South Carolina Office of Resilience

April 2025

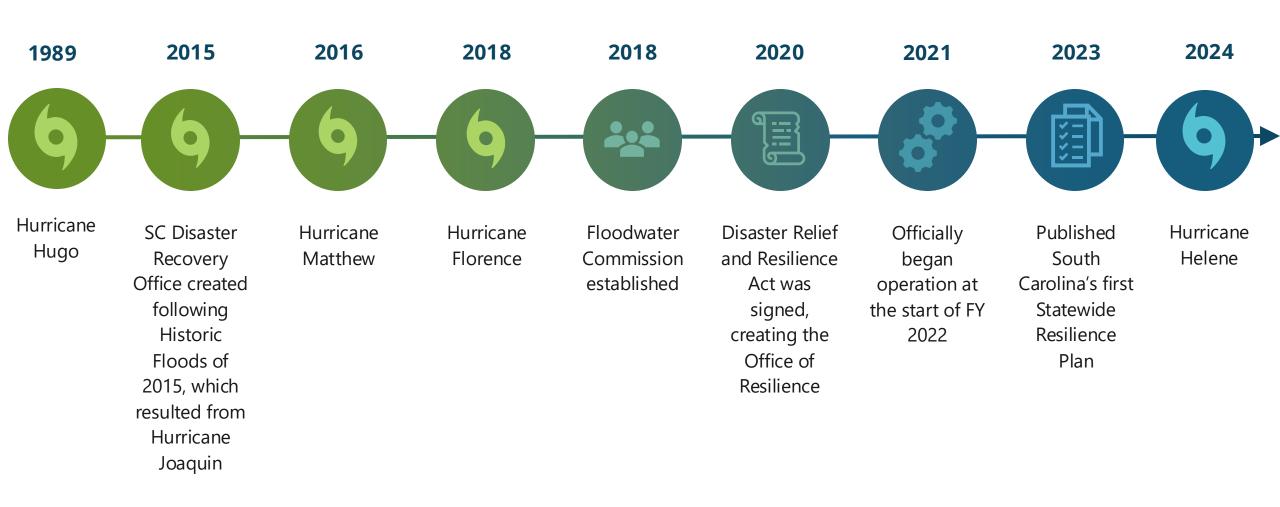


Mission

SCOR lessens the impact of disasters on the communities and citizens of South Carolina by planning and coordinating statewide resilience, longterm recovery and hazard mitigation.



History



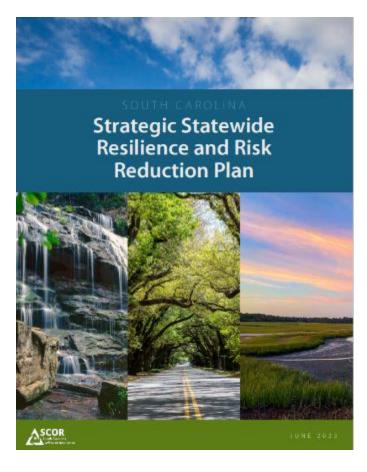
What is Resilience?

The ability of communities, economies, and ecosystems to anticipate, absorb, recover, and thrive when presented with environmental change and natural hazards.

Resilience Planning and Implementation

Statewide Resilience Plan

The South Carolina Office of Resilience released the **Strategic Statewide Resilience** and **Risk Reduction Plan** (Resilience Plan) in June 2023. The Plan identifies major flood risks around the state and potential losses that could occur as a result of extreme weather events. The Plan guides state investment in flood mitigation and provides strategies for local governments to implement resilience into their communities in order to mitigate potential flood risks.



