



# **Targeting Land Conservation**



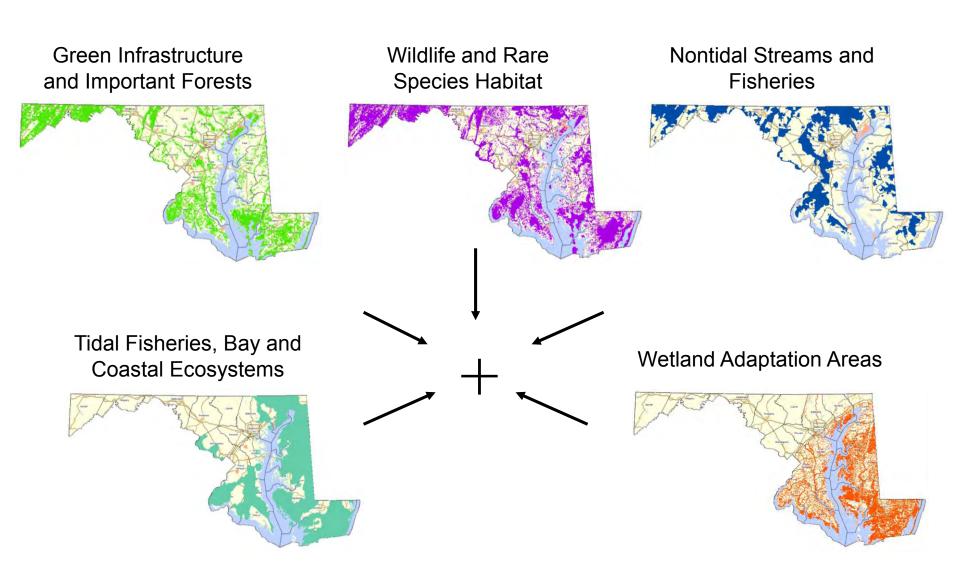
#### Targeted Ecological Areas are the most ecologically important areas in the State



Program Open Space State Side uses these Areas to Target our Acquisitions

# Targeted Ecological Areas



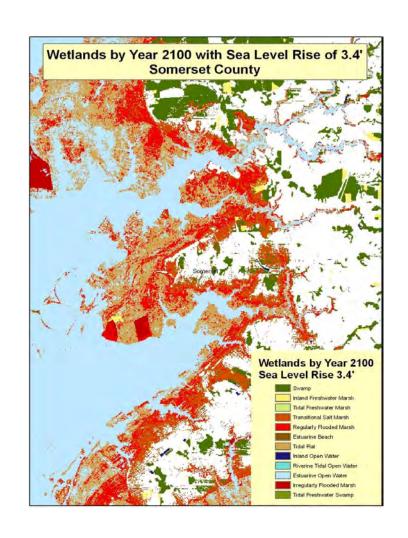


# Climate Considerations in Targeting



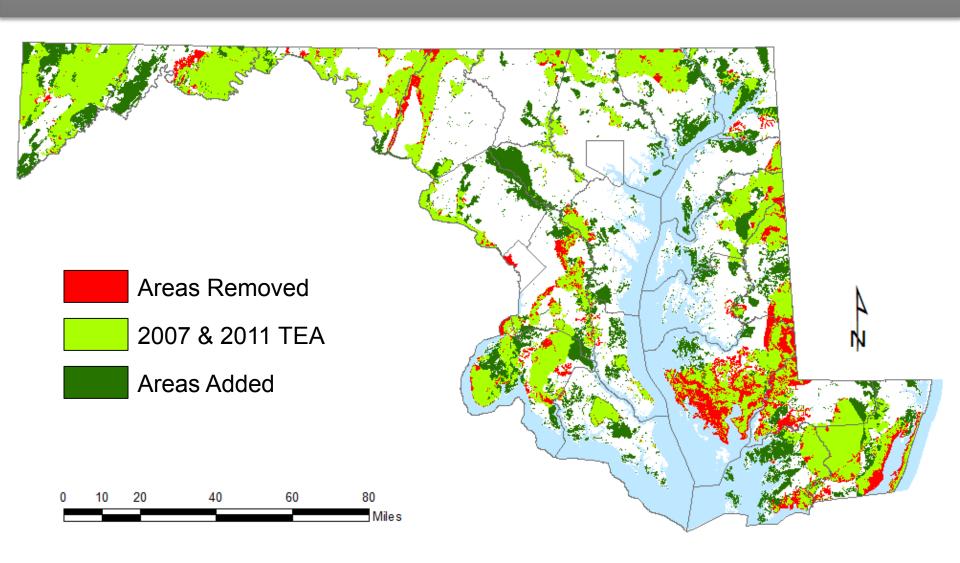
Remove areas subject to sea-level inundation within 0-2 ft elevation

