NORTH CAROLINA
Department of Transportation

Project: Maintenance Website
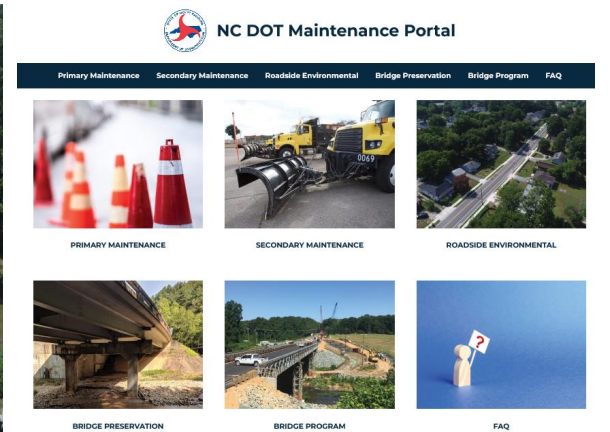
Britt McCurry, PE – Summit Design and Engineering Program Manager

March 28-29

April 6-7

Connecting people, products and places safely and efficiently

Outline

- Background

- Phase I – Identify Maintenance Items
  - Maintenance
  - Bridge
  - Roadside

- Phase II – Internal Website
  - Consolidating Resources
  - Layout/Buildout

- Phase III External Facing

- Phase IV – Implementation

Project: Maintenance Website

Background: Maintenance resources and training materials are scattered across multiple Inside and Connect Sites and historical word of mouth processes.

Goal: Provide centralized location to support Maintenance staff by creating an Internal and External facing website for Maintenance related resources, training, support and references.

Problem Solving Strategy

Phased problem solving
1. Identified existing Inside Sites
2. Identify Maintenance, Bridge and Roadside specific daily functions and needs
3. Where does this information currently live?
4. What information needs an update?

Cross discipline work groups
- Partners: Field Staff, DIT, Central Units (OPM), Chief's Office
- Focus Areas: Force Account, Daily Operations, New Initiatives

Strong leadership involvement

Phase I: Identify Maintenance Items

Maintenance Processes and Daily Functions

Based on experience and a small statewide workgroup we identified specific items to focus on: (This is not the full list)

- **Budget**
  - Allocations
  - Expenditures
- **Work Functions**
  - Definitions
  - How to accomplish
  - FR1101
  - Rental Equipment
- **Tasks**
  - Creation
    - Route level
    - Pipe (MP# asset number)
  - Restrictions
  - Definitions
  - Why do we Task?
  - Which functions do we task?
  - Function Code List – Tasking to system

- **SAP training**
  - Time Entry
    Expenditures tracking by function and WBS elements
  - Travel approval (meal money)
  - PO/Requisitions
  - Internal Orders
- **Mileage in each county**
  - Route responsibilities
- **CARS**
  - Time limits
  - Expectations
  - How to use the interface
- **HMIP**
  - Expectations
  - Deadlines
  - Goals

Bridge Maintenance Processes and Daily Functions

Based on experience and a small statewide workgroup we identified specific items to focus on: (This is not the full list) In addition to previous slide:

- **Budget**
    - **Bridge**
        - BPR
        - GMR
- **Tasks**
    - **Bridge**
        - Bridge Inventory
        - Bridge Inspection PEF traffic control coordination restrictions
- **Number of Bridges in County**

- **WIGINS**
    - Time Limits
    - Expectations
    - How to use the interface
- **Bridge Preservation**
- **Worksite Audits**
- **Timber Bridge Inventory**

Roadside Environmental Processes and Daily Functions

Based on experience and a small statewide workgroup we identified specific items to focus on: (This is not the full list) In addition to previous slide:

- ◦ **Budget**
  - • Mowing
  - • Litter
- ◦ **Tasks**
  - • **Brush and Tree**
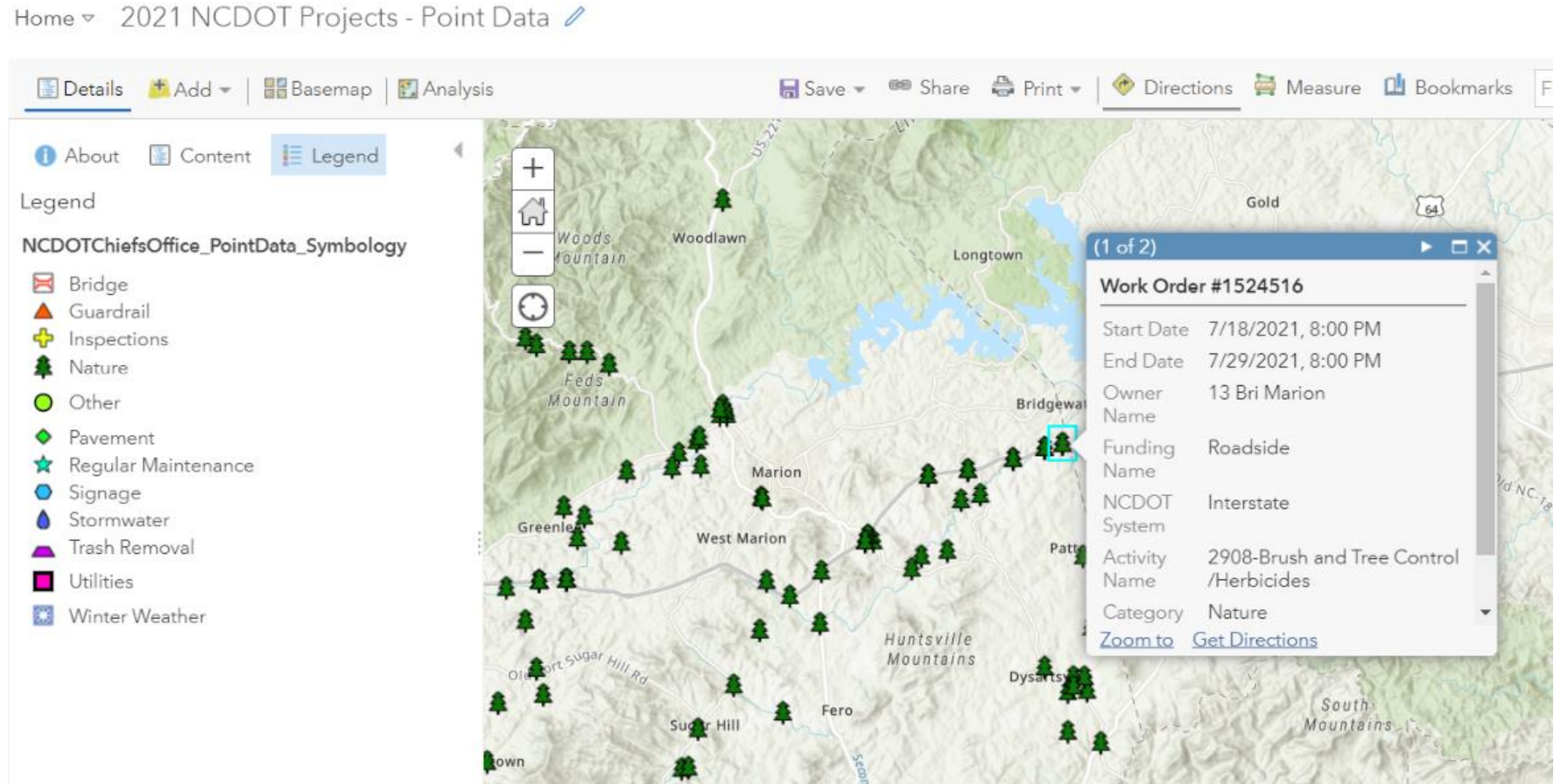
Phase II: Internal Website

