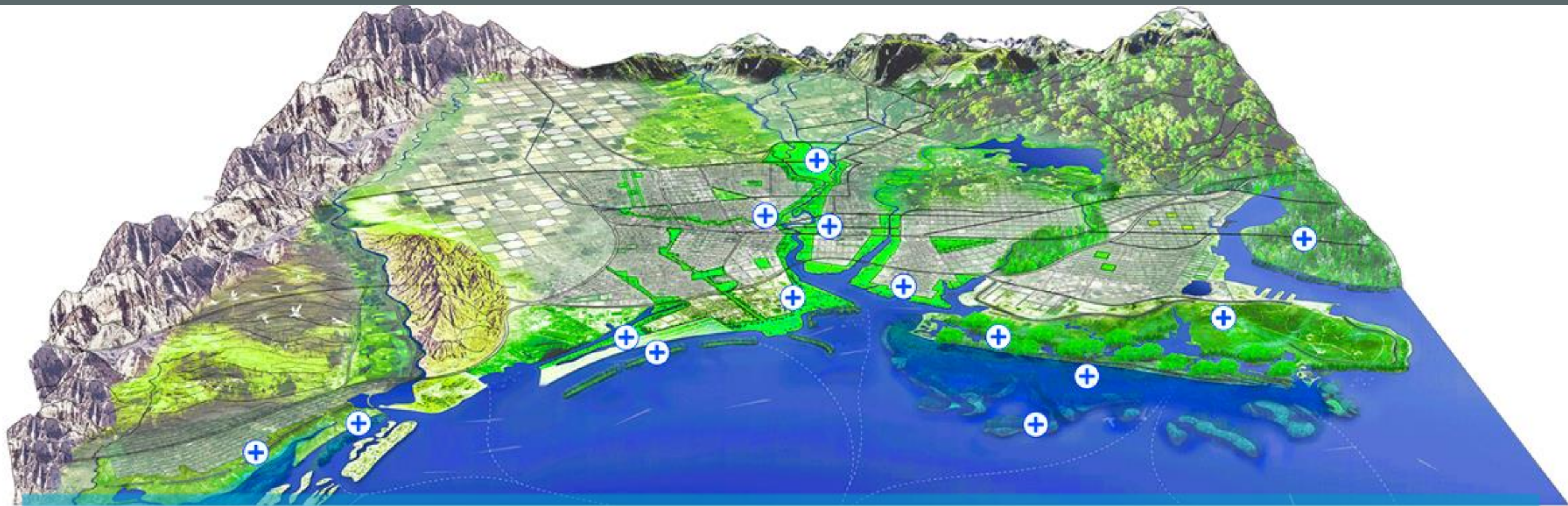


Helping Nature Help Us: Co-Benefits of Environmental Solutions



Lora Eddy
The Nature Conservancy

Lora Eddy is a coastal geologist working for The Nature Conservancy in North Carolina as their Coastal Engagement Coordinator. She has spent her career working with coastal communities in Florida, Oregon, and Washington on environmental permitting, regulation, planning, and stormwater topics. Since joining the Conservancy in 2016, she has brought this knowledge and experience to the Conservancy's Coastal Resilience project to help communities examine nature's role in reducing coastal hazards. She is working with several communities in eastern North Carolina to design decision support tools that enable communities to evaluate the role that coastal habitats play in risk reduction and adaptation. She holds a bachelor's degree in geology from Old Dominion University.



Coastal Forests

Oyster Reefs

Coastal Marshes

Floodplains

‘In areas where marshes were intact there is significant reduction in damages.’

Wetland Benefits

\$625 million in damages prevented.



