

FloodAdapt

Explore infrastructure investment choices to protect against future climate risk


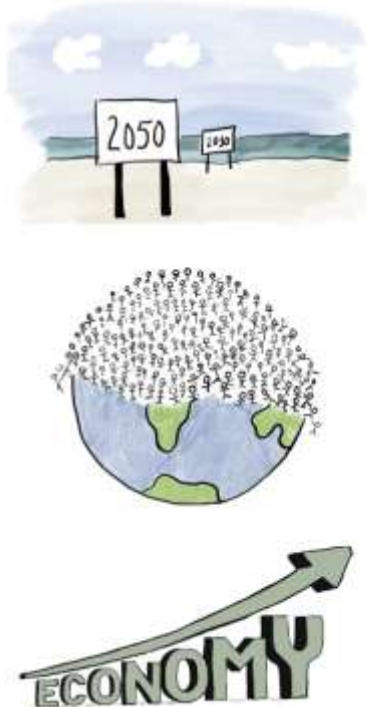
Geospatial World Forum 2026

Dr. Björn Backeberg

April 30, 2026

Infrastructure faces a moving risk baseline

- Flood risk is **compound**
- Climate + growth \neq stationary risk
- Infrastructure lifetimes $>$ climate certainty

Hazard	Future projections
	

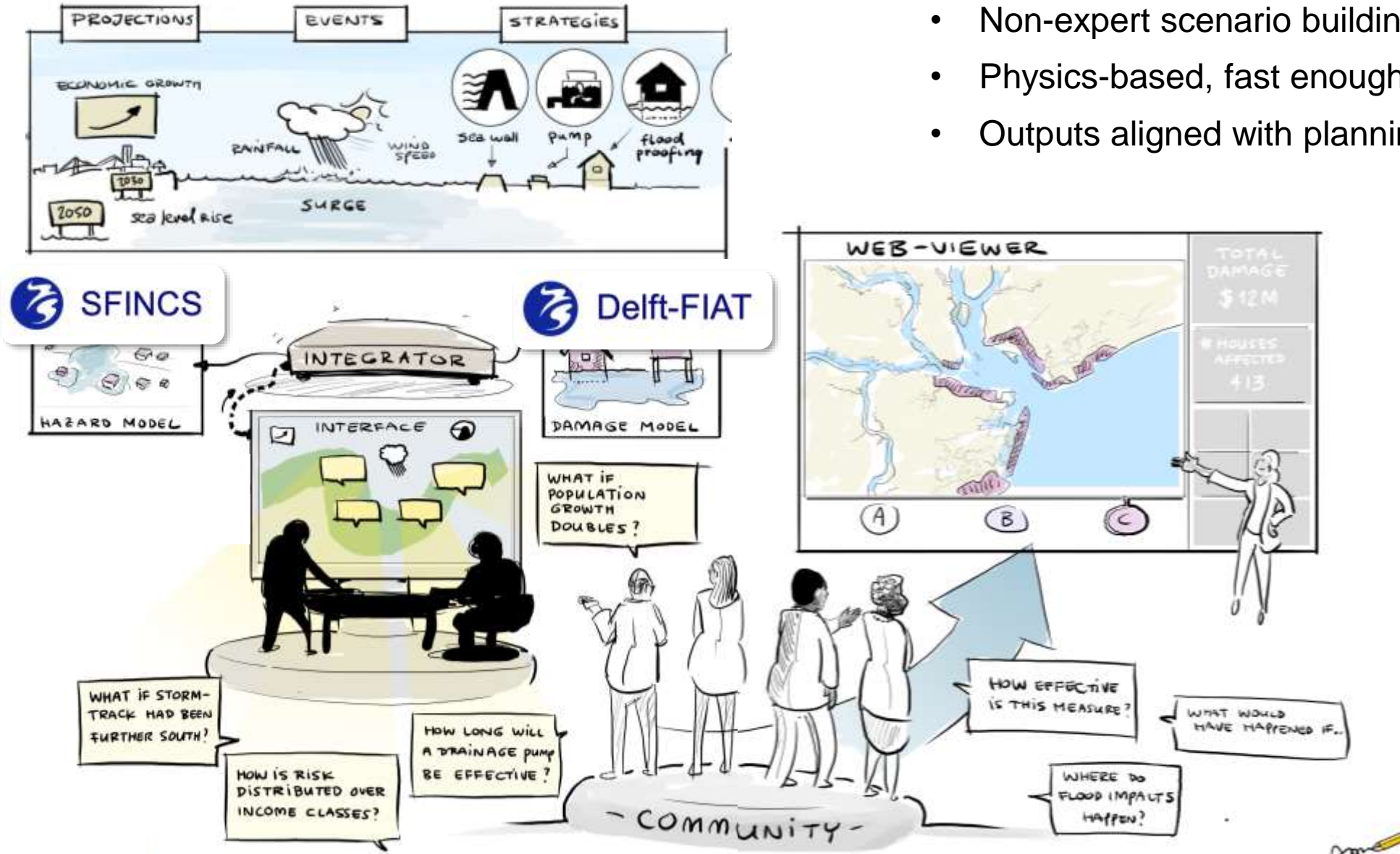
Too many futures, too many options, too little time



