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Coastal Wetlands: Enhancing Global Climate Ambition through SDG 13

Protecting and restoring the world's coastal wetlands to address climate change while improving communities and economies.

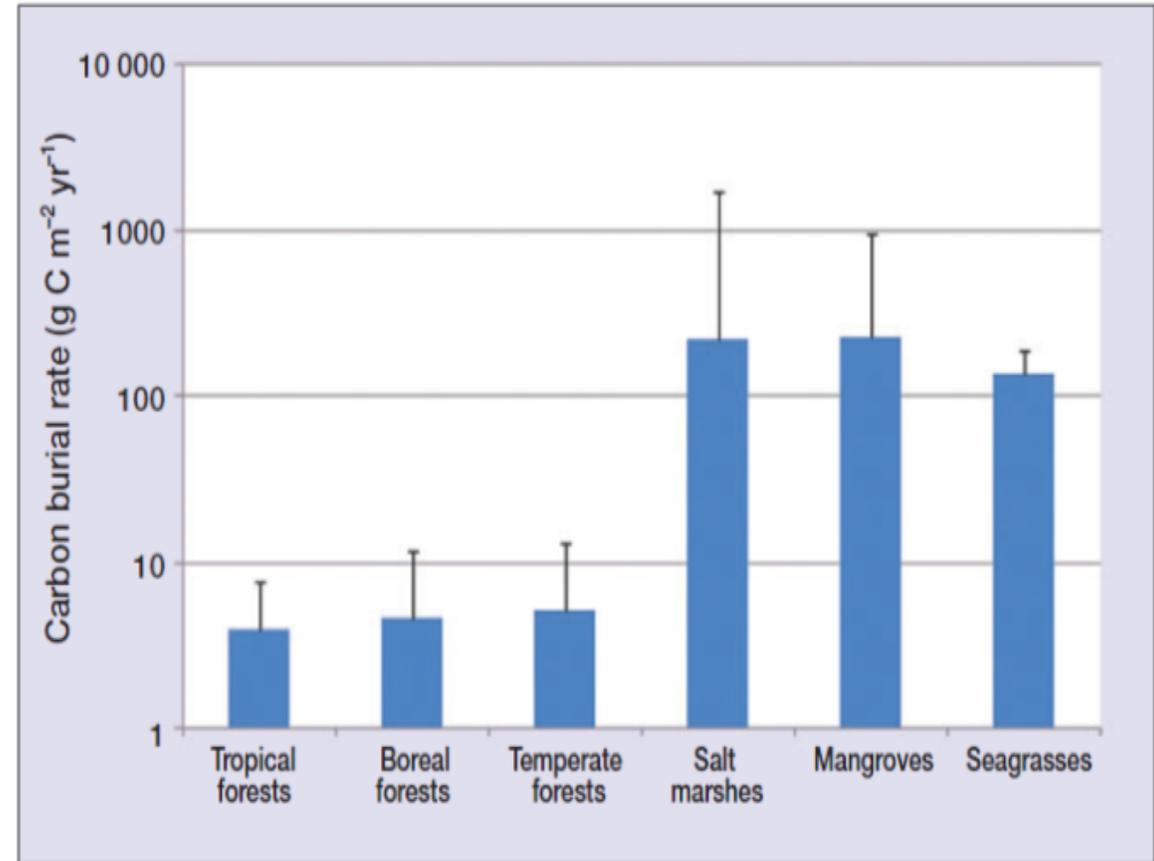
Coastal Wetlands in the context of climate change

Mitigation

- Smaller global area than terrestrial forests, but much greater sequestration with most value in soil
- They store carbon in their soils for thousands of years.

Adaptation

- Wetlands keep pace with moderate sea level rise
- Reduce impacts from increases in storms from climate change
- It has been estimated that it only takes **100** meters of mangroves to reduce wave height by **66%**.



McLeod et al. 2011.

