

North Carolina Flood Resiliency Blueprint

Technical Advisory Group (TAG) Kickoff Meeting
Morning Session
March 15, 2023



Meeting Agenda (Morning Session)



- Opening Remarks
- DEQ Project Overview
- Phase 1 Overview
 - Task 1: Outreach and Engagement
 - Task 2: Gap Analysis
 - Task 3: Recommendations/Decision Framework
 - Task 4: Draft Blueprint and Draft Neuse Basin Action Strategy
- Flood Resiliency Blueprint Digital
- Technical Advisory Group Overview and Expectations
- Logistics for Today
- Open Questions



DEQ Project Overview

Elizabeth Christenson-Diver

Project Lead & Senior Policy Advisor, DEQ



DEQ Core Blueprint Team



Elizabeth Christenson, PhD
Project Lead & Senior Policy Advisor
Department of Environmental Quality



Marc Recktenwald
Director
Division of Mitigation Services



Michelle Ferree
Project Manager
Division of Mitigation Services



NC General Assembly: Session 2021



SESSION LAW 2021-180 SENATE BILL 105

SECTION 5.9.(c) Flood Resiliency Blueprint. – Of the funds allocated in subdivision (a)(1) of this section, the Department of Environmental Quality, Division of Mitigation Services (DMS), shall contract with an organization to develop a statewide Flood Resiliency Blueprint for major watersheds impacted by flooding, including, among others, the Cape Fear River and the Neuse River Basins. The watershed blueprint shall form the backbone of a State flood planning process that increases community resiliency to flooding, shall be a resource for riverine and stream management to reduce flooding, and should support the establishment and furtherance of local government stormwater maintenance programs. The blueprint shall identify the major watersheds affected by flooding and direct these funds toward the activities which are central to the creation of an actionable blueprint, namely flood risk assessment, identification of data gaps, and recommendations to reduce flood risk for each target watershed. When developing the blueprint with the organization selected, DMS shall ensure the blueprint incorporates local knowledge, community goals, projections of future flood risk, and the best available science and hydrologic modeling to create a decision tool for flood mitigation investments and strategies from local watersheds up to whole river basins. A successful blueprint should ultimately lead to a prioritized set of projects and funding strategies that the State can implement. DMS and the organization selected are encouraged to examine examples from other states such as the Louisiana Coastal Master Plan or the flood resiliency planning processes in South Carolina and Virginia. The organization shall send all necessary information to DMS on the implementation of the blueprint upon request by DMS. The organization shall submit an initial draft of the blueprint to DMS no later than December 31, 2023. DMS shall report by July 1, 2022, and annually thereafter to the Joint Legislative Commission on Governmental Operations and the Fiscal Research Division on the implementation of this subsection.

Goal

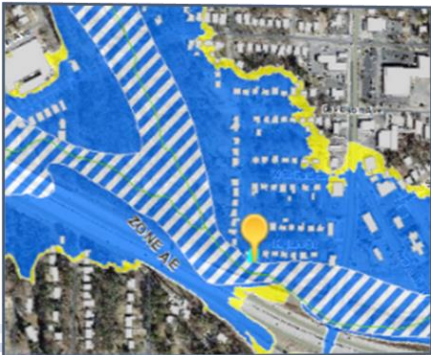


The Flood Resiliency Blueprint is designed to be a standardized flood resiliency approach and actionable, online decision-support tool for each major river basin in North Carolina. The Blueprint will allow state agencies, lawmakers, and regional and local government planners to prioritize and direct resources to implement effective flood resilience strategies.

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Visualize Flood Risk



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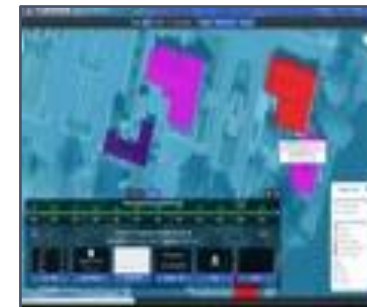
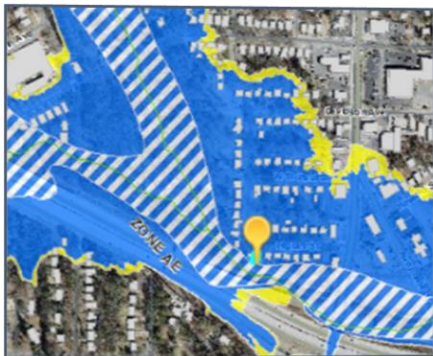
Visualize Flood Risk Select Mitigation Alternatives



Goal

The Flood Resiliency Blueprint is designed to be an actionable, online decision-support tool for each major river basin in North Carolina. The Blueprint will allow state agencies, lawmakers, and regional and local government planners to prioritize and direct resources to implement effective flood resilience strategies.

Visualize Flood Risk Select Mitigation Alternatives Understand Impacts & Vulnerability

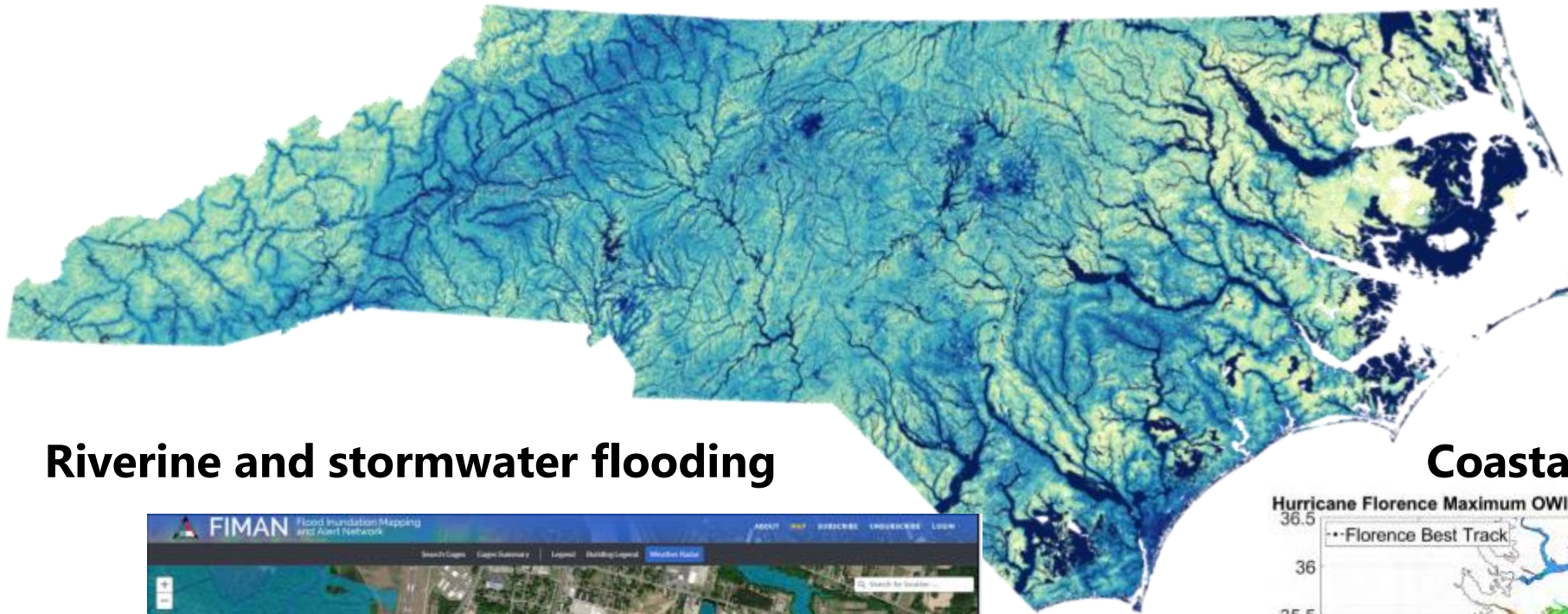


Definitions

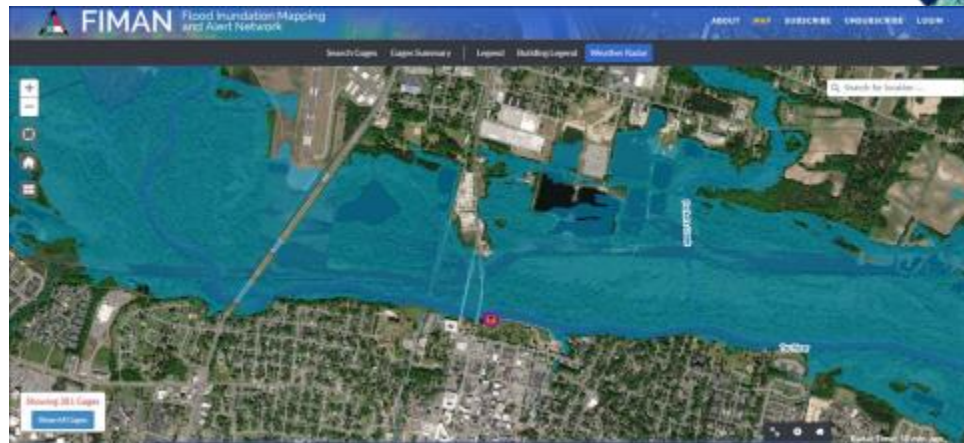


- **HAZARD** – an event or physical condition that can cause fatalities, injuries, property damage, infrastructure damage, agricultural loss, damage to the environment, interruption of business, or other types of harm or loss.
- **IMPACT** – measurable damage resulting from a hazardous event on social, environmental, structural, commercial and infrastructure assets.
- **RESILIENCE** – capacity of individuals, a community, business, or natural environment to prevent, withstand, respond to, and recover from a disruption.
- **RISK** – the likelihood a threat will harm an asset with some severity or consequence.
- **VULNERABILITY** – measure of something's (human, infrastructure, economic activity) ability to prepare for, manage, survive, and recover from a flood event.

Current & Future Flood Hazards

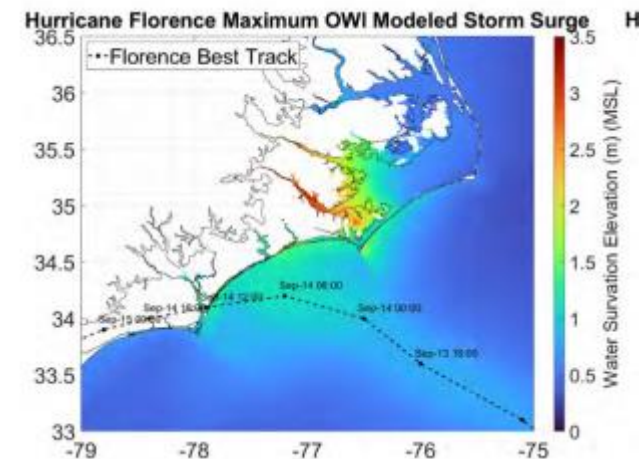


Riverine and stormwater flooding



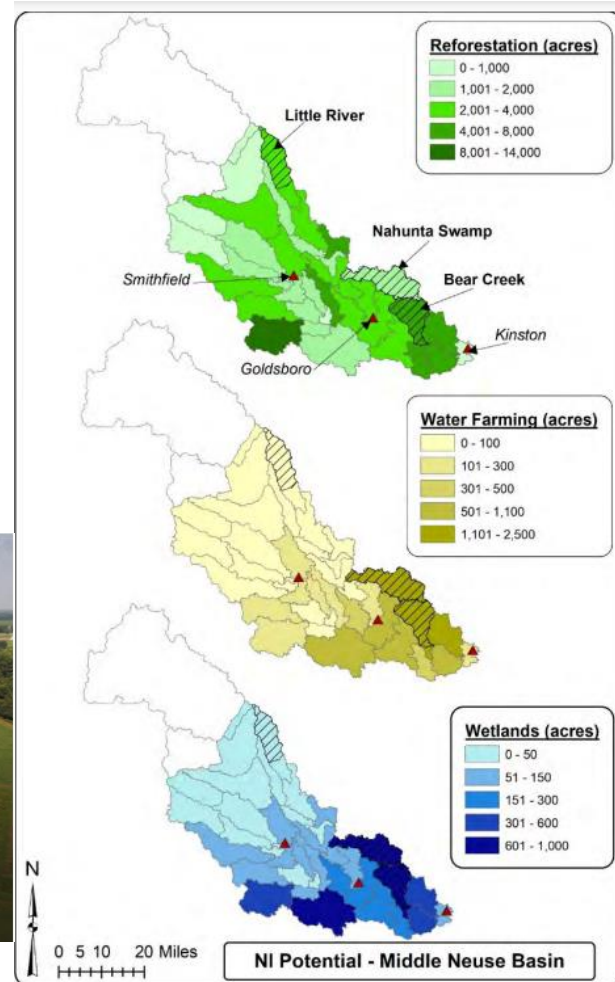
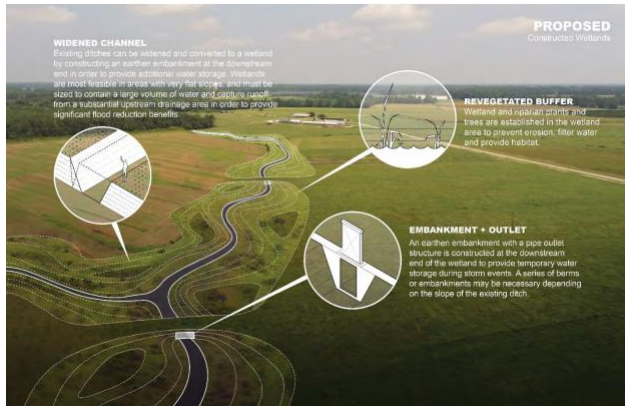
Source: Flood Inundation Mapping and Alert Network (FIMAN)

Coastal storm surge and tidal

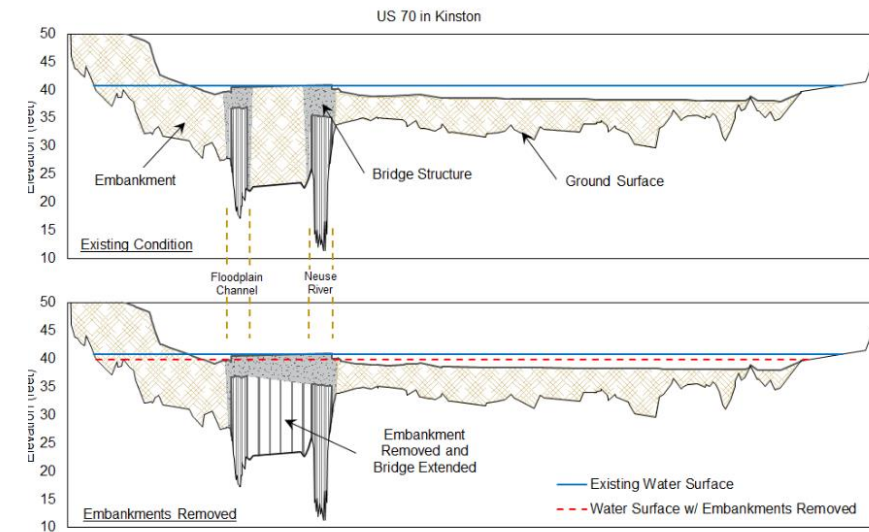


Source: Natural Systems: [Compound Flooding](#), NC Policy Collaboratory, 2021

Mitigation Scenarios



Source: Infrastructure: Enhancing Stormwater Controls, NC Policy Collaboratory, 2021.



