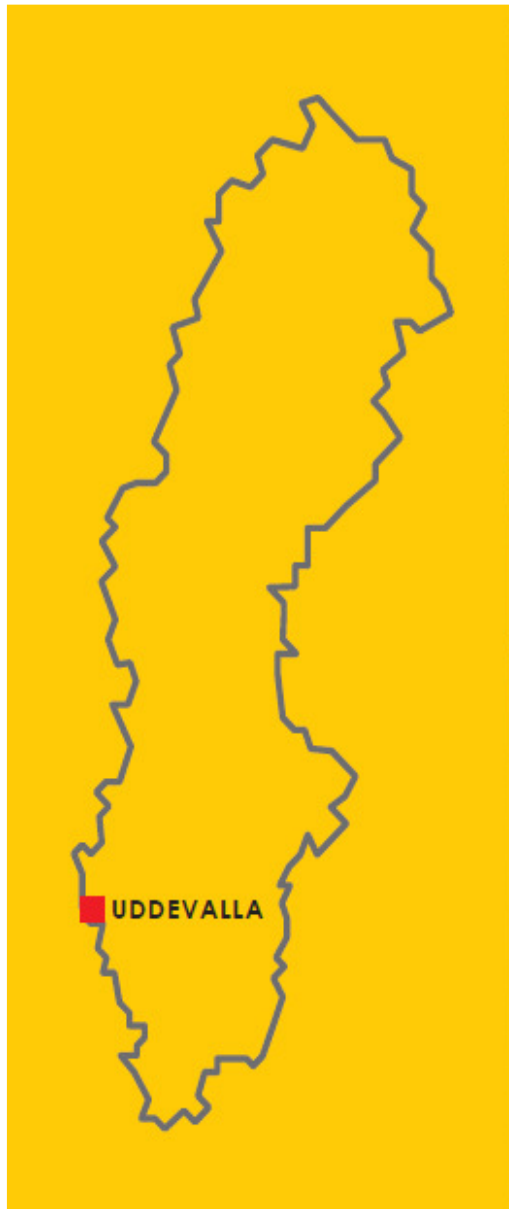


"Coast is clear"

-

Innovative Climate Adaption against Storms and Flooding in Coastal Communities



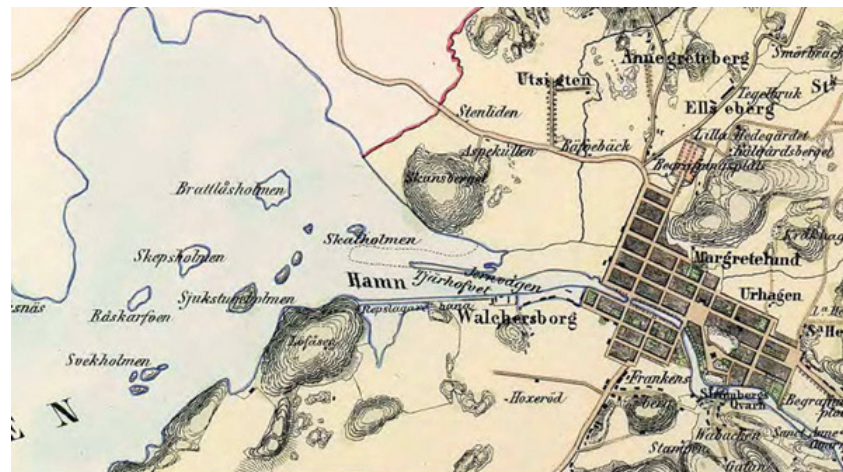


The Uddevalla Bridge was inaugurated in 2000



Challenges:

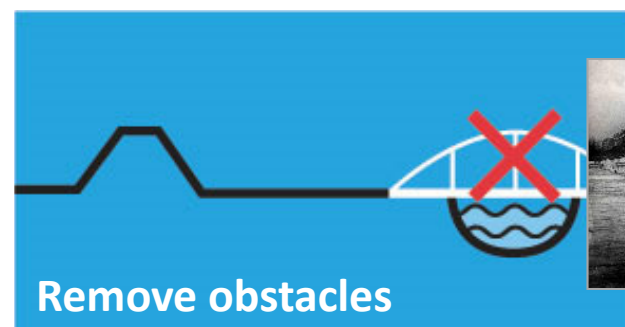
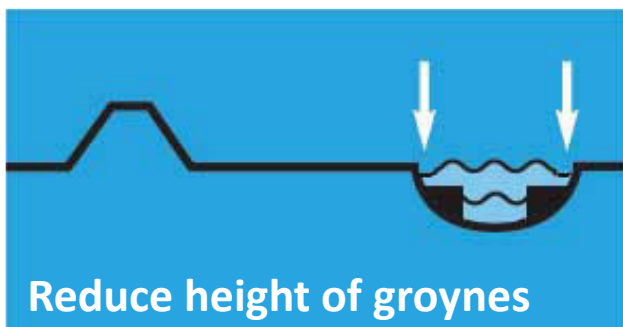
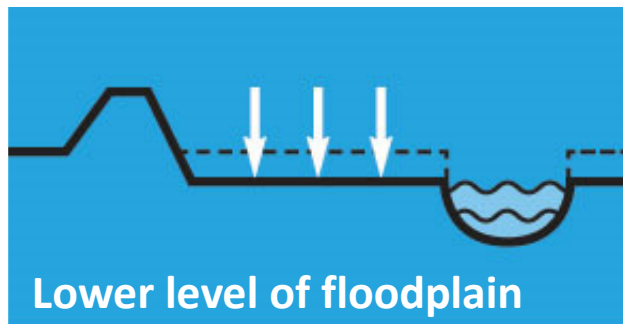
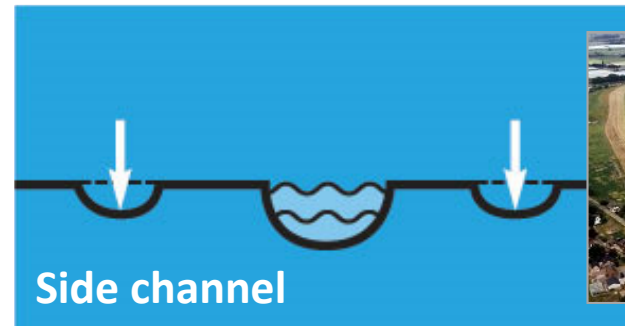
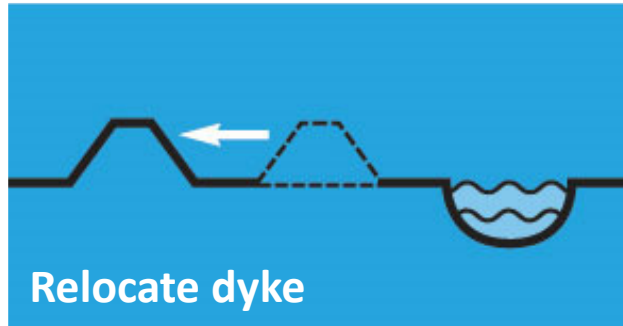
- Annual floods
- Expansion area
- Old industrial area
- Subsidence
- Polluted ground



Future vision



More natural fluvial flood protection measures



Nature based coastal and pluvial flood protection measures

Examples of more natural coastal flood protection:

- Sand motor project The Netherlands – sand suppletion that "travels" with coastal streams along the coast
- New sand dunes parallel to existing sand dunes at the coast
- Concrete storm protection covered by natural sand layer

Examples of more natural pluvial flood protection (high precipitation):

- Opening up for more infiltration within cities, substituting concrete surfaces
- Creating areas that are meant for retention in cities, so-called water parks and green roofs
- Re-construction of the natural run-off flow routes by removing infrastructural barriers
- Building with Nature is a new design philosophy in hydraulic engineering. Natural elements such as wind, currents, flora and fauna are utilized in designing a hydraulic engineering solution, thereby creating additional benefits for nature, recreation and the local economy.

Contact

Nicolai Slotte – Uddevalla Municipality

nicolai.slotte@uddevalla.se

Maria Åkerkvist – Uddevalla Municipality

maria.akerkvist@uddevalla.se

Geert Schaarp – Sweco

geert.schaarp@sweco.se