The real bottleneck isn't data. It's exploring choices across plausible futures.

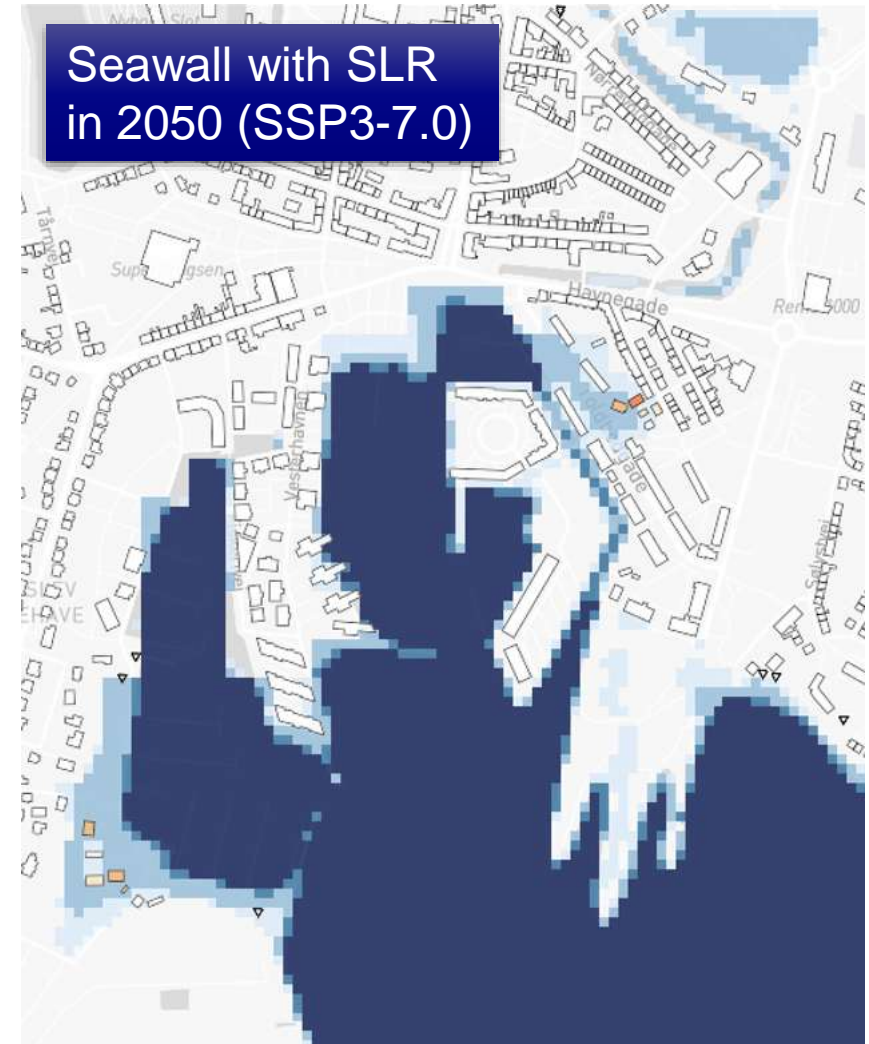
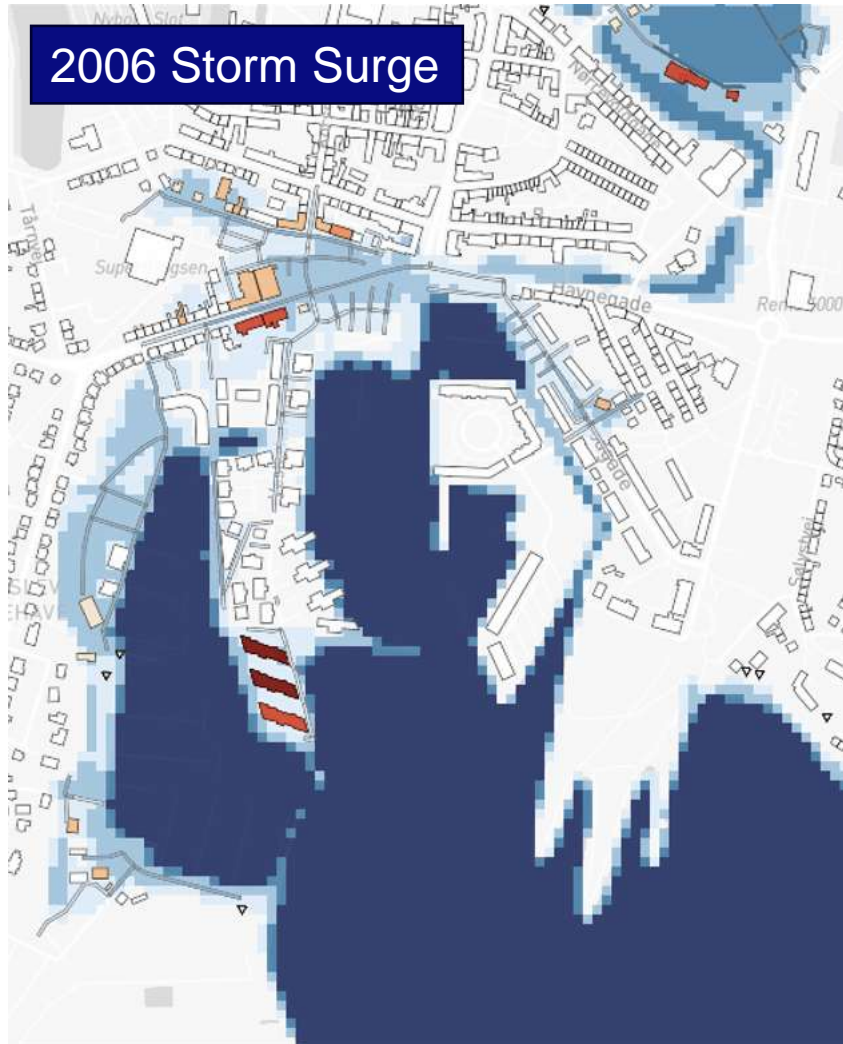
FloodAdapt: from scenarios to infrastructure decisions

- Non-expert scenario building
- Physics-based, fast enough to explore
- Outputs aligned with planning & investment