Source: Bridge Crossing Modeling Study – Kinston, NC Sea Grant

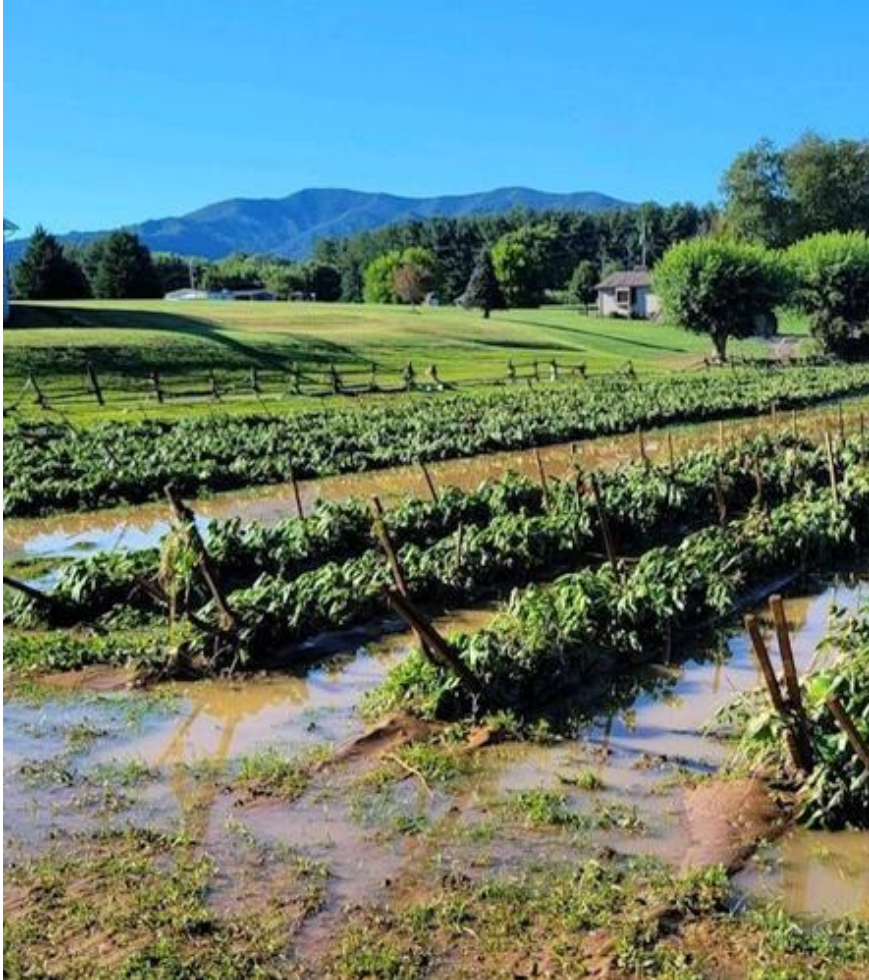
Source: [Improving North Carolina's Resilience to Coastal Riverine Flooding](#), NC Policy Collaboratory, 2021.

Stormwater flooding, Morehead City



Source: [Coastal review.org](http://Coastalreview.org)

Agriculture



Source: French Broad Basin, Pigeon River
[The Mountaineer](#)



Source: Hyde County, [NCSU](#)

Critical Infrastructure



Source: News and Observer, I-40, 9/30/19

Energy



Source: [Duke Energy](#)

Hurricane Florence, Compound Flooding, New Bern



Source: [NBC News](#)

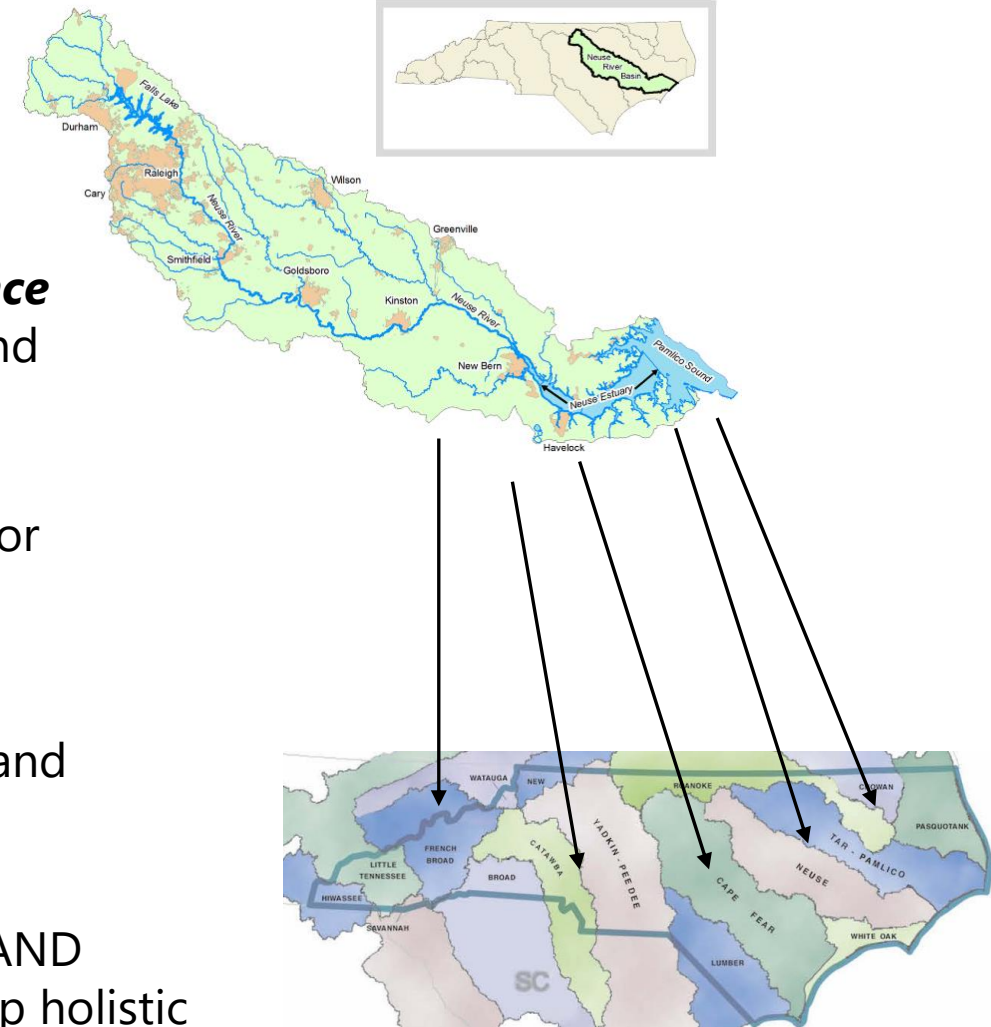
Decisions Now & Strategic Future

Statewide

- Visualize flood vulnerability for different flood risk conditions (dependent on data/models available)
- Choose from a suite of flood mitigation strategies
- Understand cost estimates, funding sources, costs/benefits
- Recommendations for **long-term administration and maintenance** of the Blueprint (such as updating key data and modeling inputs and long term basin planning)
- Recommendations for **governance and decision making** (who evaluates and approves flood mitigation projects or priority areas for additional modeling/data needs)

Basin-specific action strategies

- Taking into account NC basins have different flood exposure, data and modeling needs, capacity and/or values; unique stakeholders and governments for each basin
- Identify best flood mitigation strategies given what we know now AND identify prioritized data and modeling needs in the basin to develop holistic basin strategy



Flood Resiliency Blueprint Tentative Timeline



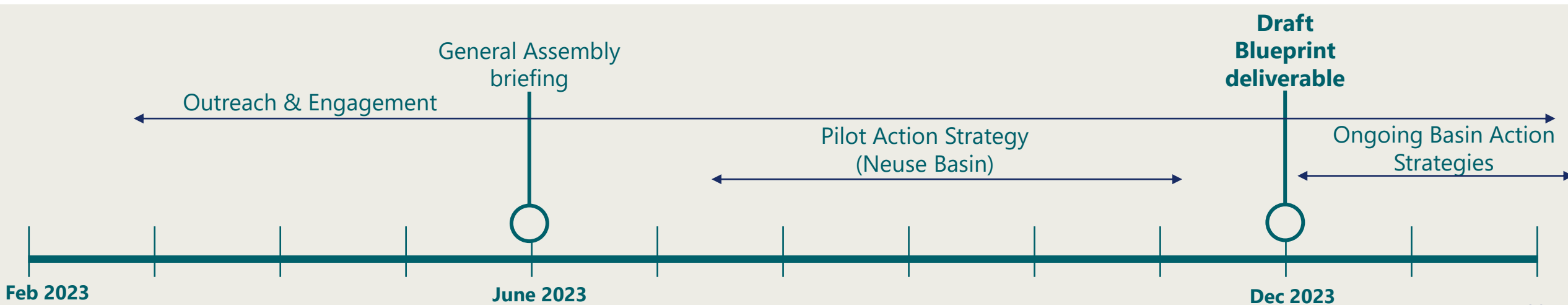
2022 Outputs: Outreach and engagement to develop scope of work; awarded Phase I contract

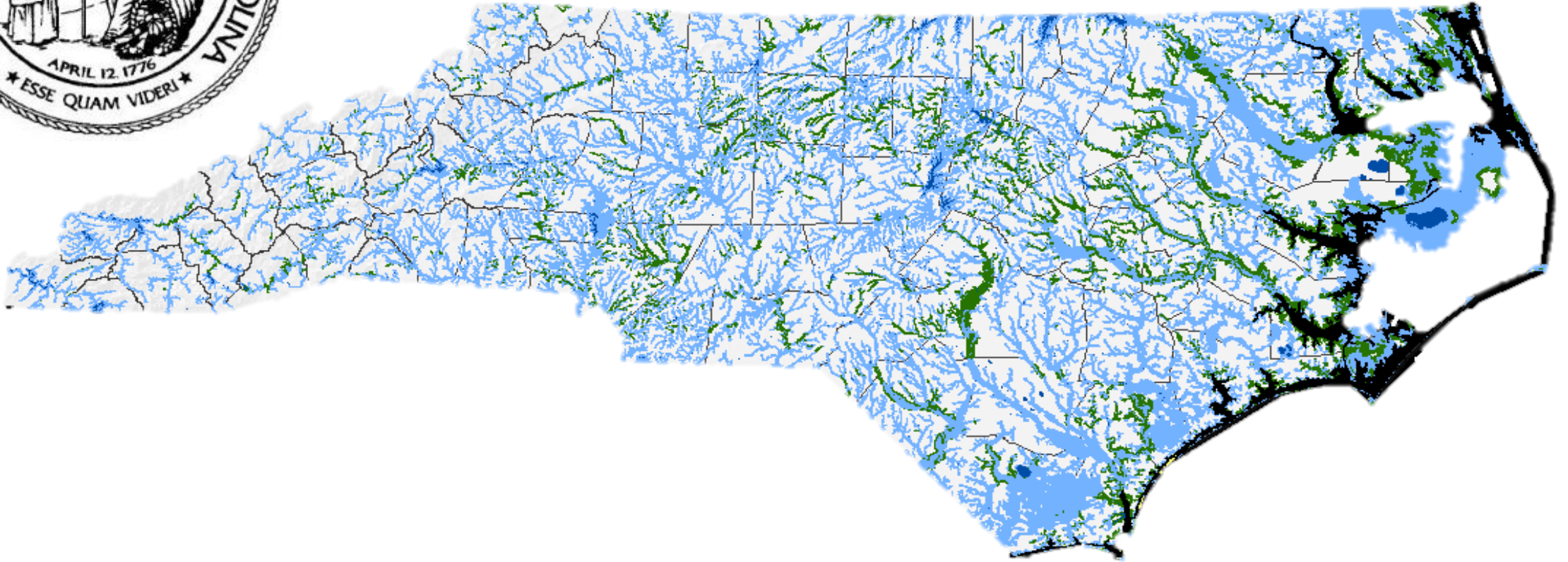
2023 Outputs:

- Requirements for online decision support tool
- Draft NC Flood Resiliency Blueprint
- Draft Neuse Basin Action Strategy and beta-testing tool

2024: Statewide validation and testing of the online tool in NC basins and development of basin-specific action strategies

2025+: Ongoing maintenance, administration, updates, etc.







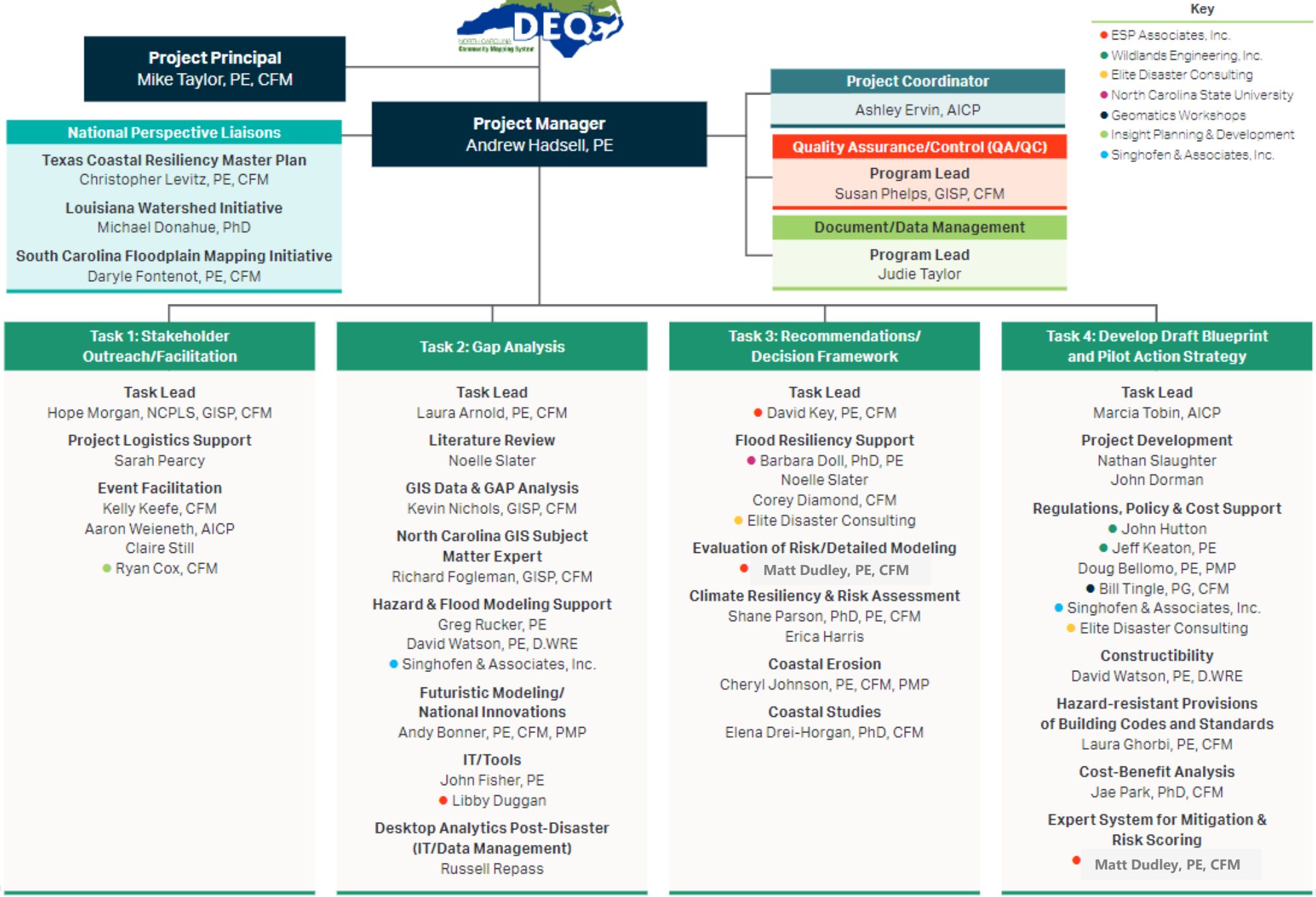
Phase 1 Overview

Andrew Hadsell, Project Manager, AECOM





- Key**
- ESP Associates, Inc.
 - Wildlands Engineering, Inc.
 - Elite Disaster Consulting
 - North Carolina State University
 - Geomatics Workshops
 - Insight Planning & Development
 - Singhofen & Associates, Inc.





