North Carolina Flood Resiliency Blueprint

NCBIWA May 9th, 2024



Shrikar Nunna, Director of Legislative Affairs NC Dept of Environmental Quality

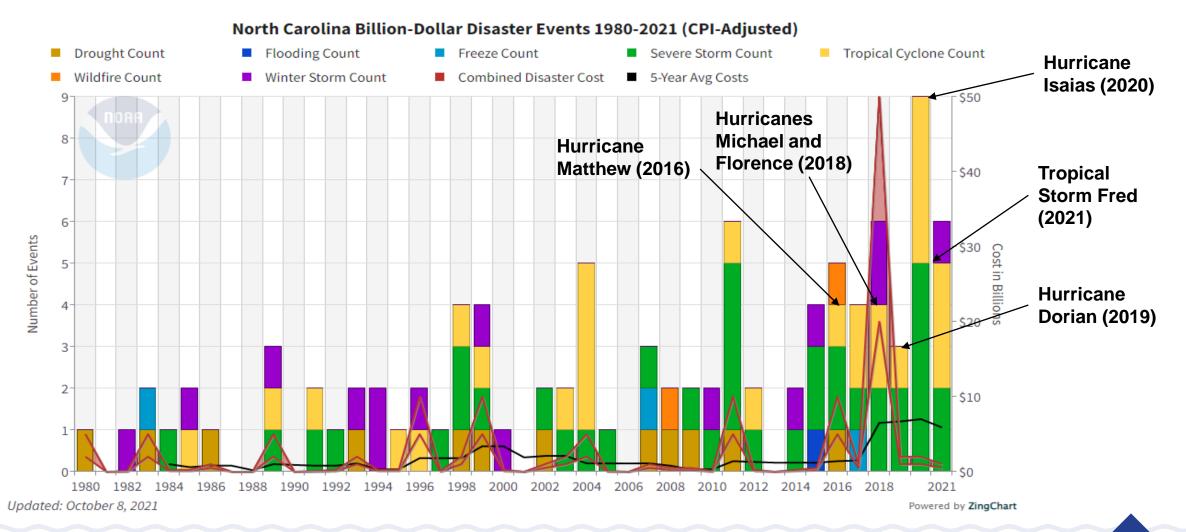


Background



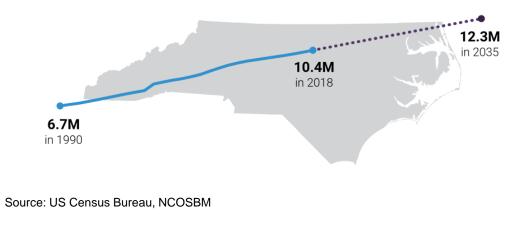
Billion-Dollar Disaster Events



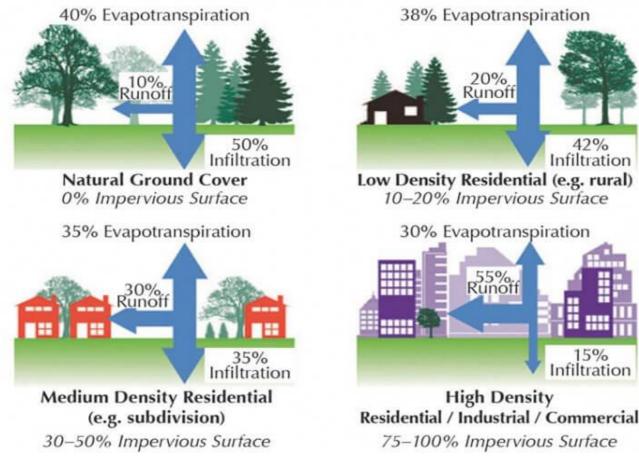




North Carolina population growth 1990-2035



EFFECTS OF IMPERVIOUSNESS ON RUNOFF AND INFILTRATION



Source: The Watershed Institute



What is Blueprint?

