



## How the City of Tybee Island is Responding

Alan Robertson, Principal, AWR Strategic Consulting February 23, 2022





### What We've Done: Planning and Execution Amid Chaos

Oct 2016 Assessment and Plan

Sea Level Rise Adaptation Plan Master Plan Carrying Capacity Study

andemic

### Hurricane Matthew

#### Hurricane Irma & Maria

April 2018 DNR SPA Permit #460 - 19<sup>th</sup> Street stabilized dune

#### Hurricane Florence & Michael

Mar 2019 Phase 1 Dune Restoration

#### Hurricane Dorian

Dec 2019 DNR SPA Permit #473 - beach nourishment

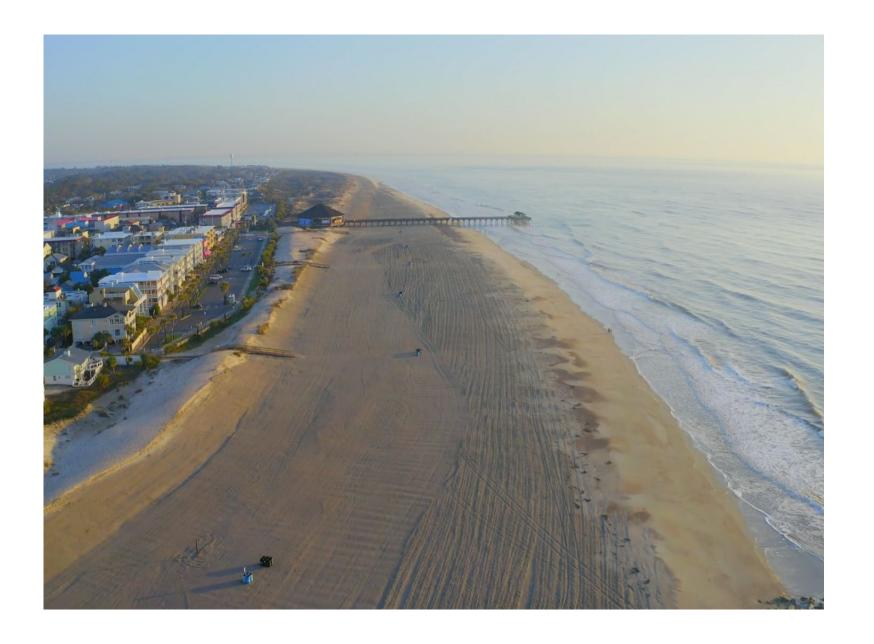
Jan 2020 Phase 1 Dune Vegetation

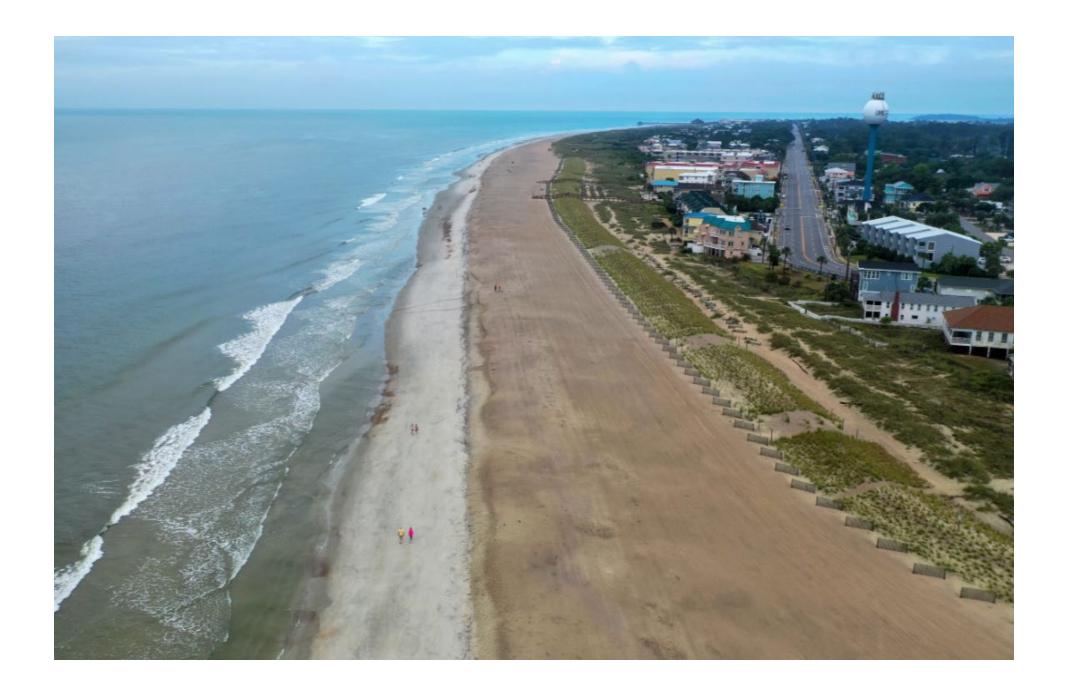
Feb 2020 Phase 2 Dune Restoration

April 2020 Phase 2 Dune Vegetation

#### Hurricane Isaias







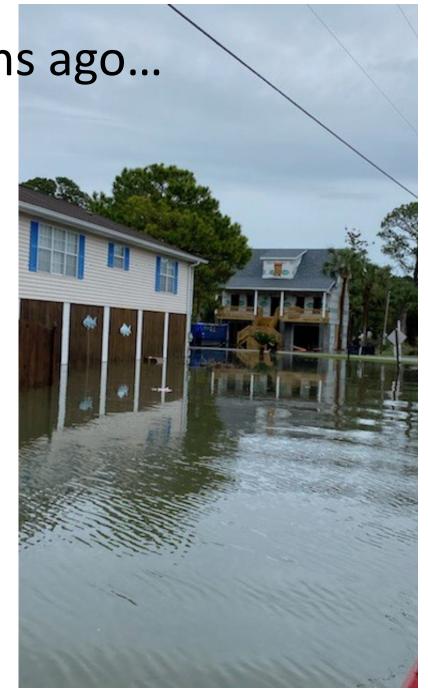