Protective Value of Wetlands

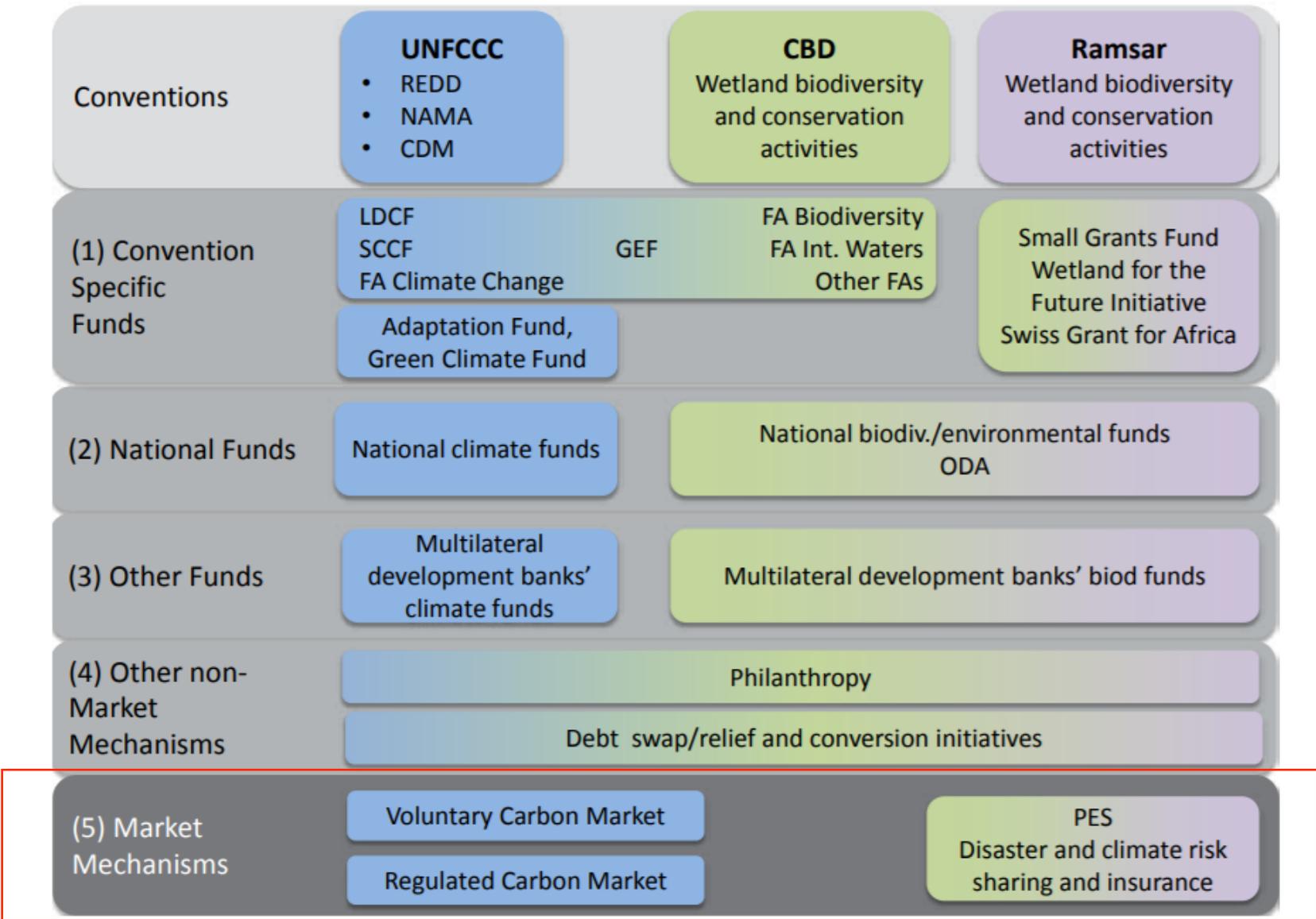
Adaptation and Coastal Protection

- Coastal Wetlands Reduce flood damage by up to 28%
- 23 billion USD in storm protection is provided by coastal wetlands in the US each year.
- If we restore 8,000 km of mangroves we could protect an additional 12.5M people living along the shoreline.



