

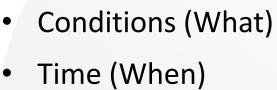


Presentation Overview

- Background
- Example Applications
- Questions



Problem Solving



Location (Where)



Web GIS



- View
- Manage
- Query
- Share
- Collaborate
- Accessibility
- Dissemination
- Flexibility





What's changed?

- Increased data availability
- Increased data accessibility

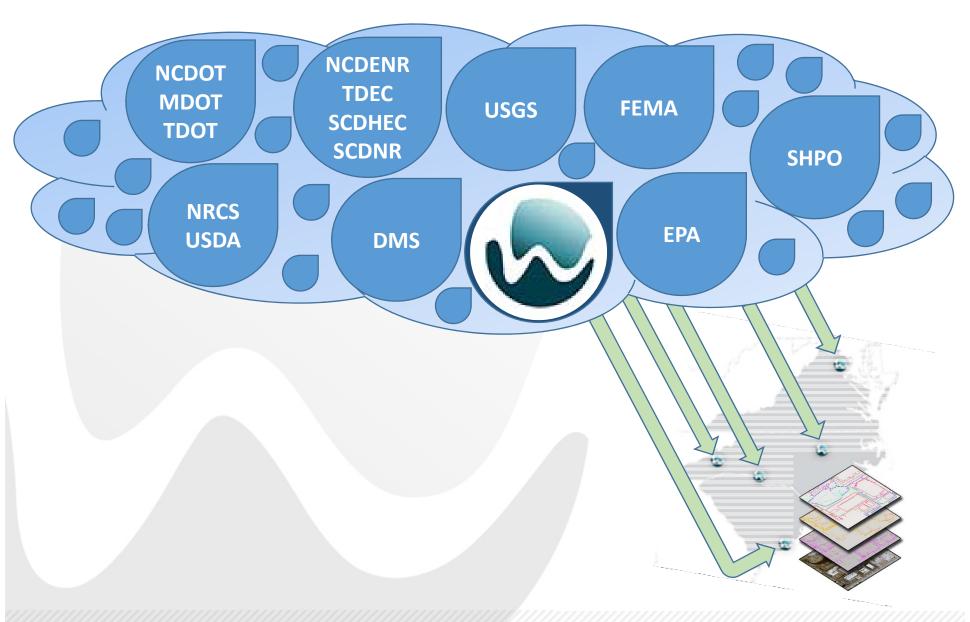


Proliferation of Web GIS

The amount of data is growing exponentially, doubling every two years. However, more data by itself does not necessarily mean more value. For data to be valuable, it needs to be curated and made easily accessible.

Web Mapping Services







Example Applications

- Watershed Planning
- Field Design Verification
- Stakeholder Coordination
- Construction Management
- Public Relations
- Research & Development



Ideal Project Types

- Medium to large scale projects (with longer data lifecycles)
- DMS (Mitigation) projects
- Projects with multiple stakeholders
- High profile projects
 - Public relations component → Public-facing app



How It Works

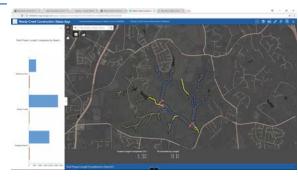






Collector App or Custom Web App

AGOL Web Map





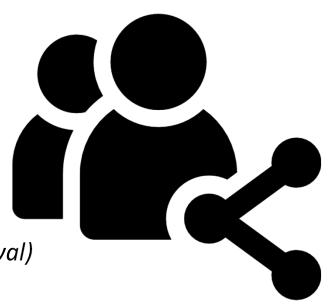


Web Application



Sharing and Dissemination

- Internal (Wildlands Staff)
- Clients
- Contractors
 - Punchlists
 - Tracking/Mapping Tasks (Invasive Removal)
- Public (for Public Relations)

