

Adaptation to Climate Change in Norway: National, Regional and Local Level, Risk Assessments and Planning Processes

Dag Olav Høgvold Chief analyst, Directorate for Civil Protection DSB Riga 26.11.2014



Norway – exposed to natural hazards





Impacts of climate change in Norway

- More heavy precipitation
- More floods
- Landslides and avalanches
- Sea level rise/storm surges
- Melting sea ice in the Arctic







Role of municipalities

- Key instruments for adaptation:
 - Responsible for safety and wellbeing of their own citizens
 - Responsible for societal planning
 - Avoild development in areas exposed to risk
 - Planning and development of critical infrastructure

Civil Protection Act

Planning and Building Act



Tools for adaptation – legislation

- Civil protection:
 - Holistic risk and vulnerability assessments
 - Prevention & Preparedness planning
- Societal planning:
 - Risk and vulnerability assessments for new developments
 - Land-use planning
 - Building permits
 - Sector planning

Civil Protection Act

Regulations for municipal preparedness 2011

Planning and Building Act

Technical regulations 2010 (safety standards)



DSB's role in climate change adaptation

- Coordination of civil protection
 - Assessments prevention preparedness & response
 - Today's and future climate
 - Development trends
 - Interdependencies
 - Life&health, critical infrastructure, societal functions
- Regulations and guidelines for local planning
- Development of tools and methodology
- Competence building/training
- Monitoring of national, regional and local authorities





Four phases in societal planning





Thank you!