Task 1: Outreach and Engagement

Hope Morgan, Task 1 Lead, AECOM



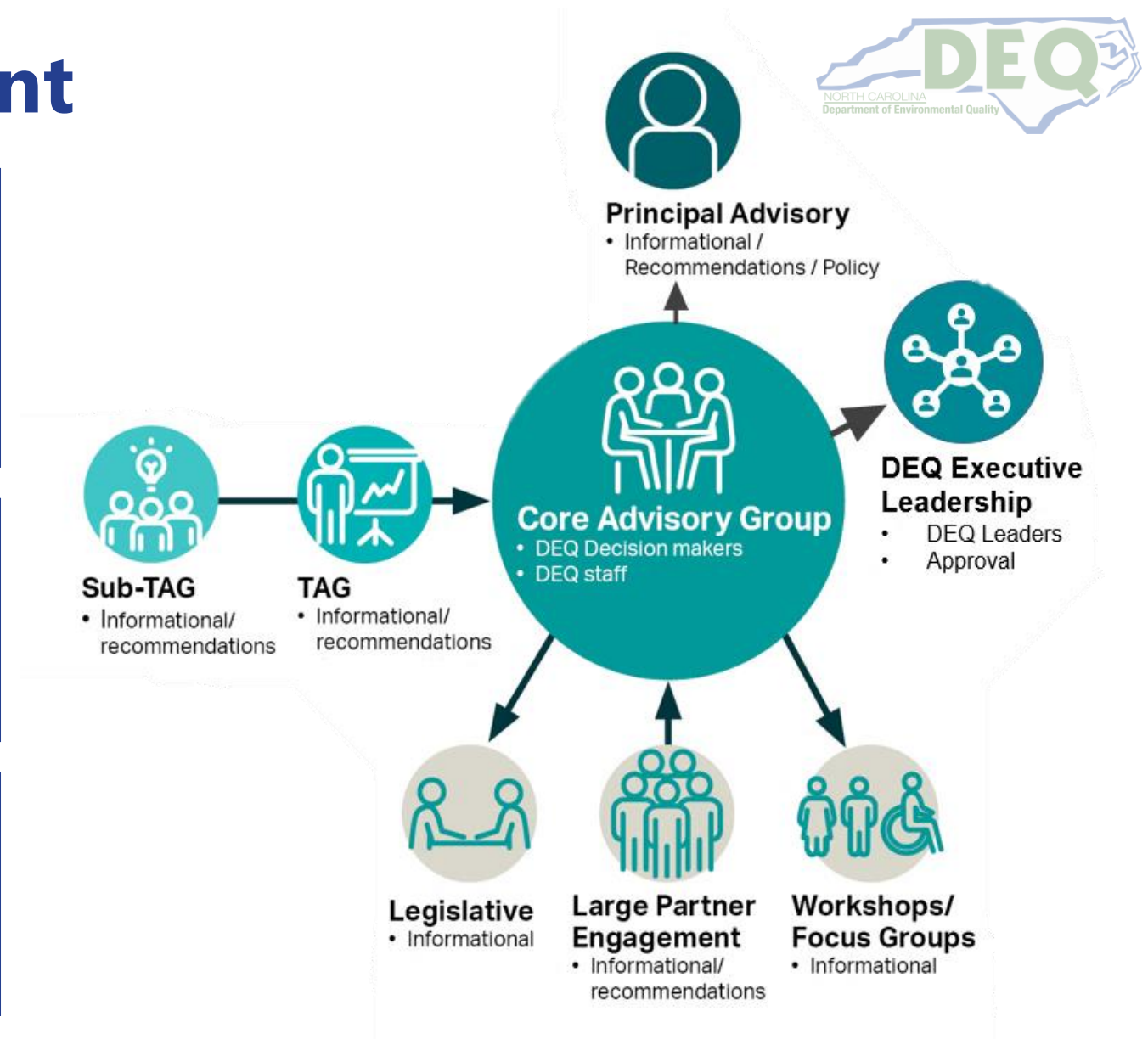
Stakeholder Engagement

Creation of viable teams from extensive stakeholder list :
state, federal, local, and county experts,
Tribal, non-governmental organizations,
academic, and community experts

Stakeholder Engagement Plan (draft)/
Decision Making Process

Technical Advisory Group (TAG) can create
sub-TAGs for more detailed requirements

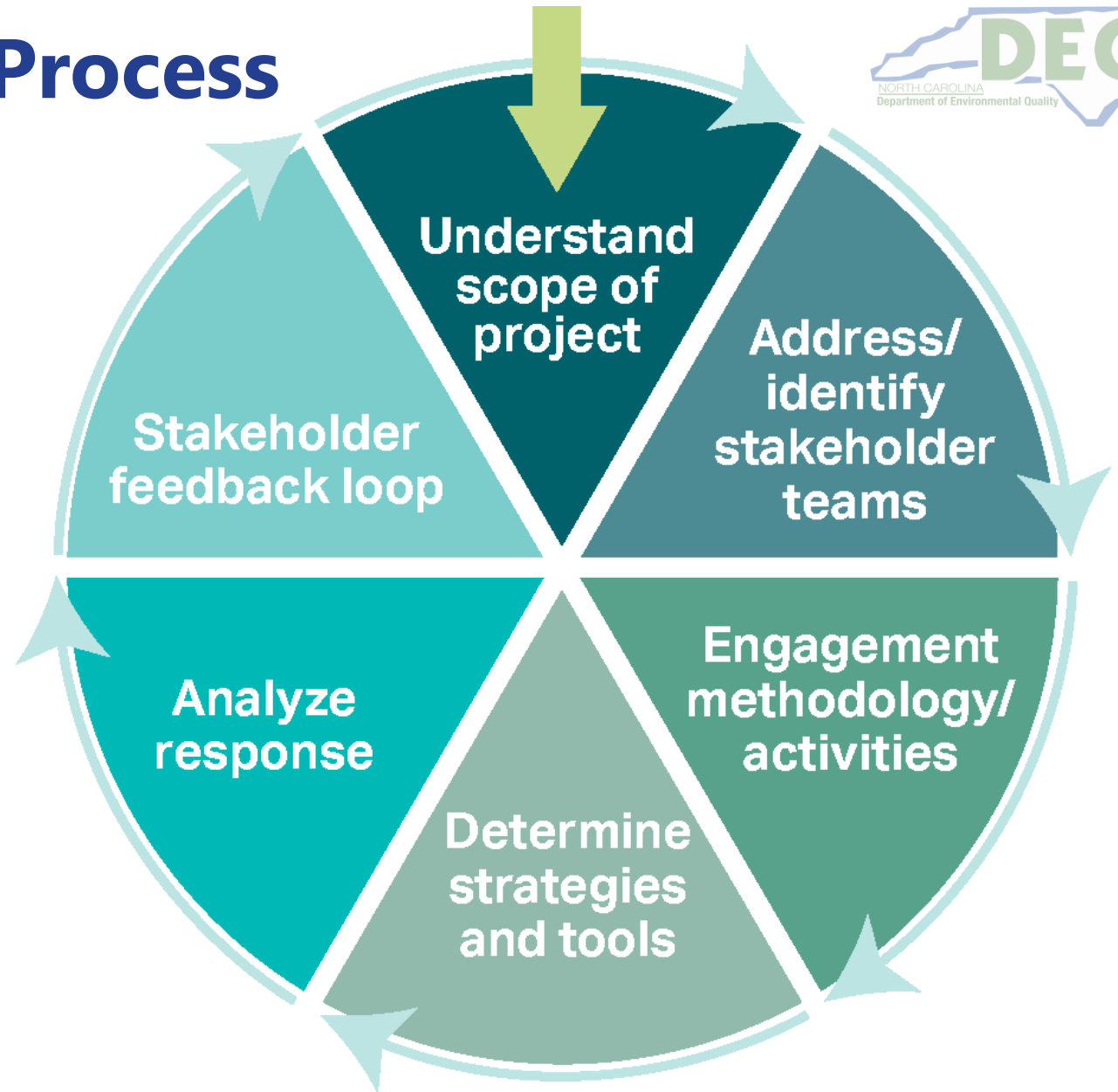
- Coordinated meeting content and review



Blueprint Engagement Process

Understanding the Magnitude

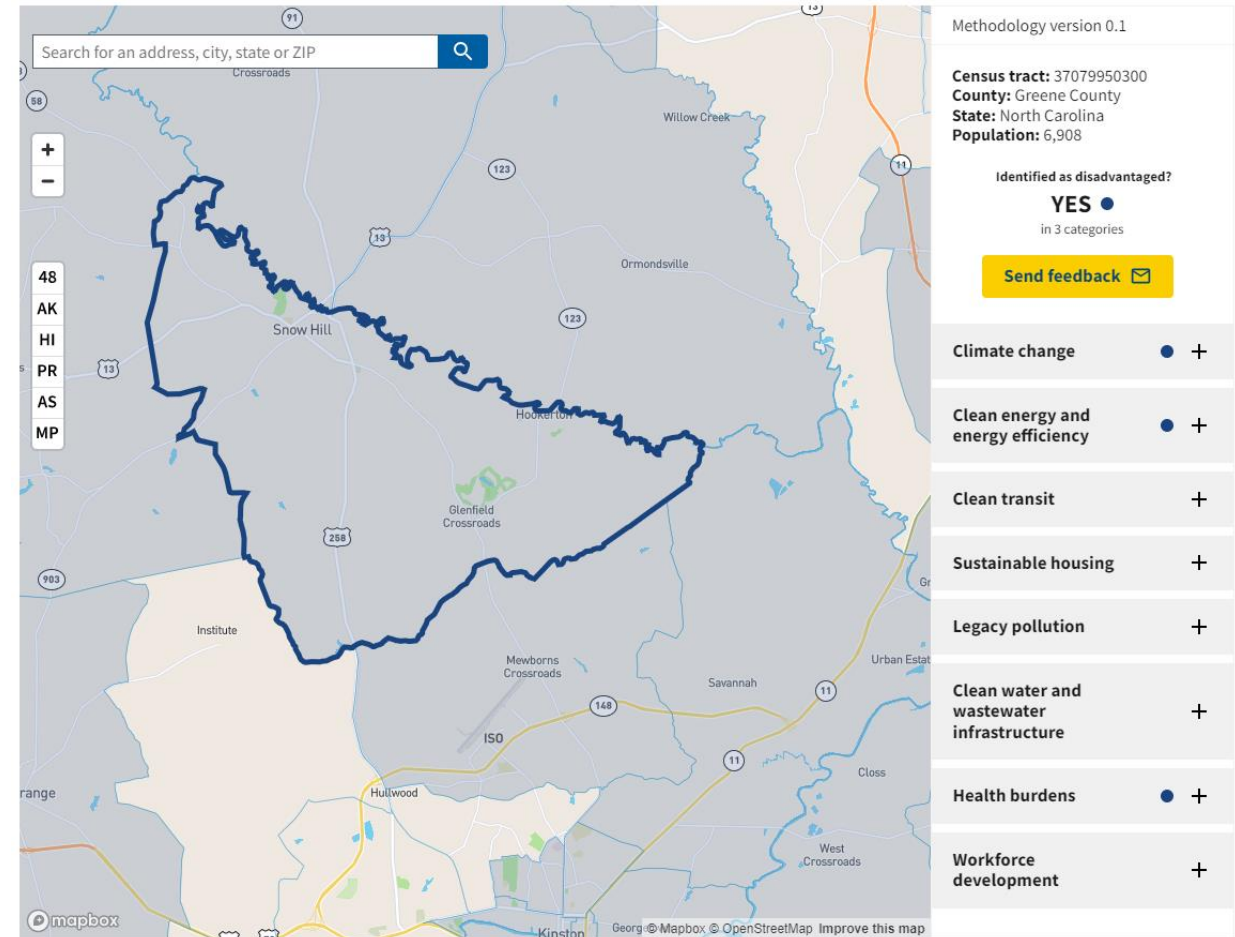
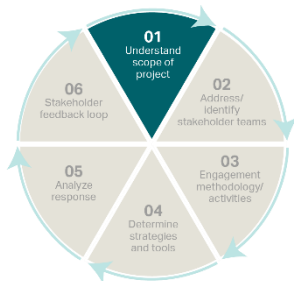
- Scope drives the creation of Technical Advisory Groups (TAGs)
- Identify groups and needs
- Determine methods of engagement
- Strategies and resources
- Determine information integration
- How feedback will be received and provided



Understanding the Scope of the Project

Definition of scope drives group creation

- Literature review
- Stakeholder engagement plan
- Catalogue of watershed planning
- Review governance approaches



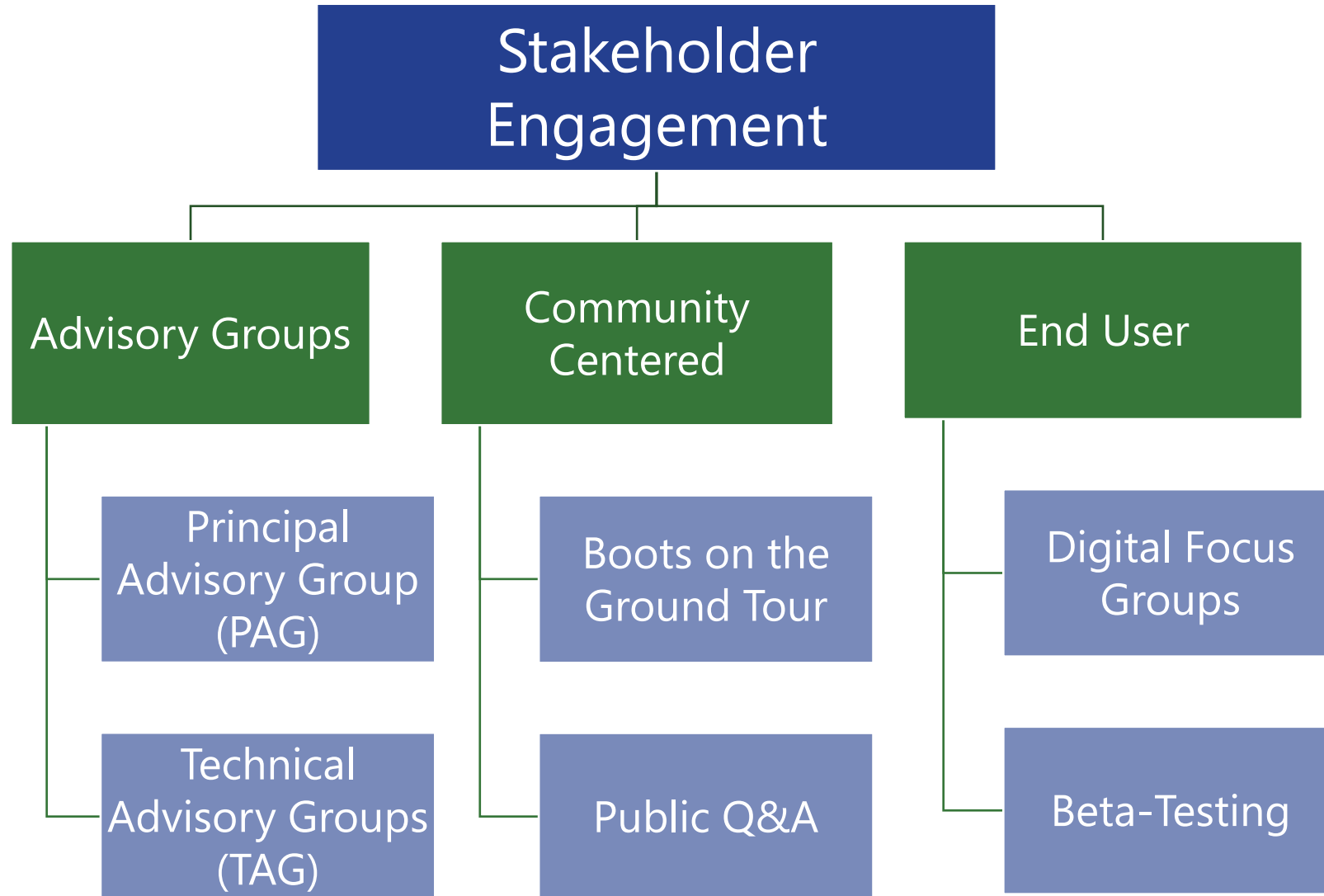
Methodology version 0.1

Census tract: 37079950300
County: Greene County
State: North Carolina
Population: 6,908