How can we protect these ecosystems? Global Financial Mechanisms

Main climate (blue) and biodiversity-related (green and purple) finance options for wetland projects and programs



Mangroves in the Sustainable Development Goals



TARGETS

- 13.1** Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries

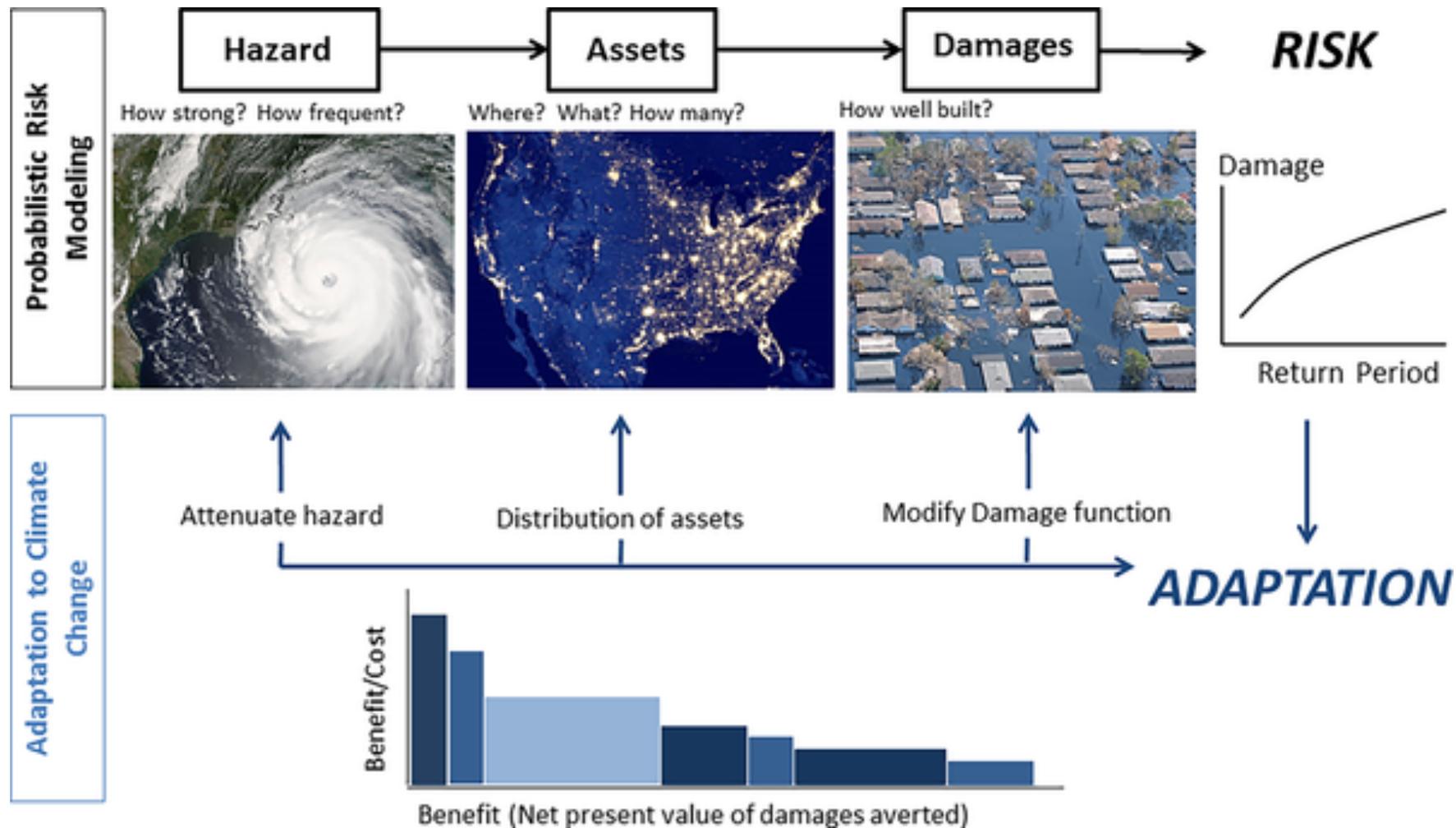
The Sustainable Development Verified Impact Standard (SD VISta)



Projects developed under the SD VISta Program must follow a rigorous assessment process in order to be certified.