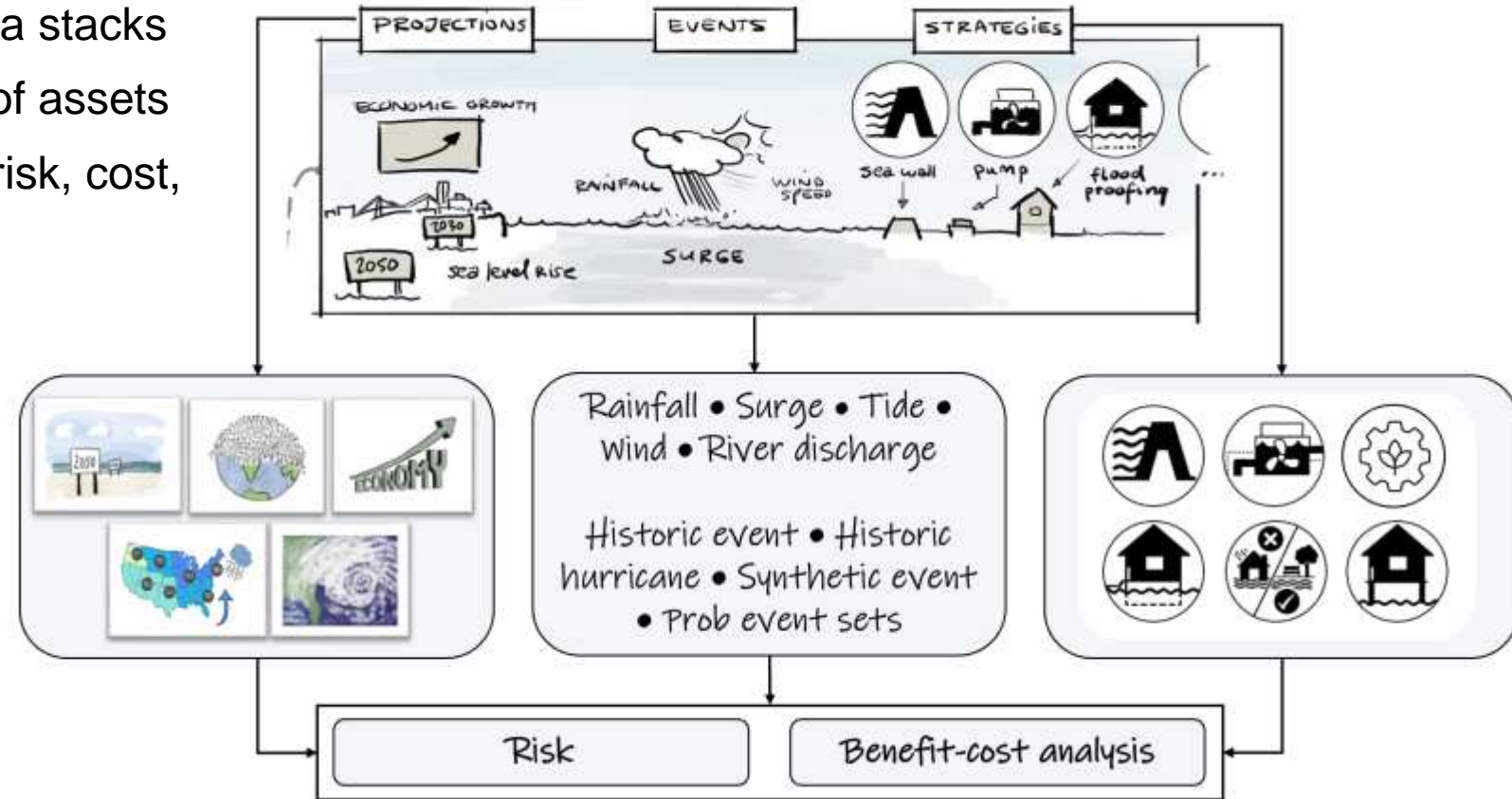
Will this investment work today and in the future?

Nyborg, Denmark



Support for infrastructure planning

- Supports portfolios, not just projects
- Integrates with GIS & spatial data stacks
- Evaluates lifetime performance of assets
- Enables transparent trade-offs (risk, cost, equity)



Thank you

<https://www.deltares.nl/en/software-and-data/products/floodadapt>



• FloodAdapt

FloodAdapt is an open-source decision-support tool that helps communities understand and plan for future flooding. It combines powerful, physics-based models with an intuitive interface, making advanced flood and impact simulations accessible to a wide range of users. With FloodAdapt, users can define and evaluate "what-if" scenarios – combinations of flood events, future conditions (like sea level rise or population growth), and adaptation strategies. FloodAdapt then rapidly generates flood and impact maps, informative metrics and infographics, and scenario comparisons to guide robust, equitable decision-making.

Go directly to



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