
Screen By Project ID
Utilize the Project ID Search and/or select your project from the map with the map Selection Tools. Only projects highlighted on the map will be included in your Study Area when you click Next.
Enter STIP or SPOT ID
Ex. STIP ID: I-0914, Ex. SPOT ID: H141398
Find address or place
Selection Tools
Blacksburg
Roanoke
Kingsport
Bristol
Johnson City
Knoxville
Winston-Salem
Greensboro
Durham
Raleigh
Rocky Mount
Greenville
Asheville
North Carolina
Charlotte
Fayetteville
Pamlico Sound
Greenville
Jacksonville
Wilmington
Athens
Columbia
South Carolina
Augusta

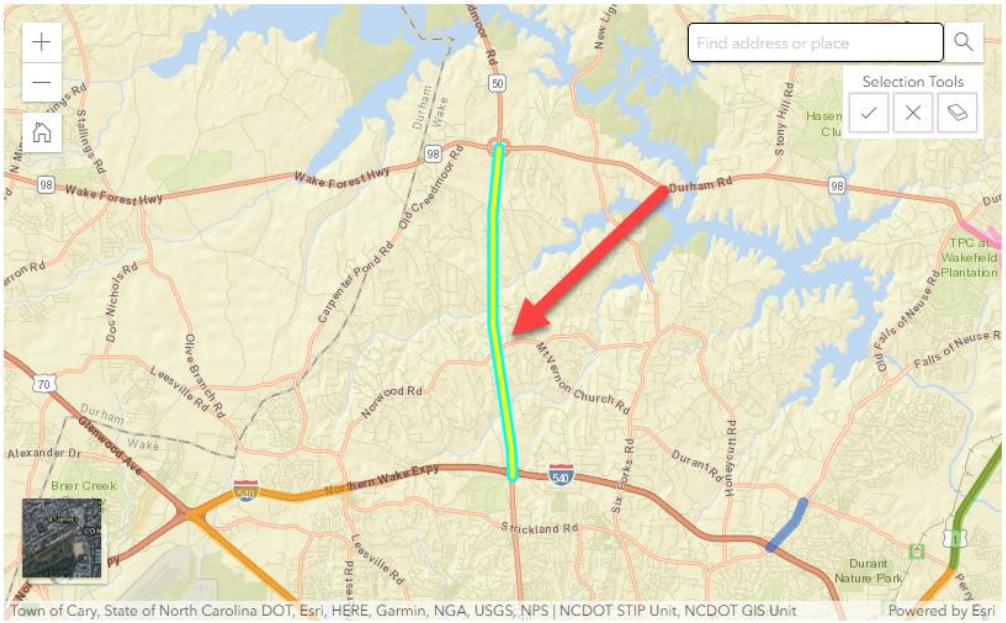
## Screen By Project ID

Utilize the Project ID Search and/or select your project from the map with the map Selection Tools. Only projects highlighted on the map will be included in your Study Area when you click Next.

Enter STIP or SPOT ID

Ex. STIP ID: I-0914, Ex. SPOT ID: H141398

U-5891




Back

Next

Buffers are required to be:

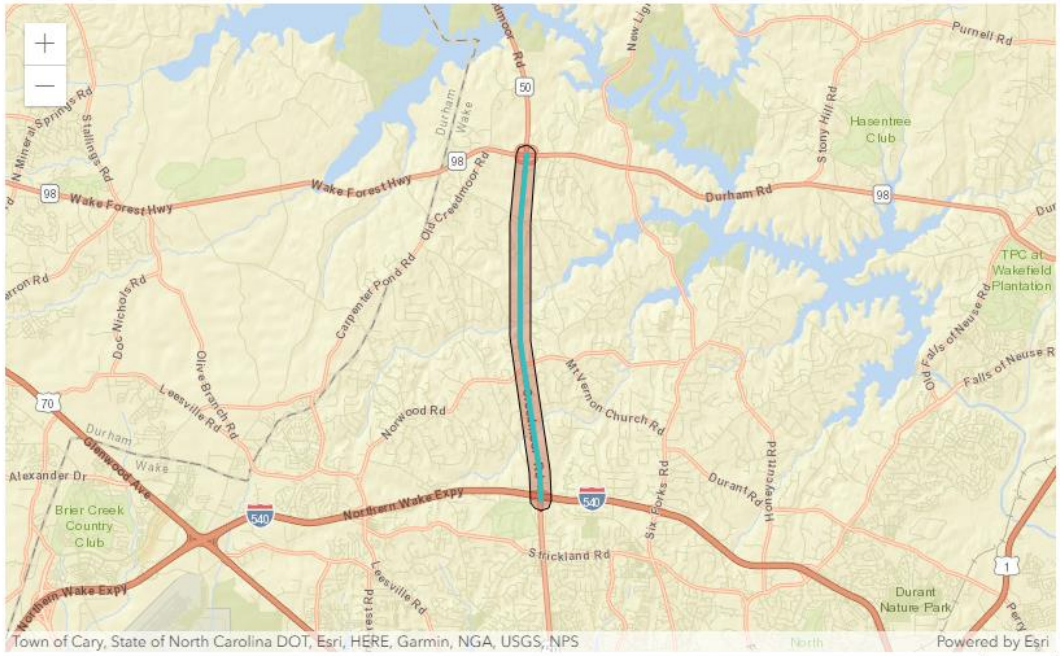
1. Applied for point and line features
2. No more than 2 miles

Buffers are optional for polygon features.

**Distance** 1000

**Unit** Feet

Buffer

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Next

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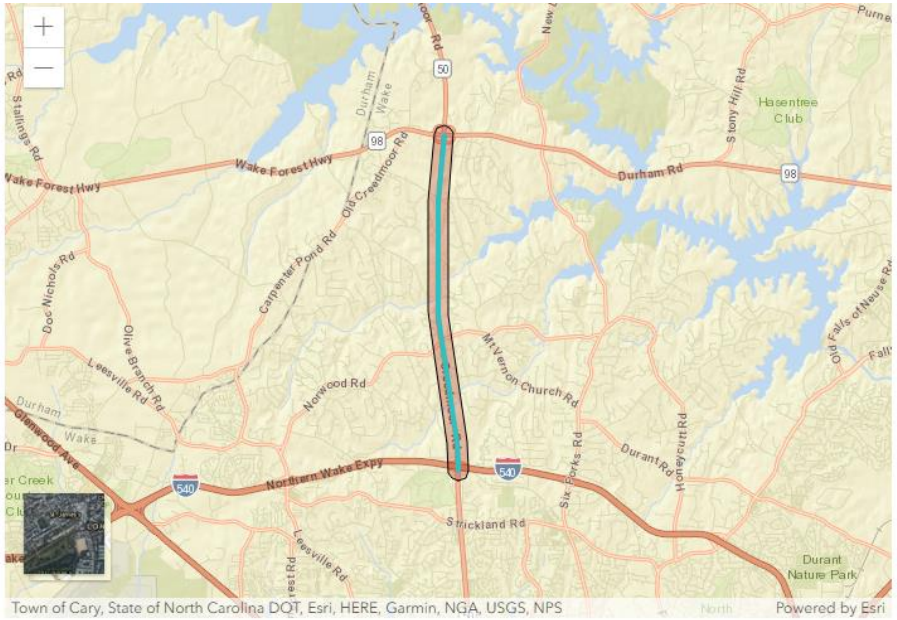
project. Use check boxes to add layers to your screening. Click the layer name to to preview the layer on the map, view layer information, or set sub-report fields for specific layers.

Layer Information | Set Field

Search by layer name

- Human Environment
- Natural Environment
  - Conservation Area
    - Critical Areas (ESM Layer)
    - National Conservation Easement Database
    - National Wildlife Refuges (>3M)
    - NC CAMA Counties (DCM List)
    - NC DEQ DCM Coastal Reserve Boundary

