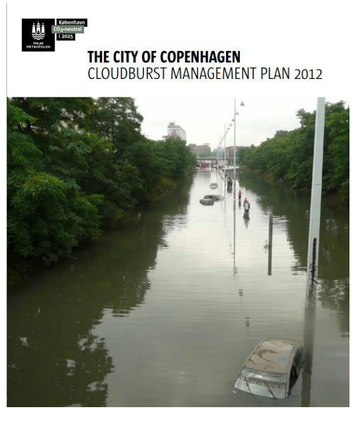

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MAIN DEMO CONTACT:
Morten Ejsing Jørgensen, City of Copenhagen.
Email: ZI0M@tmf.kk.dk

OVERVIEW OF COPENHAGEN DEMO

The aim is to develop a Bayesian Network based modelling framework to assess the insurance value of blue and green infrastructure ecosystems with respect to urban surface- and groundwater induced flooding, influenced by climate change induced sea level rise

Nature Based Solutions

Green and blue infrastructure in Copenhagen
Lessen the risk for urban flooding
Anticipated Natural Assurance Scheme based on green an blue infrastructural solutions

Key Stakeholders

City of Copenhagen and Frederiksberg
Water supply companies; Citizens
BBN can include stakeholder input

Main Outcomes Sought

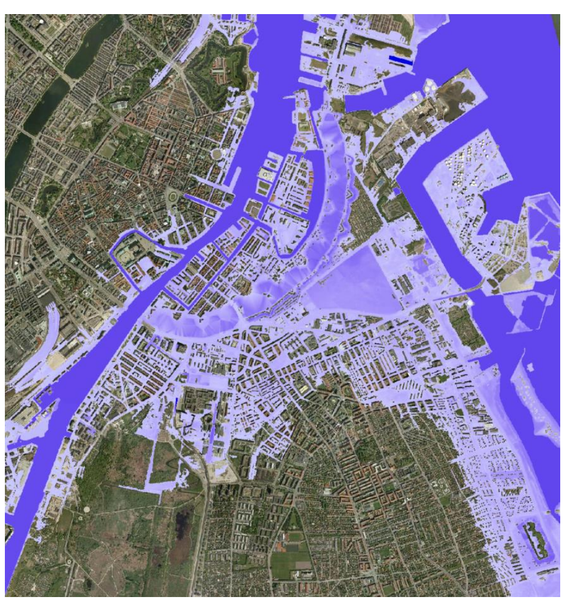
Potential for viability of NBS across
The City of Copenhagen. Maximizing the
Insurance value of NBS by optimization
Locations of green and blue infrastructure

Bayesian Belief Network (BBN) approach

BBN can integrate knowledge from different Domains. Knowledge from hydrological models, expert elicitation and monitoring can help analyse NBS solutions