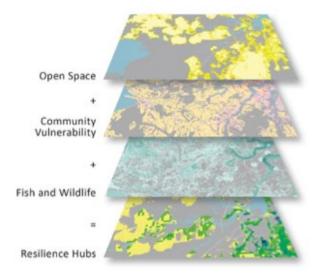


#### Coastal Resilience Assessment of the Savannah River Watershed



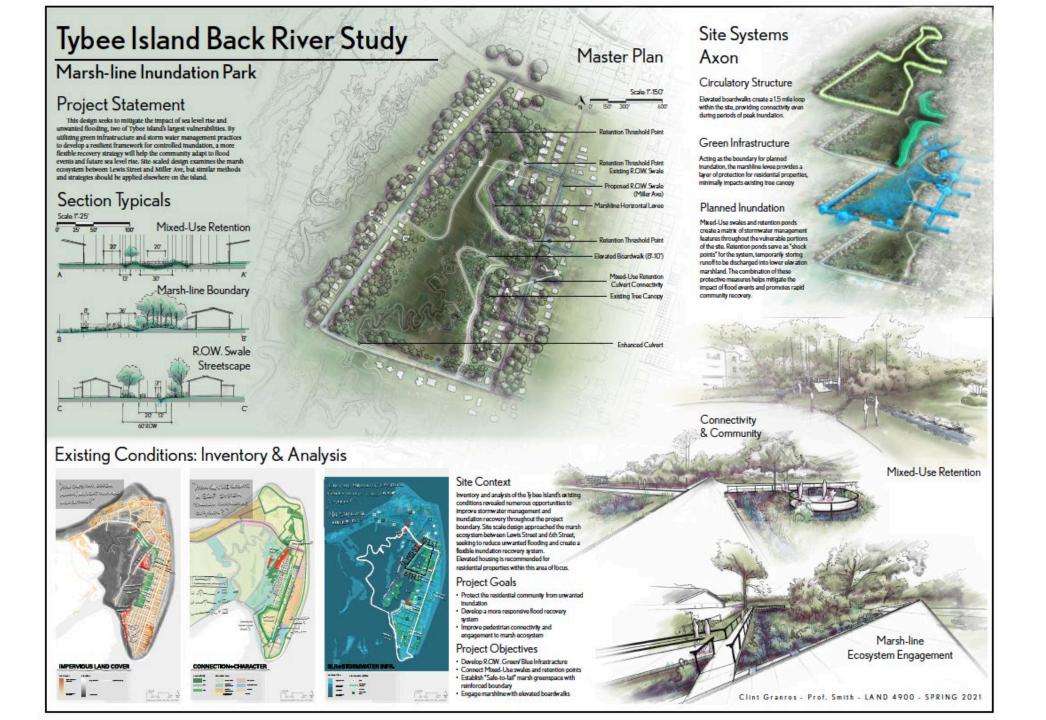






Left: Diagram of the overall approach of this assessment. Human community asset (HCA) vulnerability and fish and wildlife richness are assessed within all areas of public and private open space. Open space areas in proximity to HCAs with high vulnerability and high fish and wildlife richness are mapped as Resilience Hubs where efforts to preserve or increase resilience to threats are well-justified. From the set of all such Hubs, those scoring highest by these measures represent priority areas for undertaking resilience projects.





















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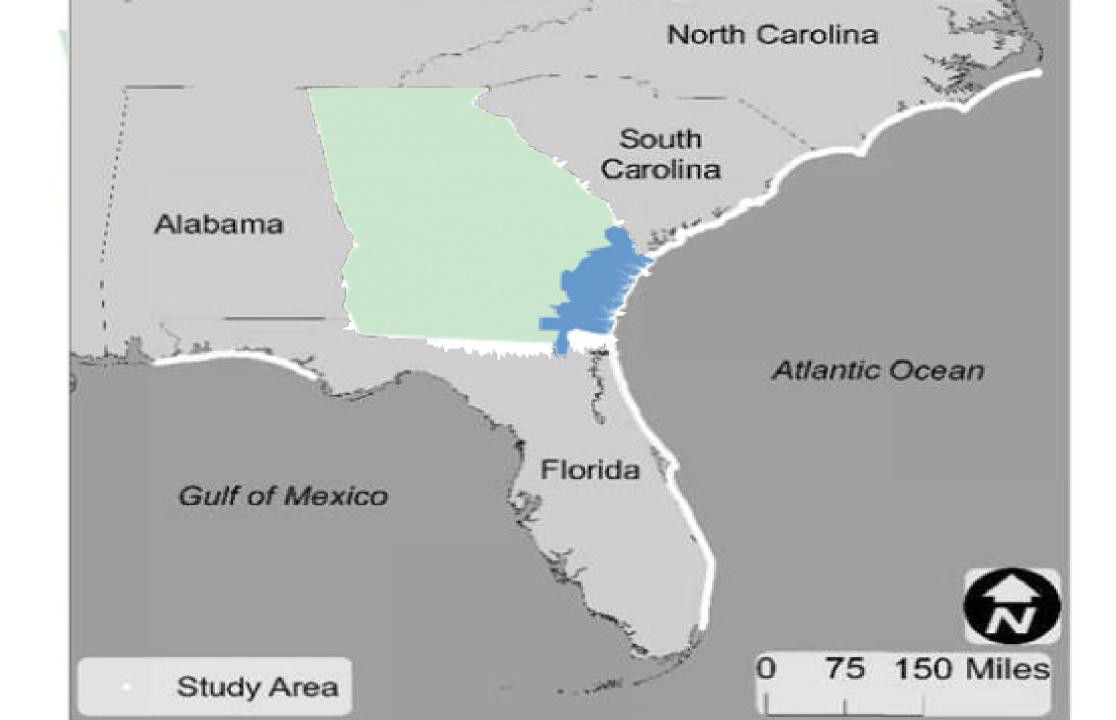












# What Tybee Needs...

- ✓ Broader geographic scope
- ✓ Collaboration with Partners
- ✓ The most vulnerable of our communities: What is the community's responsibility?
- ✓ Transportation, Health Care, Telecommunications, Power
- ✓ Financial Risk Management plugging the holes in our resilience plan
- ✓ Political Will to make hard decisions public outreach, education, engagement

# ... What Tybee Offers

- ✓ A "canary in a cage" experiencing most all elements of resilience
- ✓ Island exacerbates issues literally the "end of the road"
- ✓ Existing collaborations with a broad group of constituents
- ✓ Exploring risk management tools with global reinsurers
- ✓ Experience assessment, plans, regulatory reviews and approvals, budgets, grant administration





## **Looking Forward to Collaborating**

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