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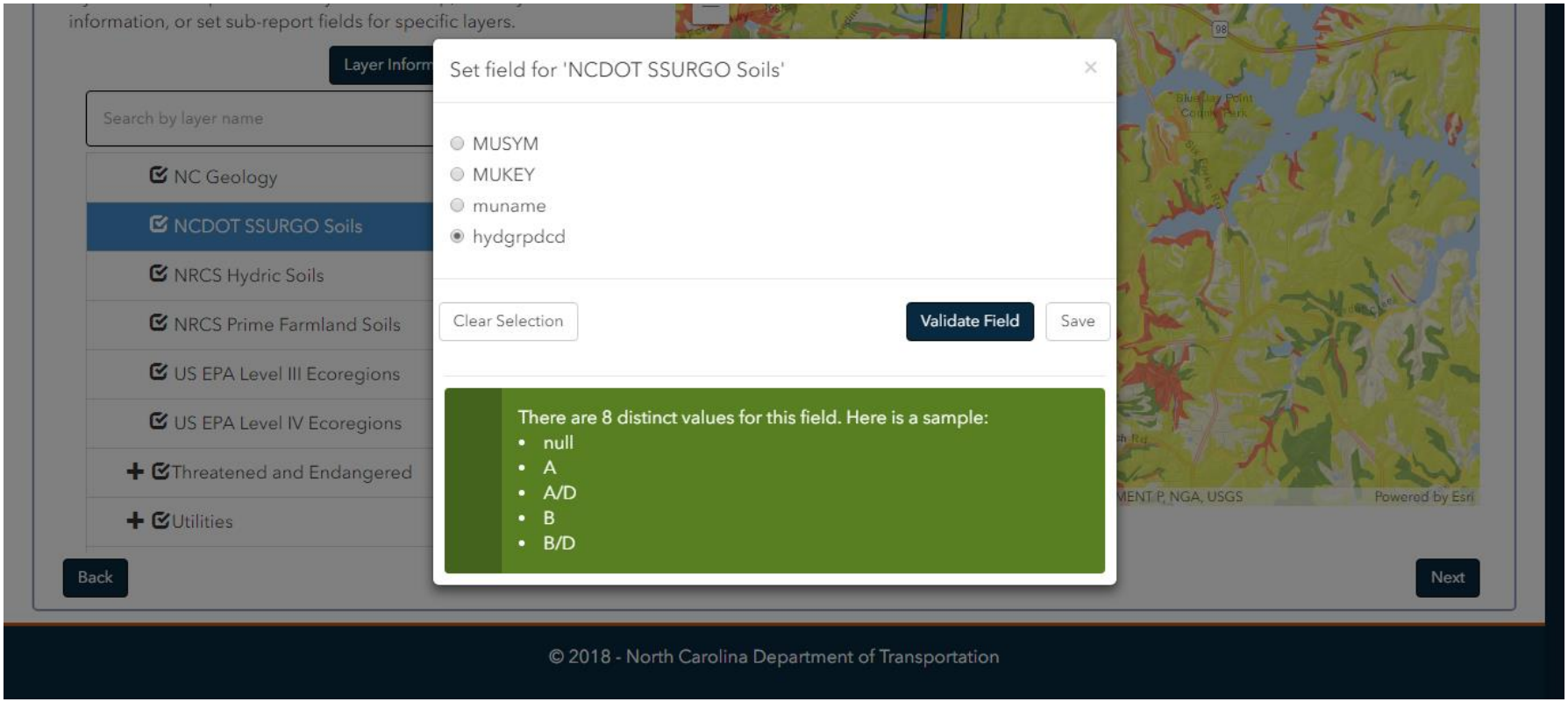
information, or set sub-report fields for specific layers.
Layer Inform
Search by layer name
NC Geology
NCDOT SSURGO Soils
NRCS Hydric Soils
NRCS Prime Farmland Soils
US EPA Level III Ecoregions
US EPA Level IV Ecoregions
Threatened and Endangered
Utilities
Back
Set field for 'NCDOT SSURGO Soils'
MUSYM
MUKEY
muname
hydgrpdcd
Clear Selection
Validate Field
Save
There are 8 distinct values for this field. Here is a sample:
null
A
A/D
B
B/D
Powered by Esri
Next
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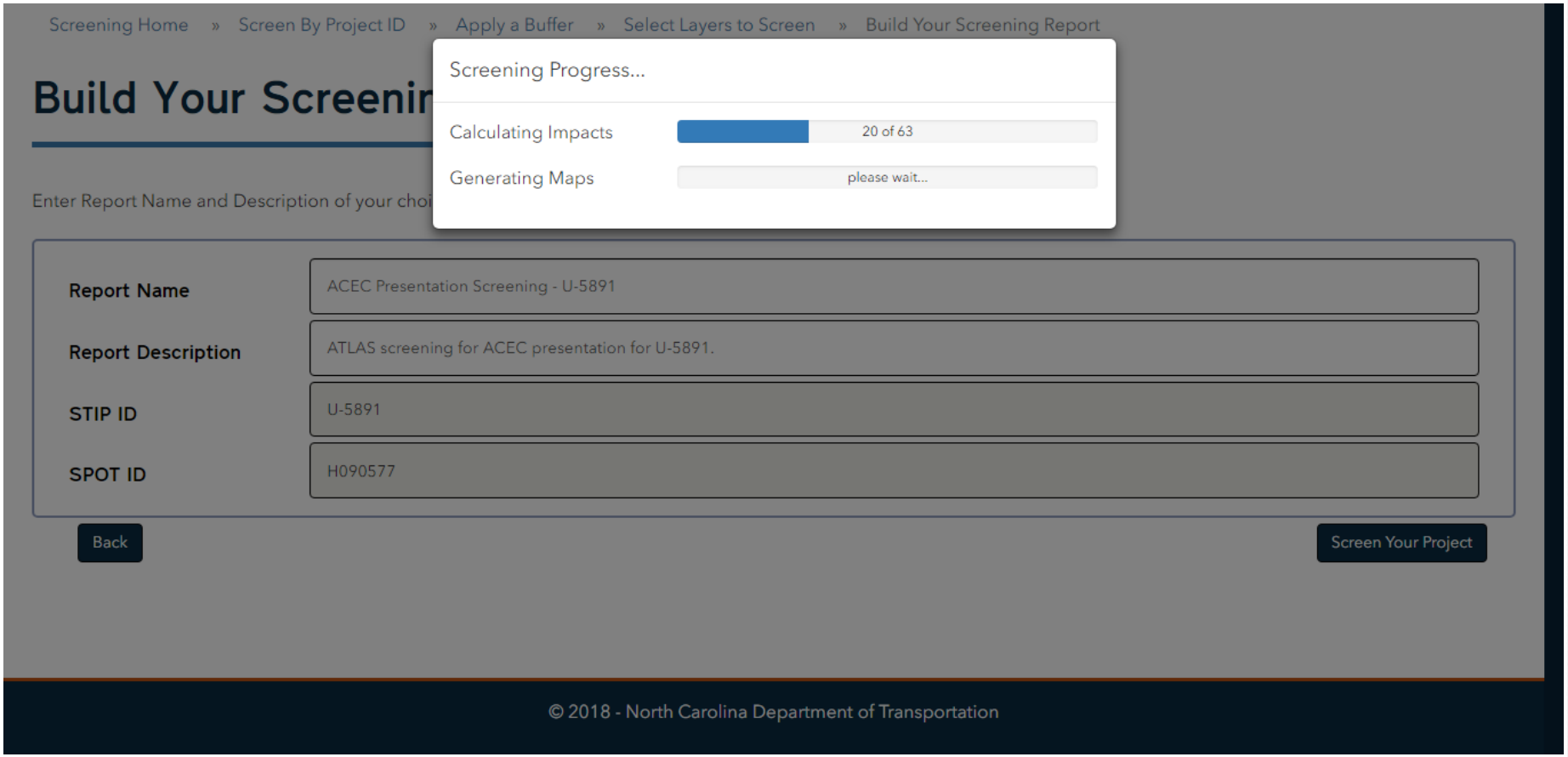
Screening Home » Screen By Project ID » Apply a Buffer » Select Layers to Screen » Build Your Screening Report
Build Your Screenir
Screening Progress...
Calculating Impacts
20 of 63
Generating Maps
please wait...
Enter Report Name and Description of your choi
Report Name
ACEC Presentation Screening - U-5891
Report Description
ATLAS screening for ACEC presentation for U-5891.
STIP ID
U-5891
SPOT ID
H090577
Back
Screen Your Project
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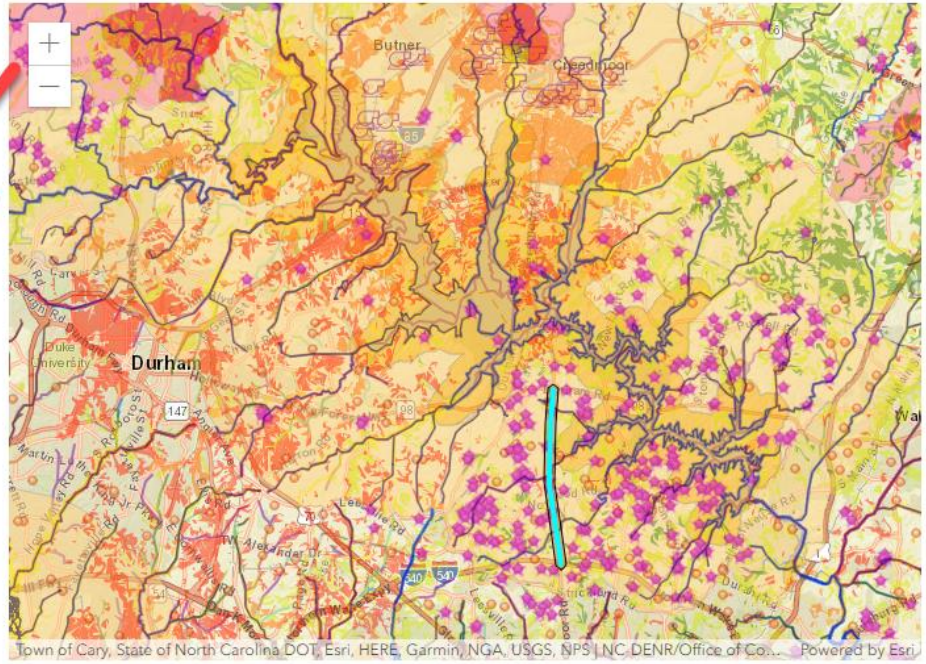
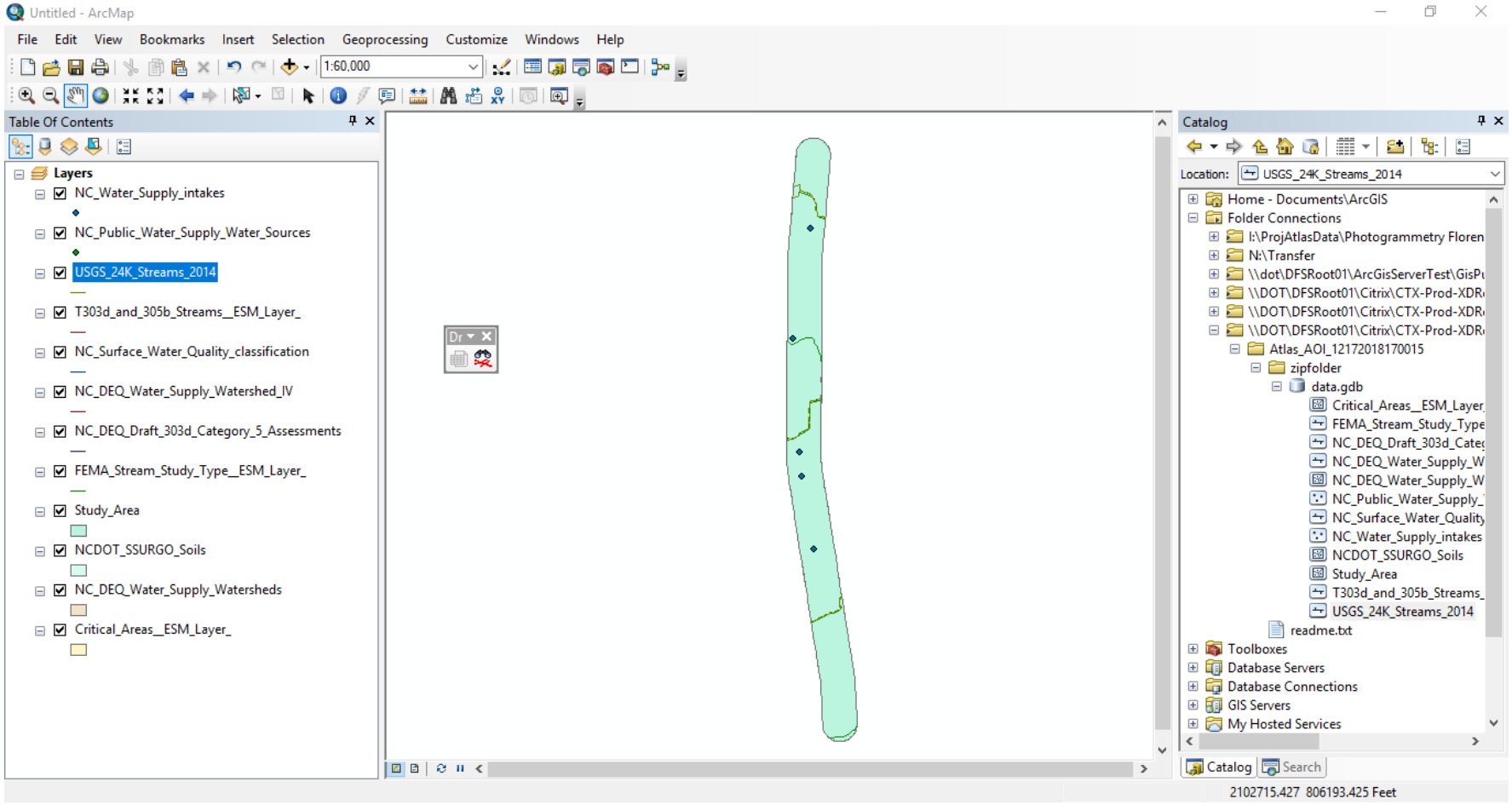
Number of potential impacts: **14**

