



Netherlands
Business
Support Office

Maintenance by Design

Managing Storm Surge Barrier Upkeep

S.D. van der Geer

04-03-2025



(Beeldbank Rijkswaterstaat, 2025)

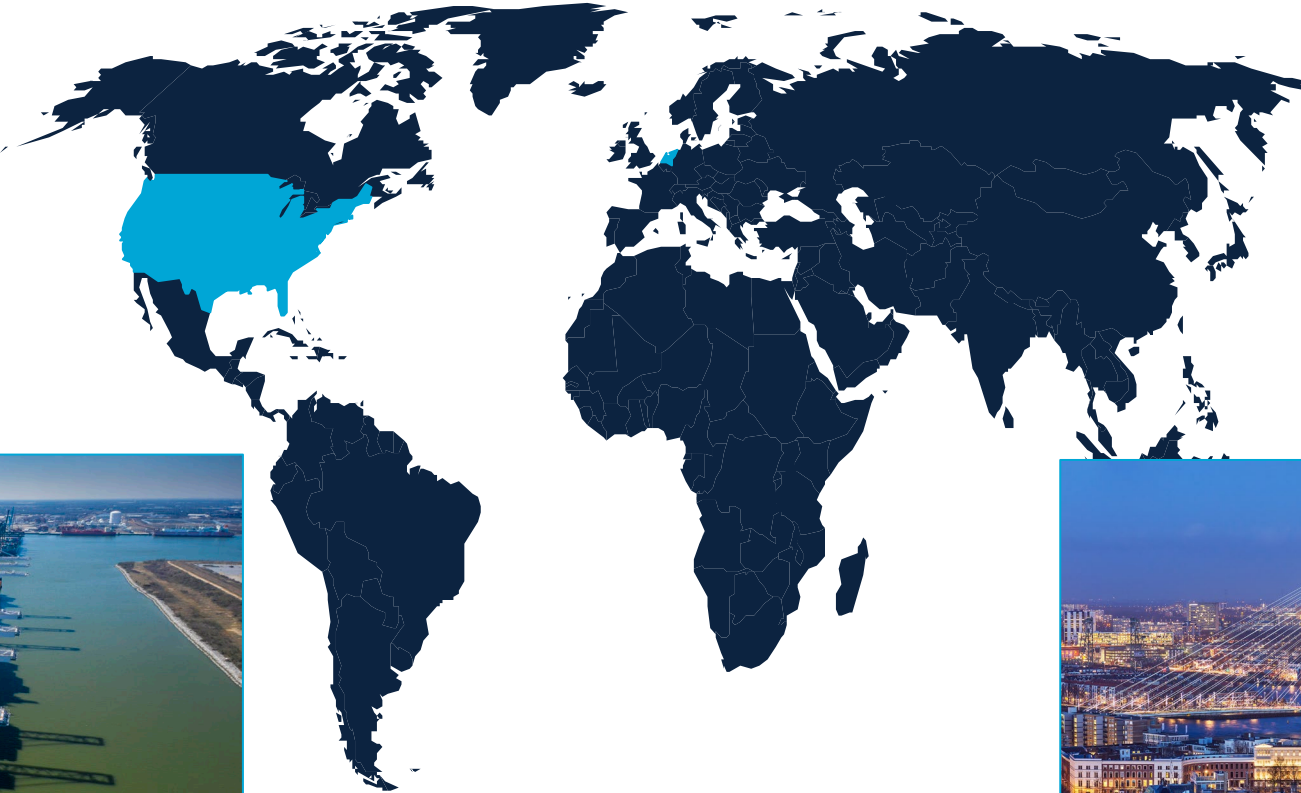


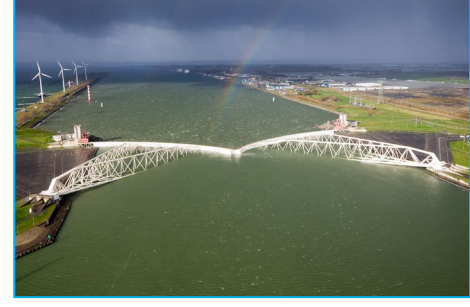
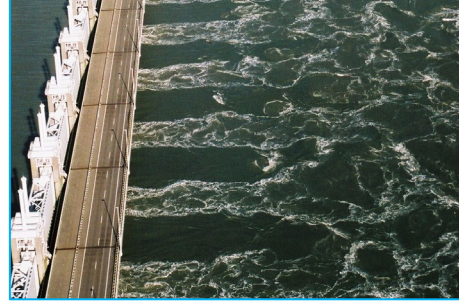
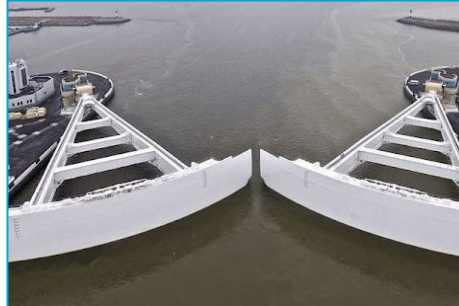
SANDER VAN DER GEER

