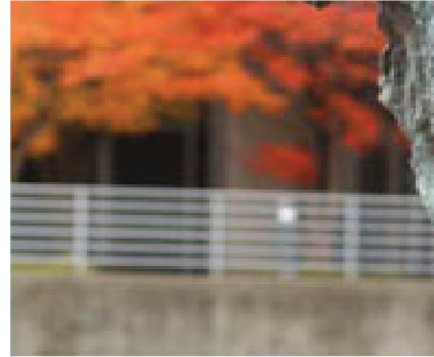




OLD DOMINION
UNIVERSITY

IDEA FUSION

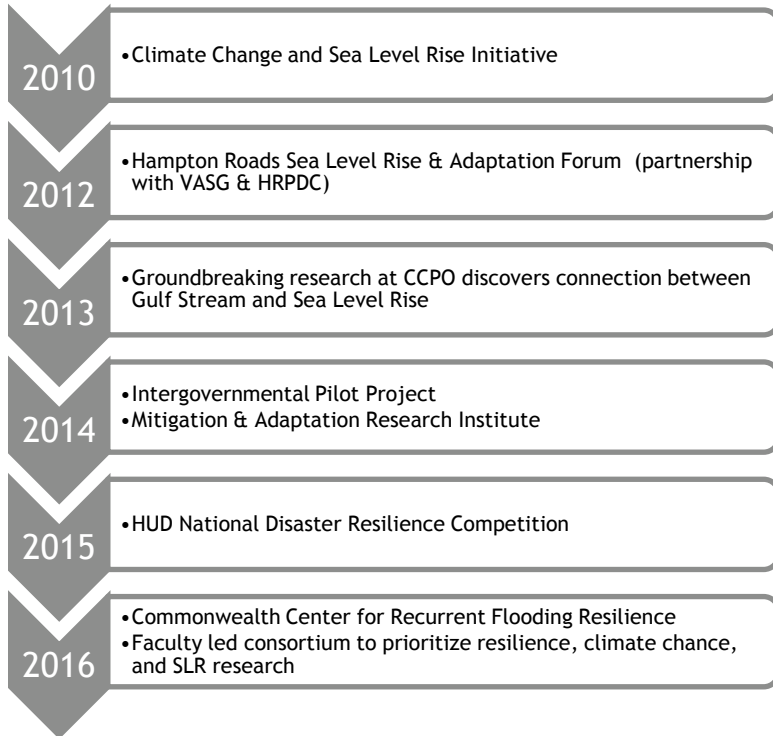


Resilience @ ODU: An Overview

Dr. Morris Foster

Vice President for Research

University Priority Since 2010

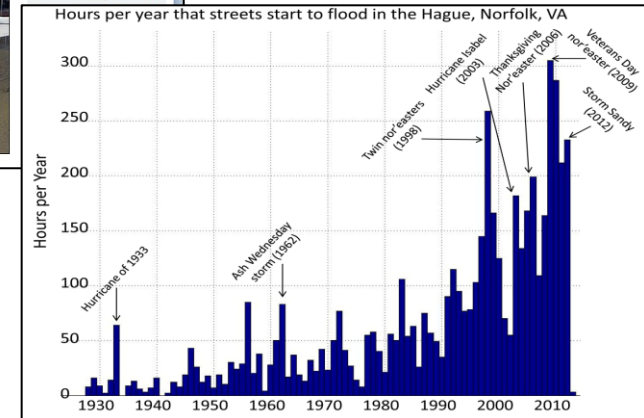


- As a national leader, ODU's interdisciplinary approach & faculty leadership are strengthening the Hampton Roads & Virginia communities
- ODU is a non-partisan broker of expertise & natural test-bed for applied sea level rise and resilience research