Identified as disadvantaged?
YES ●
in 3 categories

[Send feedback](#) ✉

Climate change	● +
Clean energy and energy efficiency	● +
Clean transit	+
Sustainable housing	+
Legacy pollution	+
Clean water and wastewater infrastructure	+
Health burdens	● +
Workforce development	+



Engagement to Date

- 2022 – Scope of work development included extensive work with agencies, non-profits, academics, and local government representatives
- 2/9 - DEQ Secretary's Environmental Justice and Equity Advisory Board public meeting
- 2/14 – Joint Legislative Oversight Committee on Agriculture and Natural and Economic Resources
- 3/8 – Select Municipal, County, and Council of Government elected leaders
- 3/9 - North Carolina GIS Conference



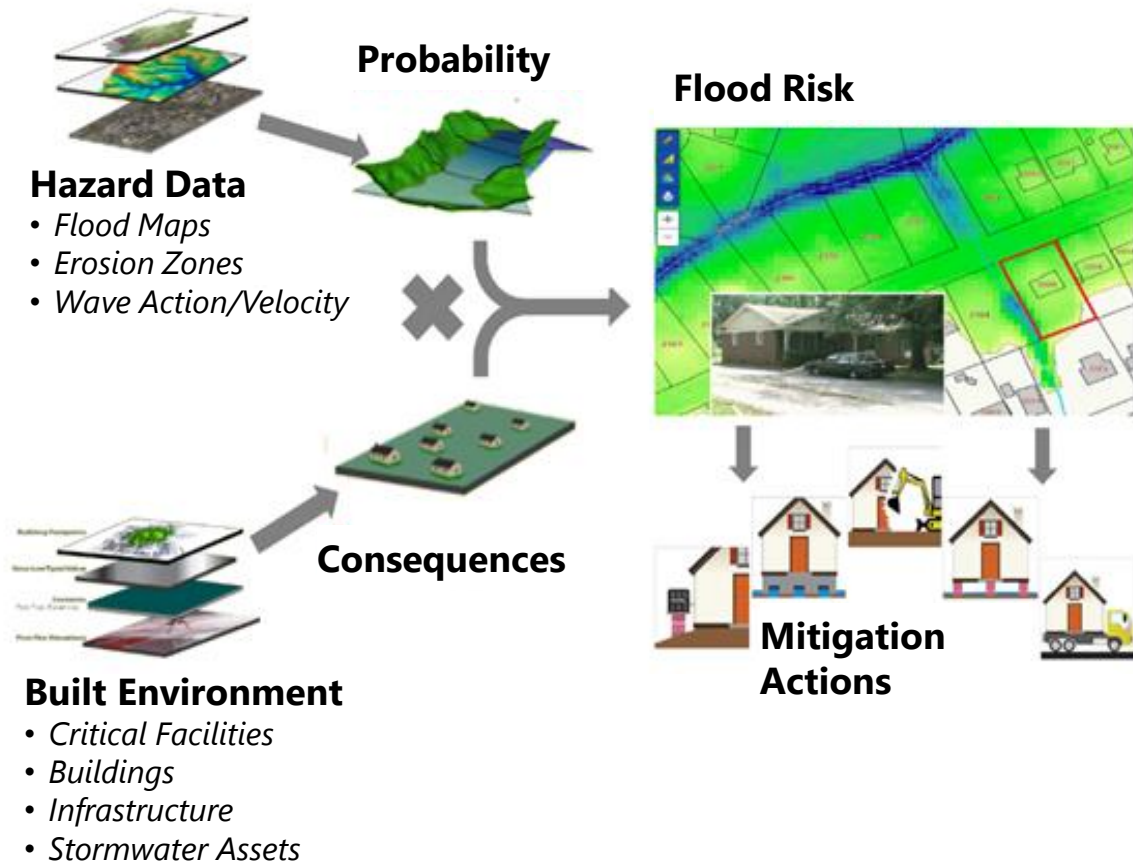
Task 2: Gap Analysis

Laura Arnold, Task 2 Lead, AECOM

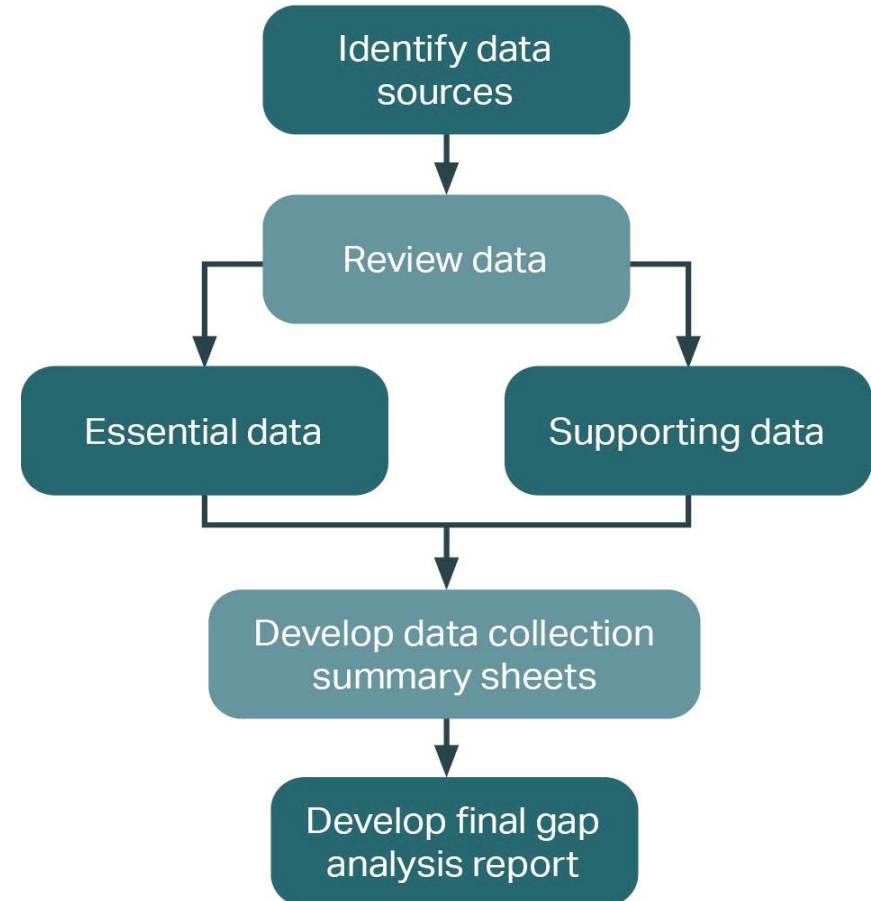


Data Drives the Blueprint – Past, Present, Future datasets

THE “WHAT?”



THE “HOW?”



Data Collection Plan Classifications (“Profiles”)

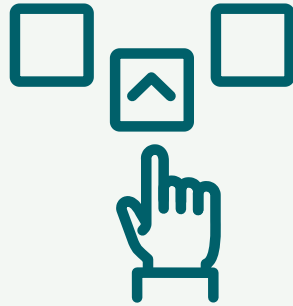


Organizing datasets into profiles will help better identify and fill gaps for a more comprehensive Blueprint tool

Gap Analysis



**Geospatial
Gaps**



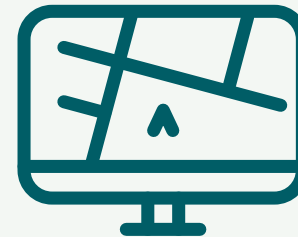
Database Gaps



**Specifications /
Quality Gaps**



**Temporal
Gaps**



**Engineering
Modeling Gaps**

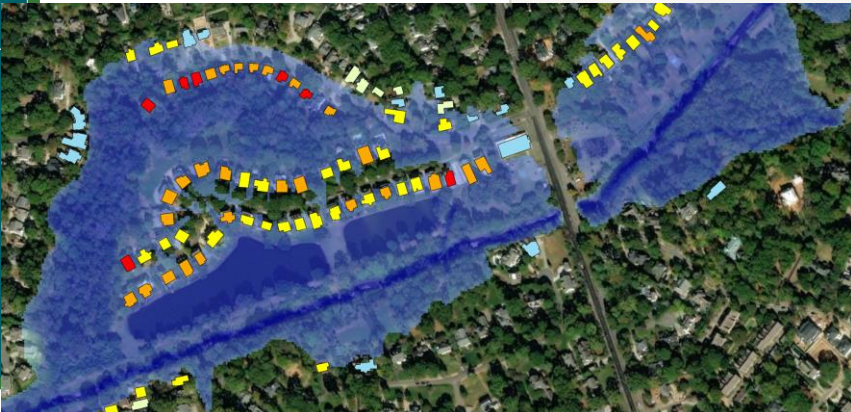
Data Assessment Summary Tables



Classification	Built Environment	Built Environment	Built Environment	Built Environment	Built Environment
Classification	Built Environment	Built Environment	Built Environment	Built Environment	Built Environment
Dataset Class	Essential	Essential	Essential	Essential	Essential
Data/Anticipated Resource	Existing Dam and levee Data (NCEM, USACE, NID, NCDISO)	Critical Infrastructure and Key Resources (NCEM)	Building Footprint Data (NC Risk Database)	Municipal Stormwater Asset Inventories (MCOOT, Local Government)	Parcel Data (NCEM, local government)
How Used and Why Essential	Location of dams and levees within the basin including operations and maintenance data where available and simplified 2D breach analysis modeling, mapping, and risk assessments	Dataset with locations of critical structures (e.g. hospitals, nursing homes, police/fire stations, leading industries - Economic Development Information Systems, EOCs, etc.)	Best available data from local government sources and manual digitization to provide building level risk assessment information and dollar-damage estimates for structural and indirect flood losses	Typically point and line files or models that include a variety of stormwater structures including catch basins, curbs, gutters, pipes, and drains that collect, convey, and direct flow of water to a desired area	Data often contains information on structures which is useful for risk assessments and quantifying flood losses
Benefits	Identifies areas at risk in event of dam breach and quantifies risk to manmade environment. Can help identify areas at potential risk from a dam or lagoon breach. Used for identification and analysis of mitigation solutions related to physical or operational changes to dams.	Identify structures of critical importance for prioritization of risk reduction. It is essential to know at what flood frequency these facilities require evacuation or when access may be compromised.	Essential data for determination of structural flood risk. Useful for investigation, evaluation, and comparison of mitigation options. Useful for disaster planning and response.	Best available data for helping identify potential issues and mitigation solutions for urban flooding and flash flooding. Data can be used to identify potential issues with capacity, maintenance, or aging assets that results in urban flash flooding. Also helps to refine drainage basin delineations.	Data from parcel information can be correlated with building footprints and incorporated into the NC Risk Database and used for risk assessments. Can be used in combination with zoning data and adjacent parcels to develop estimates of future land use.
Weaknesses	Need to add more breach scenarios, does not include low hazard including many agricultural lagoon, and NCEM 2D analysis does not cover all dams in Neuse Basin. Inconsistent availability of O&M data and all significant structural data for some dams.	Data needs to be updated, this was compiled once across the state approximately 10 years ago. Need to analyze any access issues as well as transportation routes in general for redundancy during flood emergencies.	Data needs to be updated, this was compiled once across the state approximately 10 years ago. Minor updates within identified SFHA during Advisory Flood project. Data confidence varies greatly based off original data sources used for conflation of attributes (field derived/parcel derived/HAZUS derived). There is no sole authoritative building footprint source (universal across all applications (FIMAN, FRIS, SERA). Limited options for determination of future risk to structures.	Smaller communities likely do not have a comprehensive inventory. Any available modeling may be unavailable or outdated. Modeling likely would not account for climate adaptation considerations.	Locally derived parcel data lacks consistent attributes. Many communities do not have appropriate level of data to support detailed risk analyses.
Initial Recommendation for Improvement	Identify dams that may provide mitigation benefits and perform additional analysis as needed. Complete risk analysis on dams not analyzed by NCEM.	Determine other ESRI data that exists or is being developed. Identify planned critical structures. Update data to include any critical facilities developed or planned since last update of the database.	Add new structures, modify existing structures, remove demolished structures and improve attribution. Modernize and normalize the schema and update @RSK workflow and associated tools and applications/websites. More comprehensive effort to identify and update existing building footprints (strategy for data maintenance is in development at CGIA/NCEM). Formalize parcel data across the state to provide a consistent standard to be used for attribution of risk based data for building footprints. Ghost footprints have been used to project structure risk in the near future. Future risk determinations for mid- and end-of century would need to include developed future hazard analyses as well as future assets at risk by using projected parcel or landcover data.	Develop modeling for stakeholder identified hot spots with most up to date rainfall and hydrology information, gather field or survey data needed to support modeling and/or assessments of infrastructure	Normalize data

NCEM 2D analysis does not cover all dams in Neuse Basin. Inconsistent availability of O&M data and all significant structural data for some dams.

approximately 10 years ago. Need to analyze any access issues as well as transportation routes in general for redundancy during flood emergencies.



Example: Building Footprints

Data/Anticipated Resource	Building Footprint Data (NC Risk Database)
How Used and Why Essential	<ul style="list-style-type: none"> Best available footprint data from state / local government sources manual Provides building level risk assessment information and damage estimates for structural and indirect flood losses. Useful communication tool and forms the basis for building level risk determinations and mitigation effectiveness.
Benefits	<ul style="list-style-type: none"> Essential data for determination of structural flood risk. Useful for investigation, evaluation, and comparison of mitigation options. Useful for of disaster planning and response. Can form primary communications methods for Blueprint Decision Support Tool(s).
Weaknesses	<ul style="list-style-type: none"> Temporal Gaps exist in Neuse Basin and Statewide. Dataset was compiled once across the state approximately 10 years ago. Minor updates within identified in 2021 in Eastern NC (during Advisory Flood project). Data / attribute confidence varies greatly based off original data sources (field derived/parcel derived/HAZUS derived). There is no sole authoritative building footprint source (universal across all applications (FIMAN, FRIS, SERA). Limited options for determination of future risk to structures.
AECOM Teams Initial Improvement Recommendations	<ul style="list-style-type: none"> Add new / modify existing structures Remove demolished / mitigated structures and improve dataset attribution. Add / collect additional attributes for Flood Risk Score Calculations Modernize and normalize the database schema. More comprehensive effort to identify and update existing building footprints (strategy for data maintenance is in development at CGIA/NCEM). Formalize parcel / replacement values across the state to provide a consistent standard to be used for attribution of risk-based data for building footprints.