“Passionate about engineering and policy, I am committed to build resilient infrastructure”

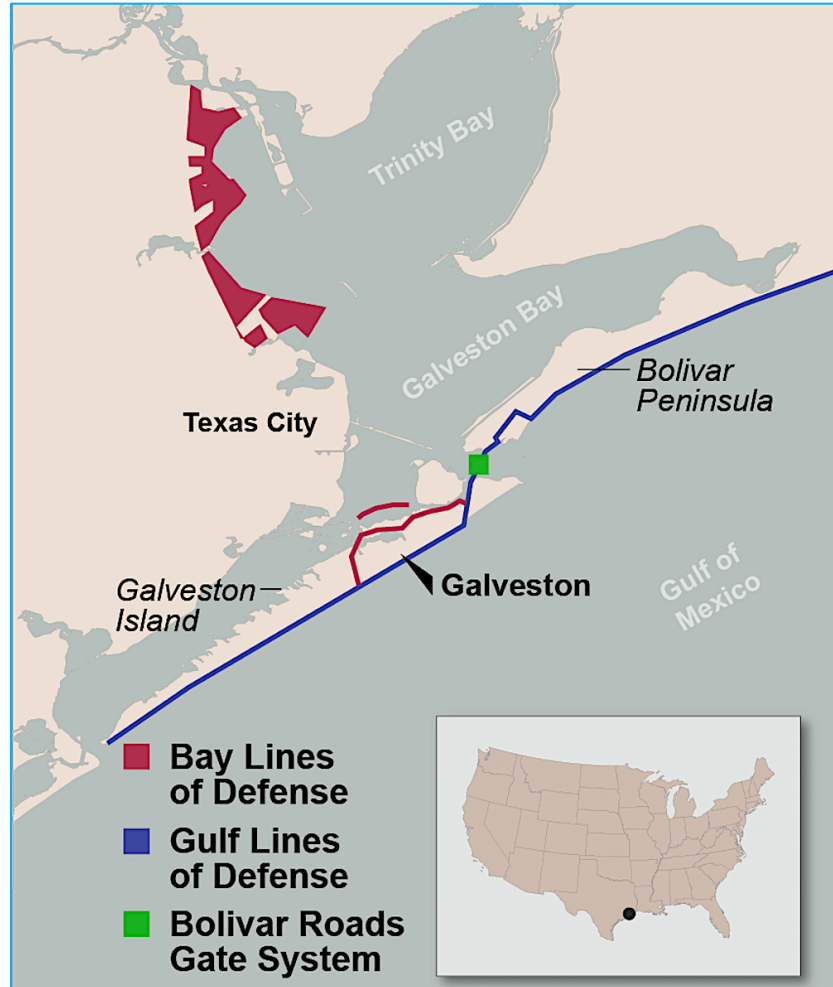


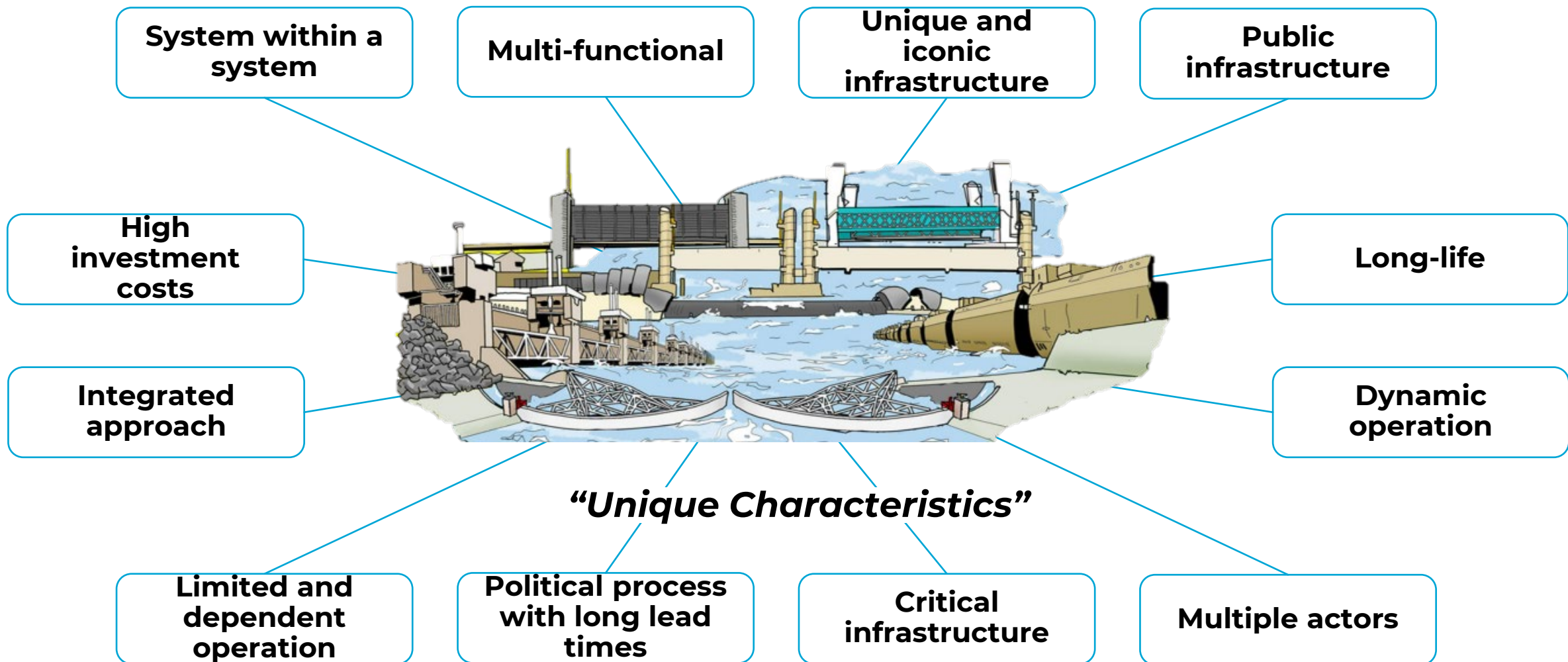
