



# Improving Regional Coastal Zone Management through Research and Innovation

by

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# Presentation Overview



- Special Considerations for Regional Coastal Zone Management
- Research and Innovation Requirements
- Conclusion

# Regional Coastal Zone Management



- High Economic Investment on Coastal Sites
- Public Funding on Coastal Projects
- Natural factors-hurricanes/storms
- Comprehensive data sets- availability and accessibility
- Independent Research-trends; predictions; modelling; quantifying risk and vulnerability

# Research and Innovation



- Freely accessible comprehensive regional data base
- Greater focus on improved modelling of beaches- post-storm recovery; swash zone; sheltering; sediment modelling;
- Independent research of trends and predictions of beach responses
- Independent research on best solutions; through physical and/or numerical modelling

# Research and Innovation



- Research into sustainable coastal solution methods that can work regionally
- Integrating eco-friendly solutions e.g. wave energy devices in coastal protection structures
- Quantifying risk through probabilistic modelling and vulnerability investigation
  - ▣ **Quantifying vulnerability for various elements at risk on a given coastline**

# Conclusion



How?

- Through partnership and collaboration
- Pooling of ideas and sharing of resources
- Non-duplication of efforts –wasting limited resources