



Building Marsh & Community Resilience: Deal Island Peninsula Project

Sasha Land

Chesapeake & Coastal Service



Michael Paolisso

Katherine J. Johnson

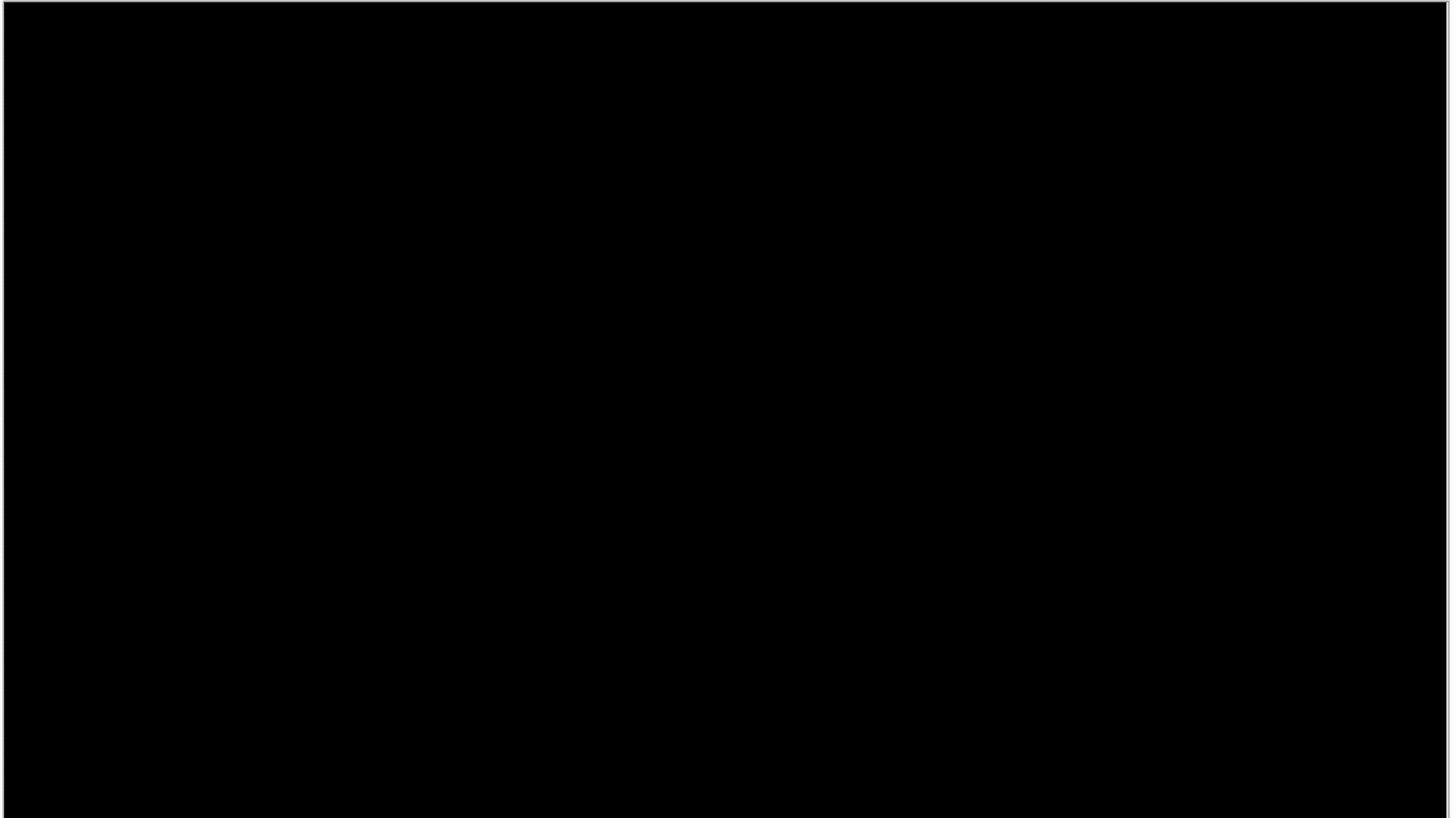
Brian Needelman

University of Maryland, College Park



www.dealislandpeninsulaproject.org