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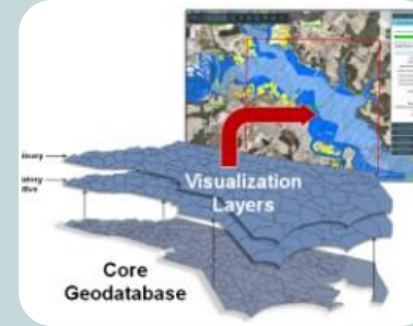
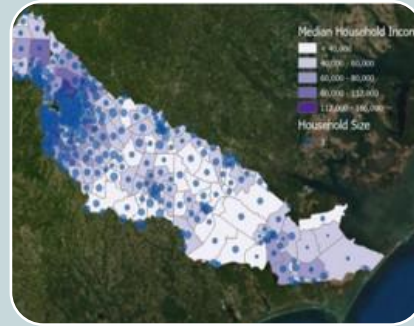
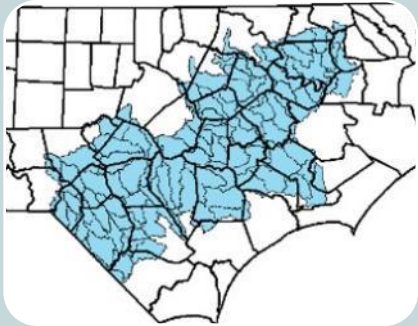


Task 3: Recommendations/ Decision Framework

David Key, Task 3 Lead, ESP Associates



Scalability – Why it Matters



Basin Size & Population

- **17 River Basins**
- **Varying Topography**
- Population
- Culture
- **Adjacent States Headwater**

Hydrology and Hydraulics

- Model Type
- Model Age
- **Fluvial Conditions**
- **Pluvial Conditions**

Demographics, Diversity & Social Vulnerability

- **Diverse Populations**
- Equity
- Population 10M+
- 2.2M in Neuse Basin Alone

Source Data Quality/Coverage

- Data Rich Communities
- **Underserved Communities**
- **Allow for local Datasets**
- Proxy Datasets

Mitigation Techniques

- Flooding Source
- **Assessment of Alternatives**
- Policy and Law

Ensuring Scalability and Repeatability



Innovative and Scalable Decision Support Tools

- Open source, well-documented geospatial tools
- Building level flood risk “score” & mitigation alternative evaluations
- Batch maintenance and repeatability and archival for “progress tracking”



Robust Blueprint Enterprise Database

- Requirements meetings with database “stakeholders”
- Enterprise design schema supporting aggregation



Leverage Public Domain Modeling

- Non-Proprietary data and models support up-scaling
- More defensible product and community acceptance statewide

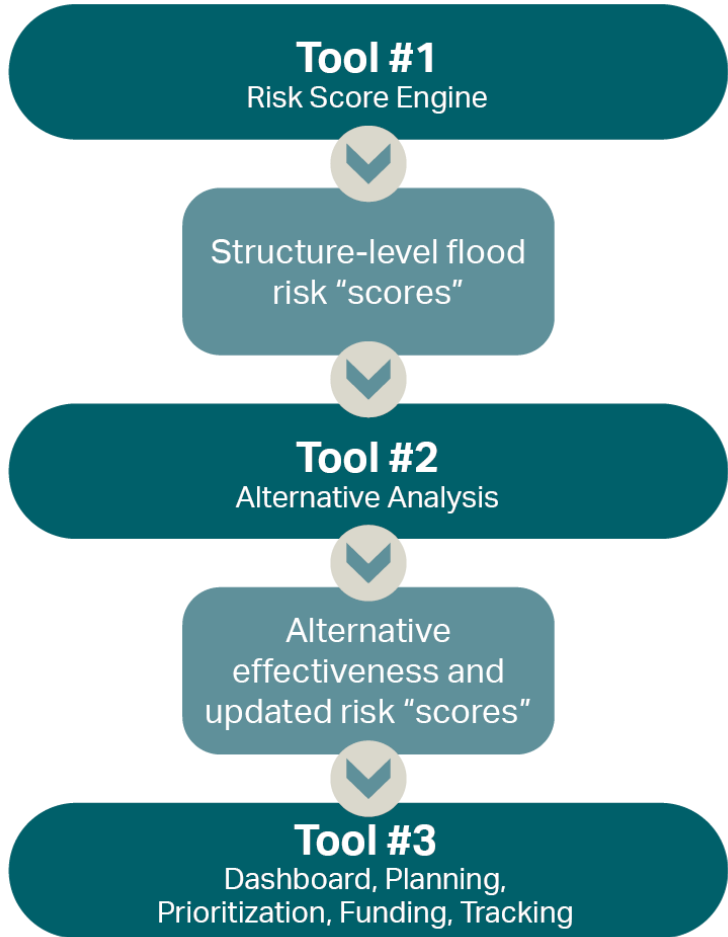


Stakeholder, Data and Document Management Plan

- Flexible and Adaptive Meeting Mediums
- Documents, templates, fact sheets and issue papers efficiently used Statewide

Ensuring Blueprint Scalability

Innovative, Scalable Decision Support Tools



Risk Component Trigger Storm Event

12 Components

Component	Event	Score
A: FFE Flooding	5-yr	560
B: LME Flooding	25-yr	48
C: LAG Flooding	5-yr	200
D: Property Surrounded	25-yr	44
E: Building Surrounded	25-yr	20
F: Critical Facility Surrounded	n/a	0
G/H: Multi-Family Surrounded	n/a	0
I: Potential Structural Damage	50-yr	40
J: Significant Improvements Flooding	n/a	0
K: Moderate Improvements Flooding	n/a	0
L: Vehicle Flooding	10-yr	60
M: Yard Flooding	2-yr	15

Current Calculated Risk
EntireCounty20200630 | 06/30/20 06:02

Risk Score: 987

Example Decision Support Tool



MECKNC.GOV



RARR

RISK ASSESSMENT RISK REDUCTION

HOME DASHBOARD PROGRAM PLANNING POSTEVENT ANALYSIS



data

52

structures in view

18

projects in view

11,609

total risk score

6,936

residual risk score

\$4M

total mitigation cost

\$894

avg cost / point reduction

Viability Slider

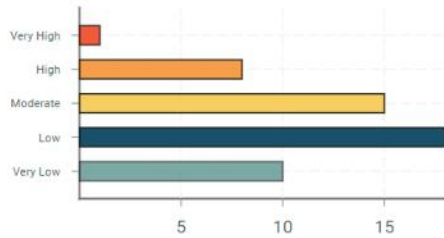
Prioritize Acquisition



CMSWS CIP goals and residual risk levels developed using General Viability = 5 and Acquisition Viability = 5

Risk Summary

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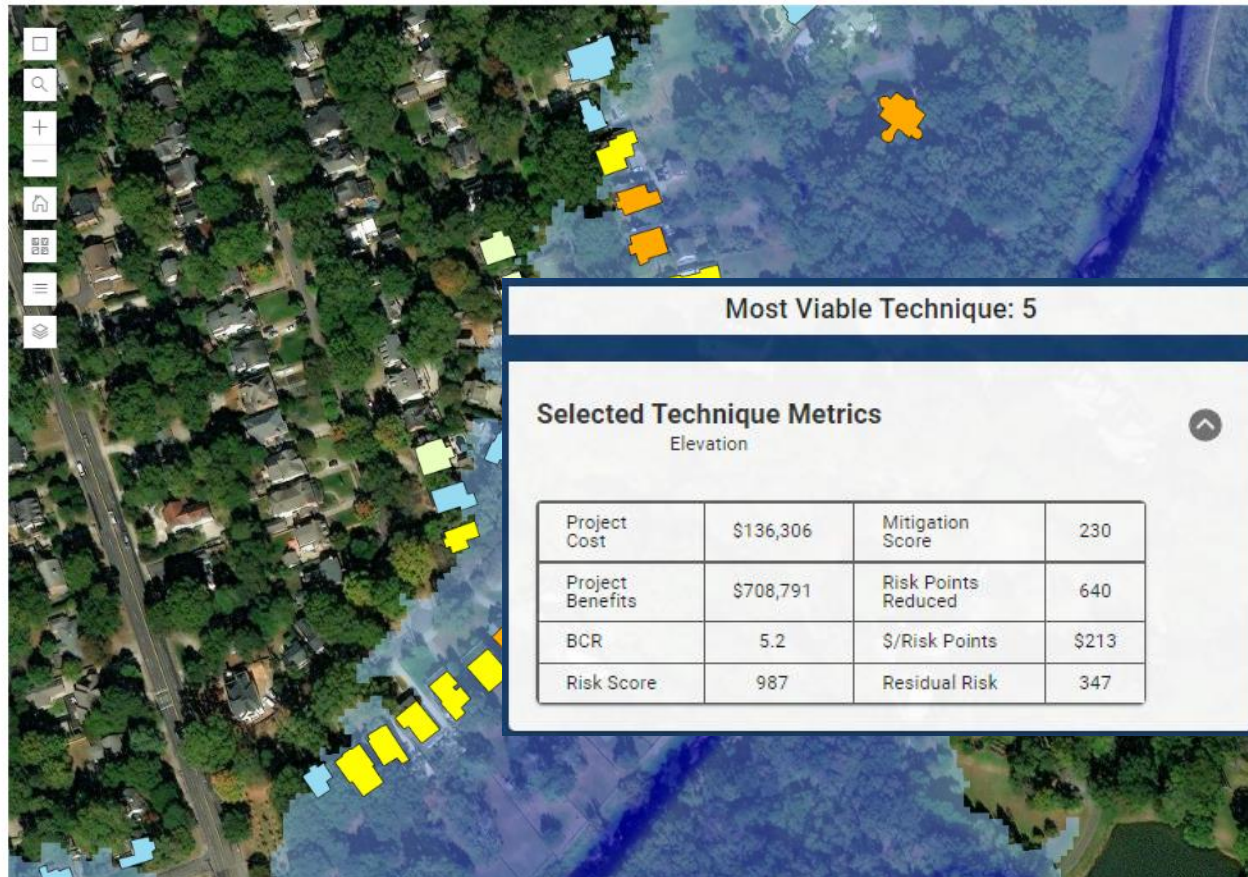


Mitigation Project Summary

RESET



34 non-project structures omitted from chart



Most Viable Technique: 5

Selected Technique Metrics

Elevation

Project Cost	\$136,306	Mitigation Score	230
Project Benefits	\$708,791	Risk Points Reduced	640
BCR	5.2	\$/Risk Points	\$213
Risk Score	987	Residual Risk	347

View Evaluated Techniques Only

1: Acquisition/Demolition	High Eff.	7
2: Demo/Rebuild	High Eff.	10
3: Acquisition/Relocation	Fur. Eval.	n/a
4: Acquisition/Re-Sale	Not Rec.	n/a
5: Elevation	Eff.	1
6: Abandon Basement	Not Rec.	n/a
7: Dry Floodproofing	Not Rec.	n/a
8: Wet Floodproofing	Not Rec.	n/a
9: Individual Flood Warning	High Eff.	1
10: Detention	Not Eval.	n/a
11: Stormwater System Control	Not Eval.	n/a
12: Automated Notification	High Eff.	1
13: Public Education	High Eff.	1
14: Flood Insurance	High Eff.	1
15: Levee/Floodwall	Not Eval.	n/a
16: Protect Service Equipment	Eff.	1
17: Partial Dry Floodproofing	Not Rec.	n/a
18: Partial Wet Floodproofing	Fur. Eval.	n/a
19: Individual Levee / Floodwall	Not Rec.	n/a

Most Viable Technique: 5

Selected Technique Metrics

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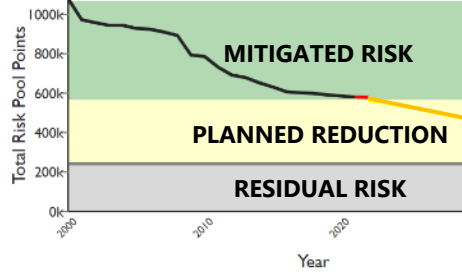


Mitigation Planning | Flood Events

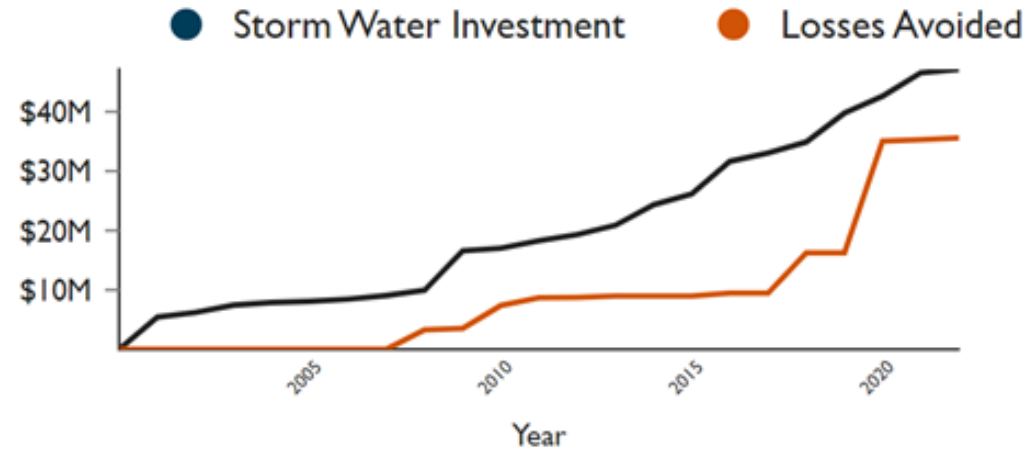
Flood Risk Summary

The Mecklenburg County Risk Assessment and Risk Reduction Capital Improvement Dashboard tracks the progress of various flood mitigation initiatives in the county. The charts and graphs shown below include **1) Historic tracking of cumulative flood risk points** countywide including progress toward residual risk goals **2) Flood Risk Reduction** Goals-based breakdown **3) Historic Private Risk Mitigation** (2010- present) showing private risk added and mitigated **4) Historic Cost per Risk Point Reduction** including historic cost/point and average cost / point since 2000 and **5) Cumulative Losses Avoided Tracking** including flood mitigation investment and actual flood losses avoided. Data can be exported to Microsoft csv and Google Sheets format for external applications.