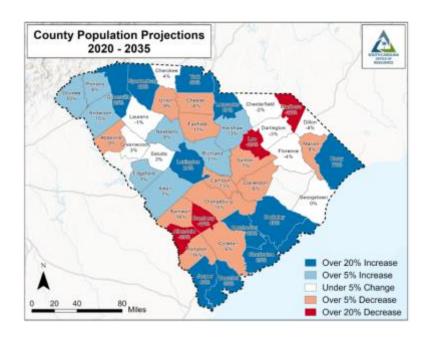
Planning Principles

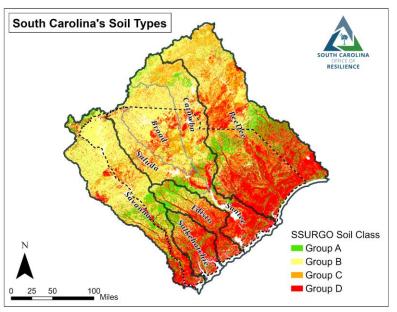
Use highquality data to assess risk and vulnerability, and make that data accessible

Coordinate at the federal, state, regional and local level

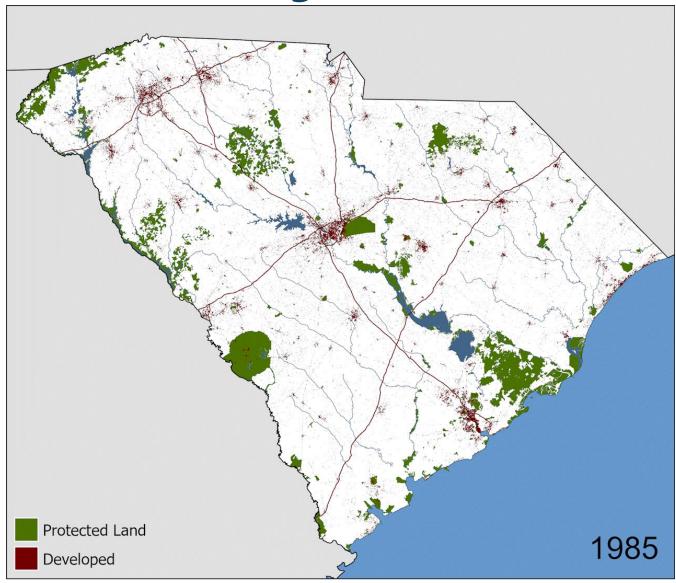
Recognize beneficial function of natural systems Plan and develop solutions based on watershed boundaries, not just jurisdictional

Recognize
Co-benefits
beyond flood
mitigation to
communities,
economies,
and
ecosystems

