

David Miller, DCHC MPO
Ramona McGee, Southern Environmental Law Center
Ron Sutherland, Wildlands Network

#### **Presentation Overview**



1- Background on wildlife crossings

2 – Local ongoing wildlife crossing planning efforts (Triangle Connectivity Collaborative and Wildlands Network)

3 - DCHC MPO's wildlife crossing planning process

4 – Discussion and questions

#### Background on Wildlife Crossings



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#### Background on Wildlife Crossings

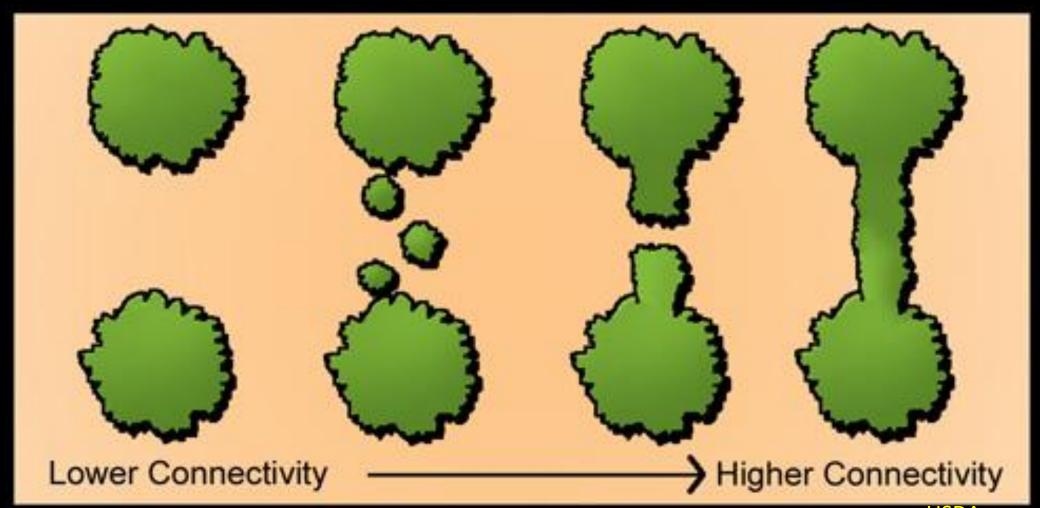


