



**Regions
4Climate**

Køge Bay Denmark



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ADAPTATION TO CLIMATE CHANGE





- **Location:** The project area covers 11 municipalities that stretch from Greater Copenhagen in the north to the chalk cliffs at Stevns Klint in the south. Køge Bay is a shallow bay in the southern part of the Oresund maritime strait.
- **Population:** 900.000
- **Area:** 550 km²
- **Population density:** 1,818 inhabitants/km².



Photo: Greve Kommune



Regions important activities

- Develop an augmented reality app that showcases flood risks and solutions
- Enhance social resilience and mental wellbeing through engagement
- Develop business models for multifunctional coastal landscapes

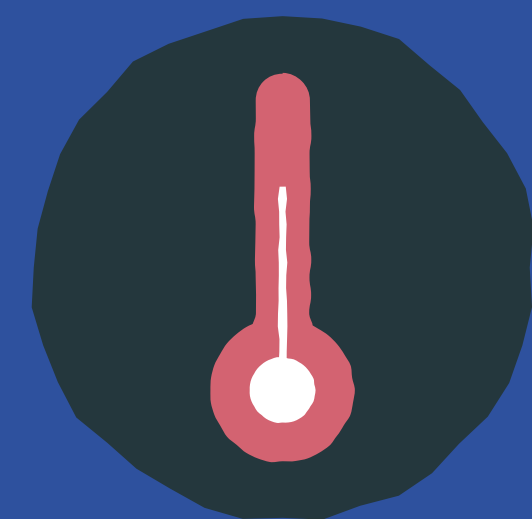
Main climate challenges



Extreme storm events



Flooding



Higher temperatures



Droughts

Stakeholder: Mapping, selection and engagement

The main stakeholders are local municipalities, decision makers and citizens. Engagement has taken place through co-creation workshops and outreach activities facilitating dialogue.

Interview with stakeholder



In this video a key stakeholder describes the Køge Bay Beach Park and his experience with participating in developing the augmented reality app.

The region is committed to:



Using augmented and virtual reality applications to improve the general understanding of climate risks and solutions



Enhancing societal resilience towards flooding, especially in socially vulnerable neighborhoods.



Focusing on building social wellbeing and resilience of communities when dealing with changes along the coasts



Enable scalable, nature-based coastal protection models for sustainable coastal development across Europe.

Project activities

1. Video interview on the work in Køge Bay



In this short video you can hear about the work we do in Køge Bay.

2. Field work in the Køge Bay Beach Park with a focus on justice and mental wellbeing.

Comprehensive fieldwork has been done in the Køge Bay Beach Park area to map out user groups and feedback on the landscape. The results are included in analysis of how to increase justice elements in planning processes as well as how green coastal landscapes can have a positive impact on mental wellbeing.



3. Workshop with stakeholders to develop AR-app from idea to recording to testing

A key result has been the development of an augmented reality app that showcases risks and solutions for coastal flooding in Køge Bay. The development process included several co-creation workshops with key municipal stakeholders including field visits and pilot testing.



4. Future visioning workshops and a just transition roadmap

We have been testing the concept of future visioning workshops as a way to enhance the inclusion of underrepresented societal groups in planning processes. You can read about the methodology and the implementation in the published [just transition roadmap for Køge Bay](#).



5. Consortium meeting 2025

In 2025 Køge Bay hosted the R4C consortium meeting. The program was packed with field visits and workshops to further progress in the project.



6. Analysis of multifunctional landscapes

We are analysing several generations of multifunctional coastal landscapes to map best practices and create sustainable pathways for future coastal protection measures. We zoom in on Køge Bay Beach Park, Amager Beach Park and Lynetteholm.



Photo: Strandparken IS

Photo: Jakob Riemer

7. Outreach activities

Throughout the project period we have attended several events to promote our work in Regions4Climate and engage in dialogue with citizens both locally in Køge Bay and nationally across the country. We have returned to the Climate Festival several times showcasing the augmented reality app and facilitating debates around multi-layered safety dilemmas.



8. Presentation at European conferences and events

The Køge Bay partners have been actively engaged in international conferences and webinars. We took part in a panel discussion on climate adaptation at the European Week of Regions and Cities 2023. The two videos will lead you to presentations from a webinar “Tech Meets the Tide” facilitated by Revolve as well as PhD Mia Prall’s webinar on working with just transition in Køge Bay.



Presentation at EWRC



Godmorgen med DNNK: Social retfærdighed i klimatilpasning - YouTube

Social Dimensions of Climate Adaptation – DNNK

A mini-conference focused on the social aspects of climate adaptation was held one June 2, 2026 at the University of Copenhagen, bringing together researchers and practitioners to discuss how climate adaptation shapes cities, coastlines, and everyday life.

The event featured eight presentations offering diverse perspectives and cases from research and practice. Discussions focused on themes such as social vulnerability, climate justice, participatory approaches, and the inclusion of underrepresented groups in decision-making and design processes. Speakers also addressed pathways towards more socially just and transformative approaches to climate adaptation. Across the sessions, the event highlighted the importance of strengthening dialogue between research and practice, and of integrating social dimensions more systematically into climate adaptation planning across governance levels.

The conference was organised by DNNK (Det Nationale Netværk for Klimatilpasning) in collaboration with the Regions4Climate partners University of Copenhagen, the Danish Coastal Authority, and VIA University College.

You can find the recordings of the event here: [Social Dimensions of Climate Adaptation – DNNK](#)



Session 1 (Danish)



Session 2 (English)



Wrap-up & Discussions

Advances on regional innovations

- **Societal:** interviewing key expert stakeholders
- **Environmental:** launch of AR app
- **Governance:** focus on involvement of underrepresented groups and participatory planning processes.

Achievements and value

1. Development of the AR app
2. Successful engagement with underrepresented groups
3. Multi-layer safety concept tested
4. Publications on multifunctional coastal landscapes
5. Consortium meeting 2025.

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Partners