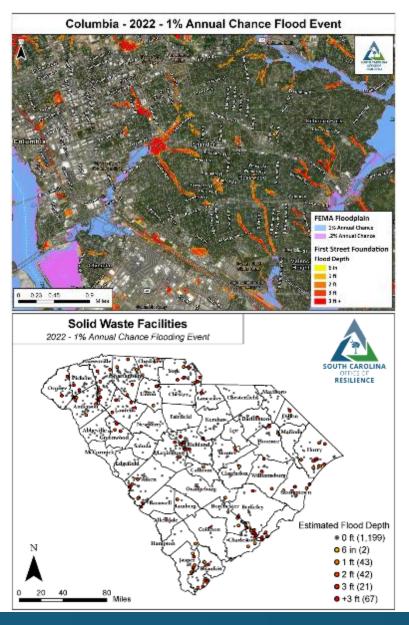


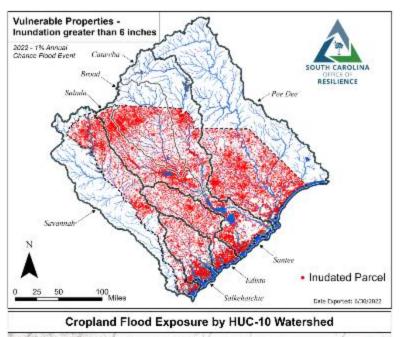


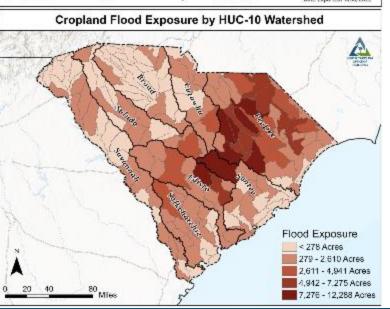
Planning Conditions

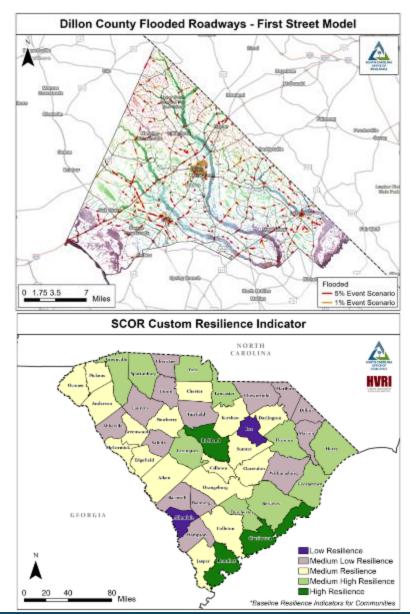


Risk and Vulnerability Assessment









Columbia - 2022 - 1% Annual Chance Flood Event SOUTH CAROLINA OFFICE OF RESILIENCE Trenholm Rd Kilbourn Park Devereaux Ro Columbia Shandon Blossom St Wheat St Duncan St Monroe St. Rosewood Heyward St Burney Dr Yale Ave **FEMA Floodplain** 1% Annual Chance .2% Annual Chance First Street Foundation Live Oak St Flood Depth Valenci Owens Field Skale Park Olympia 6 in Height 1 ft 2 ft 0.9 0.23 0.45 Miles 3 ft +

Resilience Plan Implementation

54 Individual Recommendations

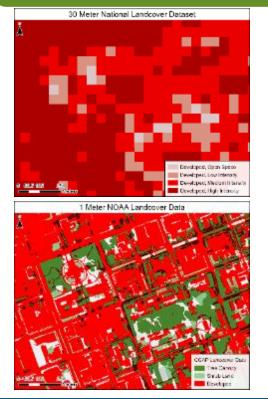
Watershed –Based Planning and Coordination





Photo Credit- Use permitted by the Gullah/Geechee Sea Island Coalition

Data Collection and Coordination



Grants

2 NFWF-National Coastal Resilience Fund projects (\$1.1M)

EPA -Solar for All (\$124M)

EPA - CPRG Planning (\$3M)

EPA - CPRG – Regional Conservation Coalition (\$421M, \$89M to SC)

Coordinated Land Conservation





Disaster Recovery

SCOR's Background in Disaster Recovery

SCOR has used three HUD Community Development Block Grant- Disaster Recovery (CDBG-DR) grants to repair, replace, or rebuild 3,459 homes damaged by hurricanes and flooding.