#### **Background on Wildlife Crossings**

Ron Sutherland, Wildlands Network



## Habitat Connectivity



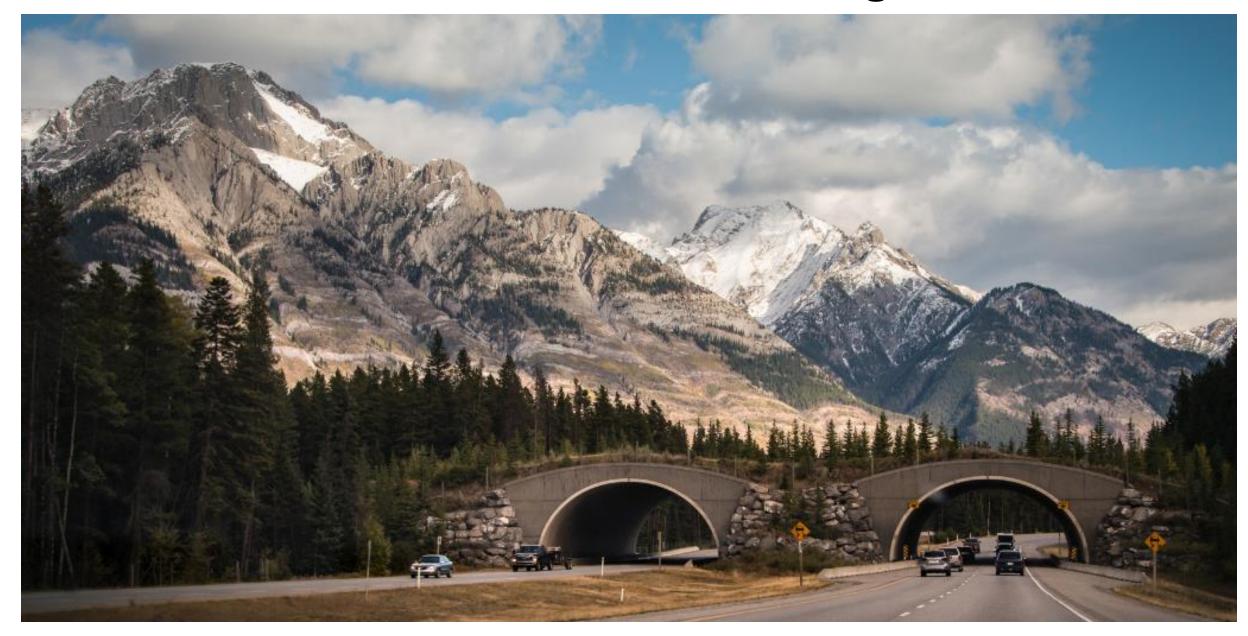




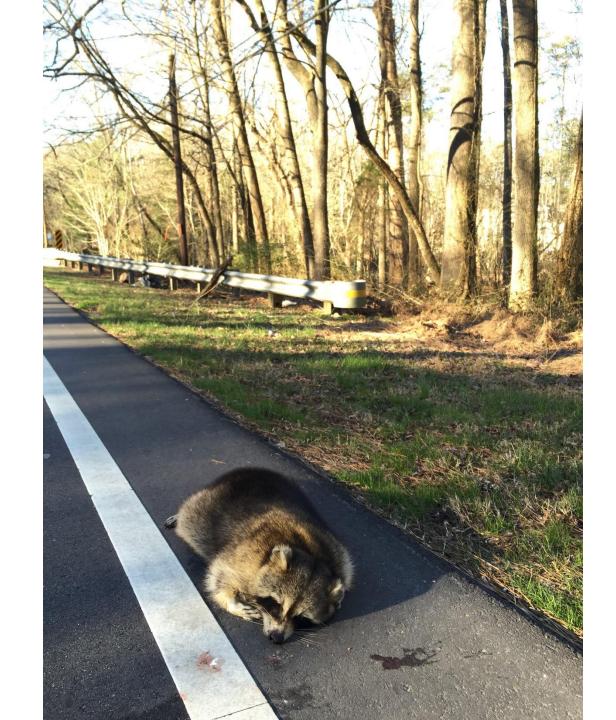
## Wildlife Corridor



## Wildlife Road Crossing



Roads are key barriers















Hitchcock Center

New wildlife tunnel for small animals in western NC



#### Modifications to normal structures



#### Local Ongoing Wildlife Crossing Planning Efforts



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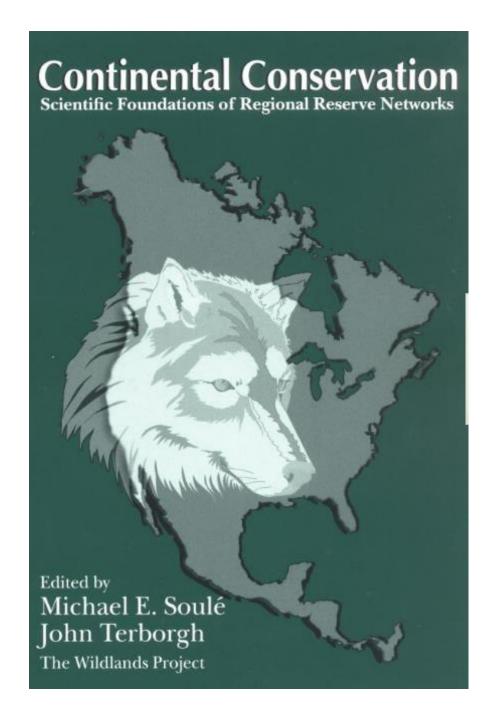
#### Local Ongoing Wildlife Crossing Planning Efforts