The Coastal Delta at Risk

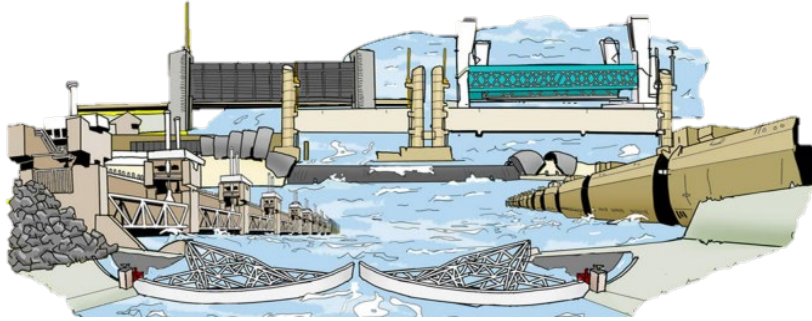




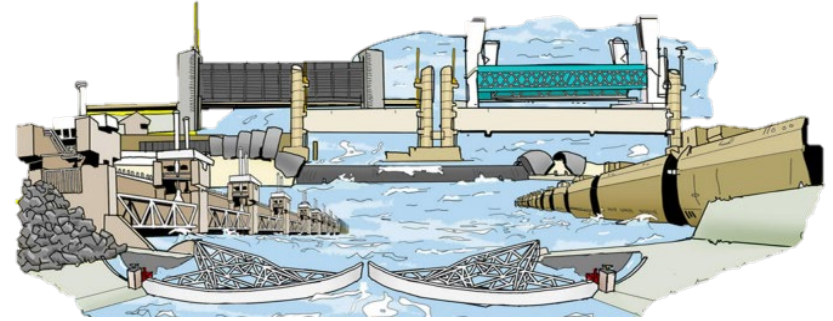
The Flourishing Houston-Galveston Bay Region