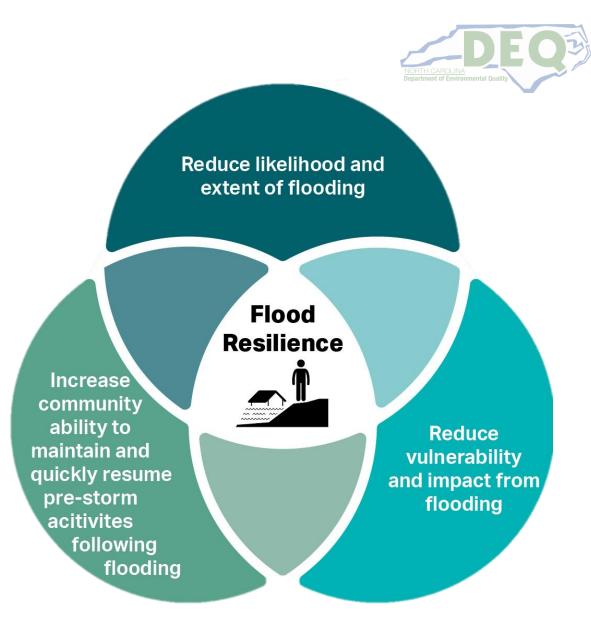
Purpose and Goals



Blueprint – Core Outcomes

The three core high level goals that all actions are evaluated against:

- 1.Reduce likelihood and extent of flooding
- 2. Reduce vulnerability and impact
- 3. Increase community ability to recover and resume pre-storm activities



Blueprint Components



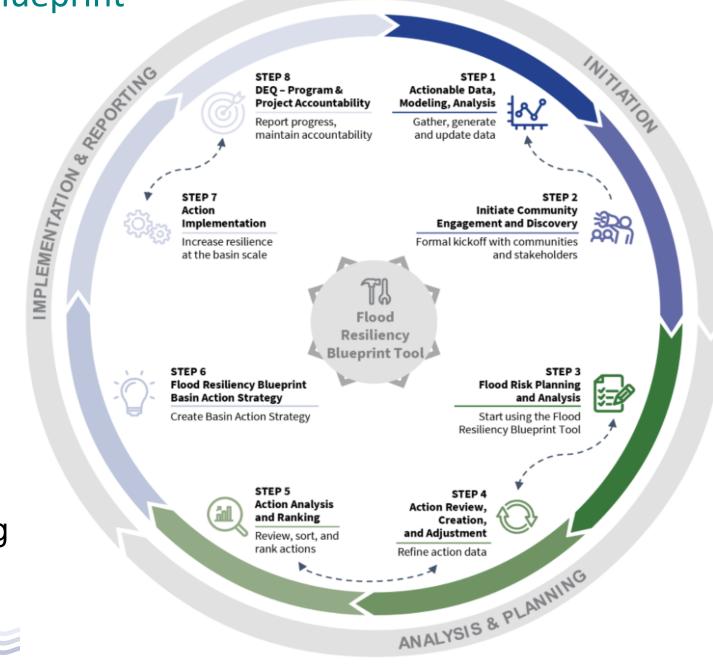
Methodology	Develop a standardized statewide methodology for visualizing flooding and prioritizing and selecting flood mitigation strategies for future implementation. Blueprint Document
Tool	Develop an online decision support tool which guides state, county, municipal, and others to identify and select flood mitigation strategies responsibly, systematically, equitably, and transparently. Blueprint Tool
Strategies	Develop community and basin-specific risk management strategies to identify and address flooding for NC communities. River Basin Action Strategies
Implementation	Implement Blueprint and flood resiliency projects and policies



Looking Ahead

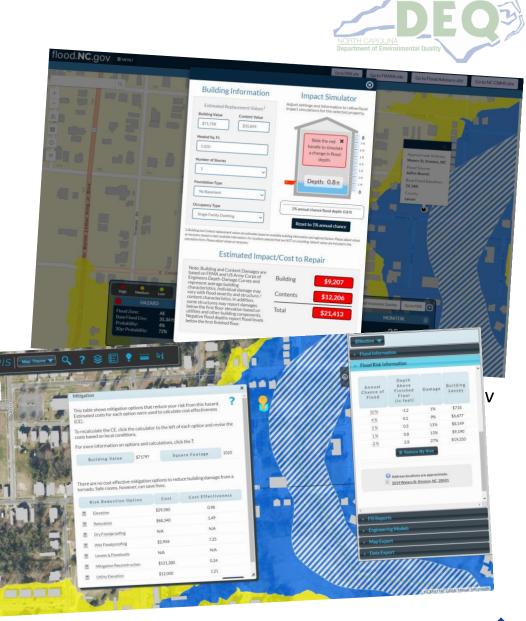
North Carolina Flood Resiliency Blueprint-Differentiators

- Future Conditions Modeling
- Detail Profiles (hazard, community, actions, funding)
- Quantifiable Metrics
- Impacts (population, environment, structures, infrastructure, economy)
- Mitigation / Resilience Action Exploration
- ROI / Added Value
- Prioritization of Actions Ranking
- Matching Sources of Funding