The Place



Deal Island Peninsula



Deal Island Peninsula



The Challenges



Health of marshes and rural coastal communities into the future

Marsh degradation and loss

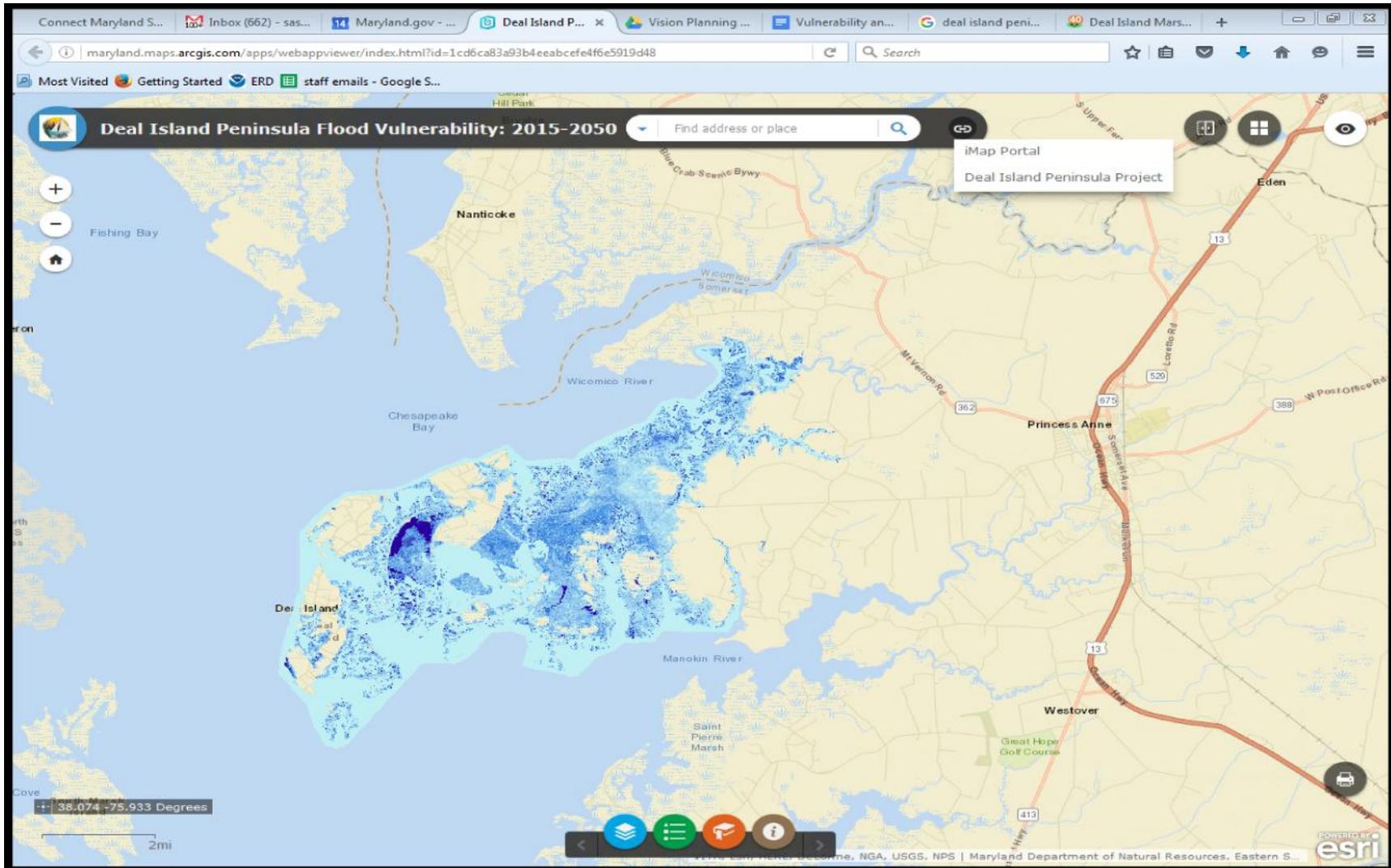
Sea level rise, flooding, storms, ditching, invasive species