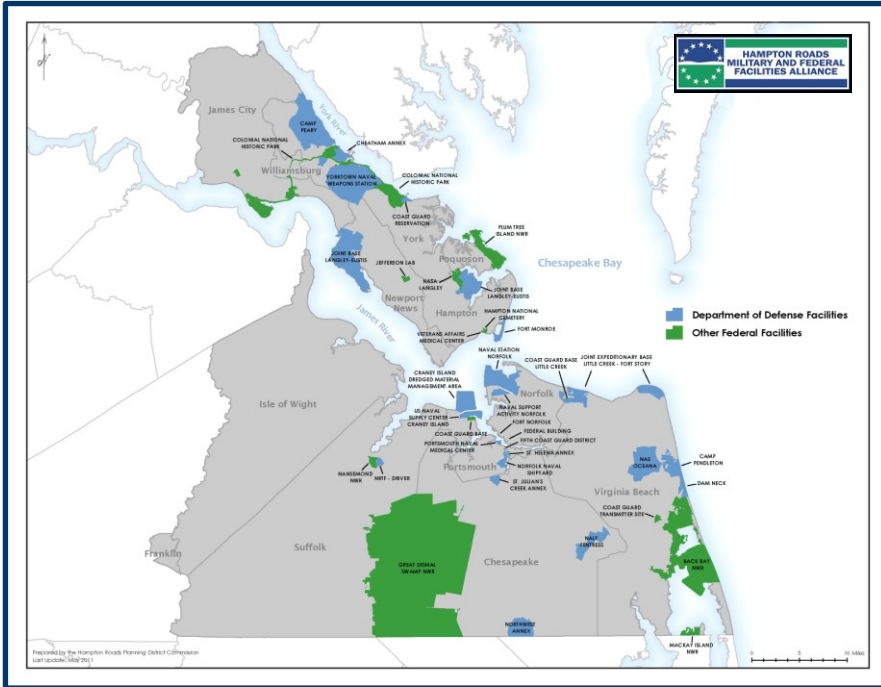
Center for Coastal Physical Oceanography



- Nationally recognized program
- ODU research discovered connection between slowing of Gulf Stream & recent SLR (Ezer, 2013)
- Sample areas of research:
 - Nuisance flooding in Norfolk
 - Impact of climate change
 - Sea surface topography
 - Subsidence
 - Gulf Stream & Sea Level Rise



Intergovernmental Pilot Project



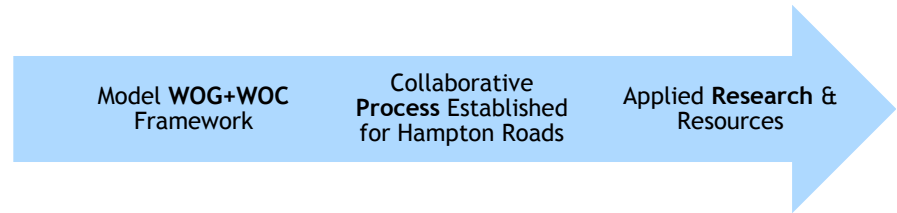
- 2 Year project concluding in Summer 2016 convened @ODU w/ White House & DOD support
- Developing a framework to effectively coordinate SLR preparedness and resilience planning
- Focus on Whole of Government Process
 - Federal + State + Local + Community
 - Regional Options usable as national template

Intergovernmental Pilot Project



■ Ongoing Case Studies in

- Infrastructure,
- Public Health,
- Citizen Engagement, &
- Economics



■ Next steps

- JLUS, Regional GIS, Applied Mod/Sim etc.
- Alignment of Fed and non Fed programs to maximize ROI
- Integration of physical and socioeconomic data for better planning



HUD National Disaster Resilience Competition



- Focus on **OPPORTUNITY**.
- \$120 Million awarded to the Commonwealth in HUD's NDRC competition.
- ODU provided coordination for the multi-agency & multi-jurisdictional application.
- Bipartisan support from our elected officials.