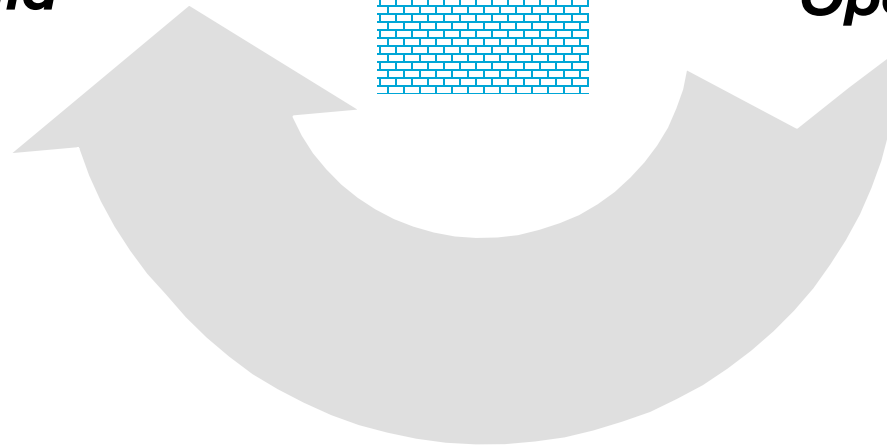
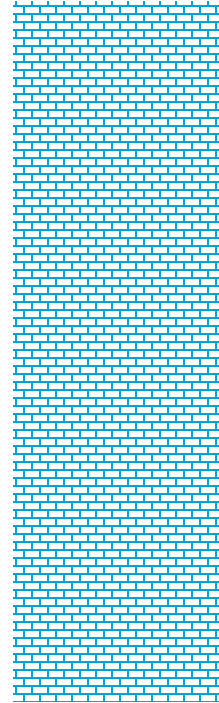
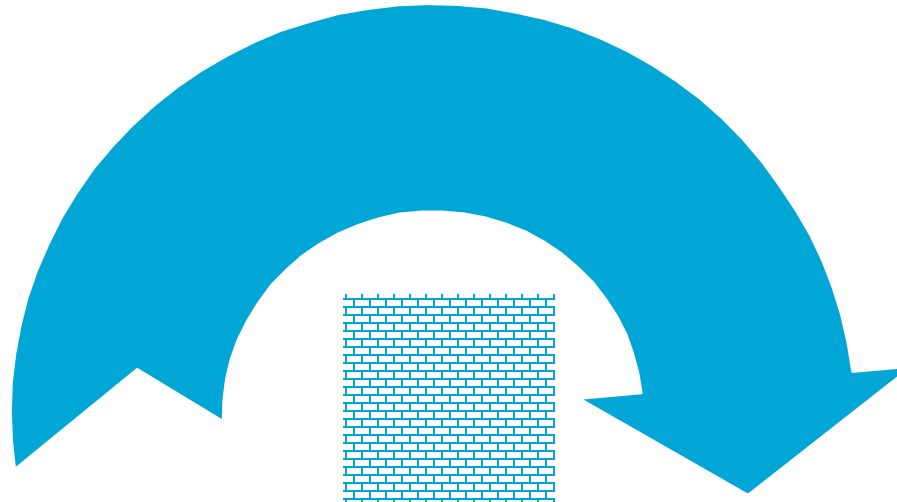




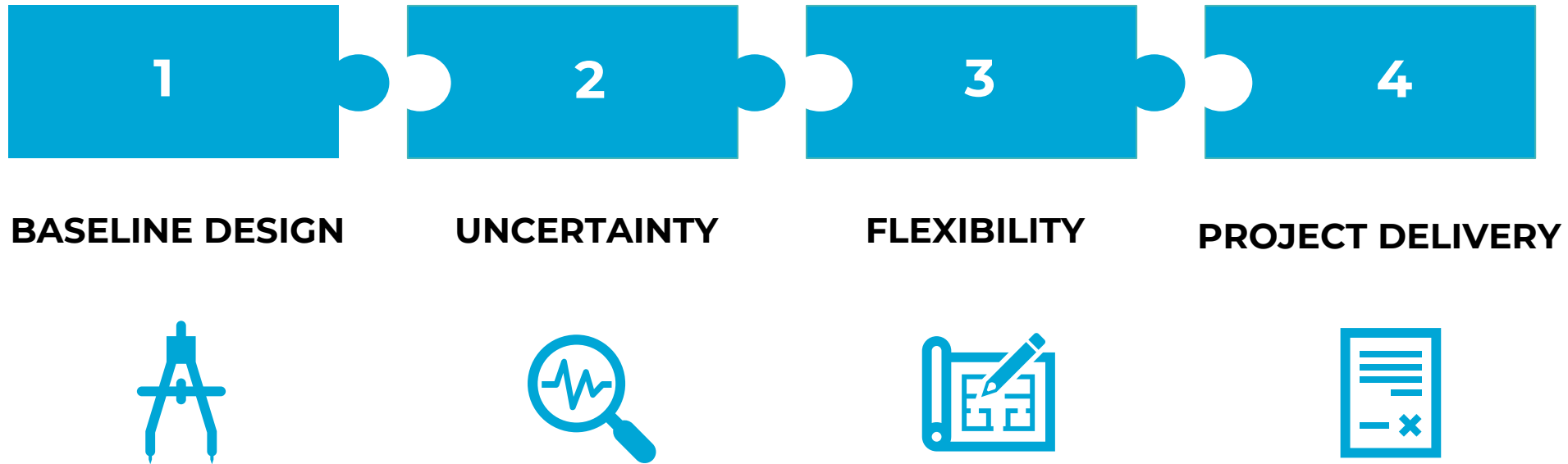
Design & Build



Operations & Maintenance



Research approach



“External Drivers”