Internal Facing

Familiar Layout:
- SharePoint
- Will either house new material or link to existing

Internal Only:
- Specific business processes
- Usability, simple
- Share across units
- Mapping resources

Internal Facing – Existing NCDOT Home Page…

Broad Information:

- Random Search results…

Internal Facing – Maintenance Specific

More Useful Information:

- Maintenance Specific
- Focused information and links
- Less random search results...
- https://ncconnect.sharepoint.com/sites/ChiefEngBullpen

Phase III: External Facing

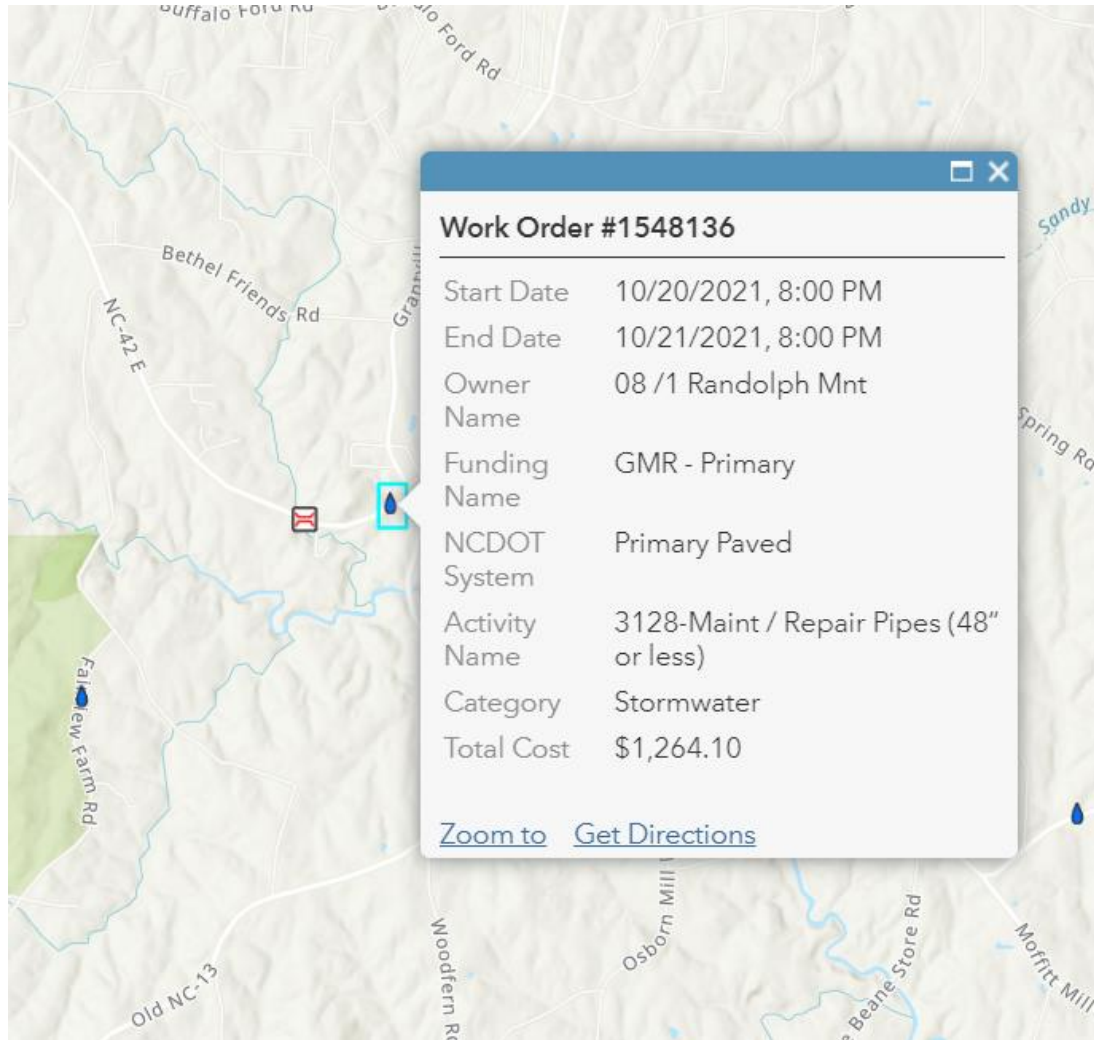# How Does External Facing Benefit Us?

