



## NORTH CAROLINA

Department of Transportation



# What Makes People and Sectors Adopt Living Shorelines?

Living Shorelines Tech Transfer Workshop

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October 8<sup>th</sup> , 2019

# Five Areas of Focus for Transportation:

- Need
- Incentives
- Tools
- Partnerships
- Demonstration



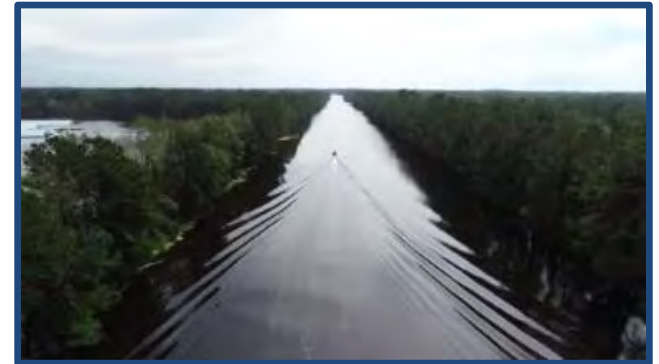
# NCDOT Department of Transportation

- Multi-Modal Department of Transportation
- 80,000 Miles of Highway
- 10,400 Waterway Bridges
- 3% of Highway System is under an elevation of 10 feet.
- 590 miles of Roadway is within 100 feet of coastline.



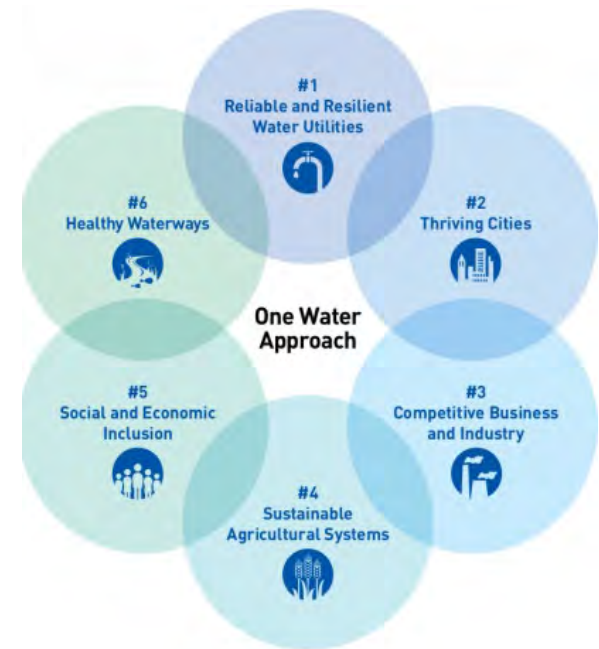
# Need

- Extreme Events are on the increase.
- Sea Level Rise.
- Nuisance /Sunny Day Flooding
- Risk Assessment/Stress Testing



# Incentives

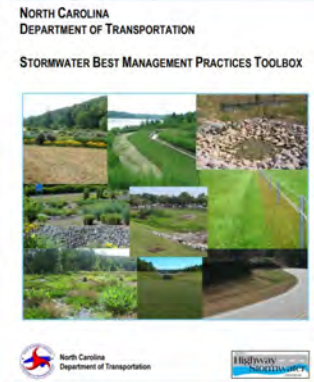
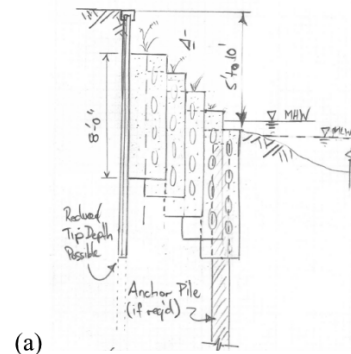
- Directive – State and Federal
  - Executive Order 80
  - NPDES Permit
  - Resilience Planning
- Philosophy – One Water



*Valued outcomes and arenas of action  
outlined in the Roadmap for One Water,  
U.S. Water Alliance, 2016*

# Tools

- Site Selection and Prioritization
- Training – Peer Exchange
- Guidelines
- Design Methods
- Permit Coordination
- Financing Options



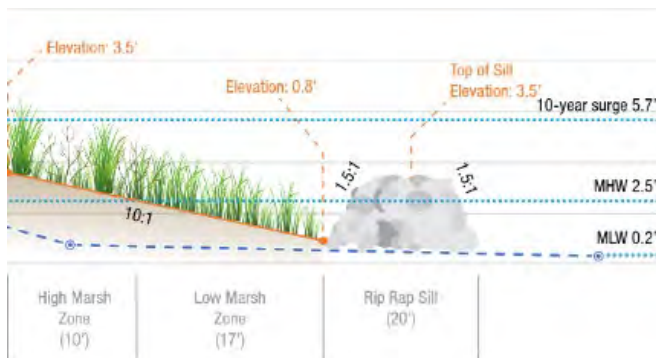
# Partnerships

- Attrition, loss of staff and design have reduced partnership with resource agencies and project partners.
- Building relationships internally and with Communities, University System, Resource Agencies, FHWA, Non-Profit Groups is critical.



# Demonstration

- NCDOT Retrofit Program
- Shovel Ready Projects
- Triple Bottom Line
- Resilience – Minimize Disruptions





# Thank You!



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