Development of a decision matrix for coastal litter clean-ups in Norway



Why a decision matrix for clean-ups?

- Clean-ups important to reduce the risk of litter in the environment
- But costly and may represent a risk to ecosystems
 - Need tools to
 - prioritize areas and items to clean
 - to reduce potential harm of clean-ups to ecosystems

Explored potential for **map-based tool** guiding coastal clean-ups in Norway



Who are the users?

Authorities or funding agencies for prioritizing areas to clean

Those doing clean-ups

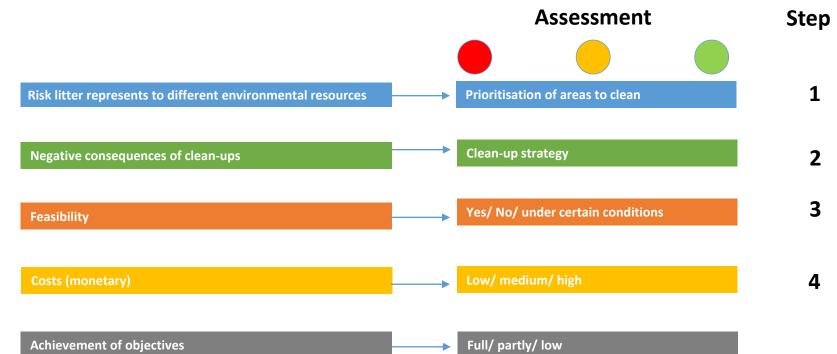




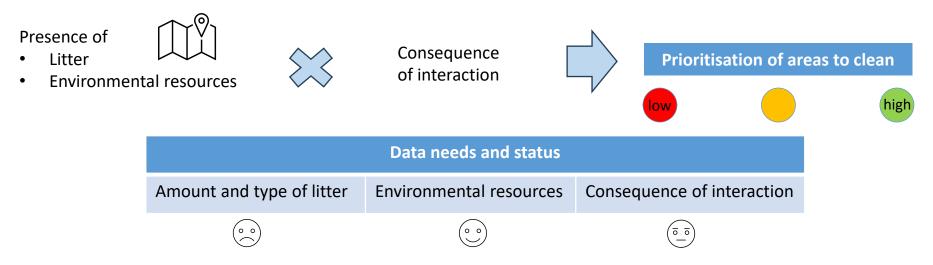




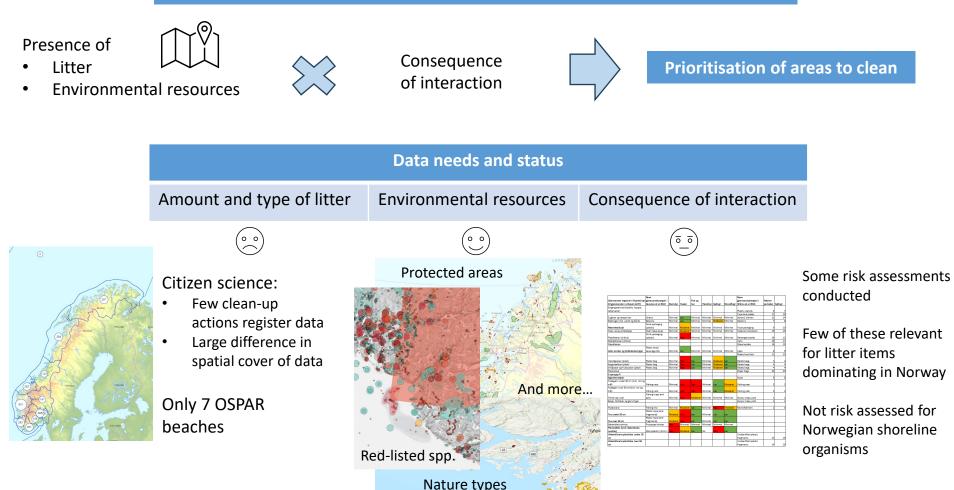




Risk litter represents to different environmental resources



Risk litter represents to different environmental resources



Negative consequences of clean-ups





Negative consequences of clean-ups









Can we identify attributes that can predict areas where litter has a high degree of infiltration and degradation?



Guidelines based on cost-benefit analysis of local ecology, socio-economic factors, environmental cost of technology implementation, risk of technology failure etc

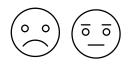


Feasibility



Costs (monetary)

Factors driving clean-up costs

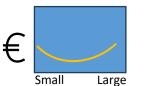


Low/ medium/ high





Infiltration in substate Technology requirements



Size of litter Amount of litter



Distance to port/ waste management Transportation need



Competence requirement HMS

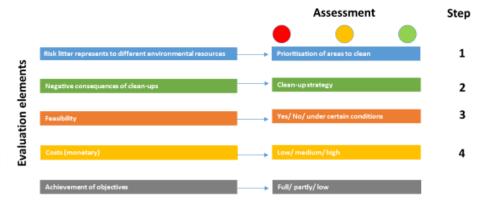
Future work

- Further identify attributes and values of these
- Expert opinion processes
- Test on three different cases with different properties
- Discuss the results with experts and users



Acknowledgement





Questions? Comments?

NIV