Download Report | Download GDB | Download DGN | Show Layer Information

- Submerged Aquatic Vegetation
- NOAA Essential Fish Habitat
- Hydrography
  - NC DEQ Draft 303d Category 5 Assessments
  - FEMA Stream Study Type (ESM Layer)
  - DWR Trout Waters 2014 (ESM Layer)
  - 303d and 305b Streams (ESM Layer)
  - NC DEQ Outstanding Resource Waters in North Carolina
  - NC DEQ Water Supply Watershed III
  - NC DEQ High Quality Waters in North Carolina




Untitled - ArcMap
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:60,000
Table Of Contents
Layers
NC_Water_Supply_intakes
NC_Public_Water_Supply_Water_Sources
USGS_24K_Streams_2014
T303d_and_305b_Streams__ESM_Layer_
NC_Surface_Water_Quality_classification
NC_DEQ_Water_Supply_Watershed_IV
NC_DEQ_Draft_303d_Category_5_Assessments
FEMA_Stream_Study_Type__ESM_Layer_
Study_Area
NCDOT_SSURGO_Soils
NC_DEQ_Water_Supply_Watersheds
Critical_Areas__ESM_Layer_
Catalog
Location: USGS_24K_Streams_2014
Home - Documents\ArcGIS
Folder Connections
Atlas_AOI_12172018170015
zipfolder
data.gdb
Critical_Areas__ESM_Layer_
FEMA_Stream_Study_Type
NC_DEQ_Draft_303d_Categ
NC_DEQ_Water_Supply_W
NC_DEQ_Water_Supply_W
NC_Public_Water_Supply_
NC_Surface_Water_Quality
NC_Water_Supply_intakes
NCDOT_SSURGO_Soils
Study_Area
T303d_and_305b_Streams_
USGS_24K_Streams_2014
readme.txt
Toolboxes
Database Servers
Database Connections
GIS Servers
My Hosted Services
Catalog
Search
2102715.427 806193.425 Feet

# Project Development Screening Report

## ACEC Presentation Screening - U-5891

Report Description:

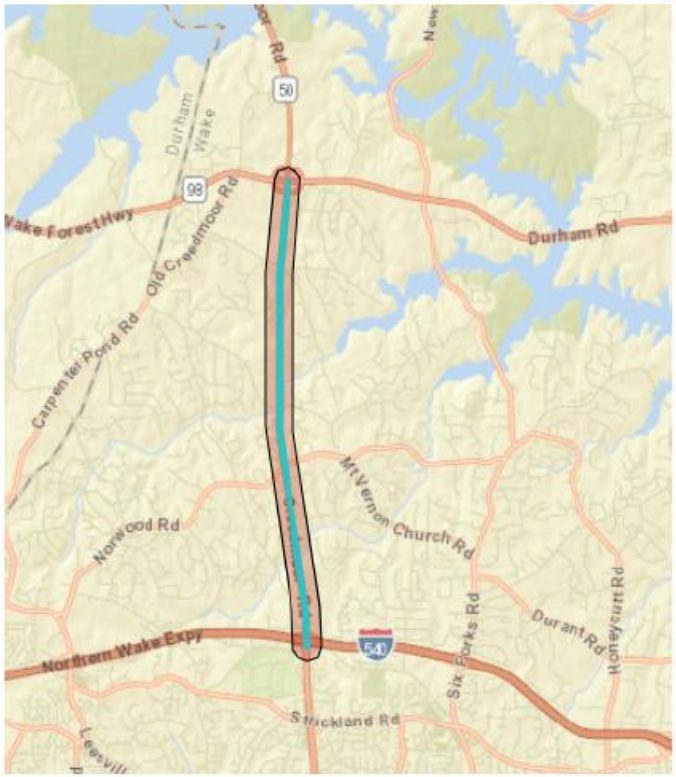
ATLAS screening for ACEC presentation for U-5891.

Buffer Size: 1000 Feet

STIP/SPOT ID: U-5891, H090577

STIP/SPOT Description:

U-5891: I-540 TO NORTH OF NC 98. WIDEN TO MULTILANE DIVIDED ROADWAY.