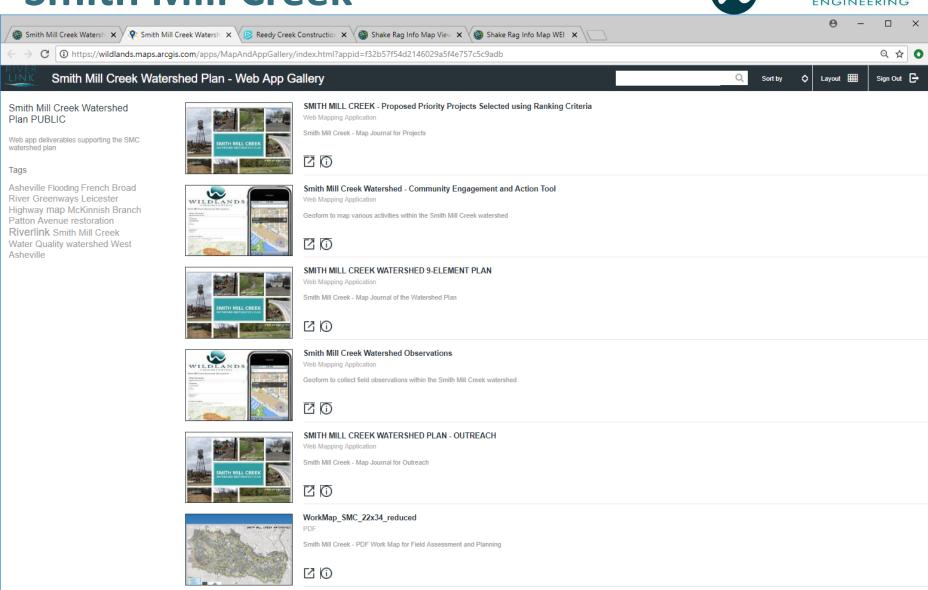




Watershed Planning

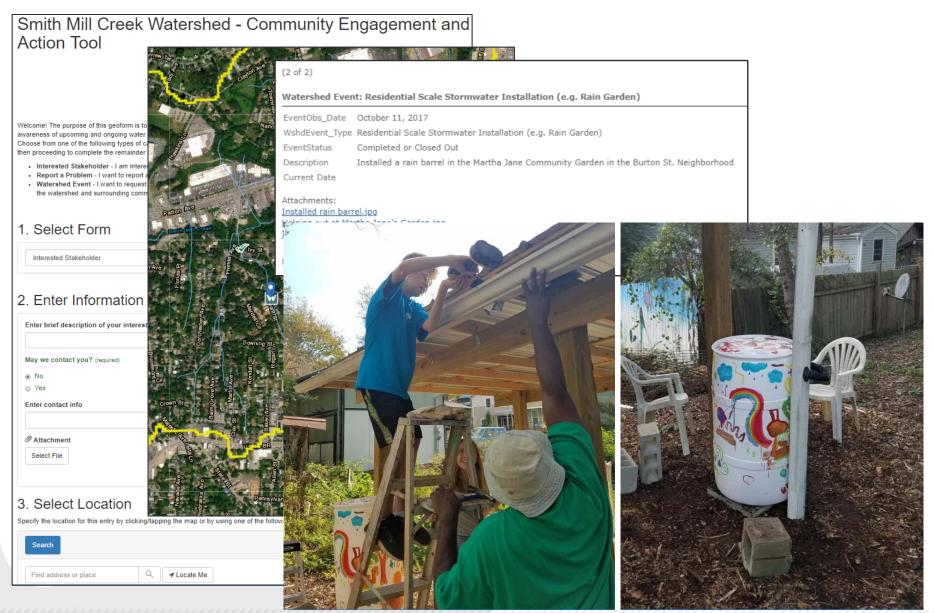
Smith Mill Creek





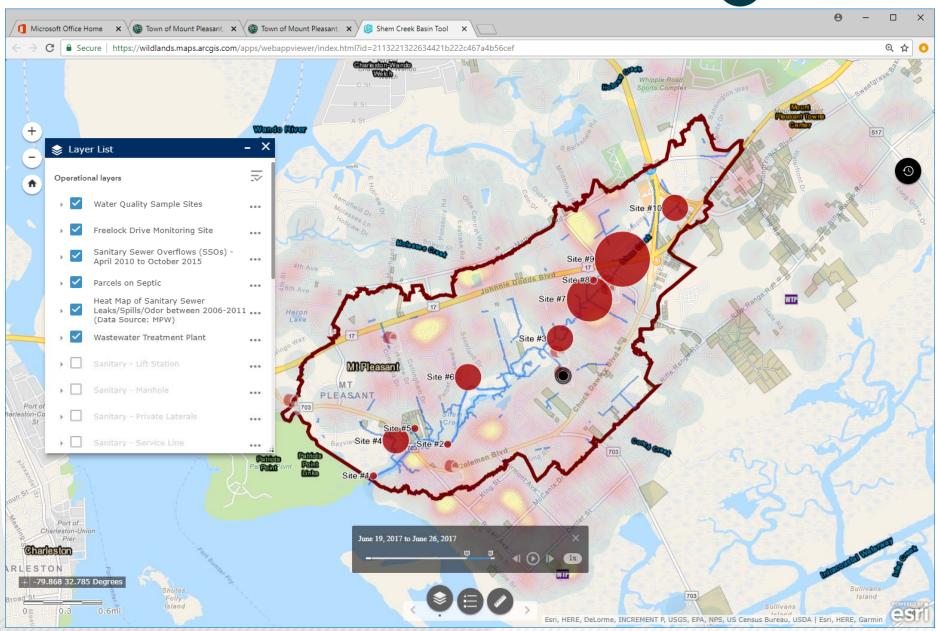
Smith Mill Creek





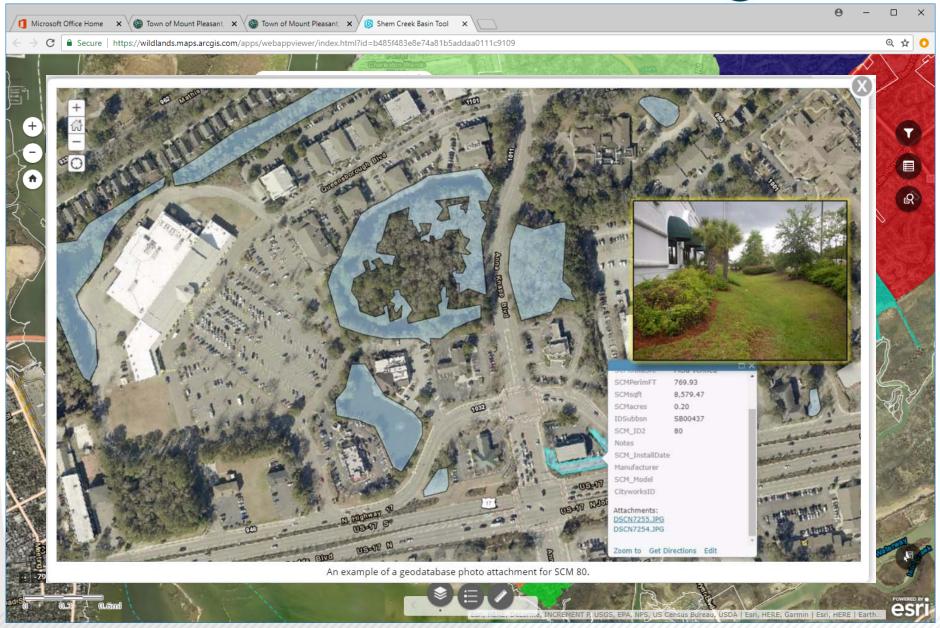
Shem Creek





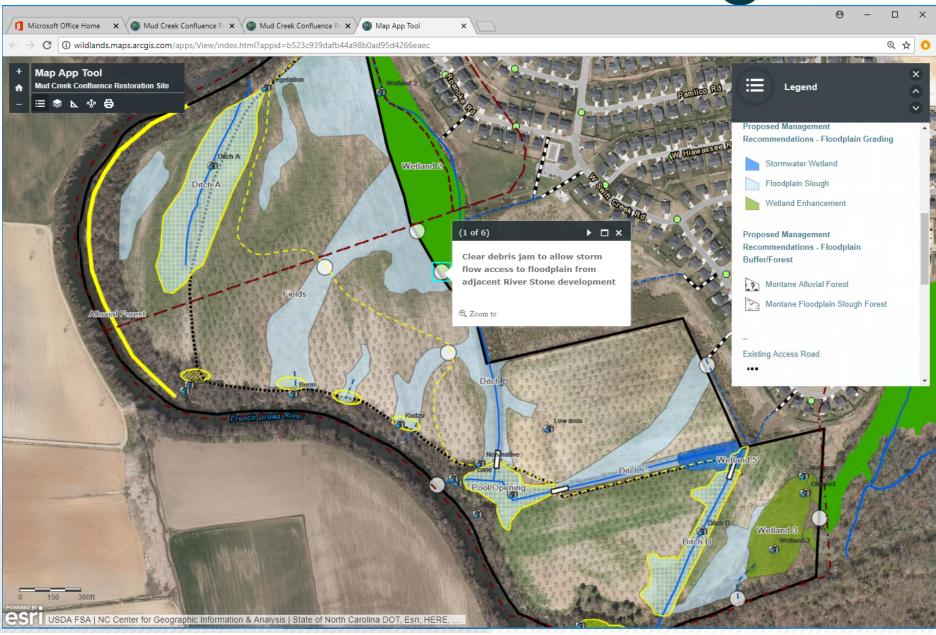
Shem Creek





Mud Creek







Field Design Verification