HISTORICAL RISK SC



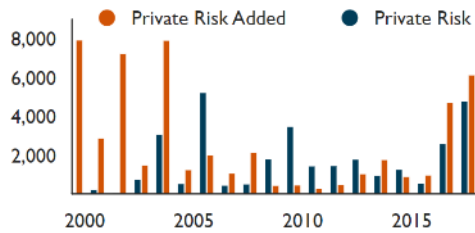
INVESTMENT VS LOSSES AVOIDED



T VS LOSSES AVOIDED



PRIVATE RISK MITIGA



DATA EXPORTS

[EXPORT TO GOOGLE SHEETS](#)



Task 4: Draft Blueprint/ Neuse Basin Action Strategy

Expectation of participation of TAG interaction

Marcia Tobin, Task 4 Lead, AECOM



Core Outcomes

These core outcomes are the focus for decision making:

1. Reduce likelihood and extent of flooding in NC
2. Reduce vulnerability and impact from flooding in NC
3. Increase community ability to maintain and quickly resume pre-storm activities following flooding in NC



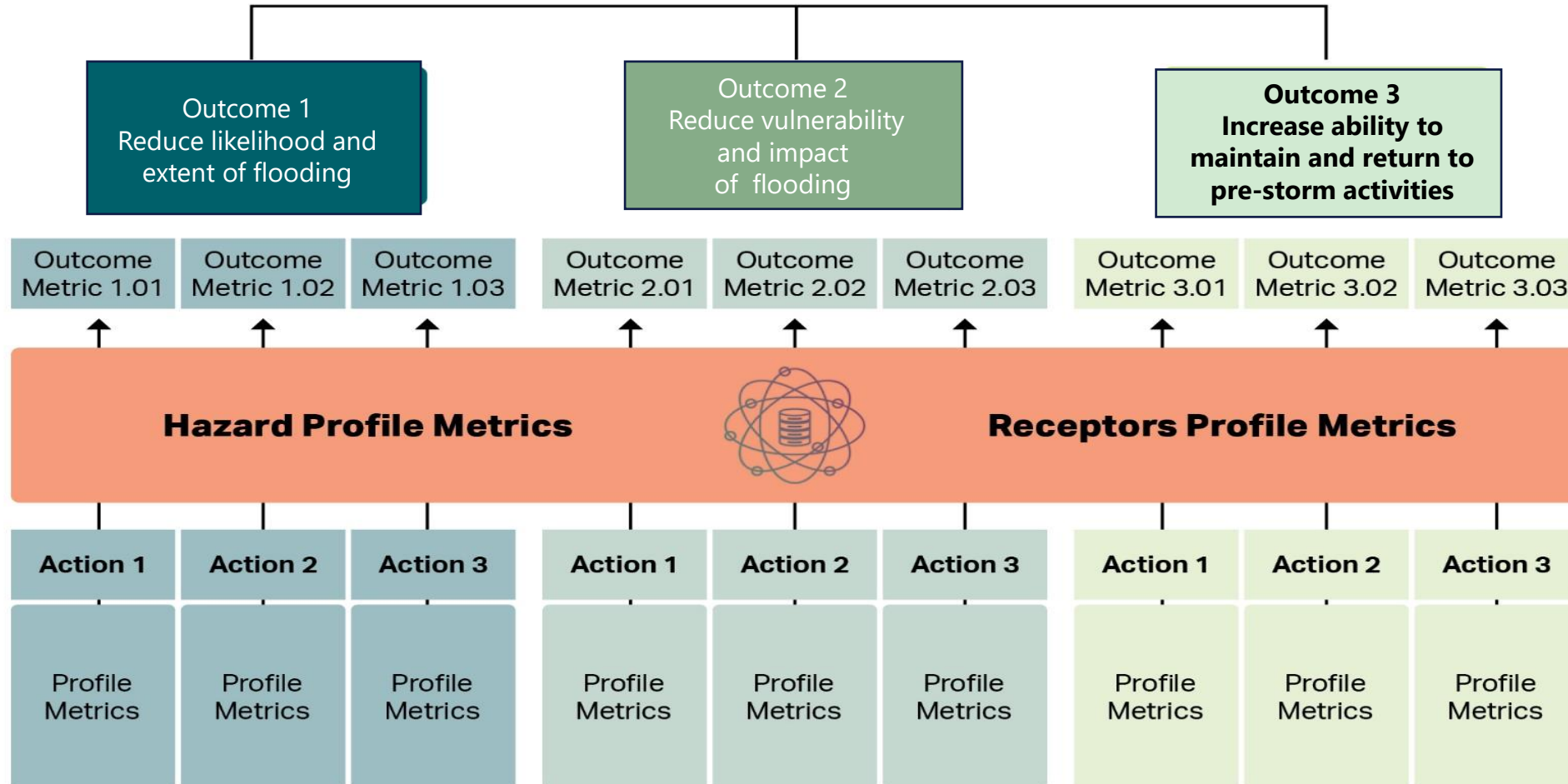
Key Deliverables for Phase I



Product	Key Attributes
<p>1. Requirements needed to develop the suite of online decision support tools</p>	<ul style="list-style-type: none"> ▪ Storyboards to identify functions ▪ Description of how user will interface with the tool ▪ Mockups to depict look and feel of interactive tool
<p>2. Draft Neuse Basin Flood Resiliency Action Strategy (pilot)</p>	<ul style="list-style-type: none"> ▪ Findings and recommendations for improving flood resiliency ▪ Project descriptions, recommendations on entities best suited to implement ▪ Identification of further needs for data development or modeling
<p>3. Draft North Carolina Flood Resiliency Blueprint</p>	<ul style="list-style-type: none"> ▪ Manual for conducting flood resiliency planning at the river basin level ▪ How will these plans be developed going forward (e.g., long-term maintenance and administration of Blueprint)? ▪ Framework of key decision points, actions, and outcomes for each phase

Relational Framework of Metrics

DEQ FLOOD RESILIENCY BLUEPRINT FRAMEWORK OF METRICS



Data-Driven Prioritization

Resilient Action Metrics

<p>Technical</p>	<p>Value/Change</p>	<p>Financial</p>	<p>Funding</p>	<p>Legal</p>
<p>Type, level of effort (LOE), design, modeling, legal, implementation and construction</p>	<p>Outcome value (e.g., loss avoidance) and/or adjustments to present and future hazard and receptor impacts</p>	<p>Financial cost of implementing the action (capital outlay, personnel, operational, maintenance)</p>	<p>Type, amount, eligibility, period of performance, operational LOE, compliance, probability of capture</p>	<p>Legal action (e.g., land transfer), administrative or statutory, LOE</p>
<p>Administrative</p>	<p>Duration</p>	<p>Complexity</p>	<p>Community</p>	
<p>Level of administrative burden placed on the community(s) impacted by the action</p>	<p>Anticipated length of time to complete the action</p>	<p>Complexity to implement ranking (algorithm)</p>	<p>Community's capacity and capability to manage the implementation of the action (grants, contracts, operations)</p>	

Fund Profile



- Array of funding sources that support Blueprint Actions
- Funding Opportunity Profiles, defining:
 - Source
 - Funding vehicle
 - Eligible recipients
 - Managing agency
 - Eligible uses
 - Matching requirements
 - Program links
 - Notices of Funding Opportunities (NOFOs)
 - Compliance Requirements

Fund Explorer

Click on eraser to clear filter selections

Select Category: Broadband

Select Agency: All

Select Funding Mechanism: Multiple selections

Search Subprogram: Middle Mile Grant Program (Sector)

Filter by EITHER direct recipient type OR potential subrecipient type

Select Direct Recipient Type: All

Potential Subrecipient Type: All

Guaranteed Funding by Year

FY 2022	FY 2023	FY 2024	FY 2025	FY 2026
00.200	00.200	00.200	00.200	00.200

Funding by Subprogram

Agency	Bureau	Subprogram	Adv. Appropriations / Contract Authority	URL	NOFO URL	NOFO Est. Date
Commerce	National Telecommunications a...	Broadband Deployment - Competitive Grants	\$33,150,000,000			7/18/2022
FCC	Wireline Competition Bureau	To Support the Affordable Connectivity Program (Section 904(b)...	\$14,200,000,000			7/18/2022
Commerce	National Telecommunications a...	State Baseline Allocation Grants	\$5,000,000,000			7/18/2022
Commerce	National Telecommunications a...	Tribal Broadband Connectivity Program - Grants	\$2,000,000,000			
Agriculture	Rural Utilities Service	Broadband Loan and Grant Pilot Program - PL 115-141, Section...	\$1,741,100,000			
Commerce	National Telecommunications a...	State Digital Equity Capacity Grants	\$1,440,000,000			
Commerce	National Telecommunications a...	State Digital Equity Competitive Grants	\$1,250,000,000			
Commerce	National Telecommunications a...	Middle Mile Grant Program (Section 6401, Division F, IJA)	\$980,000,000			9/30/2022
Commerce	National Telecommunications a...	territory(s) baseline Allocation Grants	\$100,000,000			7/18/2022
Commerce	National Telecommunications a...	State Digital Equity Planning Grant	\$80,000,000			7/12/2022
Agriculture	Rural Utilities Service	Broadband Loan and Grant Pilot Program - Cost for Eligibility De...	\$50,000,000			7/1/2022
FCC	Wireline Competition Bureau	Affordable Connectivity Program - Outreach Grants	\$0			

Funding Mechanism / Eligibility

Funding Mechanism(s): Competitive Grant

Pass-Through Type: Federal Programs

Direct Recipients: State, Tribal Gov./Org., Local Government, For-Profit Entity, Public Agency/Authority, Non-Profit, County, MPO/RPC, Native Hawaiian / Alaskan Organization, Utilities, Telecom, Cooperative Organization

Potential Subrecipients:

Selected Subprogram Details

Parent Program: Middle Mile Grants Program

Funding Category: Broadband

New or Legacy Program: Introduced in IJA

NOFO Date: 5/13/2022

Application Deadline: 9/30/2022

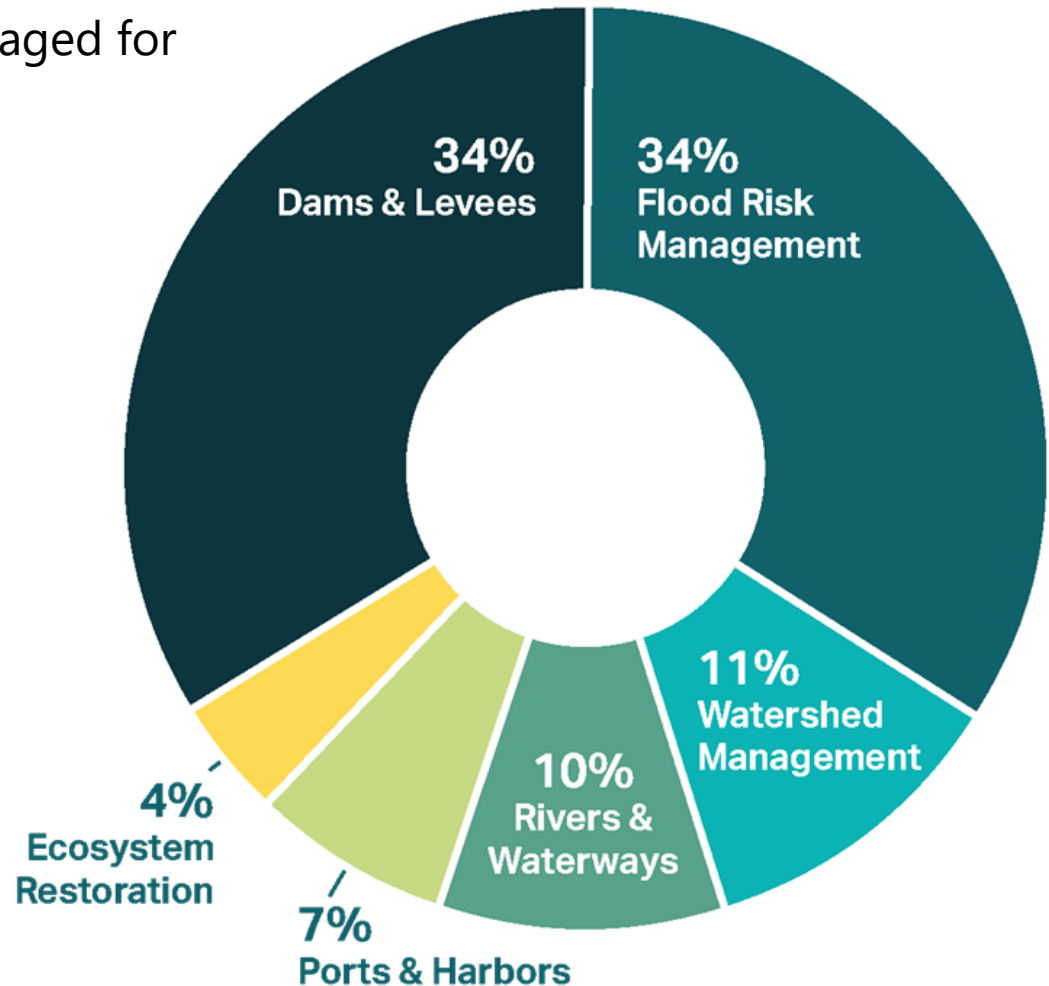
Description: Establishes and funds a \$1 billion program for the construction, improvement or acquisition of middle mile infrastructure. The purpose of the grant program is to expand and extend middle mile infrastructure to reduce the cost of connecting unserved and underserved areas to the internet backbone.

Eligible Uses: Broadband infrastructure deployment (e.g. construction), Middle mile infrastructure typically aggregates large quantities of traffic for carriage between networks to close gaps that hinder broadband access and worsen the digital divide. May include (i) leased dark fiber, interoffice transport, backhaul, carrier-neutral internet exchange facilities, carrier-neutral submarine cable landing stations, undersea cables, transport connectivity to data centers, special access transport, and other similar services and (ii) wired or private wireless broadband infrastructure, including microwave capacity, radio tower access, and other services or infrastructure for a private wireless broadband network such as towers, fiber, and microwave links.

IIJA – Supporting Funding Provisions

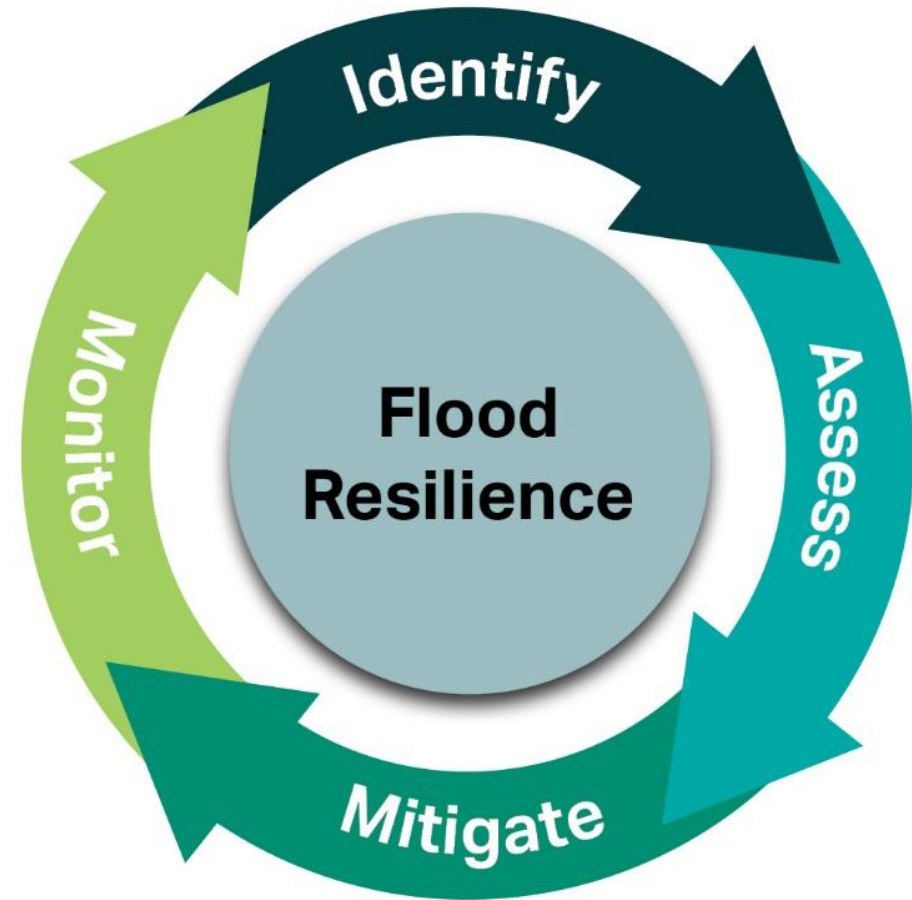
Of the identified 418 unique funding provisions, there are 97 water-specific provisions that potentially could be leveraged for Blueprint projects:

- **Ecosystem Restoration** - 8 / \$1.56B
- **Watershed Management** - 35 / \$3.9B
- **Flood Risk Management** - 21 / \$12.41B
- **Rivers and Waterways** - 2 / \$2.5B
- **Ports and Harbors** - 3 / \$2.75B
- **Dams / Levees** - 28 / \$12.63B
- Of these funds, **28% will be available to non-federal entities** through grants, loans and apportionment



Blueprint Outcome

The Blueprint will provide actionable relevant data or information that enables decision-makers to identify and prioritize projects and funding strategies that will increase community resilience to flooding.