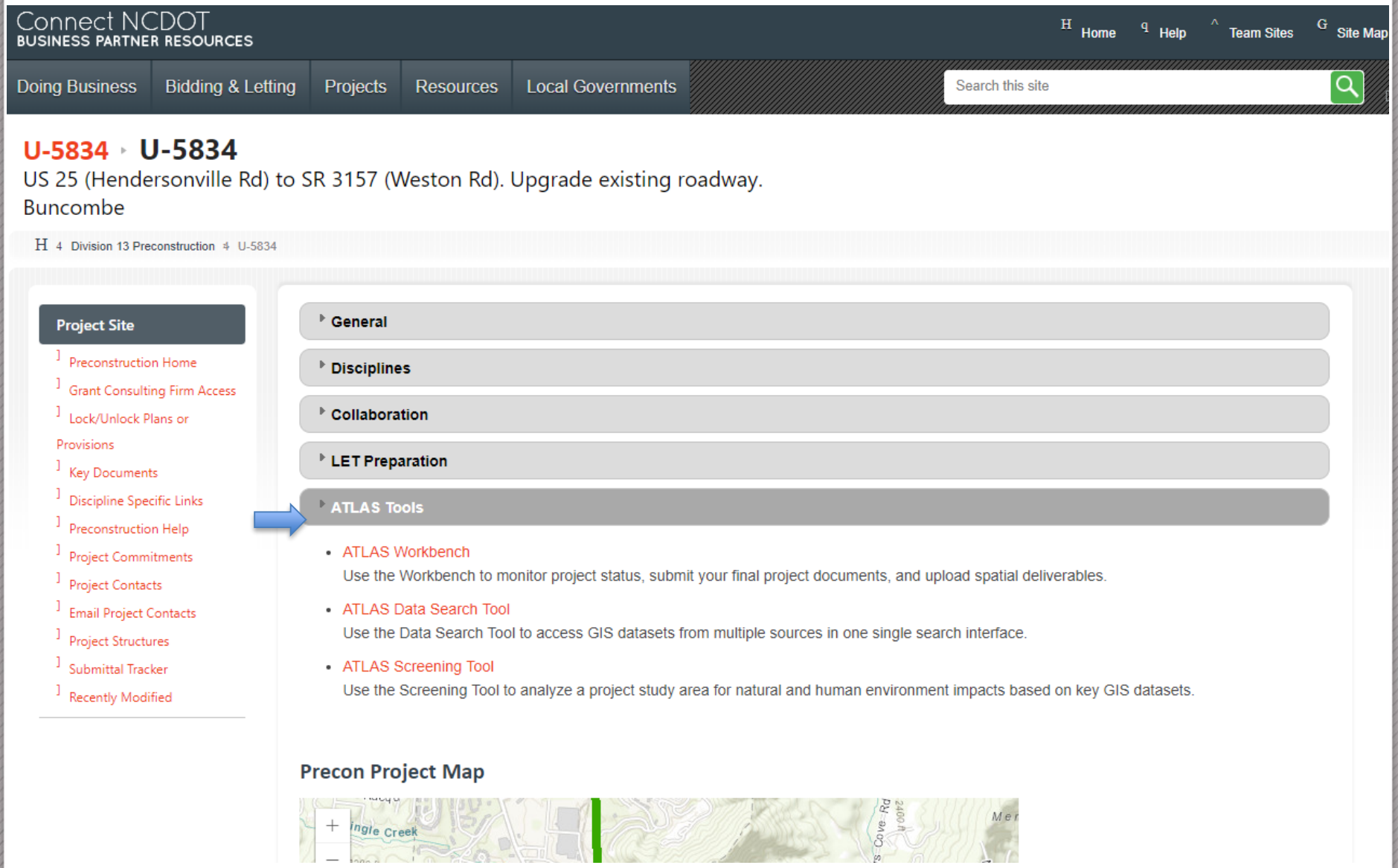

**Summary of Potential Impacts**

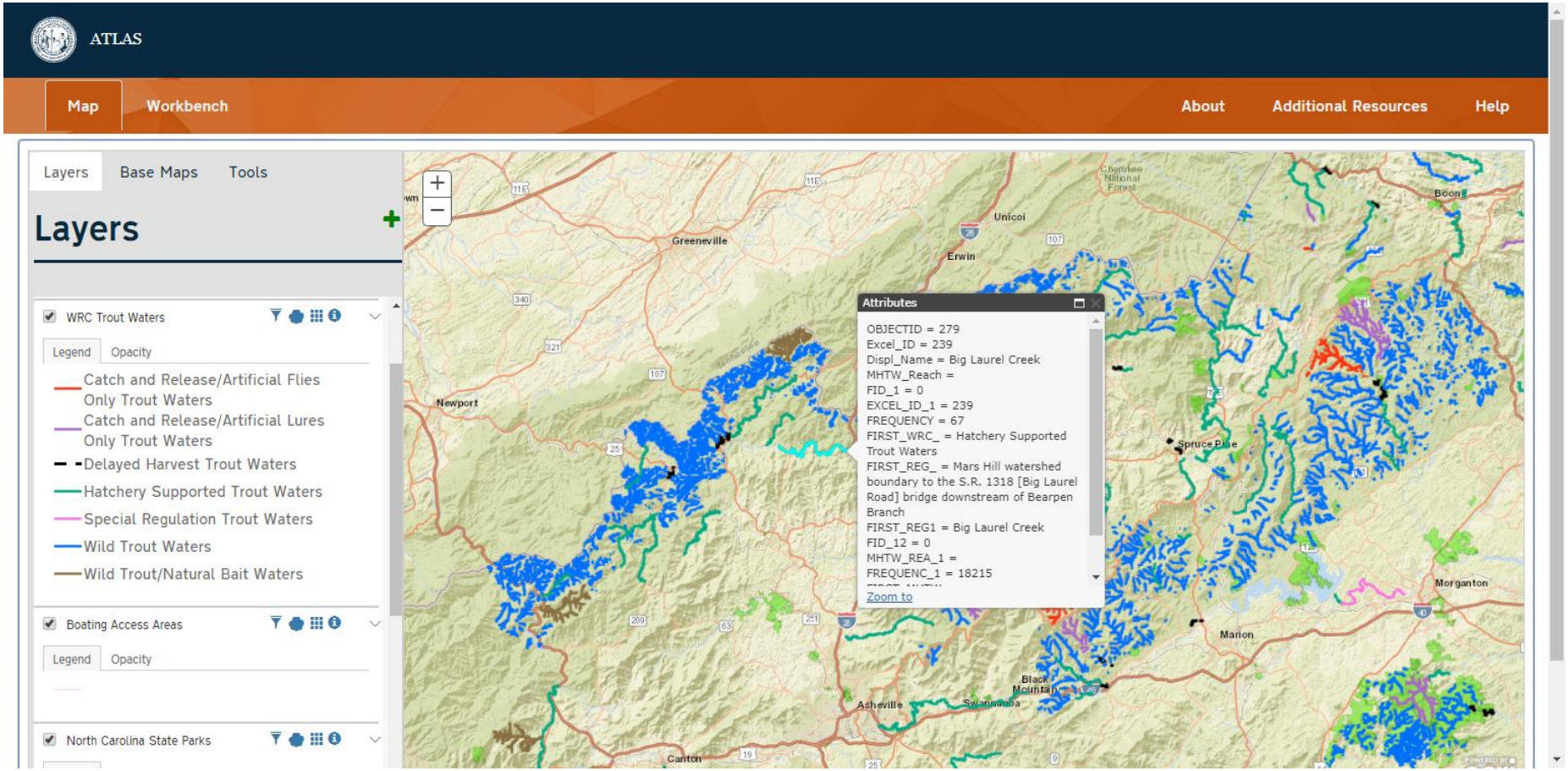
| Impact Type | Potential Impacts |
|---|---|
| Conservation Area | Yes |
| Fish and Aquatics | No |
| Hydrography | Yes |

| Fish and Aquatics | Count | Total Coverage | Nearest |
|---|---|---|---|
| NC Heritage Fishing Nursery Areas | 0 | 0 ac | 0 |
| NOAA Essential Fish Habitat | 0 | 0 ac | 0 |
| Submerged Aquatic Vegetation | 0 | 0 ac | 0 |
| **Hydrography** | **Count** | **Total Coverage** | **Nearest** |
| 303d and 305b Streams (ESM Layer) | 7 | 8778.0 ft | 529.7 ft |
| FEMA Stream Study Type (ESM Layer) | 5 | 11245.5 ft | 476.9 ft |
| NC DEQ Water Supply Watershed IV | 4 | 10855.4 ft | 529.7 ft |
| USGS 24K Streams 2014 | 4 | 8778.0 ft | 529.7 ft |
| NC DEQ Water Supply Watersheds | 2 | 1053.6 ac | N/A |
| NC DEQ Draft 303d Category 5 Assessments | 1 | 3834.1 ft | N/A |
| DWR Trout Waters 2014 (ESM Layer) | 0 | 0 ft | 0 |
| High Quality Water and Outstanding Resource Water Management Zones | 0 | 0 ac | 0 |
| NC Wild and Scenic Rivers | 0 | 0 ft | 0 |
| NOAA Designated Critical Resource Waters | 0 | 0 ac | 0 |
| USDA Forest Service Wild and Scenic Rivers | 0 | 0 ft | 0 |
| WRC Trout Waters | 0 | 0 ft | 0 |
| **Physiography** | **Count** | **Total Coverage** | **Nearest** |
| NCDOT SSURGO Soils | 144 | 1053.6 ac | 17.5 ft |
| US EPA Level III Ecoregions | 1 | 1611.4 ac | N/A |
| US EPA Level IV Ecoregions | 1 | 1611.4 ac | N/A |
| **Utilities** | **Count** | **Total Coverage** | **Nearest** |
| NC Public Water Supply Water Sources | 5 | N/A | 461.6 ft |
| NC Water Supply intakes | 5 | N/A | 461.3 ft |
| NC Surface Water Intakes | 0 | N/A | 0 |
| Sanitary Sewer Systems - Land Application Areas | 0 | N/A | 0 |
| Sanitary Sewer Systems - Pumping Stations | 0 | N/A | 0 |
| Water Distribution Systems - Water Pumping Stations | 0 | N/A | 0 |

# ATLAS Workbench

- Key Functionality
  - Flexible in conjunction with policy changes
  - Advanced Map Viewer
  - Integration with SharePoint (Scoping and PreConstruction)
  - Ingestion of standard deliverable data (PDF and spatial data deliverables)
  - View your project within the context of surrounding projects and data for those projects