Field Design Verification





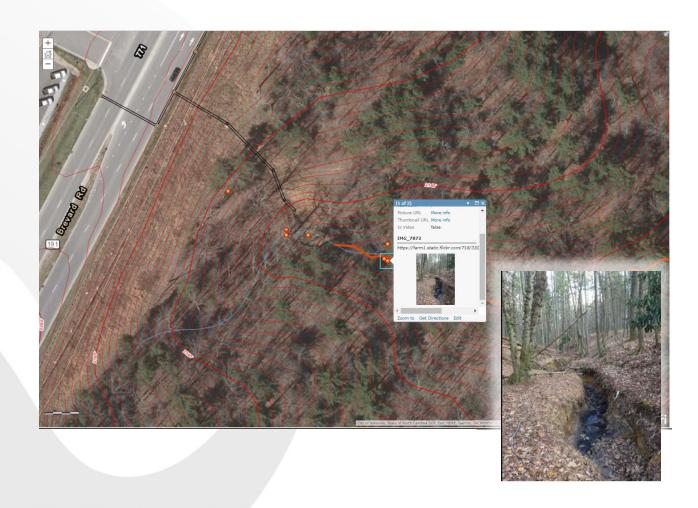
Photo Sharing During Design Process









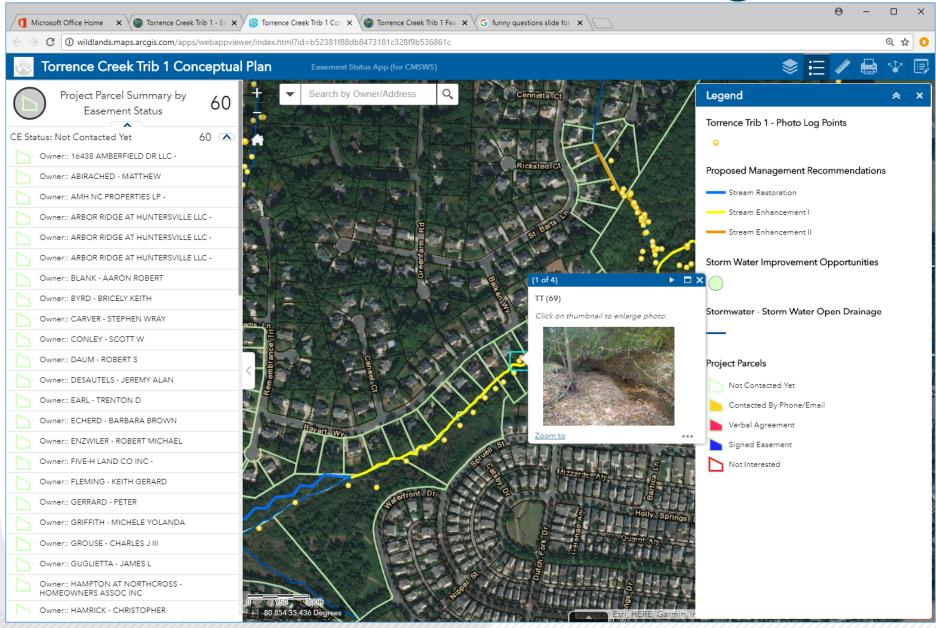




Stakeholder Coordination

Torrence Creek Trib 1







Construction Management



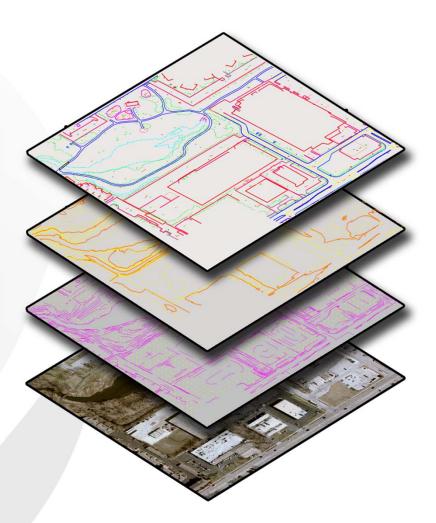
Configuration & Setup

- CAD objects formatted to GDB