#### **Wildlands Network**

Ron Sutherland, Wildlands Network









#### Prioritizing Wildlife Road Crossings in North Carolina

To Reconnect Wildlife Habitat and Improve Road Safety

September 2022



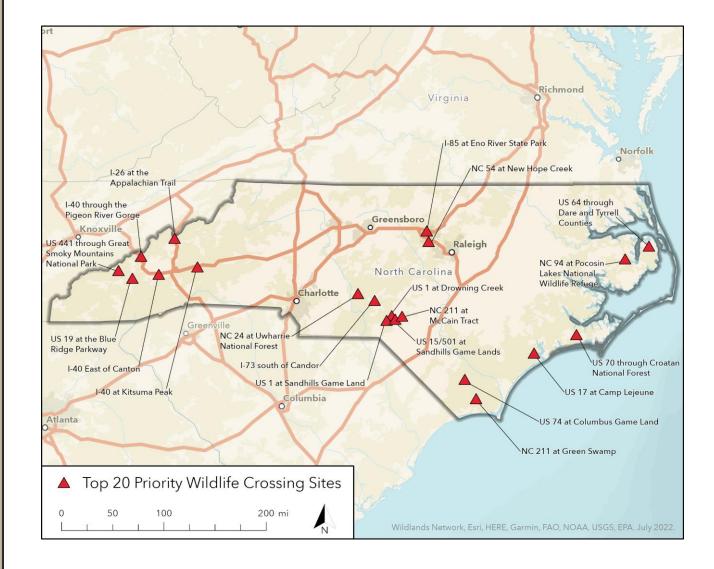
Bear running down road near Alligator River National Wildlife Refuge. Photo: Houston Bumgarner