- SD VISta: The standard (and associated program documents) lays out the rules and requirements which all projects must follow in order to be certified.
- Independent Assessment: All SD VISta projects will be subject to assessment by qualified independent third parties to ensure that the rules and requirements of the SD VISta Program are met.
- Methodological Guidance: Projects may use any method to meet the core SD VISta requirements. Verra will provide guidance on appropriate methodologies and, in cases where projects generate SD VISta assets, Verra will approve methodologies.
- Registry System: Verra tracks and makes publicly available data on all SD VISta projects. The Verra registry tracks the generation, retirement and cancellation of any SD VISta asset as well as all Verified Carbon Units that bear a SD VISta label, which indicates that an emission reduction unit was generated during a SD VISta-verified period.

How to Define Resiliency



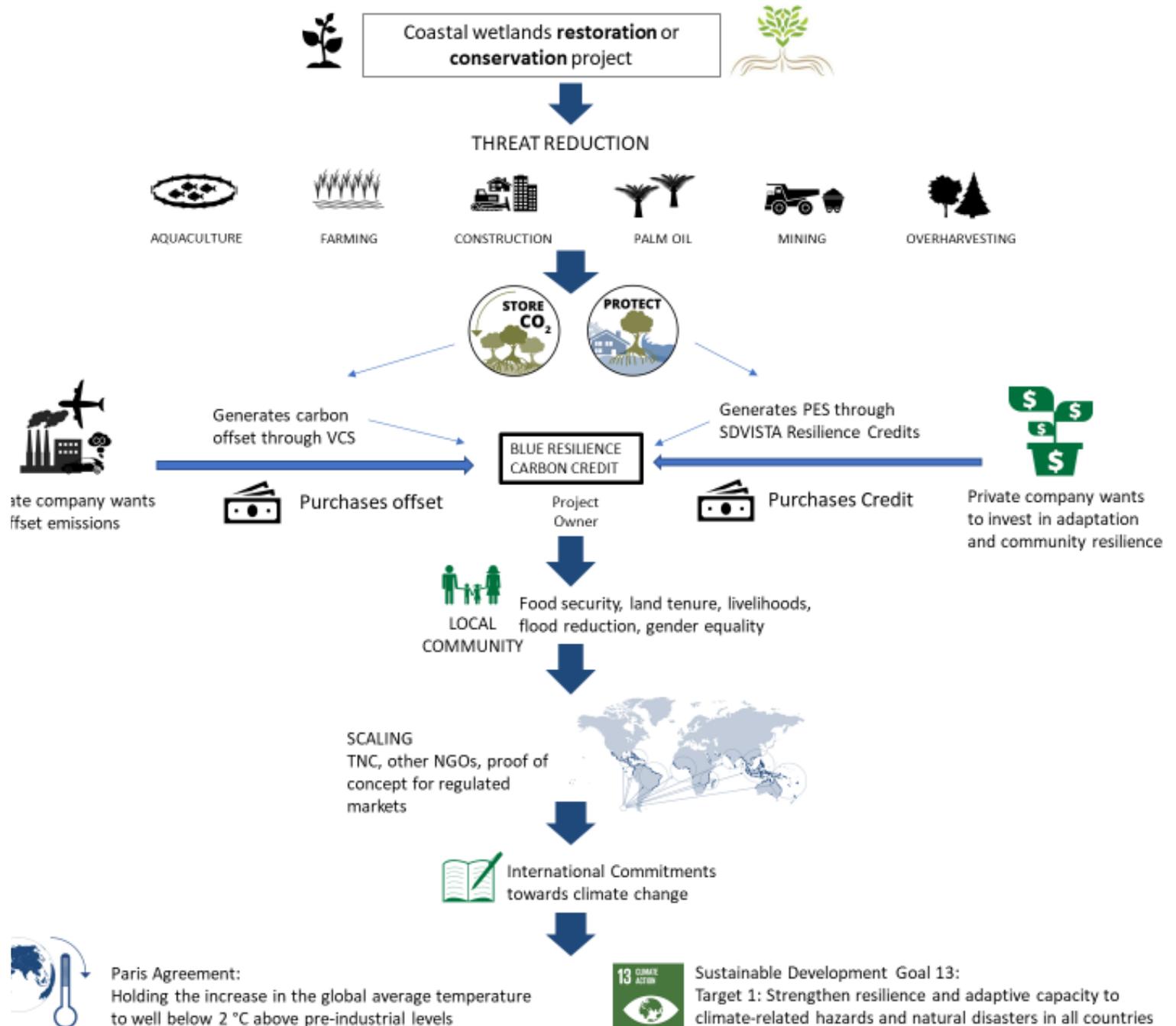
Reguero BG, Beck MW, Bresch DN, Calil J, Meliane I (2018) Comparing the cost effectiveness of nature-based and coastal adaptation: A case study from the Gulf Coast of the United States. PLOS ONE 13(4): e0192132. <https://doi.org/10.1371/journal.pone.0192132>
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0192132>