- Creates better public awareness of the day-to-day tasks and success of the maintenance side of NC
  - o Gives the Public the ability to see (mapped) work that has been accomplished

- Gives insightful data and resources for members of the public and elected officials to see where things are happening
  - o Transparency in work functions and tasks

- Will include Dashboards showing certain scores and metrics
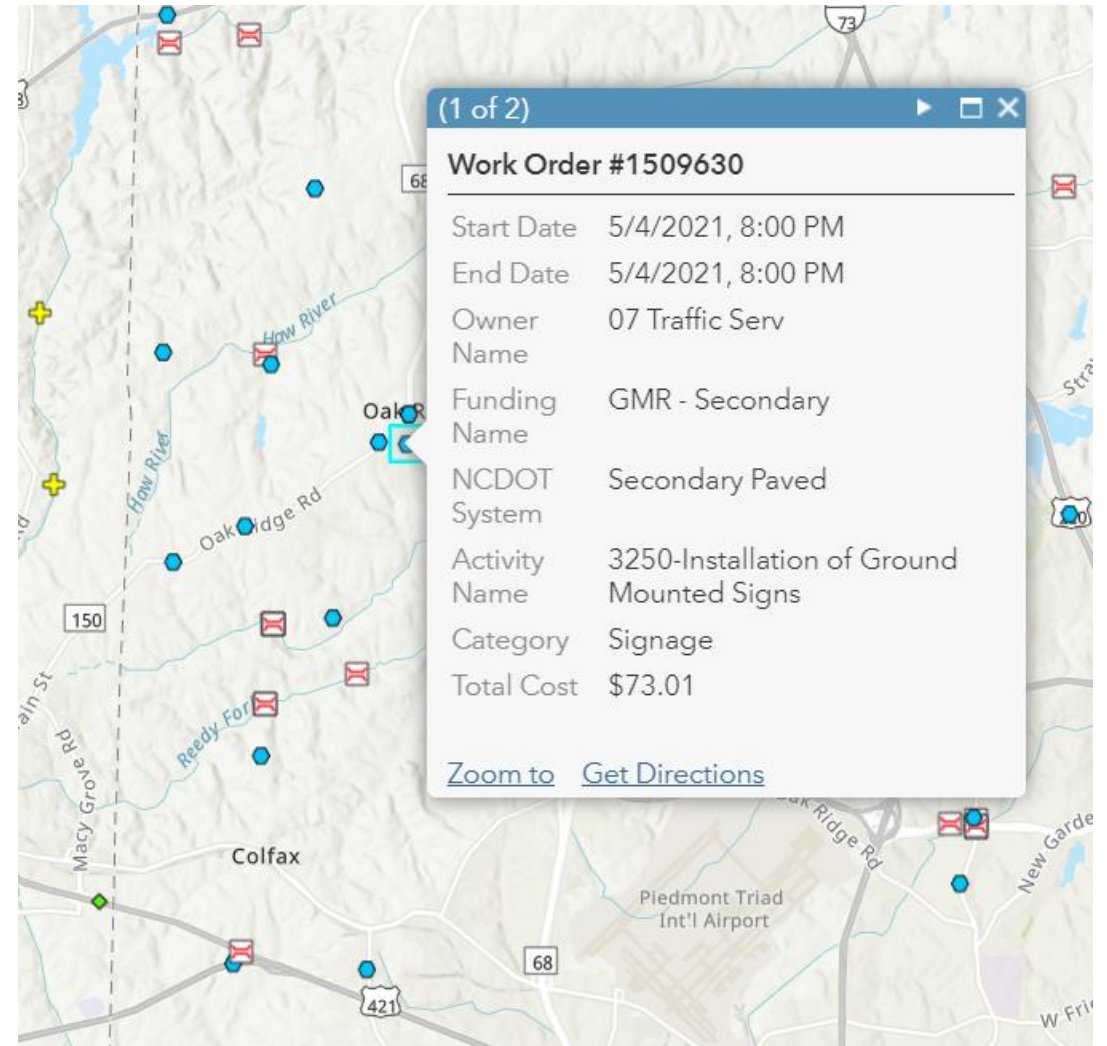
How Does External Facing Benefit Us?
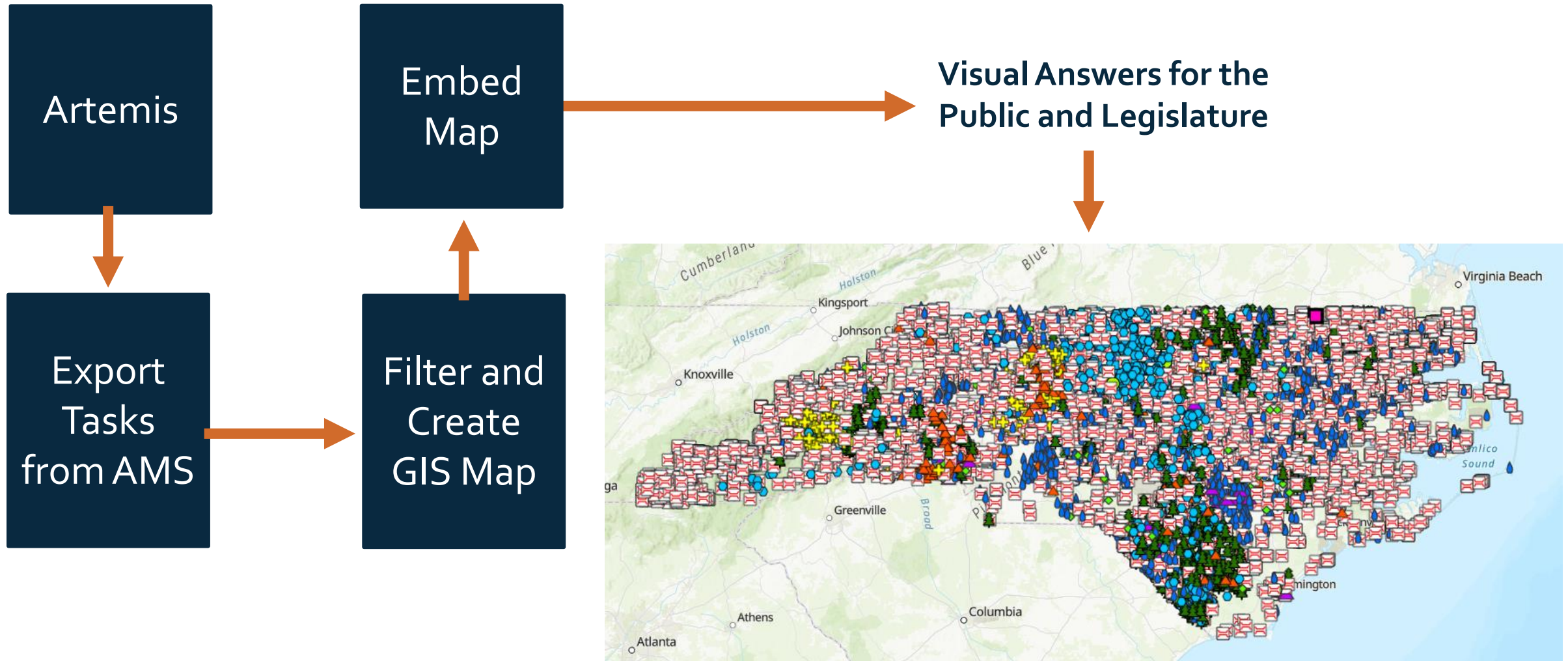
Artemis