2015 SEVERE STORM \$126 million | 100% complete



Completion date: September 2021

Within 6-year allotment

2016 HURRICANE MATTHEW **\$95 million** | 100% complete



Completion date: December 2022

Within 6-year allotment

2018 HURRICANE FLORENCE \$72 million | 100% complete



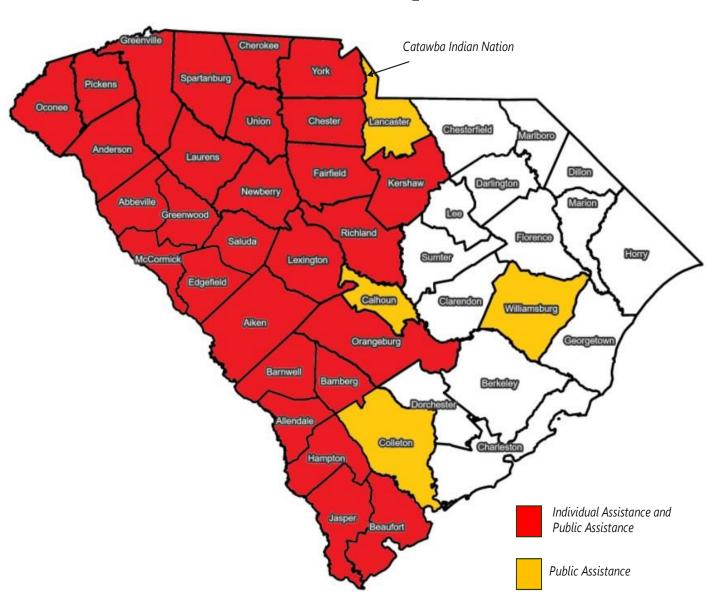
Completion Date: October 2024

Within 6-year allotment

*Note: Richland & Lexington counties received CDBG-DR grants for the 2015 Severe Storm and therefore were not served by our programs.

2024 Hurricane Helene Disaster Impact

- ☐ 28x counties and the Catawba Indian Nation were declared for FEMA Individual Assistance (IA)
- ☐ 452,000+ citizens have applied to FEMA for Individual Assistance
- ☐ Approximately \$2.1B in Unmet Needs
 - Housing- \$1.7B (81%)
 - Infrastructure- \$192M (9%)
 - Economic \$224M (10%)



SCOR Hurricane Helene Recovery Efforts

Disaster Case Management (\$22M FEMA DCMP Grant)

- Intake Numbers 4,053 total; 950+ applicants w/housing needs; 2,000+ referrals to other resources
- 4x Regional Field Offices

CDBG-DR (\$150M Allocation)

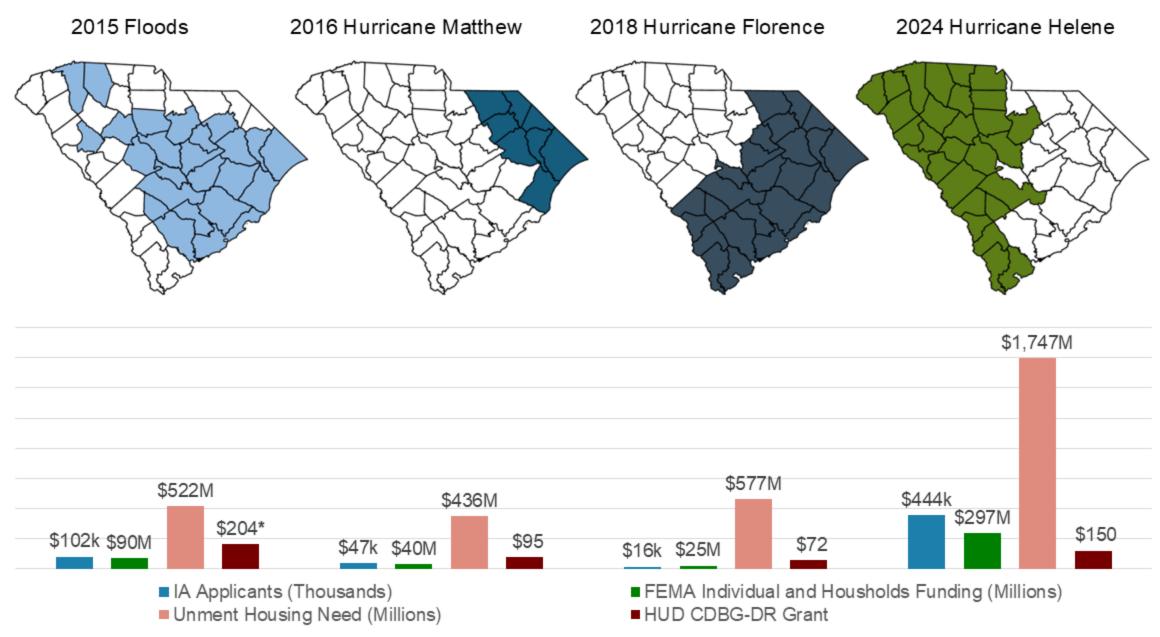
- Unmet Needs Assessment
- Developing Action Plan (Updated Guidance From HUD)
- Identifying State Most Impacted and Distressed (MID Counties)

Rapid Rebuild

- Procurement
- House Plans

Coordination and Cooperation

- Coordination with Voluntary Organizations Active in Disaster (VOADs), non-profits (Central Carolina Community Foundation OneSC Fund) and others (Google)
- Agency Coordination: SCEMD, SC Housing, etc.



