

Coastal Actions for Resilience and  
Economic Security (CARES) of  
Southeastern Wisconsin Bluff, Beach,  
and Infrastructure Assets

# 3-Year NOAA Funded Project w/State Match

## PROPOSED ACTIONS

- *Project future scenarios of shoreline recession*
- *Provide guidance on implementing risk-reduction practices and communicating risk*
- *Organize a network for communities to collaborate along the coast*
- *Identify local resilience opportunities and fund their implementation*

## OUTCOMES

- *Communities improve awareness of coastal hazard risks*
- *Future property damages from coastal hazards (e.g. bluff erosion) are reduced*
- ***Economic assets such as beaches and harbors remain operational***
- *Risk reduction efforts are more effective and cost efficient*



Shorelines are part of our identity and a source of local revenue

# Intense Storms are Threatening These Assets





## Using the Assessment Tool Shed Light on Level of Preparedness

- How do we protect existing assets (physical structures)?
- How do we design and construct going forward?
- What sort of ongoing maintenance can be expected?
- How can we reduce risk?
- Are ordinances and best management practices uniformly applied across multiple jurisdictions?



# Understanding Coastal Hazard Impacts through Parcel Mapping, Shoreline Classification, Public Outreach and Local Ordinance Review

## **PROJECT #1**

- 1) review existing parcel maps to determine what coastal assets are under the jurisdiction of the city, county or held privately (including recession rates)
- 2) develop/refine/leverage coastal hazard education and outreach materials for shoreline property owners
- 3) conduct a review of ordinances or other regulations for coastal Racine County jurisdictions to evaluate their currentness and identify opportunities to better address coastal hazards

# Assess, Revise and/or Develop Beach Management Plans for WDNR Designated Public Beaches –Racine County

## **PROJECT #2**

- Recent BSS data from beaches [including listed or proposed impaired beaches; CWA, 303(d)] in Racine County] will be used to assess, revise and/or develop beach best management practice plans (BMPPs)
- To include elements which address the potential to which extreme weather events could impact the beachscape
- Coastal resiliency was not a key element in previous BMP documents, thus impacting the success of mitigation efforts undertaken to date

# Samuel Myers Park, Racine, WI



Example of incorporating coastal resilience into restoration. Includes examples of hard and naturalized engineering, green infrastructure components and diverse ecosystem restorations