↓

Export Tasks from AMS

→

Filter and Create GIS Map

↑

Embed Map

→

Visual Answers for the Public and Legislature

↓

External Facing

Work Order #1548136

Start Date	10/20/2021, 8:00 PM
End Date	10/21/2021, 8:00 PM
Owner Name	08 /1 Randolph Mnt
Funding Name	GMR - Primary
NCDOT System	Primary Paved
Activity Name	3128-Maint / Repair Pipes (48" or less)
Category	Stormwater
Total Cost	$1,264.10

Zoom to   Get Directions

(1 of 2)

Work Order #1509630

Start Date	5/4/2021, 8:00 PM
End Date	5/4/2021, 8:00 PM
Owner Name	07 Traffic Serv
Funding Name	GMR - Secondary
NCDOT System	Secondary Paved
Activity Name	3250-Installation of Ground Mounted Signs
Category	Signage
Total Cost	$73.01

Zoom to   Get Directions

External Facing

External Facing
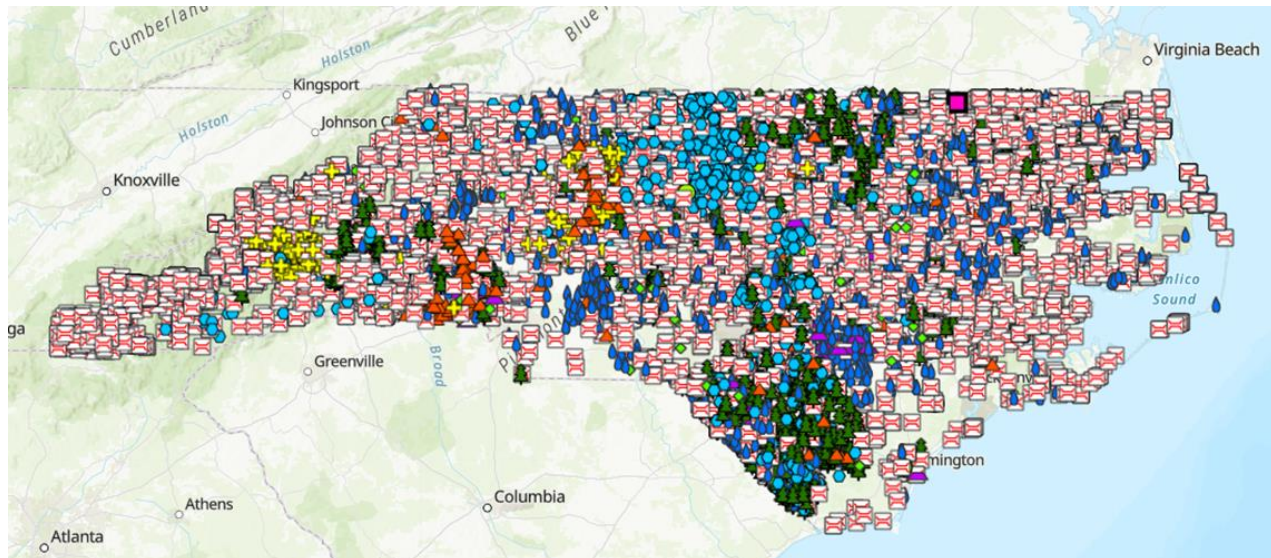
Phase IV: Implementation

Implementation

Internal Site:

- Identification of existing Sites - **March 2022**
- Coordination with IT for build out **– March/April 2022**
- Go Live **– April/May 2022**

External Site:

- Template **– February 2022**
- Mapping Template **– Feb/March 2022**
  - Tasking/Artemis data
- Coordination with IT for build out **– TBD**
- Go Live **– TBD**

Questions?

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