*Includes the sum of CDBG-DR Funds allocated to City of Columbia, Lexington County, and Richland County



Mitigation Department

Funding Sources & Programs:

CDBG-MIT

• Stormwater Infrastructure 27 projects

Voluntary Buyouts 6 projects

Plans & Studies22 projects

Federal Funds Match 8 projects

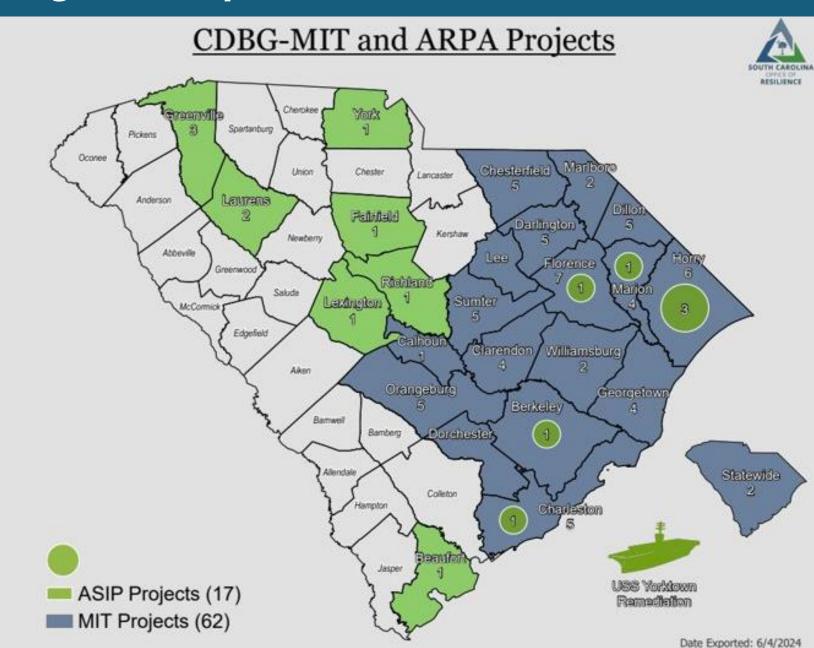
ARPA

• Stormwater Infrastructure 17 projects

USS Yorktown Remediation

South Carolina Disaster Relief and Resilience Reserve Fund (DRRF)

Stormwater Infrastructure 2 projects



Ehrhardt Tunnel – Charleston Medical District

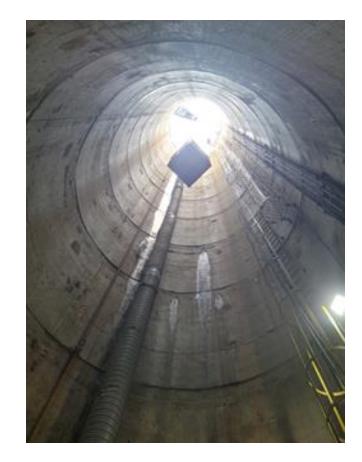


Project Details

- Funding Amount: \$10.5M
- Funding Source: HUD CDBG-MIT Infrastructure Program
- Status: Substantial Completion March 2024
- Previously, this area saw up to 4ft of flooding during some events and water would stand for days, causing interruption to vital healthcare services in the area.







Project Impact

According to the City, with the amount of rain on the morning of August 6th, there would have previously been flooding of 12-18 inches, making the road impassable.