- Domains (pulldown/picklist menus)
- Scalable across mobile and desktop devices
- Flexibility



Layer Categories

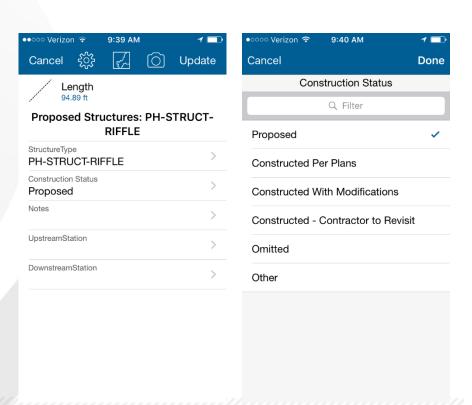
- Basemapping Layers
- Plan Set Layers
- Inspection Layers





Active Feature Layers – Plan Set

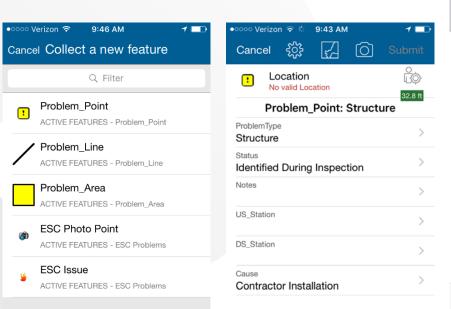
- Proposed Structures
- Proposed Invasive Treatment Areas
- Proposed Wetlands
- Proposed Planting Areas

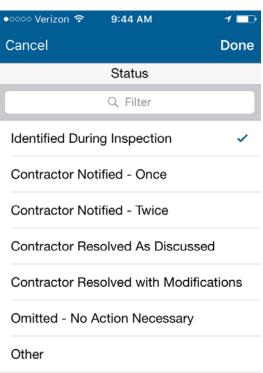




Active Feature Layers – Inspection

- Problem Areas
- ESC Issues







Potential Uses

- Project Status
- Percent Complete
- Invoicing
 - Print/export PDF map
 - Quantities
- Baseline for QA/QC of as-built plans
- Construction admin support