Information provided by The Nature Conservancy

**Coastal
Wetlands
22% less
damages**



The Tool(box)

North Carolina

Find address or place

Imagery ▼

+

-

Measure

Zoom to Extent

Create Map

Save & Share

Tour

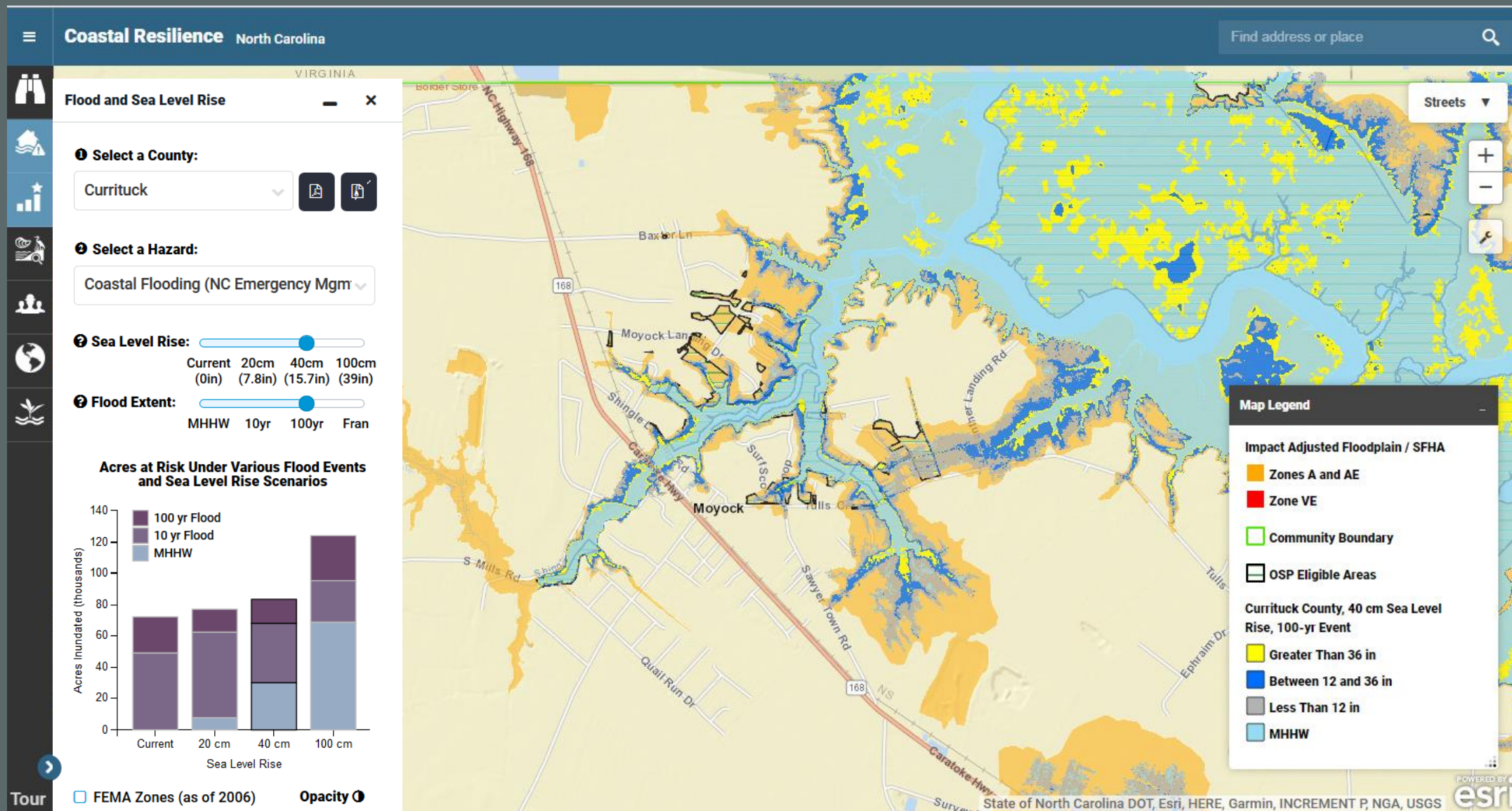
POWERED BY
esri

Earthstar Geographics

The screenshot displays the Coastal Resilience web application interface. At the top, a dark blue header contains the 'COASTAL Resilience' logo on the left and the title 'The Tool(box)' in large white text. Below the header, a navigation bar shows 'North Carolina' with a search bar on the right. The main area is a satellite map of a coastal region. On the left, a vertical toolbar with a yellow highlight contains icons for Imagery, Elevation, Risk, Wetlands, and other data layers. On the right, a yellow-bordered menu is open, showing options: 'Imagery' (selected), 'Measure', 'Zoom to Extent', 'Create Map', and 'Save & Share'. The bottom of the interface features a teal banner with the 'The Nature Conservancy' logo on the left, the URL 'maps.coastalresilience.org/northcarolina/' in the center, and 'POWERED BY esri' and 'Earthstar Geographics' logos on the right.