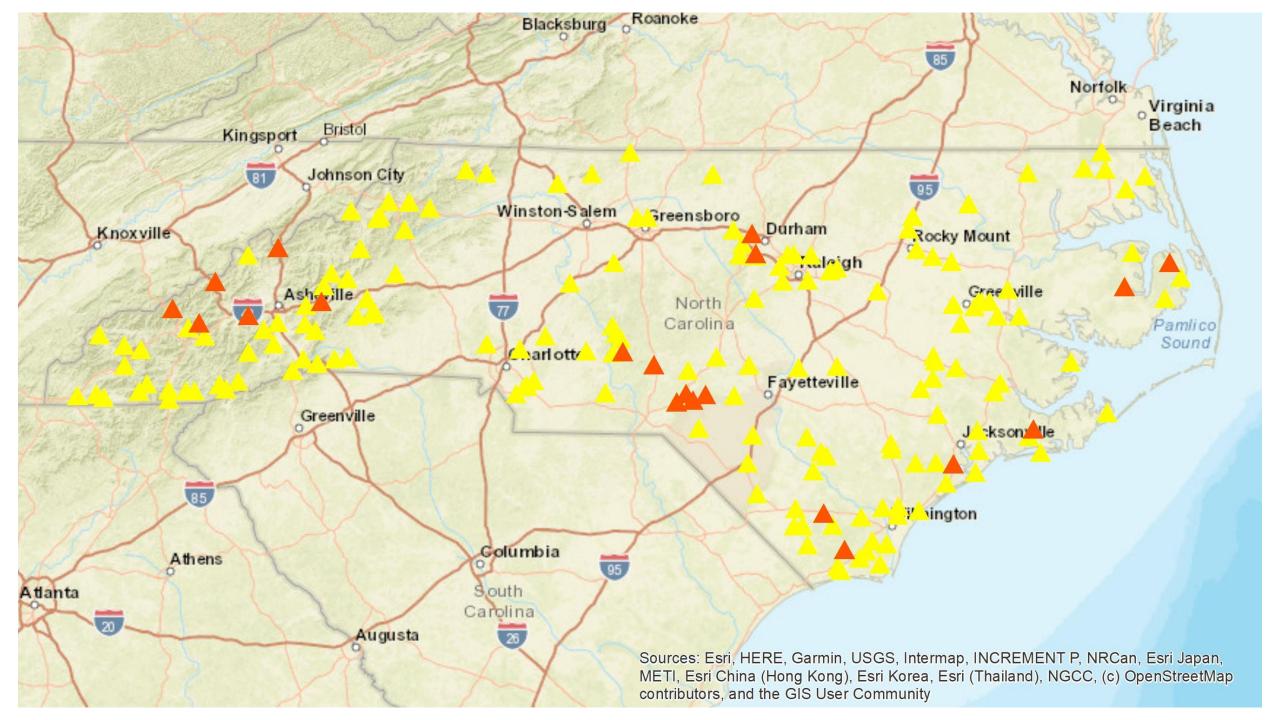
Dr. Ron Sutherland - Chief Scientist

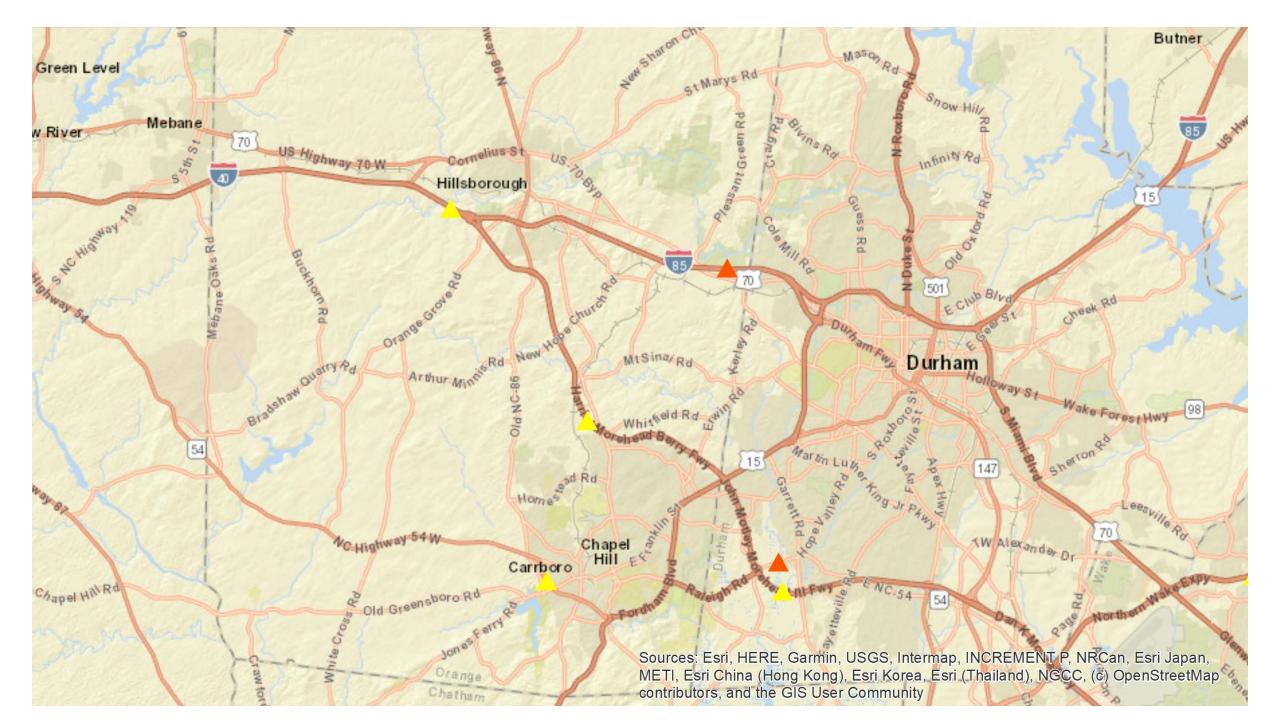
Alex Vanko - GIS Specialist

Nikki Robinson - North Carolina Project Manage

## Read the report at wildlandsnetwork.org







# **Evaluating the use of New Hope Creek bridges by wildlife**



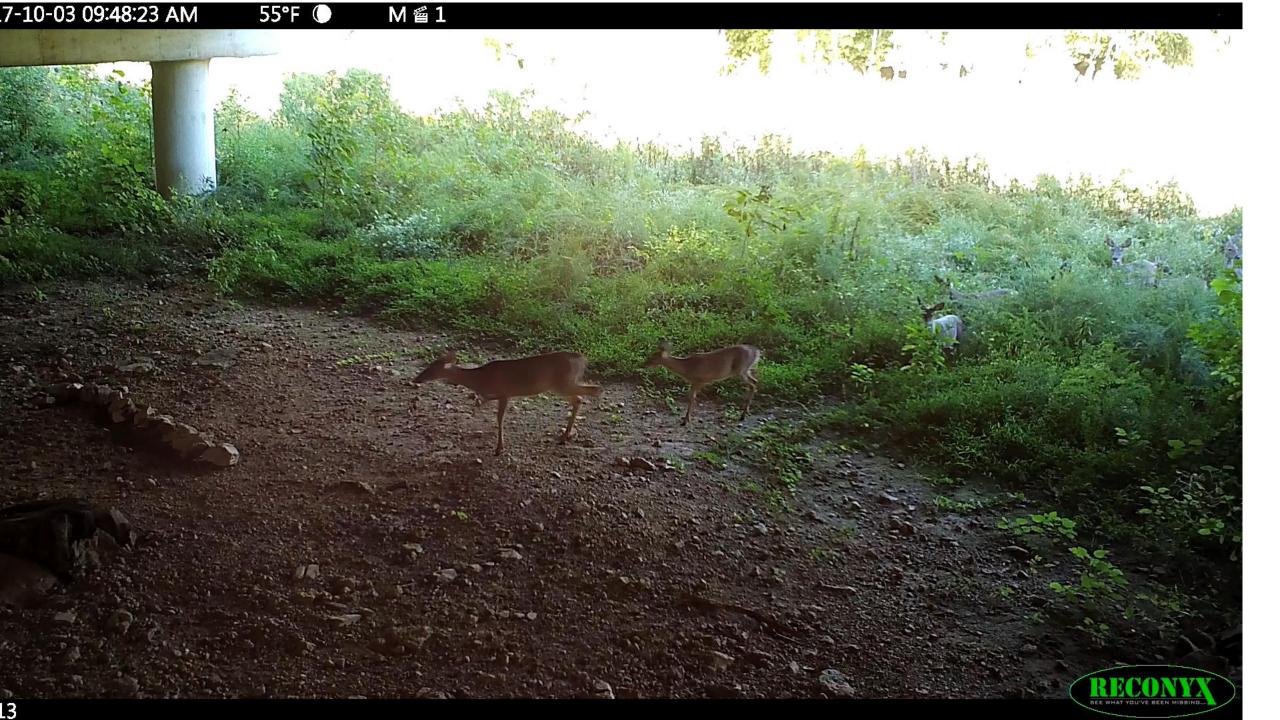