Include areas important for habitat resilience to climate change



## 2007 vs. 2011 TEAs





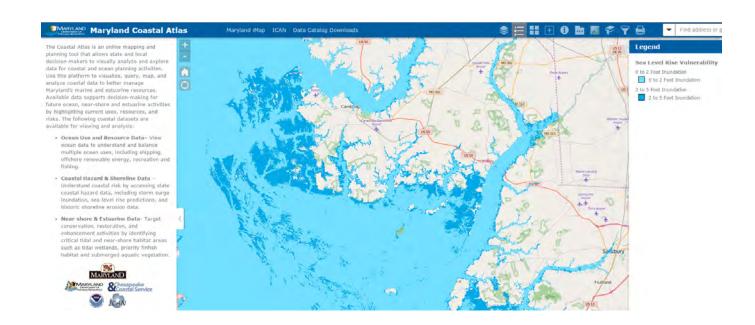
## Maryland's Coastal Atlas



#### Climate Change Data Layers:

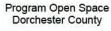
- •Sea Level Rise Vulnerability
- Storm Surge Areas
- •Wetland Adaptation Areas
- •Coastal Resiliency Assessment

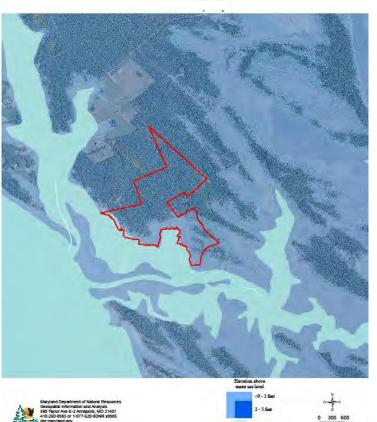
- •Historical Shorelines/Shoreline Rates of Change
- •Shoreline Inventory
- •Erosion Vulnerability Assessment
- •100 & 500 Yr Flood Areas



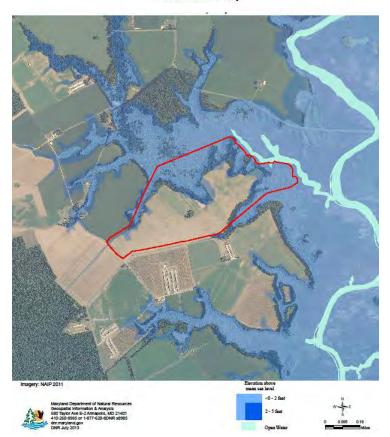
## Sea-Level Rise Inundation





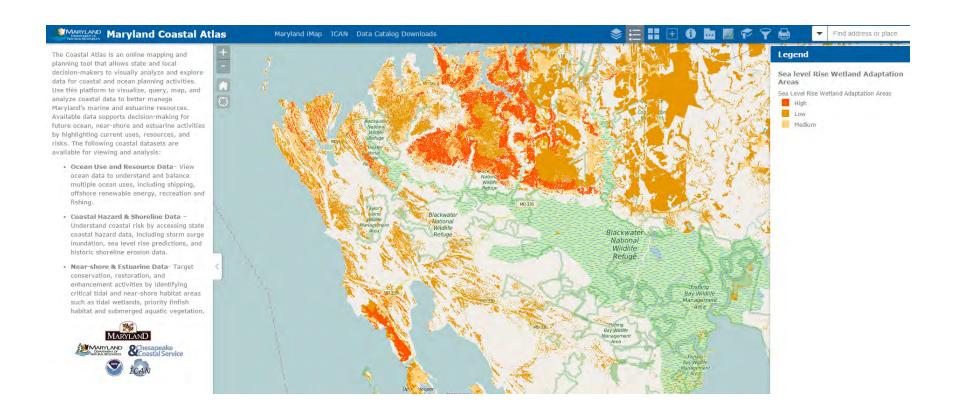


Program Open Space **Dorchester County** 



# Wetland Adaptation Areas





- GIS model indicating important future wetland habitats due to in-land migration
- >5 acres = trigger for Coastal Resilience Easement

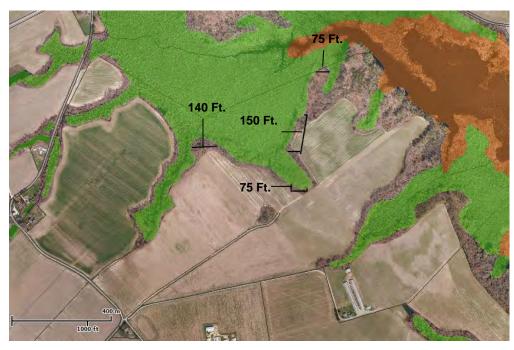
## Coastal Resilience Easement



#### **Easement Provisions:**

 Development setbacks in areas subject to sea-level rise inundation by 2050

- Buffers to protect high priority
   Wetland Adaptation Areas
- Impervious surface limits to reduce runoff and pollution due to increased storm events
- Grantee review of shoreline stabilization projects



Palustrine Wetlands

Estuarine Wetlands

Wetland Adaptation Buffers

### Resilience Action Plan



#### **Management Plan Provisions:**

- Wetland/hydrologic restoration
- Living shoreline projects
- Invasive species management
- Environmental hazard management and guidance on Coast Smart Construction Codes
- Removal of barriers to wetland migration
- Documentation of vulnerable historic and cultural resources



Living Shoreline: Before & After