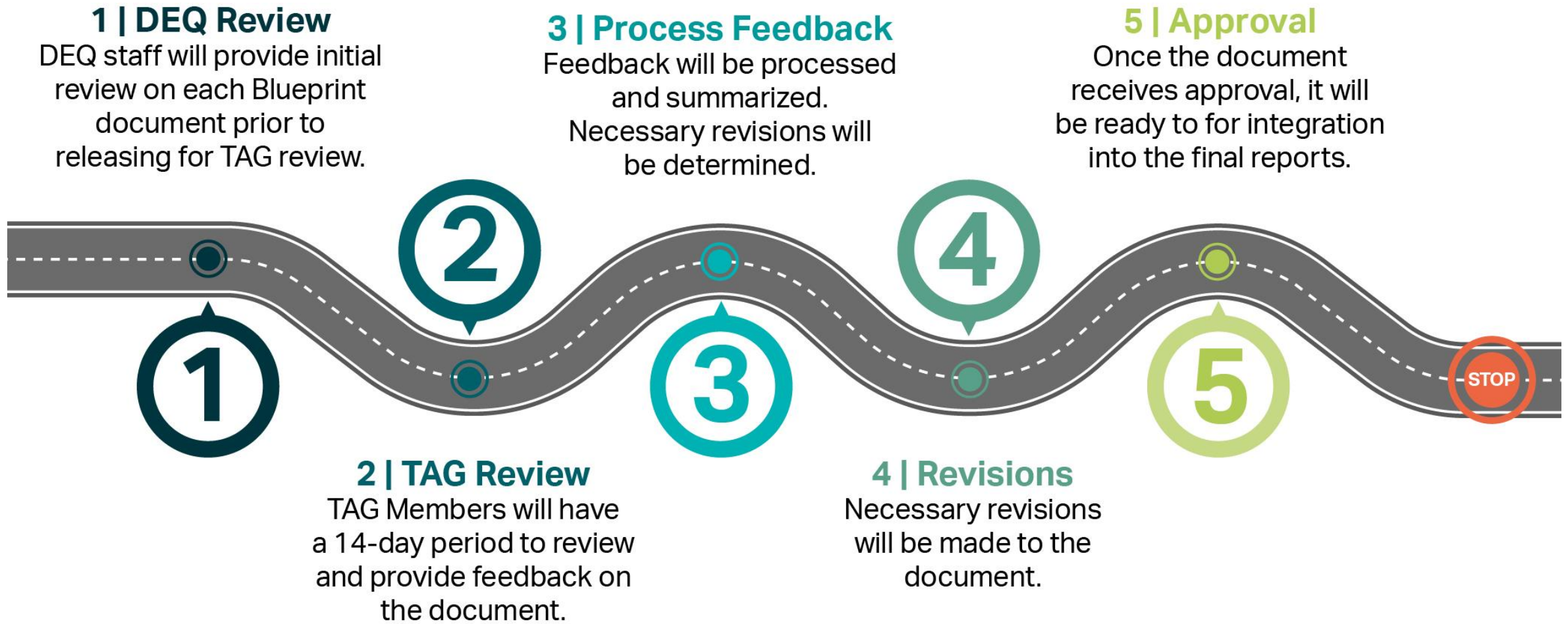


Data Sharing and Distribution

Judie Taylor, Data/Document Management Lead, AECOM



Flood Resiliency Blueprint Deliverables Review Process



Flood Resiliency Blueprint Document Management Site

<https://ncconnect.sharepoint.com/sites/FRBDM>

- SharePoint site will be used for review and commenting on deliverable documents for the NC Flood Resiliency Blueprint.
- Deliverable documents will be provided to the Technical Advisory Groups through the site's Documents library.

If you did not receive an invitation, or have any trouble accessing, please email judie.taylor@aecom.com



Flood Resiliency Blueprint Document Management

[Home](#)[General Information](#)[TAG Review Documents](#)[Documents](#)[Site contents](#)[Subtasks](#)[Recycle bin](#)

Welcome to the Flood Resiliency Blueprint Document Management System

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TAG Review Documents Shortcuts

[All TAG Review Documents](#)[TAG Review - Principal Advisory Group](#)[TAG Review - Governance](#)[TAG Review - Partnership/Funding](#)[TAG Review - Hazard Identification](#)[TAG Review - Vulnerability/Risk/Impact](#)[TAG Review - Resilience/Mitigation/Reduction](#)[TAG Review - Tool Development/Acceptance](#)[TAG Review - Neuse Regional Advisory Council](#)

Document Commenting Instructions

[Commenting on Word Files](#)[Commenting on Excel Files](#)



Flood Resiliency Blueprint Document Management

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General Information

[TAG Review Documents](#)[Documents](#)[Site contents](#)[Subtasks](#)[Recycle bin](#)[Return to classic SharePoint](#)

General Information

Name	Modified	Modified By	Category
Deliverables Schedule.pdf	5 hours ago	Morgan, Hope	FAQs
Subtask List with TAG review.pdf	5 hours ago	Morgan, Hope	FAQs
TAG Commenting Instructions.pdf	Yesterday at 5:11 PM	Taylor, Judith L	Tutorials
TAG Kickoff Meeting Agenda.pdf	Yesterday at 5:11 PM	Taylor, Judith L	Agenda
TAG Participant List.pdf	5 hours ago	Morgan, Hope	FAQs
TAG_Commenting_Excel.pdf	3 hours ago	Taylor, Judith L	Tutorials
TAG_Commenting_Word.pdf	3 hours ago	Taylor, Judith L	Tutorials
TAG_QandA.pdf	5 hours ago	Morgan, Hope	FAQs



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TAG Review Documents - All

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TAG Review - Hazard Identification

TAG Review - Vulnerability/Risk/Impact

TAG Review - Resilience/Mitigation/Reduction

TAG Review - Tool Development/Acceptance

TAG Review - Neuse Regional Advisory Council

Documents

Name	Review_Status	Primary_Review_TAG	Supporting_Review_TAG	Discipline	Document_Type
Sample1.xlsx	TAG_Review	Partnership/Funding	Governance		
Sample2.docx	TAG_Review	Hazard Identification	Neuse Regional Advisory Council		
Sample3.docx	TAG_Review	Tool Development/Acceptance	Partnership/Funding		
Sample4.xlsx	TAG_Review	Resilience/Mitigation/Reduction	Vulnerability/Risk/Impact	Planning	



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TAG Review - Partnership/Funding

TAG Review - Hazard Identification

TAG Review - Vulnerability/Risk/Impact

TAG Review - Resilience/Mitigation/Reduction

TAG Review - Tool Development/Acceptance

TAG Review - Neuse Regional Advisory Council

Documents

Name	Review_Status	Primary_Review_TAG	Supporting_Review_TAG	Discipline	Document
Sample1.xlsx	TAG_Review	Partnership/Funding	Governance		



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TAG Review - Governance

TAG Review - Partnership/Funding

TAG Review - Hazard Identification

TAG Review - Vulnerability/Risk/Impact

TAG Review - Tool Development/Acceptance

TAG Review - Neuse Regional Advisory Council

Documents

Name	Review_Status	Primary_Review_TAG	Supporting_Review_TAG	Discipline	Document_Typ
Sample4.xlsx	TAG_Review	Resilience/Mitigation/Reduction	Vulnerability/Risk/Impact	Planning	



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Documents

	Name	Review_Status	Primary_Review_TAG	Supporting_Review_TAG	Discipline	Document_Type	Theme
	2_TAG_Review						
	3_Completed_TAG_Review						

[Return to classic SharePoint](#)

TAG DELIVERABLES REVIEW

Commenting on Deliverables

Commenting on Microsoft Excel Files

From the SharePoint Document Library:

- 1 Click on the Microsoft Excel file you want to review.

Add New Comment

In the Microsoft Excel document:

- 1 Select the **Review** menu.
- 2 Select the cell on which you want to comment.
- 3 Click **New Comment**.
- 4 Enter comment in the **Comments** dialog.
- 5 Click the send button.
- 6 Comment will appear adjacent to the selected cell.

Commenting on Microsoft Word Files

From the SharePoint Document Library:

- 1 Click on the Microsoft Word file you want to review.

Add New Comment

In the Microsoft Word document:

- 1 Select the **Review** menu.
- 2 Select the content on which you want to comment.
- 3 Click **New Comment**.
- 4 Enter comment in the **Comments** dialog.
- 5 Comment will appear on page and can be clicked on to revise.



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Sample3.docx			Partnership/Funding		
Sample4.xlsx			Vulnerability/Risk/Impact	Planning	

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Find Replace Select Create and Share Adobe PDF Request Signatures Dictate Sensitivity Editor Reuse Files



Built Environment Datasets: Built environment datasets are used to identify built assets that may be vulnerable to, and negatively impacted by, flood hazards. Often, brick and mortar structures are a primary focus; however, impacts can include infrastructure, agricultural areas, natural resources, indirect economic impacts or anything else that could be negatively impacted by flooding. NCEM has established a statewide building footprint dataset that is conflated with structure-specific data to facilitate flood impact estimates using depth-damage curves. Built environment datasets also include critical infrastructure resources and facilities, such as emergency services, healthcare, communications, water and wastewater infrastructure, etc.

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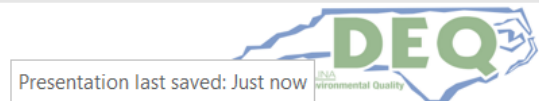
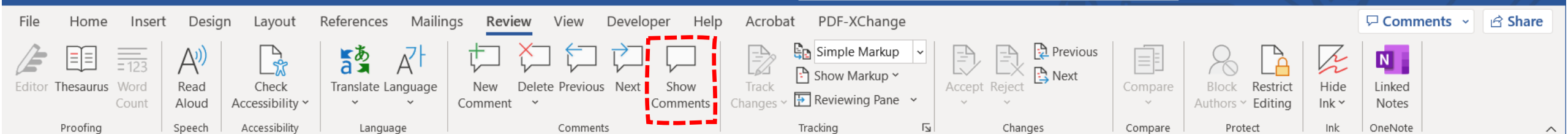
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Comments

Taylor, Judie
New Comment Here



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 **Taylor, Judie** 4 minutes ago
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Taylor, Judie 4 minutes ago
New Comment Here

Reply Resolve

A1 FUNDING VEHICLES

	A	B	C	D	E	F	
1	FUNDING VEHICLE	AGENCY	ADMINISTRATIVE OFFICES	PROGRAM TITLE	TITLE, NOFOS	WEBSITE	
2	Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Regional Conservation Partnership Program (RCPP-EQIP)	RCPP Classic & RCPP Grants 2022 RCPP, Preserving Upriver Farms to Reduce Flooding in NC-Phase II, funded for: \$7,090,909.02 for implementing phase II of a project, reduction of soil erosion and runoff in the Piedmont and Sandhills river basins of North Carolina. Permanent protection of over 4,000 acres of working farms and forests in the Neuse River Basin. Addition of conservation easements in the 8-county project area. 2021 RCPP, EBCI Stream Habitat Improvement, funded for: \$3,500,000 for the Eastern Band of Cherokee Indians (EBCI) Stream Habitat Improvement project to stabilize severely eroding and unstable streams in the Ravens Fork Watershed (historically underserved population in the Great Smoky Mountains of North Carolina). Project goals include reduced stream sediment, improved aquatic habitat, improved plant diversity, and the planting of riparian buffers to offset carbon	https://www.nrcs.usda.gov/programs-initiatives/rcpp-regional-conservation-partnership-program	Development of new c approaches that would natural resource chall restoration practices, i
3	Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Watershed Rehabilitation Program (REHAB)	October	https://www.nrcs.usda.gov/programs-initiatives/watershed-rehabilitation	(REHAB) rehabilitate a design life and/or no performance standard
4	Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Emergency Watershed Protection Program (EWP)	Natural Resources Conservation Service (NRCS) Grant 2021 EWP, Cross Creek Stabilization, funded for: \$1,197,062.36 for St. Johns Church designed to provide debris removal and 225 linear streambank stabilization of Cross Creek Bank.	https://www.nrcs.usda.gov/programs-initiatives/ewp-emergency-watershed-protection	Designed to help peop imminent hazards to l drought, windstorms, a
5	Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Watershed Protection and Flood Prevention (WFPO) Program	October	https://www.nrcs.usda.gov/programs-initiatives/watershed-and-flood-prevention-operations-wfpo-program	Protect and restore wa Protection, Public Recr Water Management, M Water Quality Manage equal to 250,000 Acres
6	Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Healthy Forests Reserve Program (HFRP)	Forest Health Protection, November	https://www.nrcs.usda.gov/programs-initiatives/hfrp-healthy-forests-reserve-program#contact	Restore, enhance, and recovery of endangere animal biodiversity an
7	Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Conservation Innovation Grants (CIG)	CIG National Competition, CIG State Competition, CIG On-Farm Trials	https://cig.sc.egov.usda.gov/	Supports the developm technologies to furthe creative problem solvi air quality, soil health improving agricultural
8	Federal	U.S. Department of Agriculture (USDA)	Rural Business-Cooperative Service, USDA	Rural Development Loan and Grant Assistance	Rural Economic Development Loan & Grant Program in North Carolina, September 30; December 31; March 31; and June 30	https://www.rd.usda.gov/programs-services/business-programs/rural-economic-development-loan-grant-program/nc	USDA Rural Developm communities, funding facilities, business gu America. Funding for r
9	Federal	U.S. Department of Agriculture (USDA)	US Forest Service, USDA	The Land and Water Conservation Fund (LWCF)	Forest Legacy Program (FLP)	https://www.ncforests.gov/fsandfl/what-is-forest-legacy.htm	Protect forested prop acquisition.
10	Federal	U.S. Department of Agriculture (USDA)	US Forest Service, USDA	The Land and Water Conservation Fund (LWCF)	Cooperative Endangered Species Conservation Fund – Section 6 HCP Land Acquisition program	https://lwcfcoalition.org/section-6	Protection for species lands; support of appr
11	Federal	U.S. Department of Agriculture (USDA)	US Forest Service, USDA	Fire Management	Community Wildfire Defense Grant, South; November	https://www.fs.usda.gov/sites/default/files/2022-08/Instruction-SGSF-CWDG-NOFO.pdf	To assist at-risk local for and mitigating aga
12	Federal	U.S. Department of Agriculture (USDA)	US Forest Service, USDA	Special Technology Development Program, Region 8 (Southeast Region)	Forest Health Protection, November	https://www.fs.usda.gov/foresthealth/docs/HP_Grants/STDP-Proposal-Instructions-Guidelines-2023.pdf	Projects submitted to t Service (FS) Forest Hea and improve the healt
				Forest Health Monitoring Program, Evaluation		https://www.fs.usda.gov/foresthealth/docs/FS-Health-Monitoring-Program-Evaluation-2023.pdf	Projects submitted to t Service (FS) Forest Hea