Connect NCDOT
BUSINESS PARTNER RESOURCES
Home
Help
Team Sites
Site Map
Doing Business
Bidding & Letting
Projects
Resources
Local Governments
Search this site
U-5834 ▸ U-5834
US 25 (Hendersonville Rd) to SR 3157 (Weston Rd). Upgrade existing roadway.
Buncombe
Division 13 Preconstruction ▸ U-5834
Project Site
Preconstruction Home
Grant Consulting Firm Access
Lock/Unlock Plans or Provisions
Key Documents
Discipline Specific Links
Preconstruction Help
Project Commitments
Project Contacts
Email Project Contacts
Project Structures
Submittal Tracker
Recently Modified
General
Disciplines
Collaboration
LET Preparation
ATLAS Tools
ATLAS Workbench
Use the Workbench to monitor project status, submit your final project documents, and upload spatial deliverables.
ATLAS Data Search Tool
Use the Data Search Tool to access GIS datasets from multiple sources in one single search interface.
ATLAS Screening Tool
Use the Screening Tool to analyze a project study area for natural and human environment impacts based on key GIS datasets.
Precon Project Map


ATLAS
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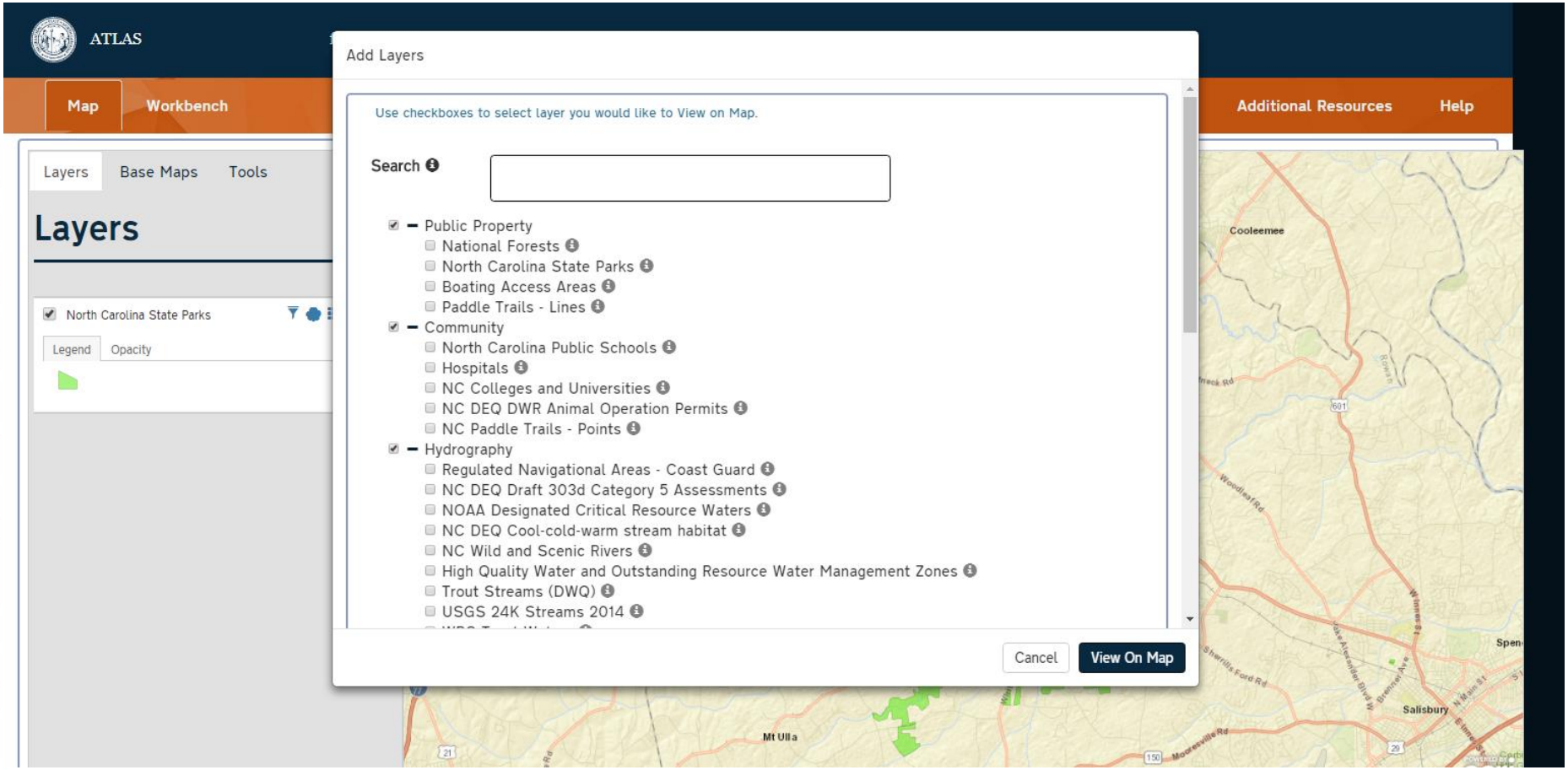
Layers
WRC Trout Waters
Legend
Opacity
Catch and Release/Artificial Flies Only Trout Waters
Catch and Release/Artificial Lures Only Trout Waters
Delayed Harvest Trout Waters
Hatchery Supported Trout Waters
Special Regulation Trout Waters
Wild Trout Waters
Wild Trout/Natural Bait Waters
Boating Access Areas
Legend
Opacity
North Carolina State Parks
Attributes
OBJECTID = 279
Excel_ID = 239
Displ_Name = Big Laurel Creek
MHTW_Reach =
FID_1 = 0
EXCEL_ID_1 = 239
FREQUENCY = 67
FIRST_WRC_ = Hatchery Supported Trout Waters
FIRST_REG_ = Mars Hill watershed boundary to the S.R. 1318 [Big Laurel Road] bridge downstream of Bearpen Branch
FIRST_REG1 = Big Laurel Creek
FID_12 = 0
MHTW_REA_1 =
FREQUENC_1 = 18215
Zoom to
Greeneville
Unicoi
Erwin
Newport
Spruce Pine
Morganton
Marion
Asheville
Black Mountain
Canton
Boone


ATLAS
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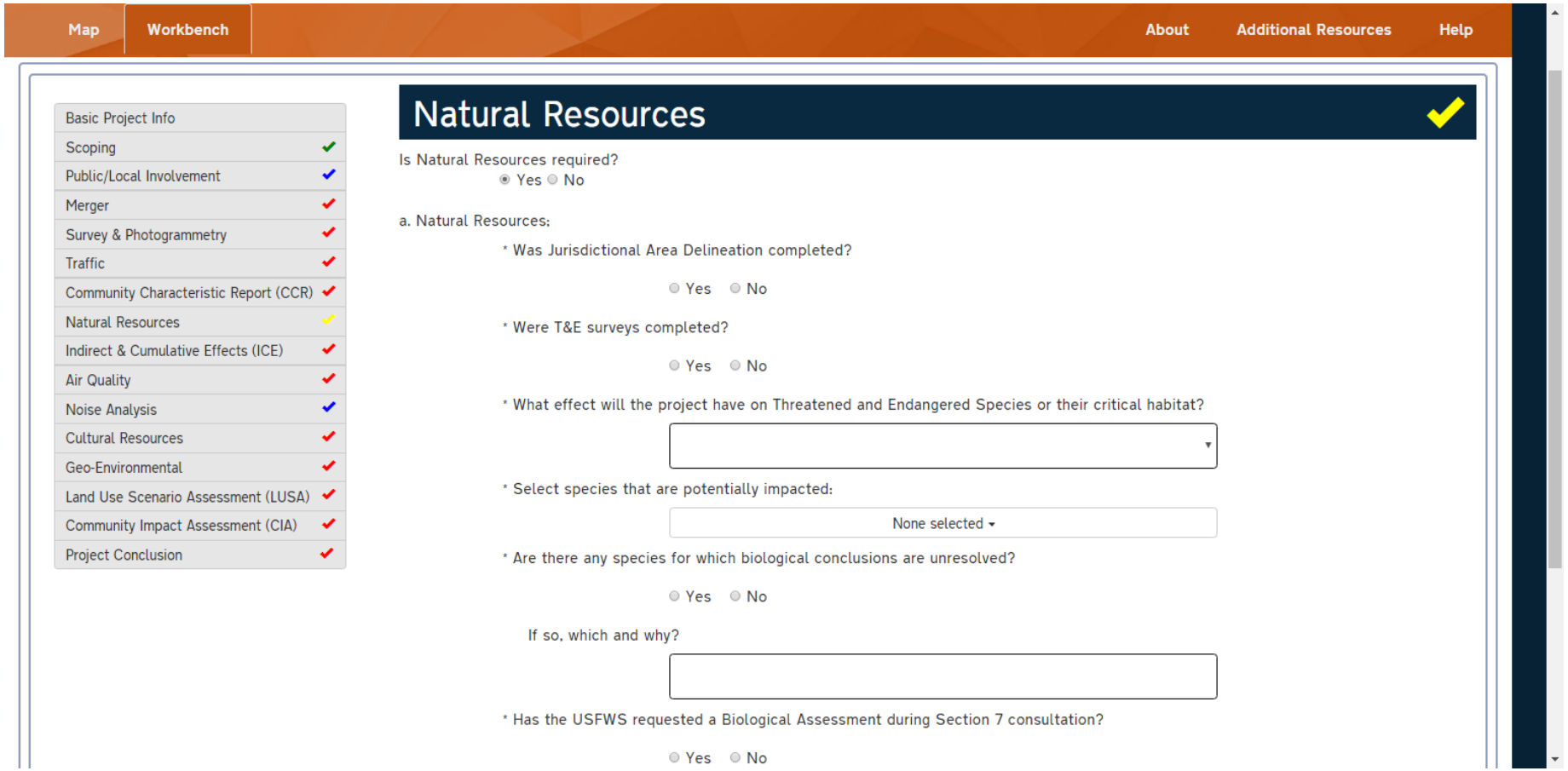
Add Layers
Use checkboxes to select layer you would like to View on Map.
Search
Public Property
National Forests
North Carolina State Parks
Boating Access Areas
Paddle Trails - Lines
Community
North Carolina Public Schools
Hospitals
NC Colleges and Universities
NC DEQ DWR Animal Operation Permits
NC Paddle Trails - Points
Hydrography
Regulated Navigational Areas - Coast Guard
NC DEQ Draft 303d Category 5 Assessments
NOAA Designated Critical Resource Waters
NC DEQ Cool-cold-warm stream habitat
NC Wild and Scenic Rivers
High Quality Water and Outstanding Resource Water Management Zones
Trout Streams (DWQ)
USGS 24K Streams 2014
Cancel
View On Map
Cooleemee
Mt Ulla
Salisbury


