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Coastal Climate Risk Coping and Sustainable Development Goals for Cities

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The COHERENT project, funded by Innovation Fund Denmark, was instigated on Nov. 1 and addresses risks in the coastal zone of both natural and anthropogenic origin and the interplay between them. The project is highly multidisciplinary spanning natural, social and economic sciences as well as time scales from the immediate hazard response to longer term adaptation and management and with a high degree of cross-work package dependencies and coordination. This enables a 'COHERENT' approach in line with the session topic of 'regional transformations', where the relationship between risks from extreme climate change events and sustainable development goals of coastal areas and cities will be a major research and application area.

The presentation will introduce our methodological approach, where we combine quantitative assessment and modelling of physical flooding risks and social-science studies of damage costs, risk perception, technical adaptation measures, and social coping capacities. We will develop a new dynamic damage cost function methodology, and apply it to case studies of Danish coastal risks in the municipalities of Aabenraa, Ringkøbing-Skjern, and Skive as a basis for assessing how sustainable development goals in cities can be aligned with climate risk coping.