Mingo Pond – Highway 17 in Georgetown County





Project Details

- Funding Amount: \$3.8M
- Funding Source: HUD CDBG-MIT Infrastructure Program
- Status: Substantial Completion
- Highway 17 is a primary evacuation route for Georgetown County/ Pawley's Island with flooding that has caused significant safety concerns in the past.





Project Impact

Previously, with this amount of rain, there would have been standing water on the Highway.

American Rescue Plan Act (ARPA)

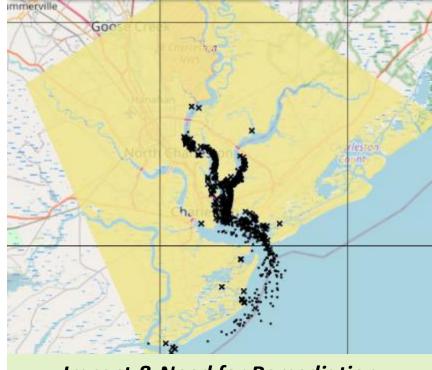
USS Yorktown Remediation

- SCOR tasked with studying the cost of removing or remediating all legacy contaminants
- 1,750,000 gallons of contaminated water and fuel on the ship



Phase I: Complete	Phase II: In Progress
 Estimated \$10,710,016 Environmental Assessment Immediate hull repair and tank cleanup, necessary of environmental remediation Phase 2 Bid Package 	 Estimated \$18M Cleanup of hazardous materials (fuels, PCBs, etc.) Cleanup engineering oversight Additional hull repair related to environmental remediation Remediation contingency

Oil spill trajectory for 2,100 gallons of heavy fuel oil released from the USS *Yorktown* run for 2 days



Impact & Need for Remediation:
Natural Resources, National Historic
Landmark, Port Economic Impact

Economics of Resilience

Flood Frequency

House 1 is in the

500-year floodplain

0.2% chance of flooding in a single year

6% chance of flooding over a 30-year mortgage

House 2 is in the

100-year floodplain

1% chance of flooding in a single year

26% chance of flooding over a 30-year mortgage

House 3 is in the

10-year floodplain

10% chance of flooding in a single year

95% chance of flooding over a 30-year mortgage



0.2% annual chance (500-year flood)

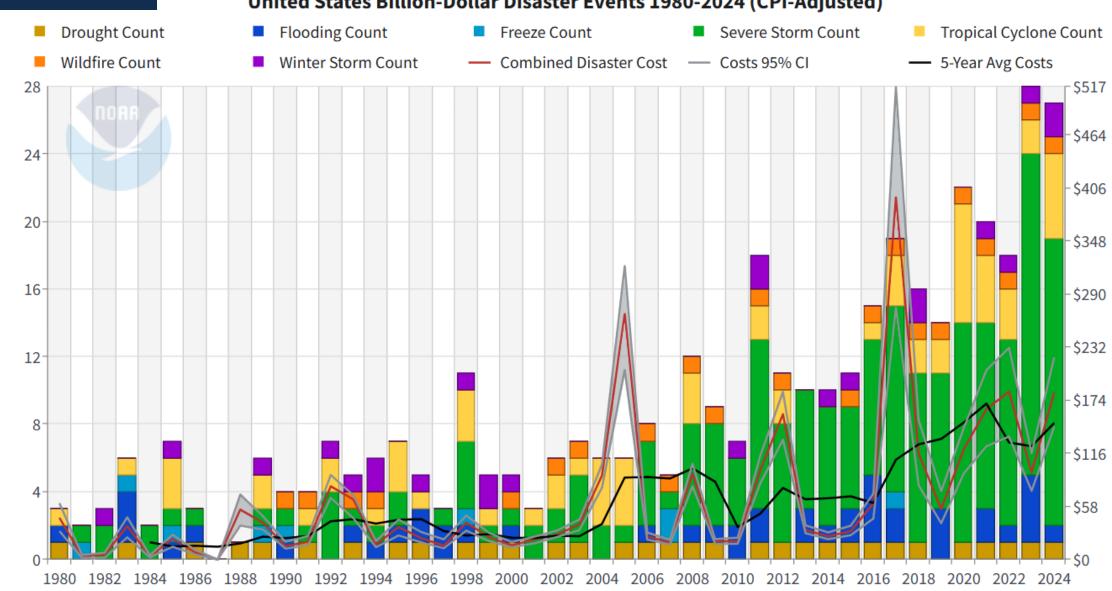
1% annual chance (100-year flood)