“Implement Flexibility”

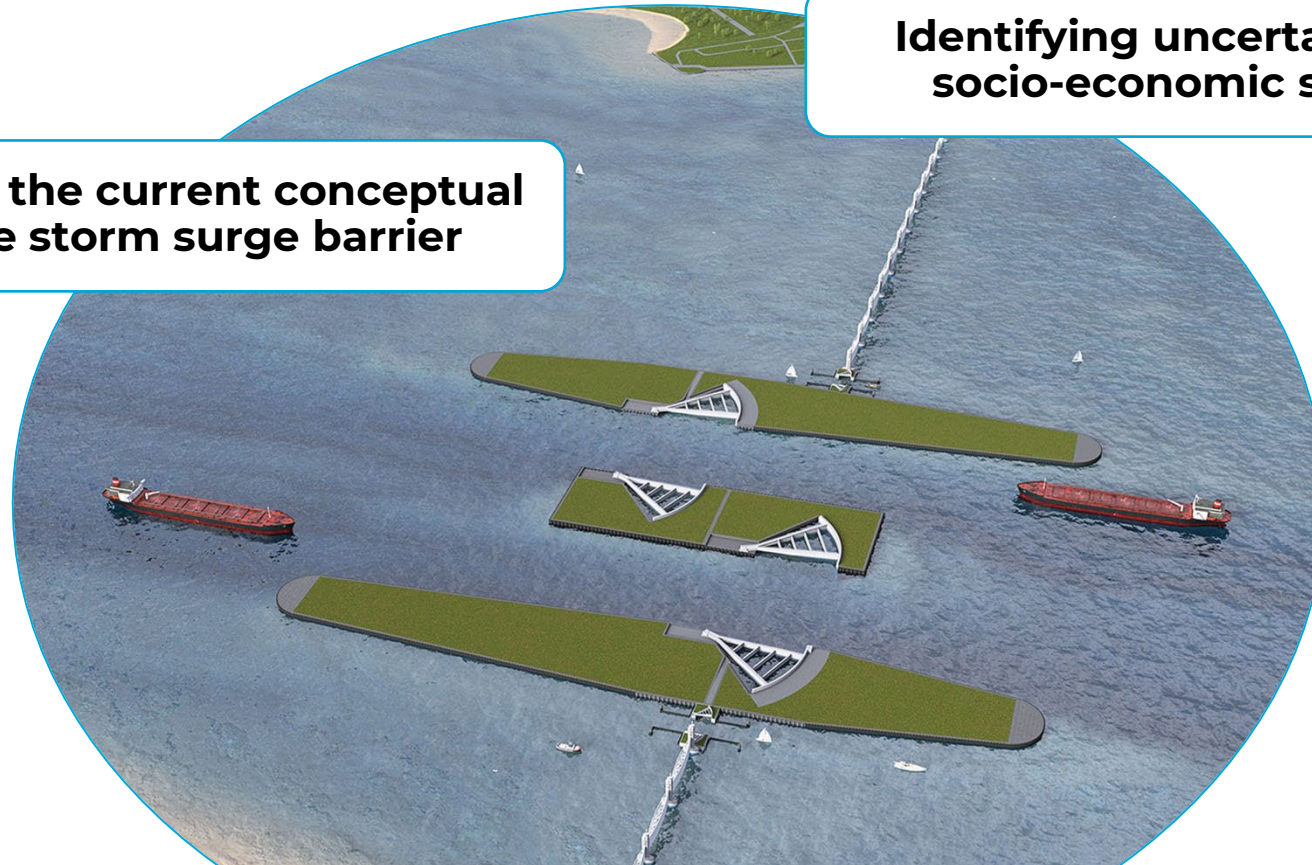
“Maintenance Policy”

“Create Adaptivity”

Research Trip Houston-Galveston Bay Region

Identifying uncertain physical and socio-economic system drivers

Understanding the current conceptual design of the storm surge barrier



Grasp the operational functionality and maintenance of the storm surge barrier



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Thank you for your attention

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