Map
Workbench
About
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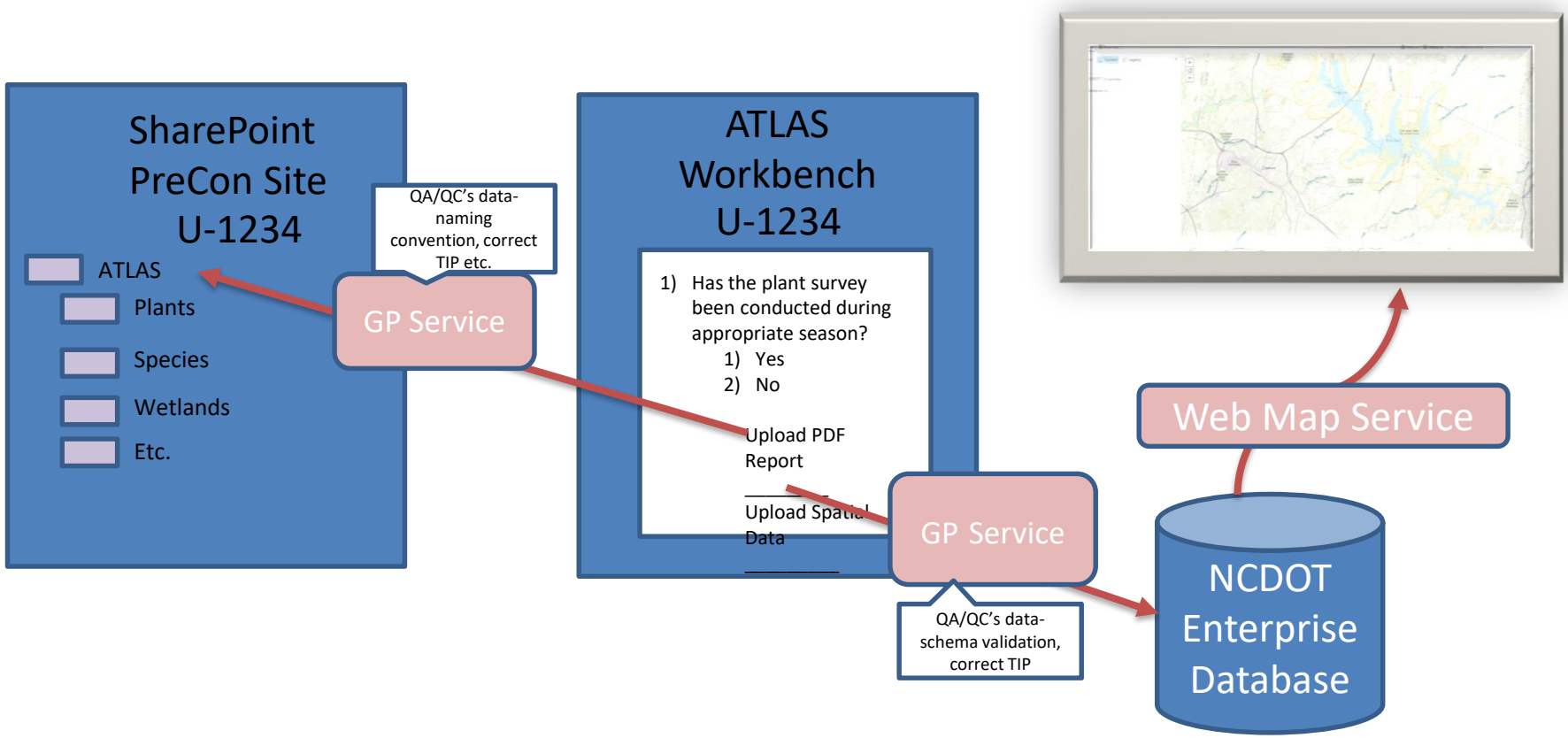
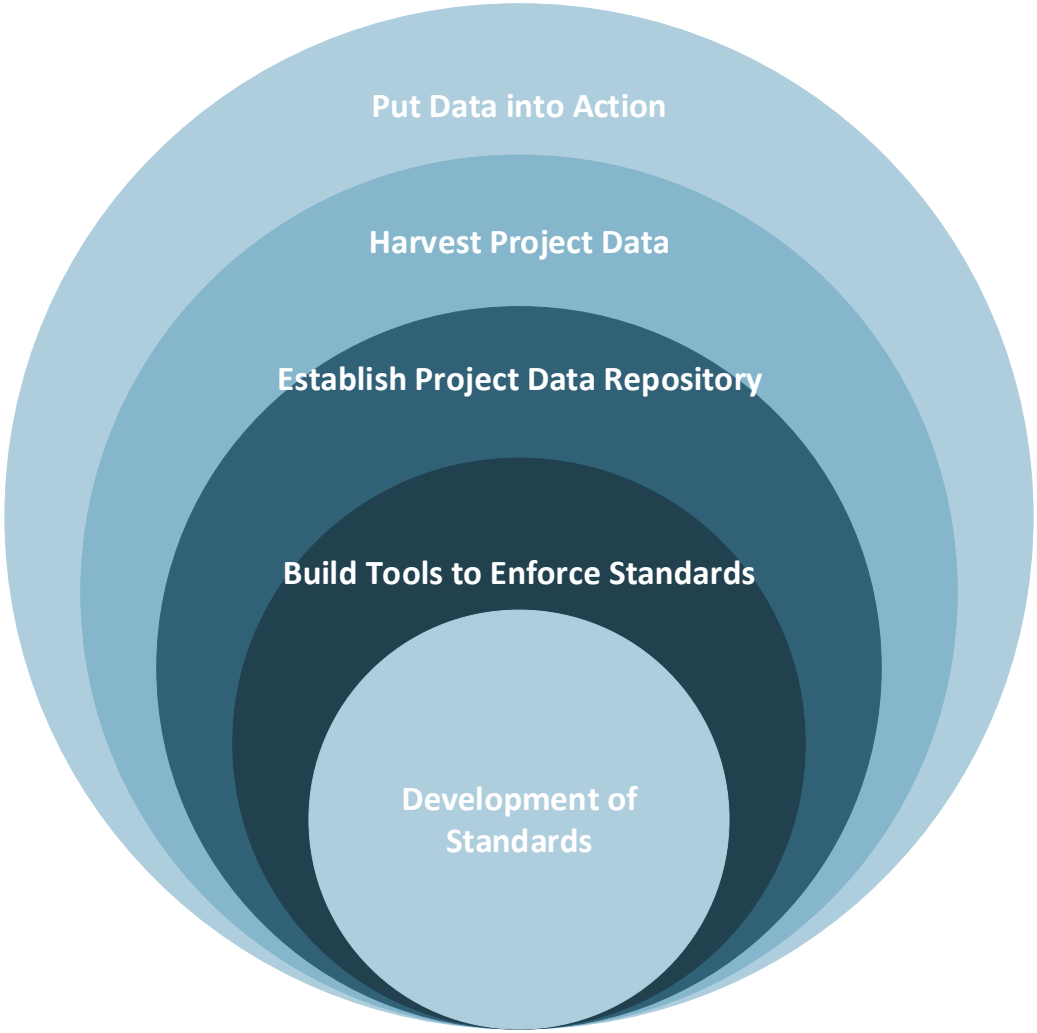
Basic Project Info
Scoping
Public/Local Involvement
Merger
Survey & Photogrammetry
Traffic
Community Characteristic Report (CCR)
Natural Resources
Indirect & Cumulative Effects (ICE)
Air Quality
Noise Analysis
Cultural Resources
Geo-Environmental
Land Use Scenario Assessment (LUSA)
Community Impact Assessment (CIA)
Project Conclusion
Natural Resources
Is Natural Resources required?
Yes No
a. Natural Resources:
* Was Jurisdictional Area Delineation completed?
Yes No
* Were T&E surveys completed?
Yes No
* What effect will the project have on Threatened and Endangered Species or their critical habitat?
* Select species that are potentially impacted:
None selected
* Are there any species for which biological conclusions are unresolved?
Yes No
If so, which and why?
* Has the USFWS requested a Biological Assessment during Section 7 consultation?
Yes No