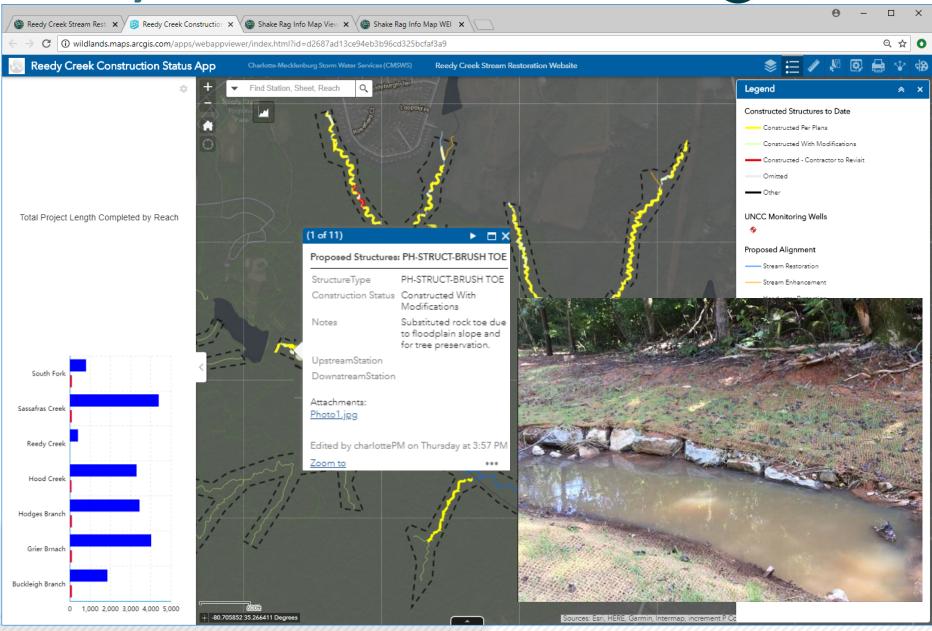


Other Features

- Attach photos or videos
- Records date, time and username
- Search by station, stream name, plan sheet