### NC 54









## Local Ongoing Wildlife Crossing Planning Efforts



### **Triangle Connectivity Collaborative Transportation Workgroup**

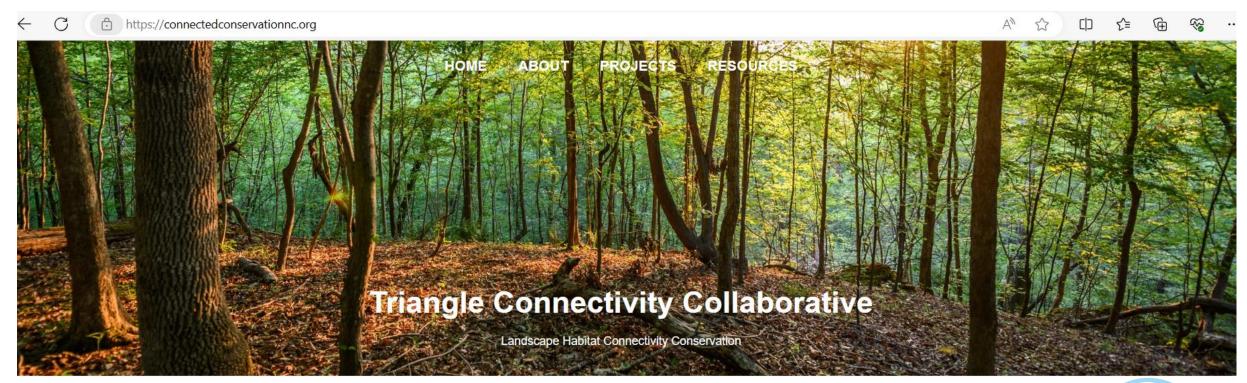
Ramona McGee, Southern Environmental Law Center



Triangle Connectivity
Collaborative:
Habitat Network
Analysis &
Transportation
Planning