# Workbench: Data Flow



# Workbench – Snowball Effect



# Application Management Tool

- Key Functionality
  - Add/remove layers
  - Manage deliverables types
  - Manage workbench questions
  - Update About, Application Disclaimers, Additional Resources, and Help


ATLAS Application Management Portal
Manage ATLAS Search Tool
Manage ATLAS Screening Tool
Manage ATLAS Workbench
Manage ATLAS Disclaimer
Manage ATLAS About
Manage ATLAS Additional Resources
Manage ATLAS Help
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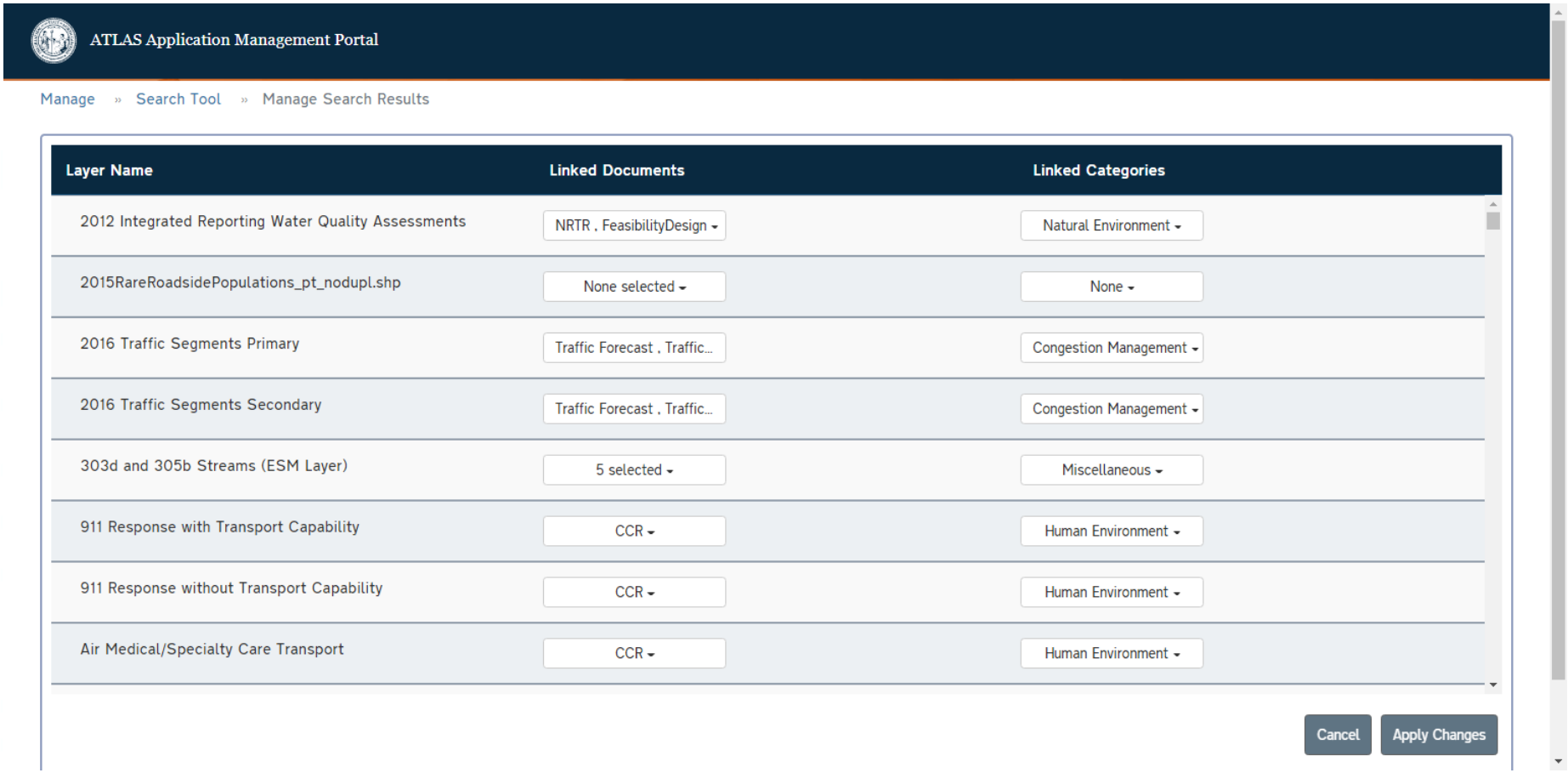
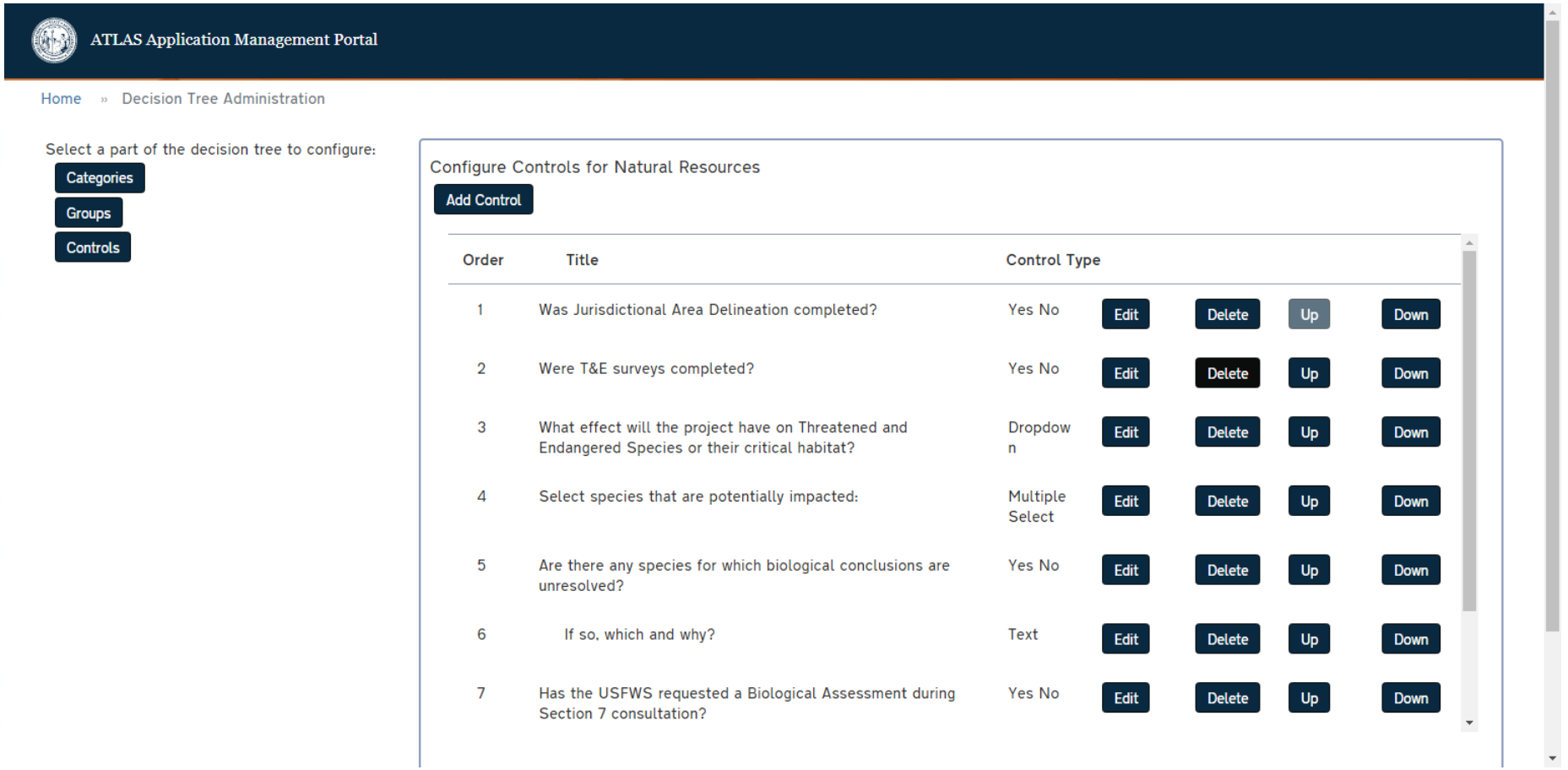
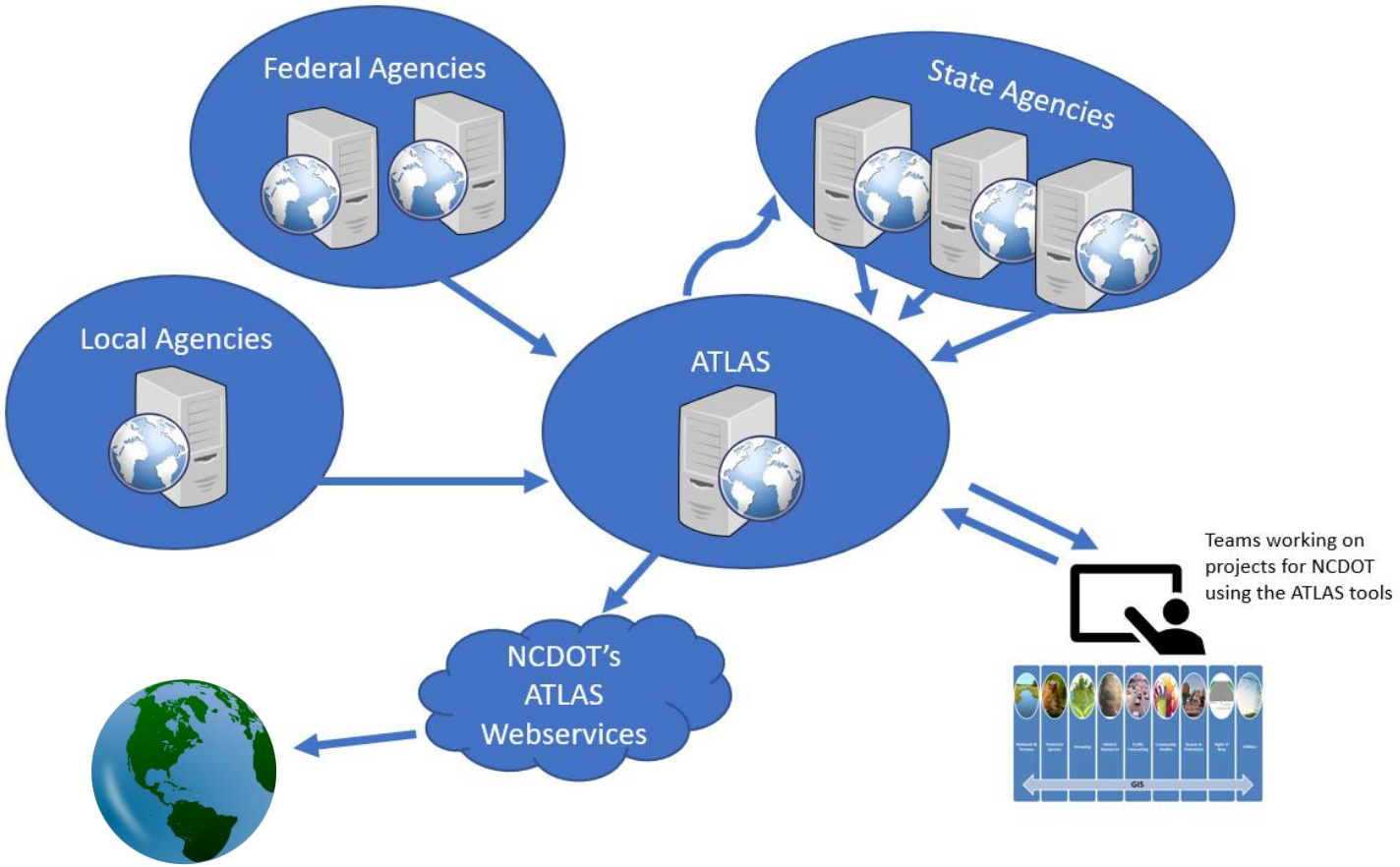
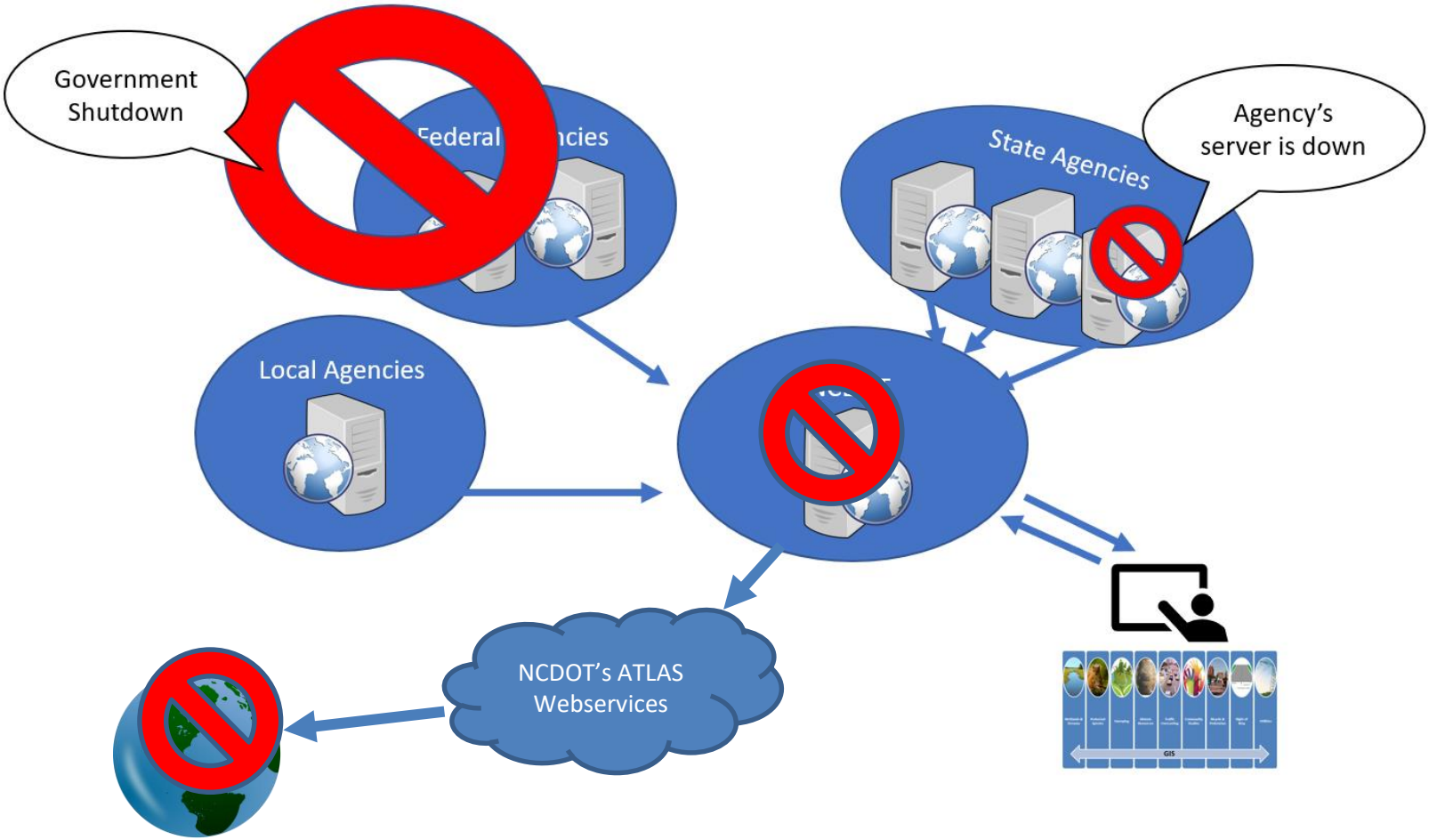