Coastal Flood & Sea Level Rise





**Restoration
Explorer**



**Living
Shorelines**



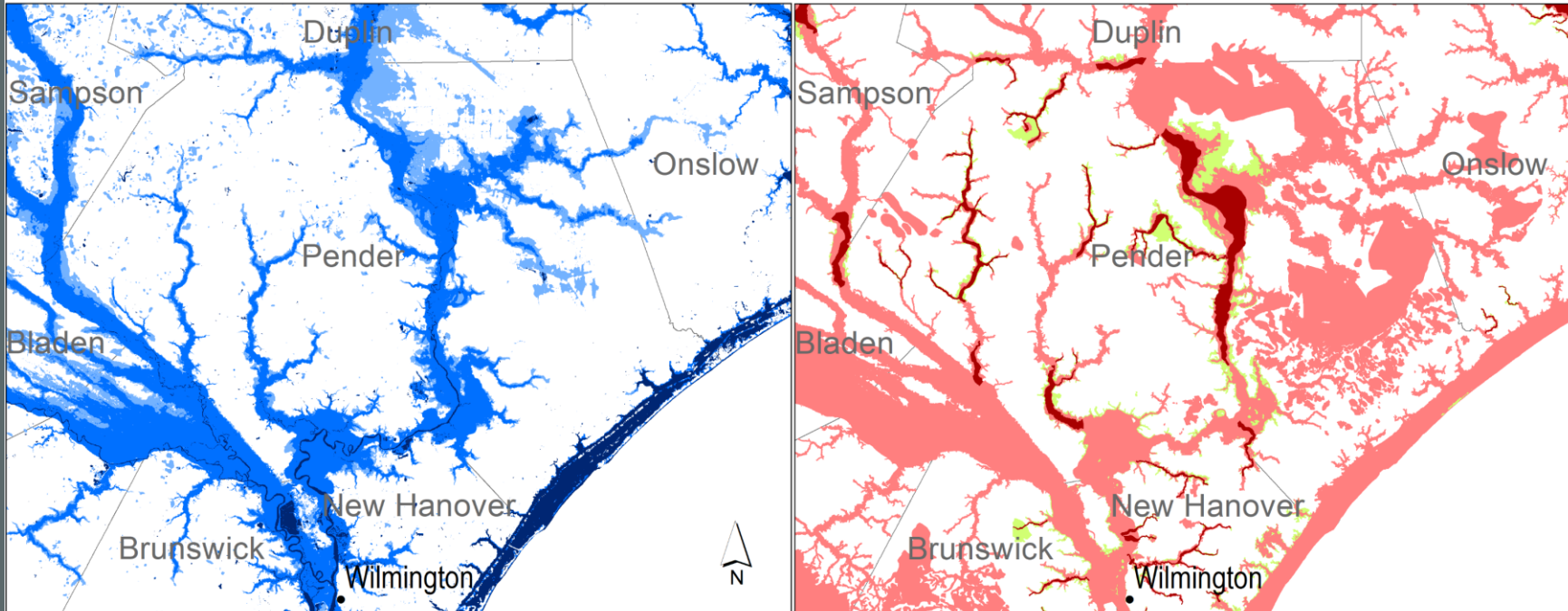
**Community
Rating
System**

Detected Flooding
(Hurricane Matthew 2016, Hurricane Florence 2018)

*The Nature Conservancy,
manuscript in preparation*

Mapped Flood Hazard

NCDEMS



■ Flooded 2x
■ Flooded 1x
■ Permanent water

0 10 20 Km

■ Floodway
■ 1% annual chance
■ 0.2% annual chance