Coastal communities experiencing social, economic and environmental changes

Lack of collaborative relationships among stakeholders

Lack of information on integration of marsh restoration and community sustainability

Flood Risk Vulnerability



Deal Island Peninsula Project



Increase resilience of coastal environments and communities in the face of **coastal flooding, erosion, and other changes.**



What We Have Done



Ecological Studies of the Marsh System

- Long term monitoring in place
- Investigating if Ditch-plugging is a viable BMP for long-term sustainability of the marsh

Community Engagement/ Collaborative Learning/ Stakeholder Network

- Built a stakeholder network of over 50 with participants from the community; local civic organizations; county, state and federal government; academia; & non-profits
- Formed Community Research Projects: Heritage, Flooding, Marsh Restoration
- Held “Community Conversations” to engage broader community around a variety of topics

Socio-ecologic Studies

- Ecosystem Services study related to the value of the marsh
- Anthropologic Studies: Community view on vulnerability/resilience

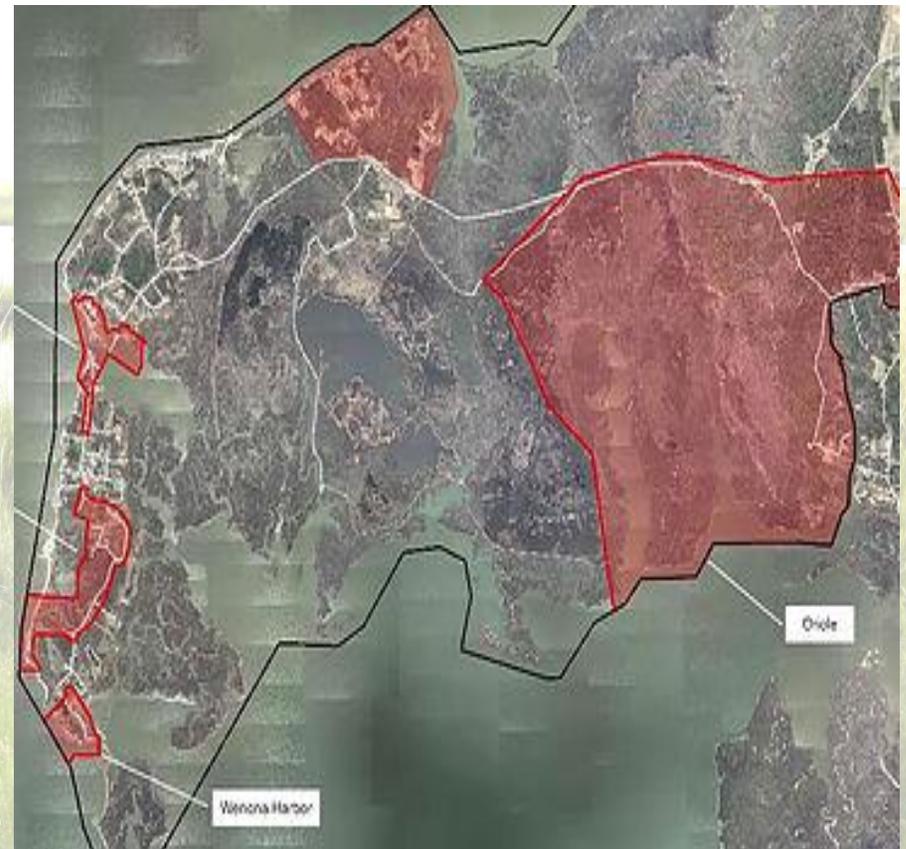
In Progress



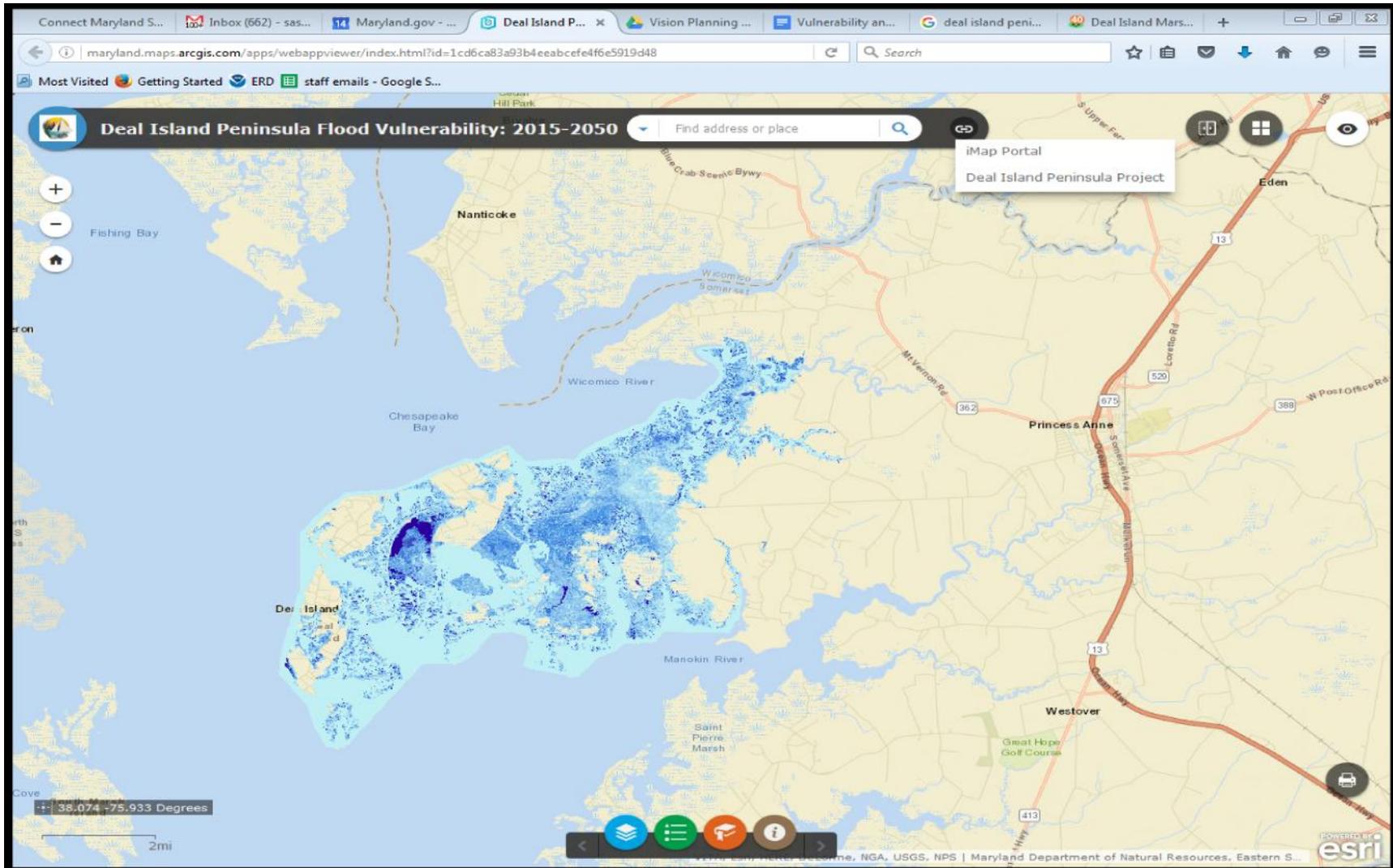
Integrated Coastal Resilience Assessment

Brings together scientific, technical, and local community knowledge and experience to assess how best to enhance the resilience of the Deal Island Peninsula.