Blue Carbon and Resilience Credits

- Merging the values of blue carbon and resilience.
- Resilience credit can be generated separately from carbon

Key things to note

- Methodology is still in development for the resilience credit
- Initial signs of support from corporations trying to reduce carbon foot print will investing in sustainable development.

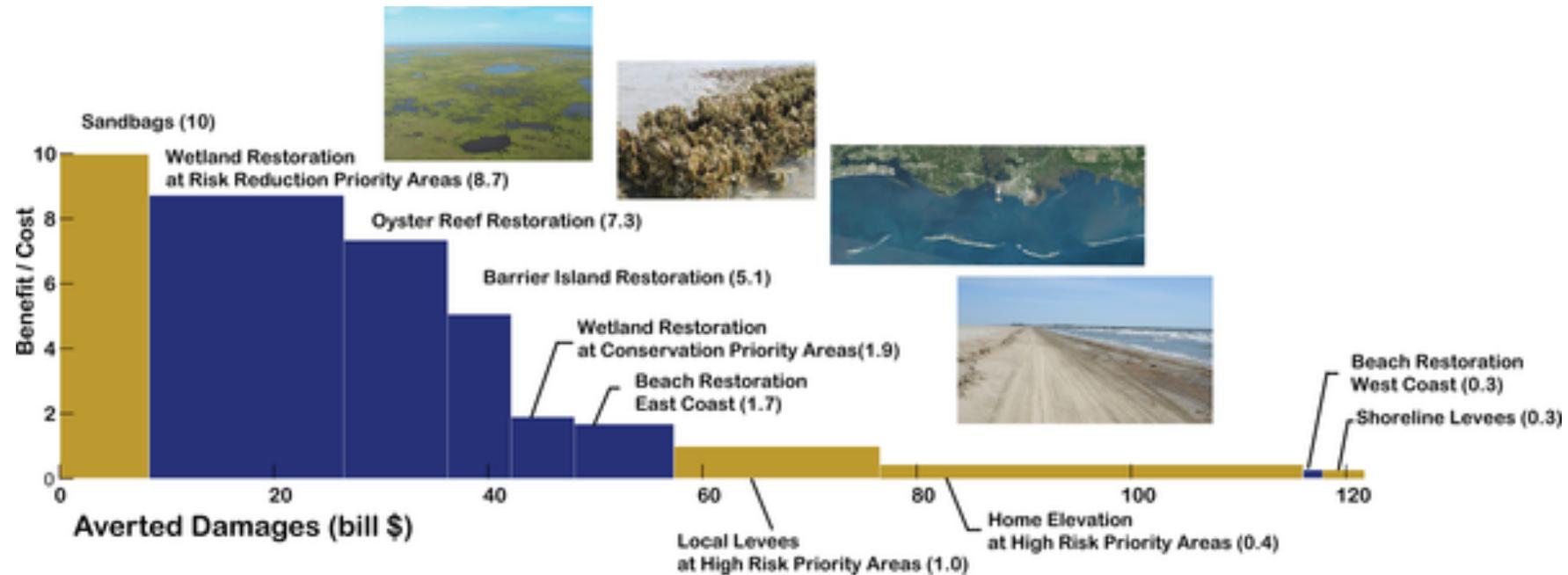




THANK YOU

Vitale

Fig 6. Cost-benefit analysis.



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