10% annual chance (10-year flood)





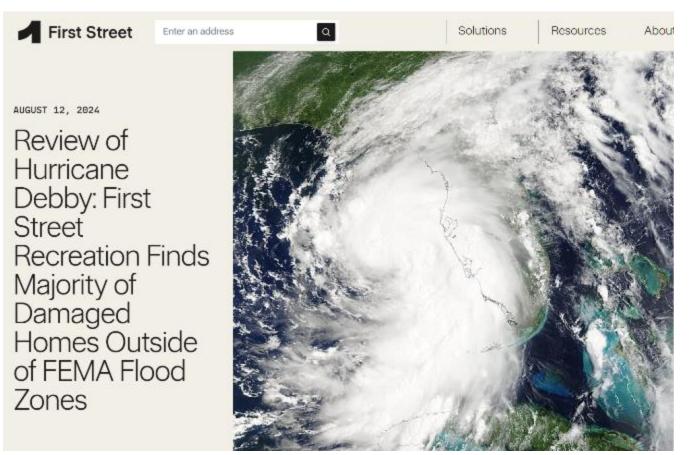
United States Billion-Dollar Disaster Events 1980-2024 (CPI-Adjusted)



Risk and the Flood Insurance Gap

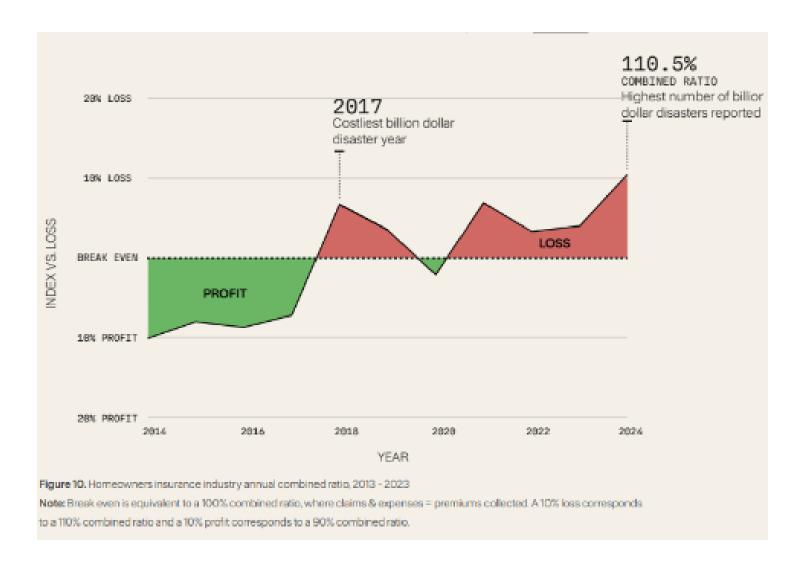
First Street found that more than 3 out of 4 Debby-damaged home

were outside flood zones.



- 78% of all properties flooded by Hurricane Debby, are outside of the FEMA Flood Zone, and are therefore unlikely to be covered by flood insurance.
- Hurricane Debby caused \$12.3 Billion in damage, with \$9.7 Billion outside of FEMA's Flood Zone.

The Insurance Crisis is a Risk Crisis







Questions? SOUTH CAROLINA OFFICE OF RESILIENCE