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C4 Natural Resources Conservation Service (NRCS), USDA

FUNDING VEHICLE	AGENCY	ADMINISTRATIVE OFFICES	PROGRAM TITLE	TITLE, NOFOS	WEBSITE	
Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Regional Conservation Partnership Program (RCPP-EQIP)	RCPP Classic & RCPP Grants 2022 RCPP, Preserving Upriver Farms to Reduce Flooding in NC-Phase II, funded for: \$7,090,909.02 for implementing phase II of a project, reduction of soil erosion and runoff in the Piedmont and Sandhills river basins of North Carolina. Permanent protection of over 4,000 acres of working farms and forests in the Neuse River Basin. Addition of conservation easements in the 8-county project area. 2021 RCPP, EBCI Stream Habitat Improvement, funded for: \$3,500,000 for the Eastern Band of Cherokee Indians (EBCI) Stream Habitat Improvement project to stabilize severely eroding and unstable streams in the Ravens Fork Watershed (historically underserved population in the Great Smoky Mountains of North Carolina). Project goals include reduced stream sediment, improved aquatic habitat, improved plant diversity, and the planting of riparian buffers to offset carbon	https://www.nrcs.usda.gov/programs-initiatives/rcpp-regional-conservation-partnership-program	Development of new approaches that would natural resource chall restoration practices,
Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Watershed Rehabilitation Program (REHAB)	October	https://www.nrcs.usda.gov/programs-initiatives/watershed-rehabilitation	(REHAB) rehabilitate a design life and/or no performance standard
Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Emergency Watershed Protection Program (EWP)	Natural Resources Conservation Service (NRCS) Grant 2021 EWP, Cross Creek Stabilization, funded for: \$1,197,062.36 for St. Johns Church designed to provide debris removal and 225 linear streambank stabilization of Cross Creek Bank.	https://www.nrcs.usda.gov/programs-initiatives/ewp-emergency-watershed-protection	Designed to help peo imminent hazards to I drought, windstorms, a
Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Watershed Protection and Flood Prevention (WFPO) Program	October	https://www.nrcs.usda.gov/programs-initiatives/watershed-and-flood-prevention-operations-wfpo-program	Protect and restore wa Protection, Public Recr Water Management, M Water Quality Manage equal to 250,000 Acres
Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Healthy Forests Reserve Program (HFRP)	Forest Health Protection, November	https://www.nrcs.usda.gov/programs-initiatives/hfrp-healthy-forests-reserve-program#contact	Restore, enhance, and recovery of endangere animal biodiversity ar
Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Conservation Innovation Grants (CIG)	CIG National Competition, CIG State Competition, CIG On-Farm Trials	https://cig.sc.egov.usda.gov/	Supports the developr technologies to furthe creative problem solvi air quality, soil health improving agricultural
Federal	U.S. Department of Agriculture (USDA)	Rural Business-Cooperative Service, USDA	Rural Development Loan and Grant Assistance	Rural Economic Development Loan & Grant Program in North Carolina, September 30; December 31; March 31; and June 30	https://www.rd.usda.gov/programs-services/business-grants/rural-economic-development-loan-grant-program/nc	USDA Rural Developm communities, funding facilities, business gu America. Funding for r
Federal	U.S. Department of Agriculture (USDA)	US Forest Service, USDA	The Land and Water Conservation Fund (LWCF)	Forest Legacy Program (FLP)	https://www.ncforestservation.gov/fsandfl/wha t.is_forest_legacy.htm	Protect forested prop acquisition.
Federal	U.S. Department of Agriculture (USDA)	US Forest Service, USDA	The Land and Water Conservation Fund (LWCF)	Cooperative Endangered Species Conservation Fund – Section 6	https://lwcfoalition.org/section-6	Protection for species

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Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA			https://www.nrcs.usda.gov/programs/initiatives/watershed-and-flood-prevention-operations-wfpo-program	Protect and restore wa Protection, Public Rec Water Management, M Water Quality Manage equal to 250,000 Acres
Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA		Healthy Forests Reserve Program	https://www.nrcs.usda.gov/programs/initiatives/hfrp-healthy-forests-reserve-program#contact	Restore, enhance, and recovery of endangered animal biodiversity an
Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Conservation Innovation Grants (CIG)	CIG National Competition, CIG State Competition, CIG On-Farm Trials	https://cig.sc.egov.usda.gov/	Supports the developm technologies to furthe creative problem solvi air quality, soil health improving agricultural
Federal	U.S. Department of Agriculture (USDA)	Rural Business-Cooperative Service, USDA	Rural Development Loan and Grant Assistance	Rural Economic Development Loan & Grant Program in North Carolina, September 30; December 31; March 31; and June 30	https://www.rd.usda.gov/programs-services/business-programs/rural-economic-development-loan-grant-program/nc	USDA Rural Developm communities, funding facilities, business gu America. Funding for r
Federal	U.S. Department of Agriculture (USDA)	US Forest Service, USDA	The Land and Water Conservation Fund (LWCF)	Forest Legacy Program (FLP)	https://www.ncfosterservice.gov/fsandfl/what-is-forest-legacy.htm	Protect forested prop acquisition.
Federal	U.S. Department of Agriculture (USDA)	US Forest Service, USDA	The Land and Water Conservation Fund (LWCF)	Cooperative Endangered Species Conservation Fund – Section 6	https://lwcfoalition.org/section-6	Protection for species

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Federal Funding

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Federal	U.S. Department of Agriculture (USDA)	Natural Resources Conservation Service (NRCS), USDA	Conservation Innovation Grants (CIG)	CIG National Competition, CIG State Competition, CIG On-F Trials
Federal	U.S. Department of Agriculture (USDA)	Rural Business-Cooperative Service, USDA	Rural Development Loan and Grant Assistance	Rural Economic Development Loan & Grant Program in Nor Carolina, September 30; December 31; March 31; and June 3
Federal	U.S. Department of Agriculture (USDA)	US Forest Service, USDA	The Land and Water Conservation Fund (LWCF)	Forest Legacy Program (FLP)
Federal	U.S. Department of Agriculture (USDA)	US Forest Service, USDA	The Land and Water Conservation Fund (LWCF)	Cooperative Endangered Species Conservation Fund – Sect 6

Comments

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Technical Advisory Group Overview

Hope Morgan, Task 1 Lead, AECOM



Group Structures

Government		Environmental		Social		Neuse
Governance	Partnership/ Funding	Hazard Identification	Vulnerability/ Risk/ Impact	Resilience/ Mitigation/ Reduction	Tool Development/ Acceptance	Neuse Regional Advisory Group

Governance TAG

- Provide advisory input and feedback on **existing and proposed regulations, policies, processes, and programs** at a federal, state, Tribal, historically marginalized community, and/or other local levels that will impact the rollout and sustainability of Blueprint

Government		Environmental		Social		Neuse
Governance	Partnership/ Funding	Hazard Identification	Vulnerability/ Risk/ Impact	Resilience/ Mitigation/ Reduction	Tool Development/ Acceptance	Neuse Regional Advisory Group

Partnership/Funding TAG

- Provide advisory input and feedback on the inventory of **funding and financial partnership opportunities** present or anticipated to support implementation of Blueprint projects.
- Provide input and feedback on criteria and modeling utilized to calculate benefit and prioritization.

Government		Environmental		Social		Neuse
Governance	Partnership/ Funding	Hazard Identification	Vulnerability/ Risk/ Impact	Resilience/ Mitigation/ Reduction	Tool Development/ Acceptance	Neuse Regional Advisory Group

Hazard Identification TAG

- Provide advisory input and feedback on data and modeling utilized to best calculate and display **present and future flood probability and extent.**
- Including consideration of deterministic and probabilistic riverine, lacustrine, dam and levee induced, urban, stormwater, and coastal and/or riverine confluence flooding.

Government		Environmental		Social		Neuse
Governance	Partnership/ Funding	Hazard Identification	Vulnerability / Risk/ Impact	Resilience/ Mitigation/ Reduction	Tool Development/ Acceptance	Neuse Regional Advisory Group

Vulnerability/Risk/Impact TAG



- Provide advisory input and feedback on data and modeling to best calculate and display **present and future vulnerabilities and impacts to people and receptors**.
 - People: population, historically marginalized communities, Tribes, etc.
 - Receptors: environment, agriculture, structures, infrastructure, commerce, etc.
- Provide input and feedback on criteria and modeling utilized for risk and equity ranking and rating.

Government		Environmental		Social		Neuse
Governance	Partnership/ Funding	Hazard Identification	Vulnerability / Risk/ Impact	Resilience/ Mitigation/ Reduction	Tool Development/ Acceptance	Neuse Regional Advisory Group

Resilience/Mitigation/Reduction TAG



- Provide advisory input and feedback on data and modeling to best calculate and display **present and future loss avoidance to people and receptors**
 - People: population, historically marginalized communities, Tribes, etc.
 - Receptors: environment, agriculture, structures, infrastructure, commerce, etc.
- Provide input and feedback on criteria and modeling utilized for ranking and prioritizing mitigation strategies and projects.

Government		Environmental		Social		Neuse
Governance	Partnership / Funding	Hazard Identification	Vulnerability/ Risk/ Impact	Resilience/ Mitigation/ Reduction	Tool Development/ Acceptance	Neuse Regional Advisory Group

Tool Development/ Acceptance TAG

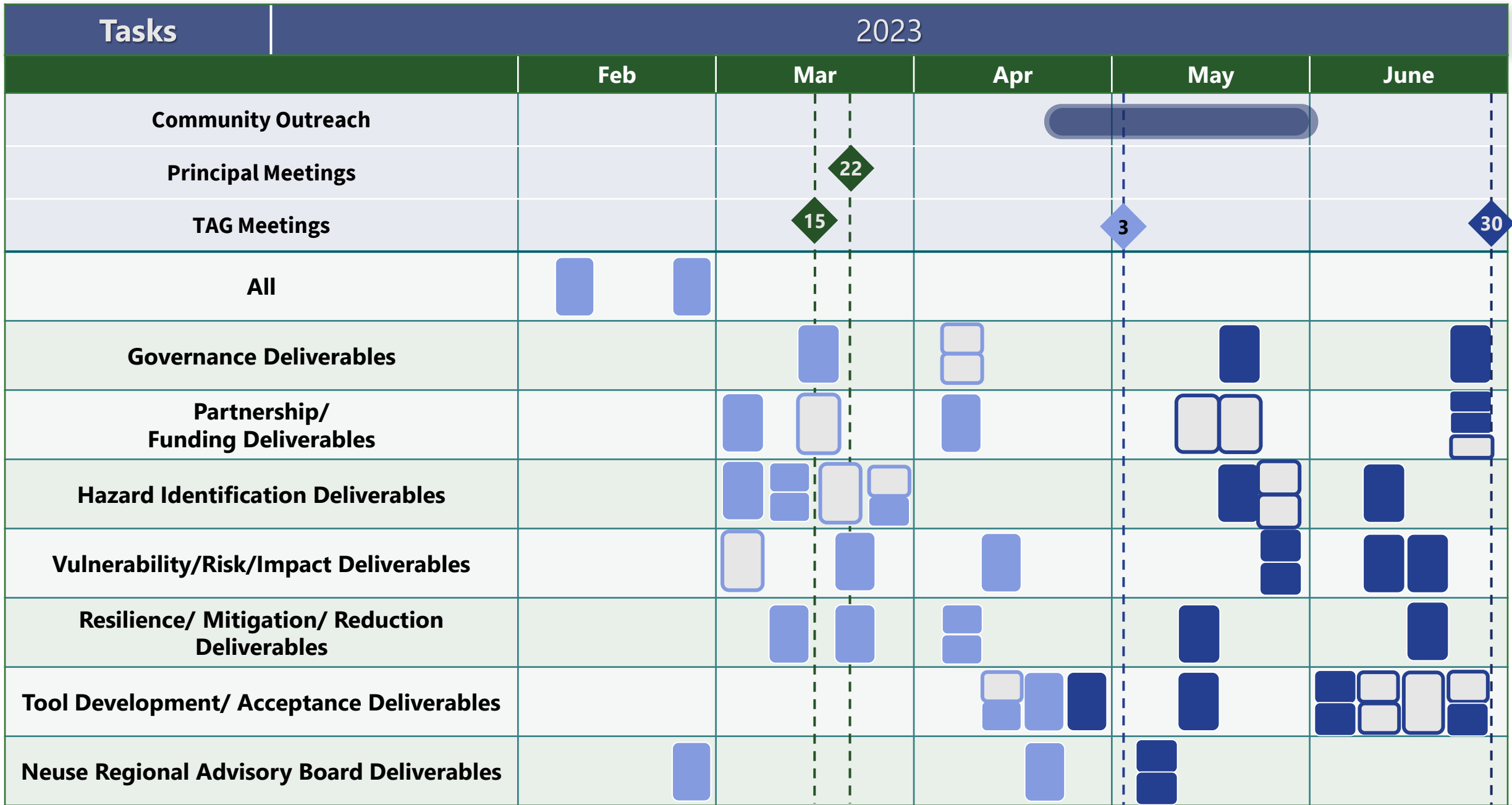
- Provide advisory input and feedback on the **business case and functional requirements of Blueprint tools, websites, and applications** to ensure efficient engagement and decision making.
- Focus on the usability of tools for end users incorporating a weighted understanding of people and receptors
 - People: population, historically marginalized communities, Tribes, etc.
 - Receptors: environment, agriculture, structures, infrastructure, commerce, etc.

Government		Environmental		Social		Neuse
Governance	Partnership / Funding	Hazard Identification	Vulnerability/ Risk/ Impact	Resilience/ Mitigation/ Reduction	Tool Development/ Acceptance	Neuse Regional Advisory Group

Neuse Regional Advisory Group

- Pilot river basin to implement and work through potential ideas for the Blueprint
- Provide input and feedback on **Neuse River Basin specific needs** and how to engage and utilize the information from the Blueprint at a river basin level most effectively and efficiently
- This group should be representative of the basin and is intended to serve as a pilot that will help define how future basins are incorporated into the Blueprint process.








Government		Environmental		Social		Neuse
Governance	Partnership/ Funding	Hazard Identification	Vulnerability/ Risk/ Impact	Resilience/ Mitigation/ Reduction	Tool Development/ Acceptance	Neuse Regional Advisory Group



Deliverables

Deliverables

Meetings

-  Potential timeline for community engagement
-  TAG kickoff meeting date
-  TAG meeting date in May
 - Color coordinates with deliverables that will be reviewed during meeting
-  TAG meeting date in June
 - Color coordinates with deliverables that will be reviewed during meeting
-  Approximate date deliverables are available for review
 - Color coordinates with meeting date where deliverables will be discussed by the TAG
-  Approximate date deliverables are available for review
 - Color coordinates with meeting date where deliverables will be discussed by the TAG
-  Approximate date deliverables are available for secondary TAG review
 - Outline Color represents meeting date where deliverables will be discussed by the TAG

Review Process



- TAG members will receive an email notification when a deliverable associated with their group is ready for review.
- After the 14-day review period, AECOM will track all comments received in a comment-response matrix.
- AECOM will have subject matter experts address comments in the matrix and provide recommendations on next steps.
- The completed matrix and synthesis will be provided to DEQ.
- AECOM will edit the deliverable and provide a revised version to DEQ.
- DEQ will review and approve.



Open Questions





Logistics for the day

Hope Morgan



Logistics for the day

- Morning meeting wrap up
 - Meeting notes
- 30 min Break - Grab lunch
 - 5 veggie sandwiches and 5 salads
- Make your way to the TAG rooms
 - Facilitators
 - Notetakers
 - Room locations

