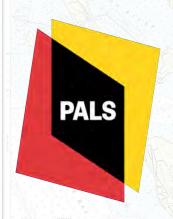


Partnership for Action Learning in Sustainability



- Connects local clients to UMD faculty
- Students work on real-world projects
- Build a sense of community

Current & Past Clients

- MNCPPC
- PG Parks
- PG Planning
- Garrett Park
- City of Frederick
- Anne Arundel County
 and many more ...

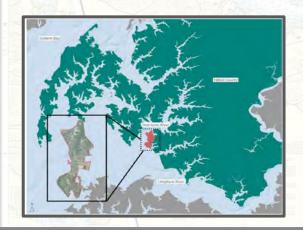




Oxford, Maryland

- Settled in 1659
- Bustling port town by 1694
- Current population 827









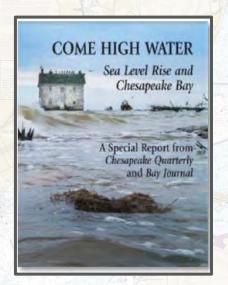
Current & Future Challenges

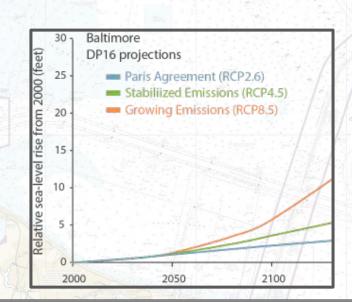
Permanent Flooding

Loss of History

Infrastructure & Access

Lifestyle Change







Project Beginnings

- Stormwater & Tidal damage is increasing
- Normal sea-rise visioning is not encouraging
- Looking for visualizations of future success



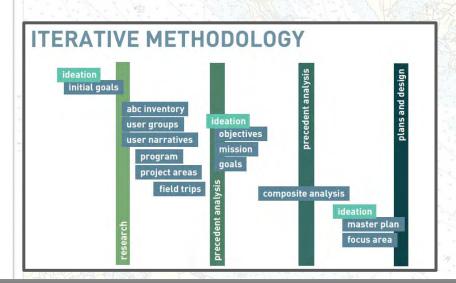


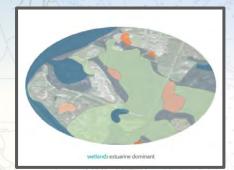


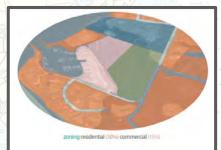
Inventory & Analysis

GIS Data

Analysis of Talbot County











Boundary

Focus Area

Site Visit

Sept. 30, 2021

Met Cheryl!

Met Sasha!

Toured Town

Ate Ice Cream

Slept Over

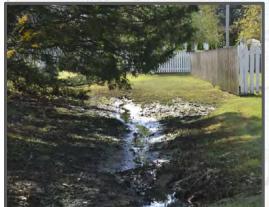








Site Visit







Design Ideation

Ideation Exercises

Precedent Research

Sketches

Lit Review

Charettes

Collaboration

Site Visit

POTOMAC RIVER

CHESAPEAKE BAY TO PINEY POINT

Mocator Projection Scale 1:40:000 of Lat. 36'00' North American Datum of 1983 ptics disable Subministration DOUNG NIGS IN FEET









Design Ideation

Courageous By Design

Symposium of Landscape Architects on Climate Change "New challenges require **more** than science & technology"
-Liz Meyer UVA

"Knowing what we do will not be enough but doing it anyway is courageous" -Kate Orff SCAPE



Existential Questions

- What is the purpose?
- How do we act?
- Climate Grief

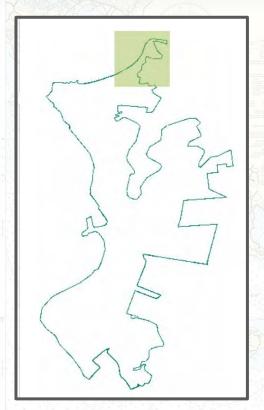
Resilience is our Duty

The Strand



ONGA, NANTICOKE, WICOMICO RIV

AND FISHING B







Critical Issues:

- 50% of buildings at risk of flooding
- Northernmost tip becomes inaccessible when the road is flooded

The Strand

"Living With the Water"

Audrey Seiz

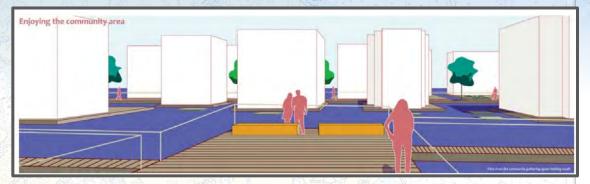




The Strand

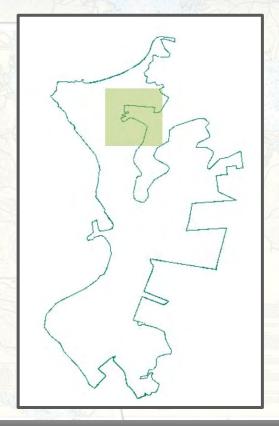
Design Strategies:

- Embrace Water
 - Floating Homes
 - Public Boardwalks
- Adapt Through Ecology
 - Constructed Wetlands
 - Living Breakwaters
- Maintain Historic Character
 - Homes Accessible via Water
 - Salt-tolerant Plantings





The Historic Harbor







Critical Issues:

- Frequent & severe tidal flooding due to low elevation
- Frequent & severe pluvial flooding due to geology
- Highest concentration of historic buildings in town

The Historic Harbor

"Harbor to Harbor"

Micaela Ada

"Innovate Restore Fortify"

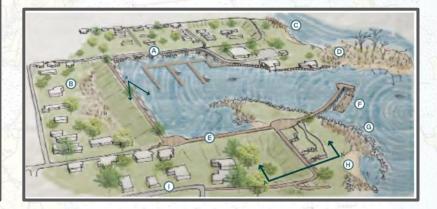
Debapeake BA Shteinberg

"Our Future Heritage"

Matt Reise







The Historic Harbor

Design Strategies:

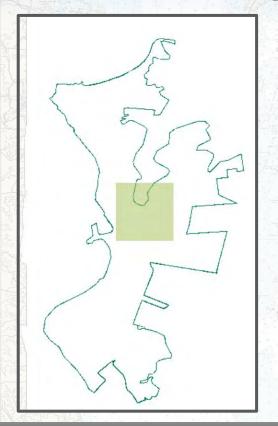
- Nature-Based Solutions
 - Constructed Wetlands
- Plan for People
 - Boardwalk overlooks
 - Guided Trails
 - Fishing Piers
- Fortify
 - Levee system
 - Stone Shorelines







The Causeway







Critical Issues:

- Severe flooding via stormwater collection & high water table
- Holds the town's only access road - flooded regularly



COVE POINT TO SANDY POINT

The Causeway

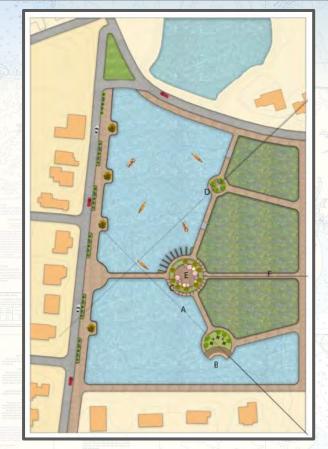
"Oxford 2100"

"Harbor to Harbor"

Jainee Shah

Micaela Ada







The Causeway

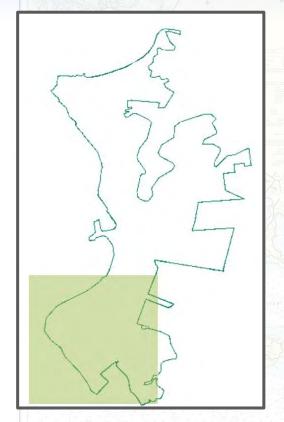
Design Strategies:

- Accept the Water
 - Allow lands to flood
- Take Advantage of Change
 - Build estuarine research
 - Opportunities for recreation
 - Chance for tourism
- Elevate Necessities
 - Raise the entry road





Southern Oxford







Critical Issues:

- Wind-driven storm surge
- Wetlands & high ground threatened by salt-water intrusion

Southern Oxford

"Wetland Water Wonder"

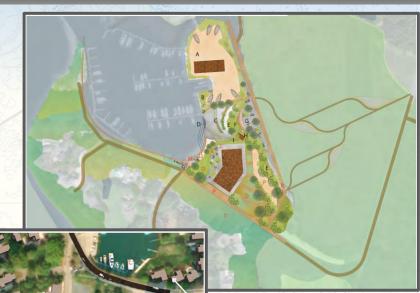
Erin Callahan

"A Step at a Time"

Danny Bentley







Southern Oxford

Design Strategies:

- Storm Surge Solutions
 - Constructed Wetlands
 - "Oyster-tecture"
- Augment Industry
 - Grow tourism
 - Build research capacity
- Improve Ecological Health
 - Native Plantings





Closing

Oxford's Next Steps:

- Oxford Community Resilience Committee Review
- Presentations to the Public
- **Engineering Feasibility Review**

Student Takeaways:

- Introduction to working with communities
- Introduction to Climate-Change Design
- Nature-Based Climate Resilience
- Great project!