ATLAS Application Management Portal
Manage » Search Tool » Manage Search Results
Layer Name
Linked Documents
Linked Categories
2012 Integrated Reporting Water Quality Assessments
NRTR , FeasibilityDesign
Natural Environment
2015RareRoadsidePopulations_pt_nodupl.shp
None selected
None
2016 Traffic Segments Primary
Traffic Forecast , Traffic...
Congestion Management
2016 Traffic Segments Secondary
Traffic Forecast , Traffic...
Congestion Management
303d and 305b Streams (ESM Layer)
5 selected
Miscellaneous
911 Response with Transport Capability
CCR
Human Environment
911 Response without Transport Capability
CCR
Human Environment
Air Medical/Specialty Care Transport
CCR
Human Environment
Cancel
Apply Changes


ATLAS Application Management Portal
Home » Decision Tree Administration
Select a part of the decision tree to configure:
Categories
Groups
Controls
Configure Controls for Natural Resources
Add Control
Order
Title
Control Type
1
Was Jurisdictional Area Delineation completed?
Yes No
Edit
Delete
Up
Down
2
Were T&E surveys completed?
Yes No
Edit
Delete
Up
Down
3
What effect will the project have on Threatened and Endangered Species or their critical habitat?
Dropdown
Edit
Delete
Up
Down
4
Select species that are potentially impacted:
Multiple Select
Edit
Delete
Up
Down
5
Are there any species for which biological conclusions are unresolved?
Yes No
Edit
Delete
Up
Down
6
If so, which and why?
Text
Edit
Delete
Up
Down
7
Has the USFWS requested a Biological Assessment during Section 7 consultation?
Yes No
Edit
Delete
Up
Down

# ATLAS in the GIS Landscape



# Importance of continued data access



# Important Notes on ATLAS

- We are not eliminating field work
  - Field work is still a major component of all projects. For the first time we will be capturing this data for all projects undergoing environmental evaluation.
- We are not eliminating jobs
  - We are helping project teams do their jobs more effectively and efficiently.
- We are pushing more work earlier in the process to help scheduling, budgeting and scoping
- We are helping to deliver better projects within our program delivery goals by:
  - Improving GIS data and management
  - Improving processes

# Questions?

ATLAS@ncdot.gov

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- Eric Wilson, KCI, eric.Wilson@kci.com
- Wendee Smith, North State, w.smith@nsenv.com
- Morgan Weatherford, NCDOT EAU mdweatherford@ncdot.gov
- LeiLani Paugh, NCDOT EAU lpaugh@ncdot.gov