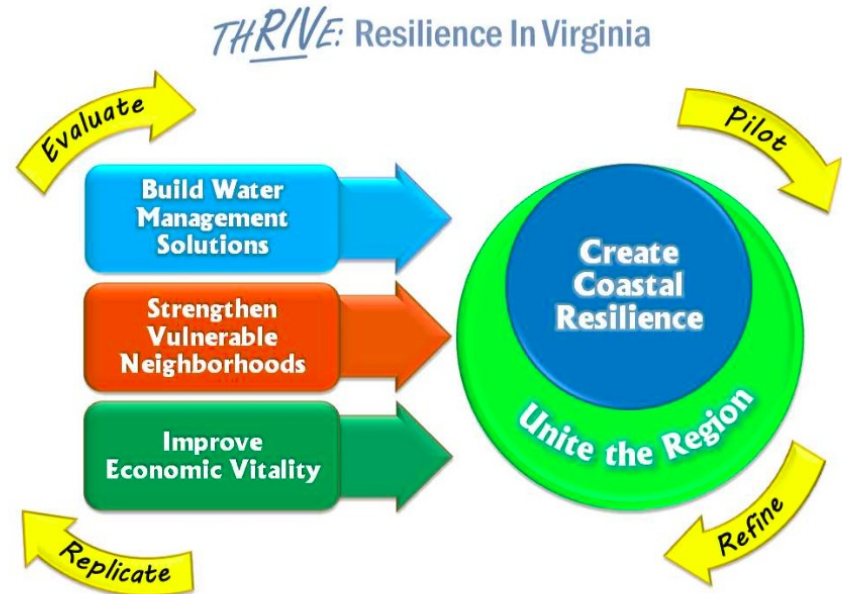


Figure 5. Phase II Refined Approach for *THRIVE: Resilience In Virginia*

HUD NDRC Accelerator

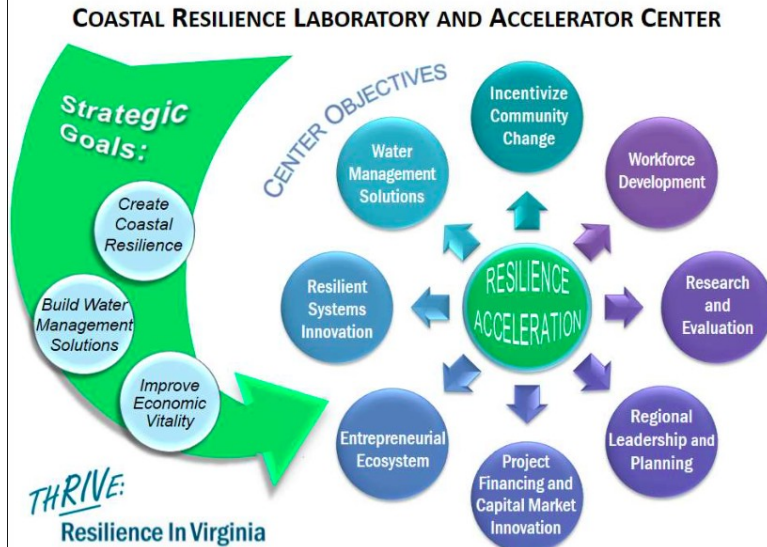


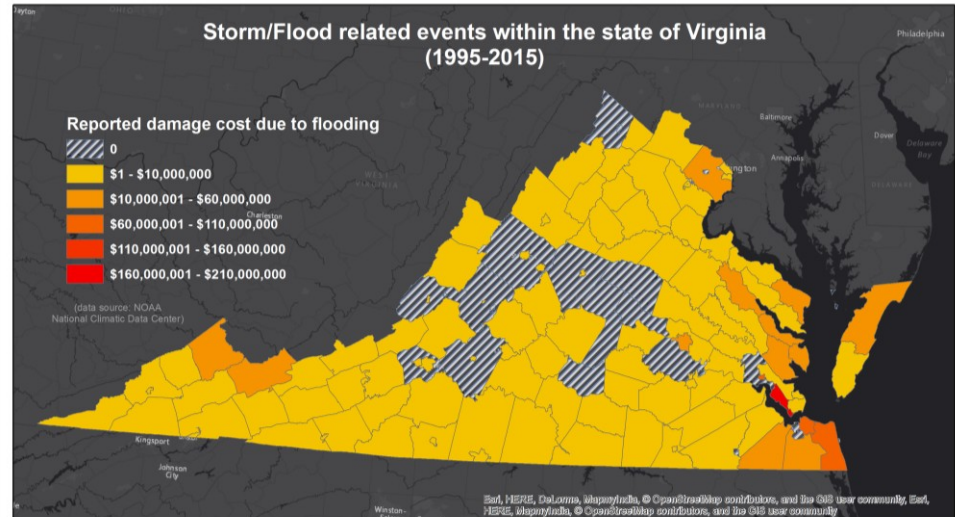
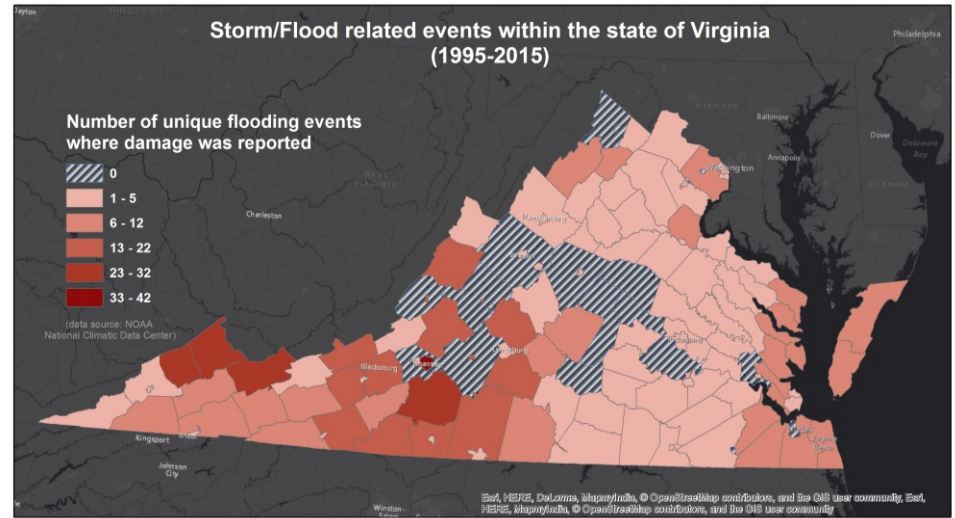
Figure 6. Coastal Resilience Accelerator Goals and Impact

- \$5 Million award from HUD NDRC
- Jumpstart economic cluster around resilience and water management solutions
 - Innovative Technology
 - Work Force Development
 - Entrepreneurship
- Virginia-wide resilience & economic benefits
- University partners



Commonwealth Center for Recurrent Flooding Resilience

*Flooding impacts the entire
Commonwealth*



Commonwealth Center for Recurrent Flooding Resilience



- 2016 General Assembly Authorization & Climate Commission Priority
- Leverage complimentary strengths of ODU + VIMS/W&M
- Provide coordinated research & technical support
- Enable decision making by local planners & emergency managers
- Leverage CCRFR to bring funding to Virginia
- Position Virginia as National Leader & expand advisory services across the Commonwealth

Sample Projects for CCRFR



- Enhance & expand TideWatch & street-level storm surge modeling
- Evaluation of alternative resiliency scenarios for localities
- Testing communication strategies to specific stakeholder groups
- Impacts and resilience strategies for housing, transportation, economic development, public health, etc.
- Leverage federal, state, local, and NGO/Private data, and provide easy, useful access for all stakeholders



Proposed: National Center for Sea Level Rise



- Why ODU + VIMS/W&M?
 - High Risk
 - Investment in National Security & Economic Vitality
 - Work across geo-political boundaries creating a network of coastal regions
- Position Virginia as a national leader on applied research related sea level rise resilience



ODU Resilience Collaborative



- Faculty driven strategic priority encourages strategic focus areas and partnerships instead of stand-alone projects
- Engaged research on mitigation, adaptation & resilience to address climate change & sea level rise
- Interdisciplinary consortium across all colleges at ODU
- Develop training & education programs



Photo courtesy of the Mace & Crown

ODU Resilience Collaborative

Sample Focus Areas





Contact

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