Ramona McGee Southern Environmental Law Center















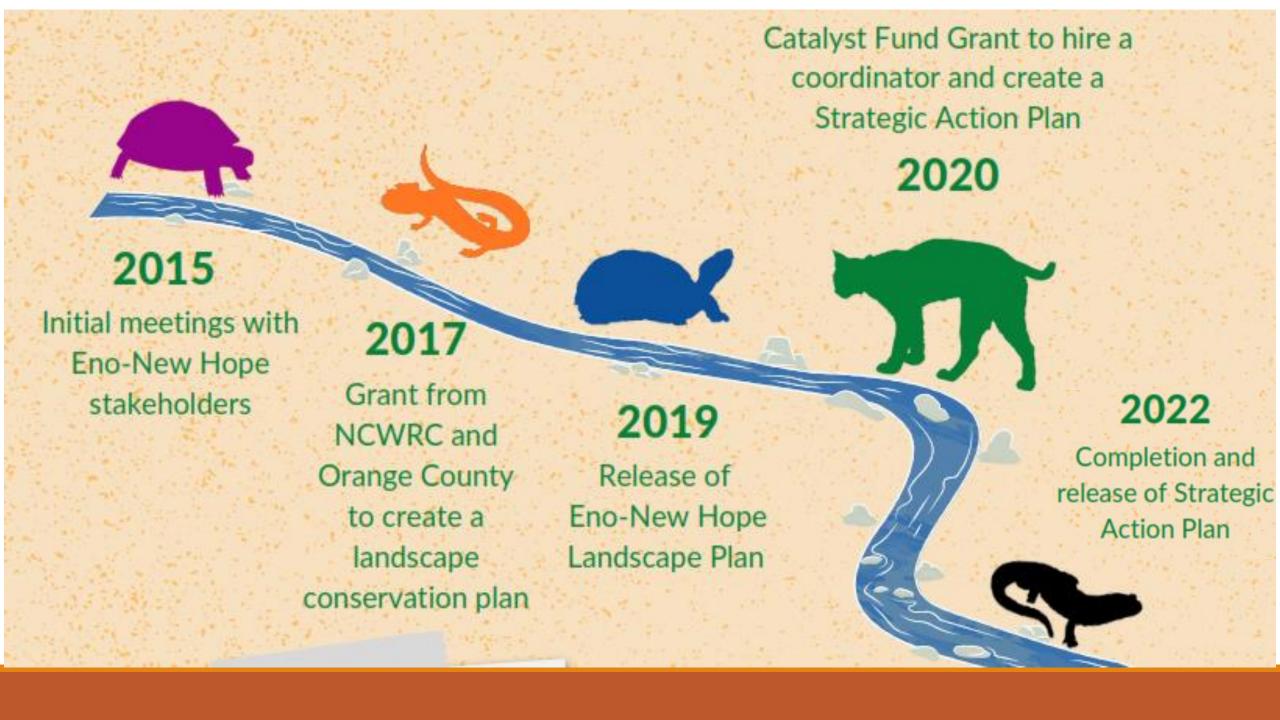






To conserve and restore landscape habitat connectivity that ensures long term protection and resilience of biodiversity and natural resources.





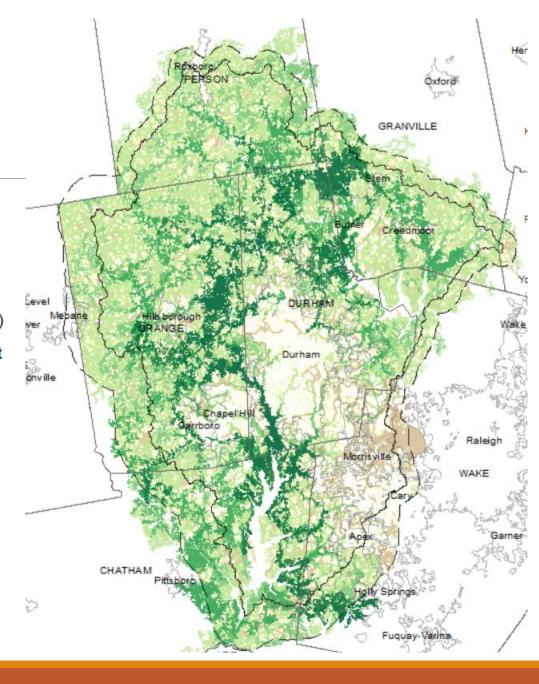
- PLAN WAS FUNDED BY THE NETWORK FOR LANDSCAPE CONSERVATION
- INVOLVED OVER 60 STAKEHOLDERS
- COMPLETED IN 2022



#### WHAT DOES THE DATA MEAN?

#### Legend

**Habitat Patches** Corridors **Background** Connectivity Priority Connectivity Priority Type 1-Highest Barrier (no color) 1-Highest 2-Higher 2-Higher Habitat fragment Non-habitat 3-High 3-High 4-Moderate 4-Moderate 5-Unranked 5-Unranked







## DCHC MPO's Wildlife Crossing Planning Process



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### NC and DCHC MPO Wildlife-Vehicle Crash Data



