Sustainable Coastal Communities:

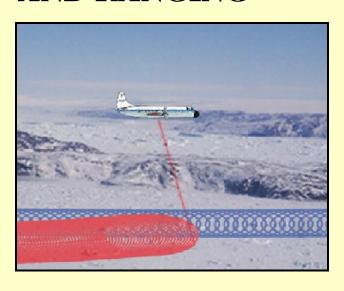


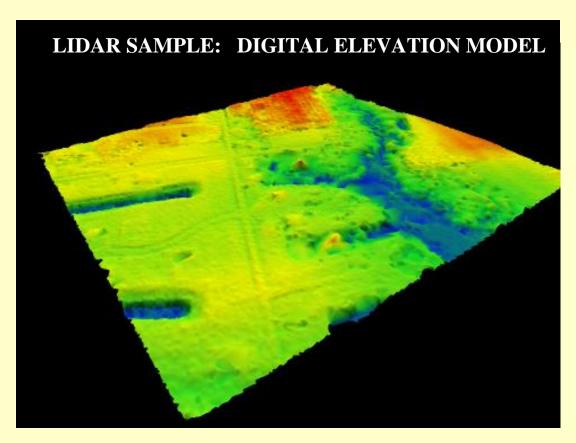
Local Government Capacity

- Many communities are struggling to keep up with the increase in technological advances like GIS
- Limited in their resources to utilize mapping technology
- Tools often not effective as local government can not keep the information current, its not accessible, or in the appropriate format

Advancements in Coastal Hazard Mapping Technology

LIDAR:
LIGHT DETECTION
AND RANGING





Floodplain Mapping - Present



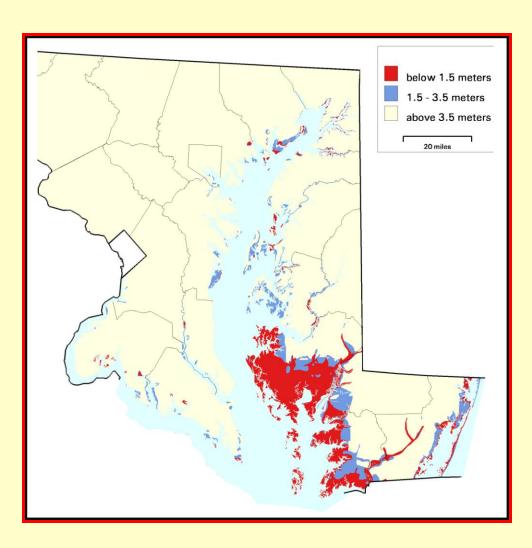
Digitized
FIRMS
with
Flood
overlay

Floodplain Mapping - Future



3-D Ortho
Imagery
with
Floodplain
overlay

Sea Level Rise Mapping - Present



General guidance maps on land vulnerable to SEA LEVEL RISE EPA 2001

Sea Level Rise Mapping - Future



Public Landing, MD

2100

Current Rate of SLR 1ft per100yr

Building Community Capacity to Incorporate New Technologies

OPPORTUNITY 1:

Support initiatives that take advantage of economies of scale when acquiring large and expensive imagery.





NSGIC Proposal: Imagery for the Nation







Photos Courtesy of National States Geographic Information Council

Building Community Capacity to Incorporate New Technologies

OPPORTUNITY 2:

Ensure mapping products and information derived from hazard mitigation planning is incorporated into decisions about land use and where to direct future growth and development.

Building Community Capacity to Incorporate New Technologies

OPPORTUNITY 3:

Provide direct assistance to build local capacity to utilize information and data such as providing training to staff and raising the awareness of local elected officials on coastal hazard issues.

CZMA Reauthorization: Coastal Communities Program

- Establishes a ready-made framework for addressing many of these community issues.
- Provides funds to minimize the loss of life and property from coastal hazards by managing development in hazardous areas, providing education, and supporting local and state planning.