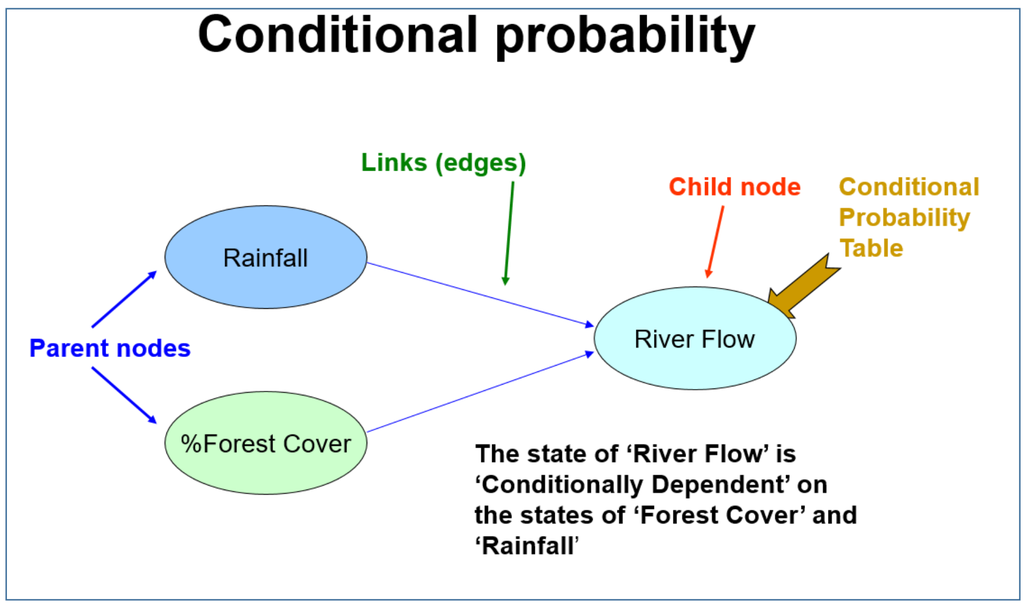
Flooding from extreme precipitation

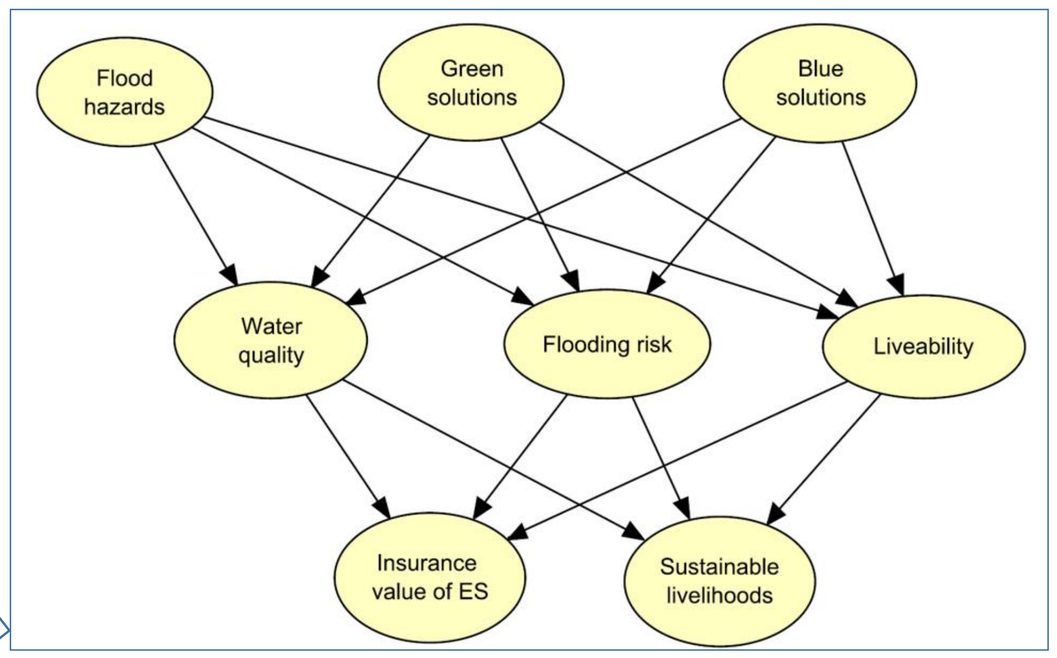
Flooding from sea level rise

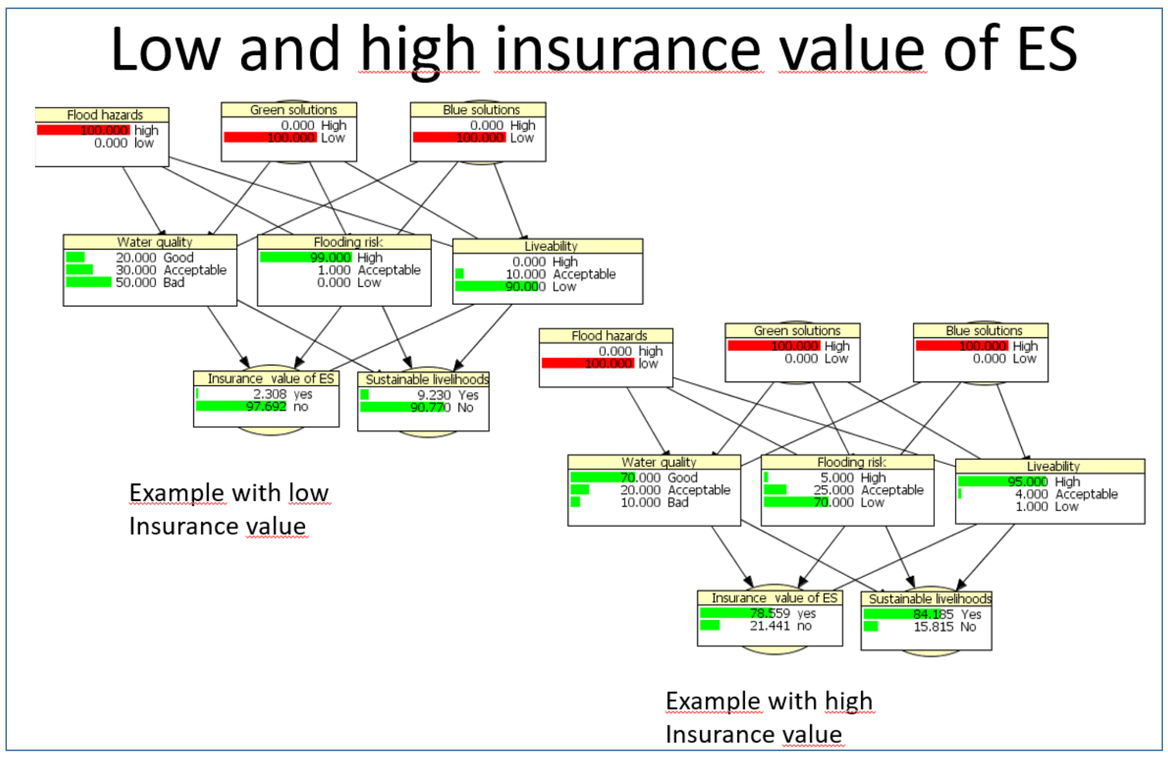


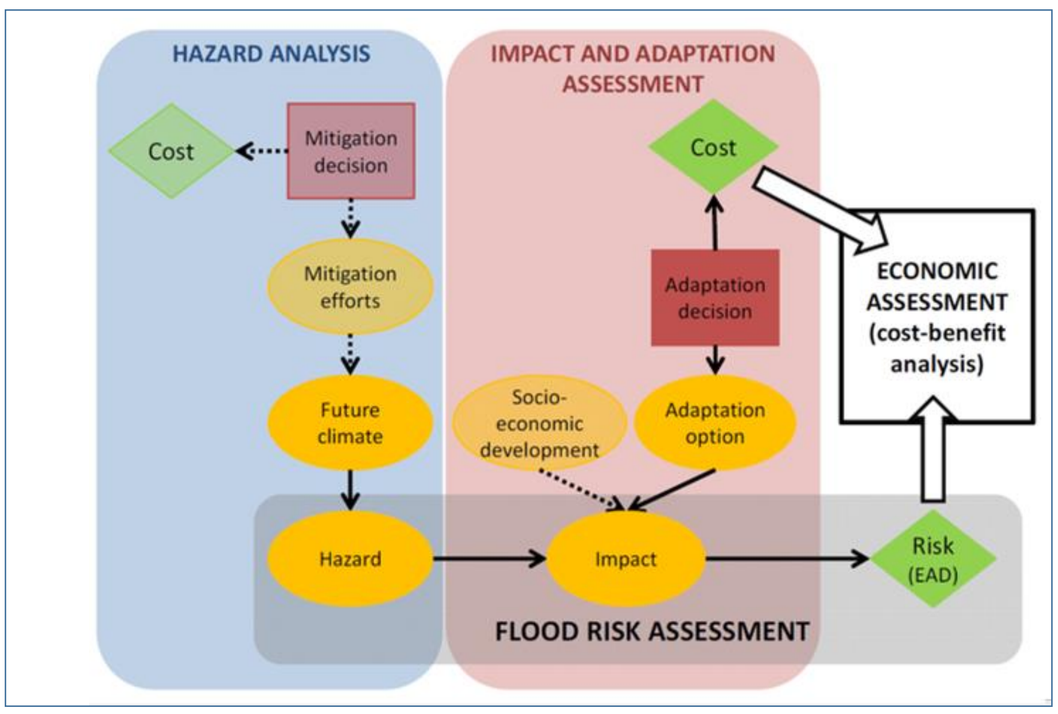
INSURANCE VALUE OF ECOSYSTEMS

Private home owners and insurance companies, public authorities and utility companies are anticipated to benefit from investing in NBS to reduce flooding risk and assurance premiums









Source: Helena Åstrøm (PhD thesis 2015 DTU CPH)

Main partner participating

GEUS

Bayesian Network modelling framework including urban hydrology and stakeholder involvement