Adaptation in Urban Planning and Waterfront Development

Sub-project 4 in: The Potentials of and Limits to Adaptation in Norway (PLAN)

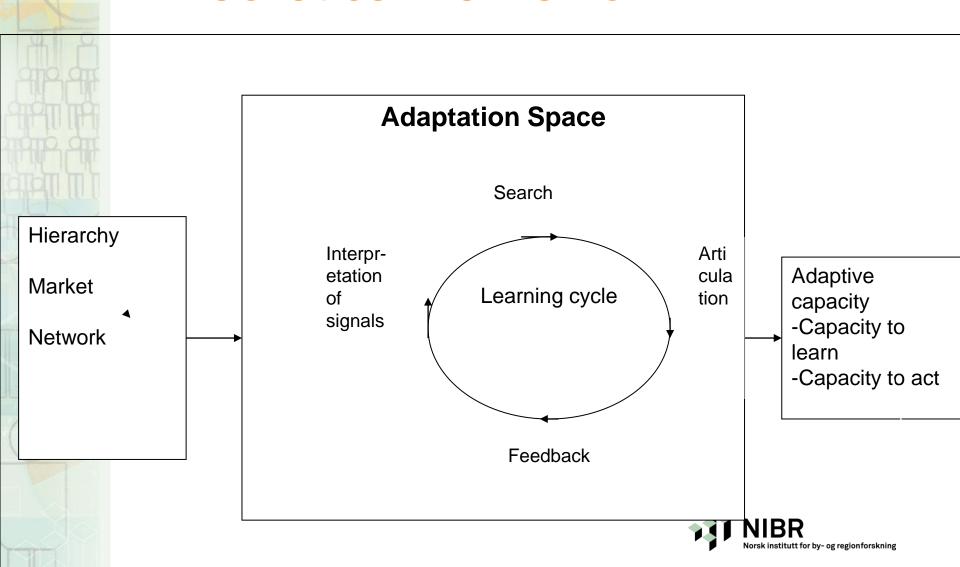
Knut Bjørn Stokke, 03.09.09



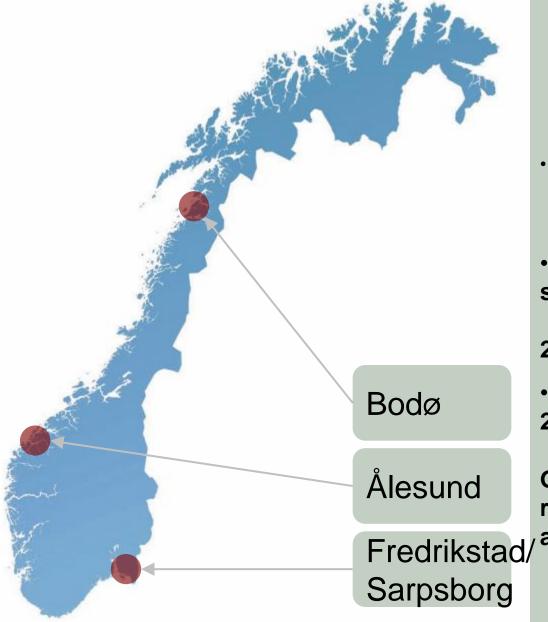
Context for adaptation: Urban governance theories

- Look to our own research field, theoretically and empirically
- Adaptation within a neo-liberal planning ideology
- Adaption within a complex setting of numerous actors with different values, goals and interests
- A challenge of coordination and collective action
- The theoretical framework is outlined in Adapting to Climate Change: Organizational learning and governance in adaptation in urban development

Theoretical framework

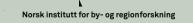


NIBR'S SUB-PROJECT - CASE CITIES

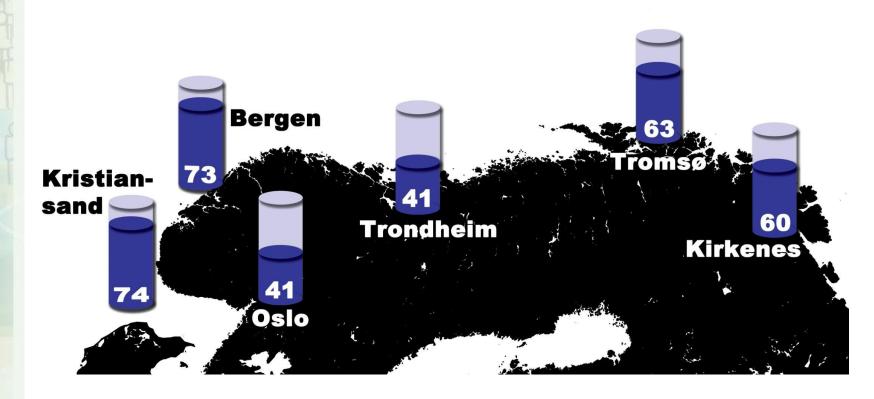


- First round of case studies conducted in 2008
- Second round scheduled for completion in 2009
- Project duration:2007-2010

Give some preliminary results from Ålesund and Bodø



Sea Level Rise in Norway



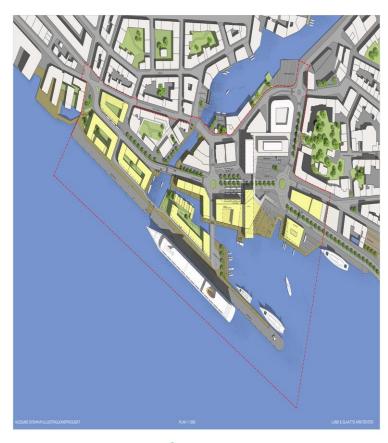


Ålesund



Scenarios about sea level rise – case Ålesund

- Urban waterfront development on earlier port areas – local plan accepted 23. april 2009
- Requirement: increased level for building: from 2.2 to 2.7 3,2 m
- Late in the process
- Dialogue between planning authorities, environment officer and port authority





Case Ålesund, cont.

- New report about sealevel rise important
- Lack of reagional/national guidelines – individual initiatives in the administration





Scenaros about sea level rise – case Bodø

- Central areas already affected by storm surge
- Local plan central areas: (Nerbyen)
 - Employee contacted climate researchesBjernes-senteret i Bergen
 - Requiement: building must withstand 0,9 meters sea level rise







- Fragmentation and lack of coordination internally and externally
- Risk and vulnerability analyses a technical operation
- Based on individual initiatives
- Limited feed back loops: "municipal dementia"
- No coordination between market actors and municipality





- Central authority a limited role: no central guidelines issues:
- Fragmented central authorities: Minstry of Environment Ministry of Justice
- Unclear division of responsibilites between national and local authorities
 - 2 % of mayors agree that the municipalities must bear the main responsibility for adaptation



Adaptation within market

- Few signals from the market Still great demand and high prices on water front developements possibly exposed to sea level rise
- Short planning horizon- "build and disappear"





- So far only limited and isolated network arenas for learning and acting
- Some learning networks among municipalities sponsored by Ministry of Environment and the Norwegian Research Council