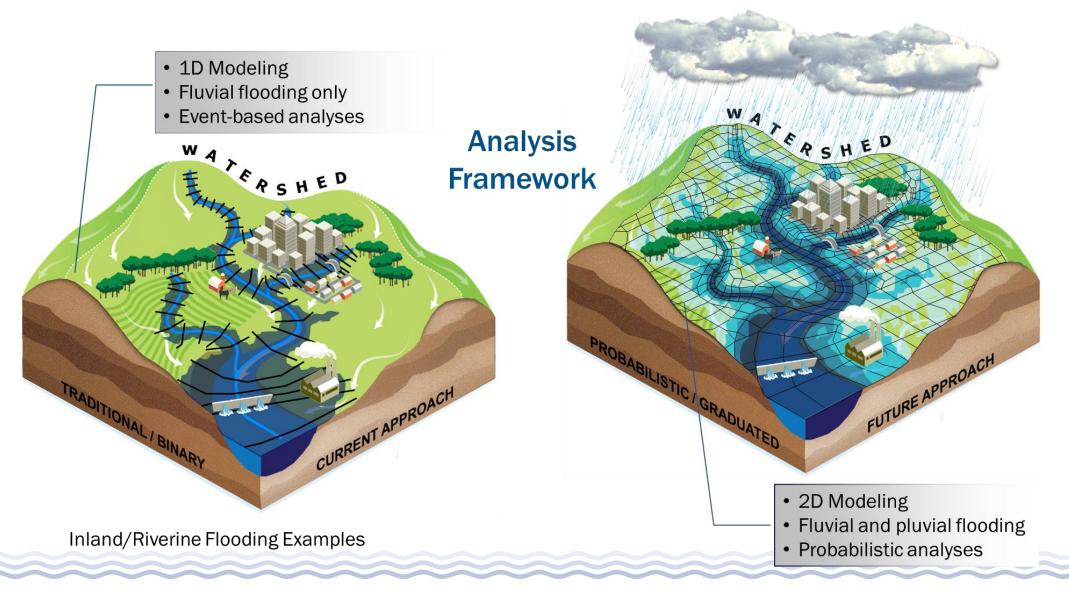
Blueprint Tool

- Expands on existing tools with new data and methodologies
- Integrates forecasted changes
- Allows for integration of future data and logic generated through multiple sources
- Is scalable (catchment to statewide)
- Is dynamic and improves as data and methodologies improve



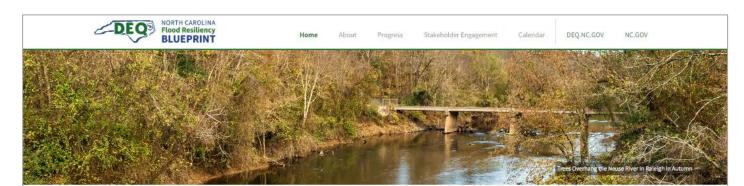
DATA DEVELOPMENT H&H Modeling Considerations





Website

https://ncfloodblueprint.com/



North Carolina Flood Resiliency Blueprint

The North Carolina Department of Environmental Quality is developing the first North Carolina Flood Resiliency Blueprint. The Blueprint is a statewide watershed planning effort to establish a framework and tools to assist local communities in decisionmaking related to reducing flood risk and increasing resilience.

Working with interagency partners and stakeholders, DEQ's Division of Mitigation Services plans a comprehensive approach to identify problems, address barriers, and prioritize solutions.

NC Flood Resiliency

Blueprint Principal

Advisory Group Kickoff

UPDATES.

Second Meeting of the

Sign Up for Updates

Enter your email address

Technical Advisory Groups





NC Flood Resiliency **Blueprint Technical** Advisory Group Kickoff

Subscribe



Jun

30

Fri

(a) (f) (in) (a)

UPCOMING EVENTS

Neuse Basin Advisory Group

Show Full Calendar

10:00 AM to 5:00 PM

Meeting 3

Raleigh

Contact Us JOSEPH PITCHFORD **(919) 836-6169** joseph.pitchford@ncdenr.gov
 interference
 interference

NC Department of Environmental Quality 217 West Jones Street Raleigh, NC 27603 877-623-6748









Shrikar Nunna

Director of Legislative Affairs <u>shrikar.nunna@deq.nc.gov</u>

Stuart Brown

Blueprint Supervisor <u>stuart.brown@deq.nc.gov</u>