Identifies a range of adaptation and restoration options for reducing community and ecological vulnerabilities to coastal flooding, storms, and erosion now and over the next 10 year



In Progress

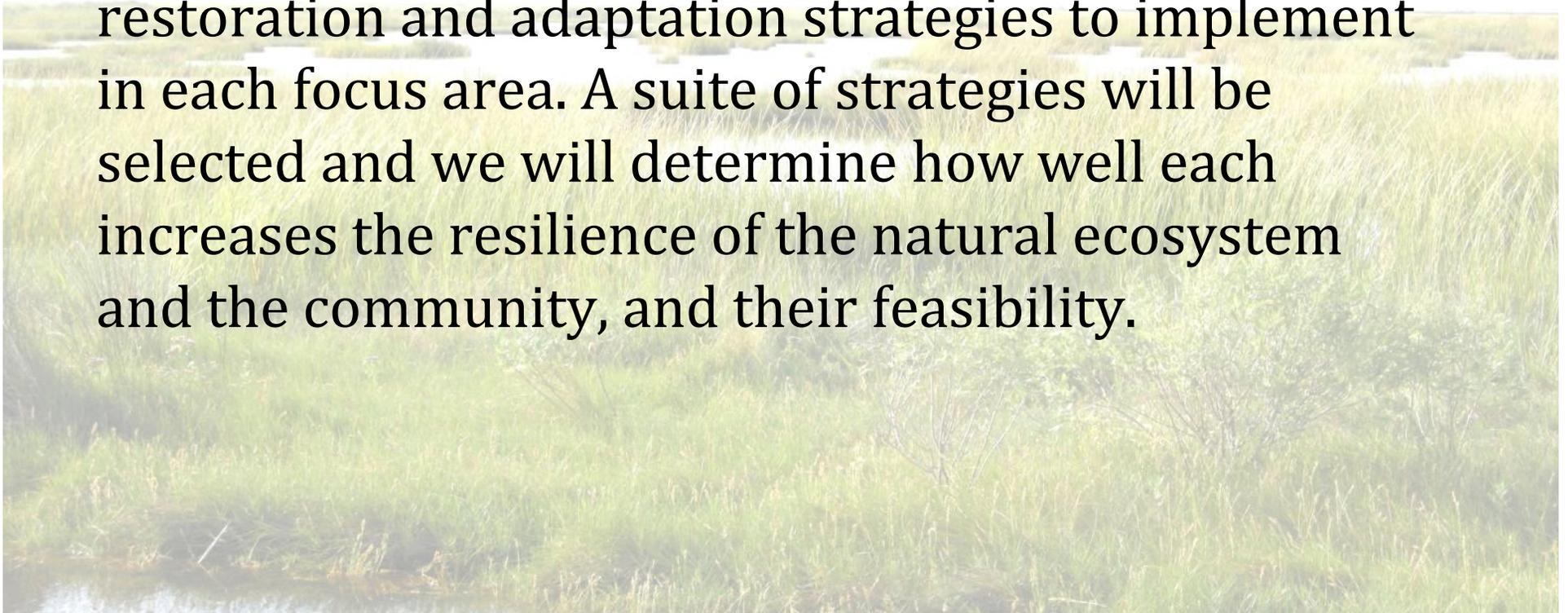


Upcoming



Collaborative Field Assessments

This phase will identify, prioritize, and target restoration and adaptation strategies to implement in each focus area. A suite of strategies will be selected and we will determine how well each increases the resilience of the natural ecosystem and the community, and their feasibility.





www.dealilandpeninsulaproject.org