#### NCDOT's 2020-2022 Statewide Animal-Related Crashes report, shows that:

- 59,644 wildlife-vehicle crashes occurred
- 13 people were killed

- 2,679 people were injured
- \$183.3 million in property damage caused

## DCHC MPO Entire County Data (from NCDOT 2020-2022 report):

County	County Ranking (Crashes)	Total Crashes	Total Fatalities	Total Injuries	Damage
Chatham	21	936	0	31	\$ 2,756,642
Orange	30	801	0	48	\$ 2,557,150
Durham	35	638	0	38	\$ 2,032,220
Total		2,375	0	117	\$ 7,346,012

<sup>1. &</sup>lt;a href="https://www.ncdot.gov/initiatives-policies/safety/driving-safety/Documents/animal-crash-report.pdf">https://www.ncdot.gov/initiatives-policies/safety/driving-safety/Documents/animal-crash-report.pdf</a>

## Planning Process and Plan Elements



- 1. Identify wildlife crossing sites in the Durham urbanized area.
- **2. Visit, evaluate and develop recommendations** for existing bridge and culvert infrastructure at identified wildlife crossing sites.
- **3. Coordinate with key stakeholders** (i.e., NCDOT, member jurisdictions, local land trusts, conservation groups) as sites are identified and recommendations developed.
- 4. Administer a public engagement process to gather feedback on recommended projects.
- **5. Develop a funding strategy and identify funding sources** to help deliver wildlife crossing recommendations.
- **6. Adopt the recommendations in local and state transportation planning (SPOT, STIP, CTP) and MPO planning (Wildlife Crossing Plan, CTP and MTP)** so that all new road and bridge projects that cross wildlife corridors (or core areas) are informed by the recommendations from the start.
- 7. MPO Board and NCDOT BOT adopt relevant projects into MTP and CTP. Local councils and county board of commissioners adopt relevant changes to local ordinances.

## **On-site Assessments**



- Determine type of structure (bridge, culvert, etc.)
- Photographs
- Width and vertical clearance of structure
- Visible daylight through the structure
- Waterways / flooding potential
- Evidence of wildlife (tracks, roadkill)
- Existing wildlife crossing solutions (dry paths, fencing, raised platforms, etc.)
- Existing barriers for wildlife passage (rocks, debris, water, road/structure noise, etc.)
- Wildlife crossing recommendations



Old Chapel Hill Road at New Hope Creek in Durham County, DCHC MPO



Minnesota DOT, P. Cramer

## **Anticipated Timeline**



The existing and ongoing wildlife crossing planning by the Triangle Connectivity Collaborative Transportation Workgroup and Wildlands Network has positioned DCHC MPO to develop the plan in one year.

#### **Key dates:**

- MPO Planning: January 2024 December 2024
  - Site identification, visits and evaluations; data analysis; development of recommendations;
     public engagement; CTT guidance; review by MPO TC and Board
- Request to Release Draft for Public Comment: TC September 10; Board September 24
- Public Engagement and Comment Period for Draft Plan: September 24 to October 21
- Plan Adoption
  - TC considers recommending the MPO Board adopt the plan: November 5
  - o MPO Board considers adoption of the plan: November 19
- Incorporate Recommendations into CTP update: December

## Anticipated Public Engagement Timeline



### September 24 to October 21, 2024

#### MPO Board Meeting and Release for 21-Day Public Comment Period (September 24)

- Advertisement via social media, email blast via Constant Contact, DCHC MPO website, press release to be shared by MPO members, and newspapers ads (*Triangle Tribune*, Que Pasa)
- Survey and feedback form to accompany draft plan

#### **Public Engagement Opportunities**

- October 15 Virtual information session (Zoom platform for accessibility)
- October 16 Public open house in Durham County (location TBD)
- October 17 Public open house in Orange County (location TBD)
- October 21 Public open house in Chatham County (location TBD)

## Discussion & Questions



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# Discussion & Questions

## Additional Information



### **Project Contacts:**

David Miller – <u>david.miller@dchcmpo.org</u>
Madeline Galliano – <u>madeline.galliano@dchcmpo.org</u>

### **Project Webpage:**

<u>www.dchcmpo.org/what-we-do/programs-plans/special-studies/wildlife-crossing-planning-study</u>