Deltares

Community Flood Resilience Support System for Coastal Communities across the U.S

Demonstrated through a pilot project in Charleston, South Carolina

Kathryn Roscoe



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Preparing for the future





Drivers of risk







What is the system response?





Charleston flooding from heavy rains in September 2020

Modeling needs to be easier and faster



Research and development collaboration

Deltares USA



Science and Technology





COMMUNITY FLOOD RESILIENCE SUPPORT SYSTEM



Nuts and bolts



Charleston Application

- Lots of studies in Charleston
- How does the CFRSS help?

"This tool will help show benefits and even the playing field. We will be able to compare the effectiveness of different measures in different areas. And find out what is effective where, and for how long" – Mark Wilbert, Chief Resilience Officer, Charleston



Charleston Application



Essential Facilities



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Future ideas for the CFRSS





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Adaptation tipping point calculator

Contact

- Kathryn.Roscoe@deltares.nl
- www.deltares.nl
- @deltares

- ➡ info@deltares.nl
- @deltares

- in linkedin.com/company/deltares
- f facebook.com/deltaresNL