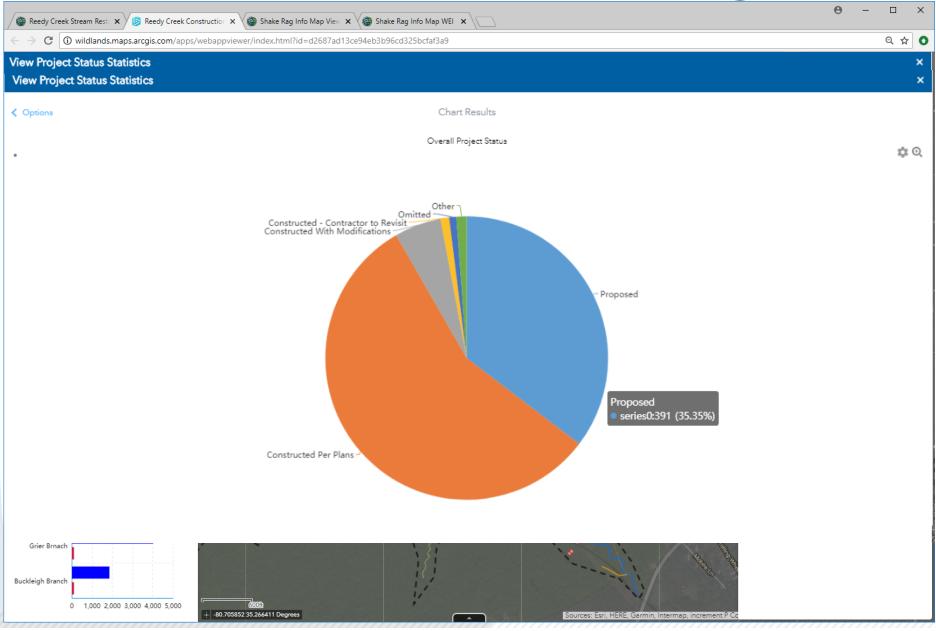
Reedy Creek





Reedy Creek



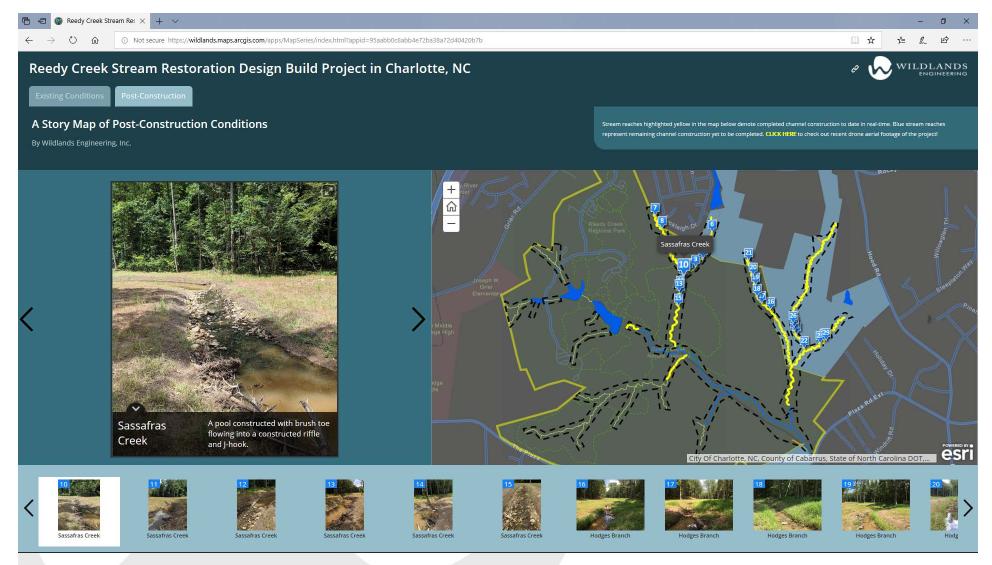




Public Relations

Reedy Creek



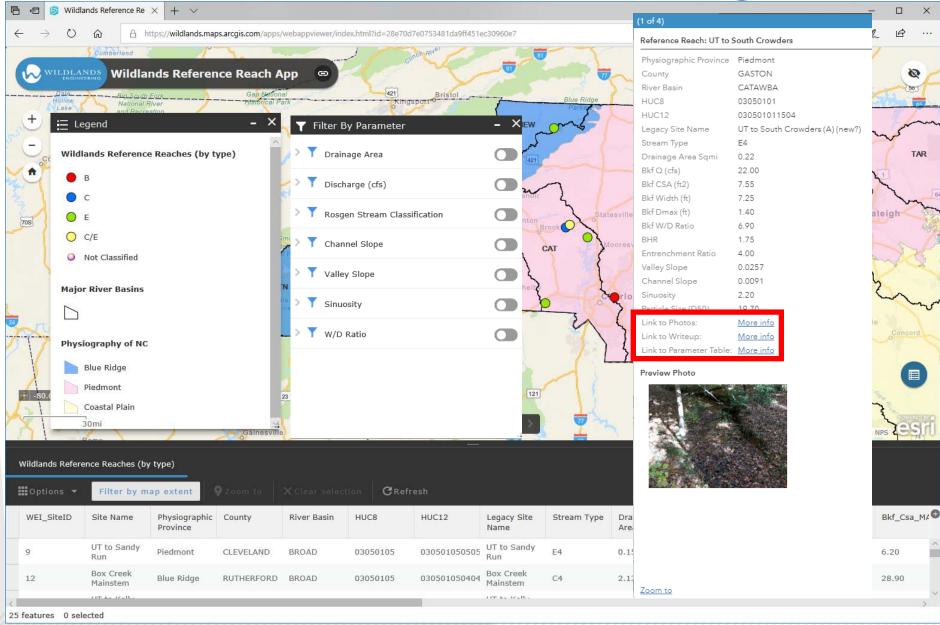




Research & Development

Reference Reach Database







Applications in the Works...

- Land Management & Maintenance
- Monitoring



Questions

What's for lunch?

Should I ask a question?

Is it lunchtime yet?

Should I have attended the other session?

What time is check out?

Should I leave the conference before or after lunch?

What time do the breweries open?

Should I buy this guy a beer?



Cost

- Storage
 - Feature services → 2.4 credits / 10MB / month
 - Tile and other data → 1.2 credits / 1GB / month
- Analytics
 - <= 1 credit per 1000 features</p>