

CALL FOR YOUNG PROFESSIONALS

COPENHAGEN URBAN LAB 2018



AUGUST 5-14

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INTRODUCTION



The city of Copenhagen is ranked as one of the most liveable cities in the world and aspires to be one of the most resilient. Recently the city issued its storm surge protection strategy. The Urban Lab will focus on innovation within storm surge protection measures, both in relation to building materials, multi-purposes and financing, as well as apply new ideas and knowledge to a case area identified by the city to inspire the coming planning processes. The final output will be a catalogue of inspirational typologies as well as a living shoreline concept with applied typologies in the case area.

12 participants will spend eight days in Copenhagen developing ideas and concepts with key stakeholders for the City of Copenhagen.

The lab will take place August 5-14, 2018. Focus will be on the interface between urban hydraulics and urban liveability, and participants will mix technical, social and communicative skills.

The lab is funded and co-hosted by Ramboll, Young Water Professionals Denmark (YWPDK), Greater Copenhagen Utility (HOFOR), Water in Urban Areas (Vand i Byer) and the City of Copenhagen.



BACKGROUND



In 2017 the City of Copenhagen adopted a storm surge plan including a main vision and a level of protection related to an outer protection scheme of Copenhagen, see Figure 1. Until the vision of the plan is established, it is recommended to investigate the potential of implementing short-term local initiatives, which can be established within a short time frame and prevent damages during smaller storm surges. These initiatives are called 'low hanging fruits'. The Technical and Environmental Administration aims to apply the concept of 'low hanging fruits' as a starting point for the case to this year's Urban Lab 2018. The case area is Amager Strandpark, located on the eastern coast of Copenhagen, see figure 2.

A recent study shows that within one year, 77.6 % of the Danish adult population has participated in one or several types of water-related outdoor activities, with the four main categories being visits to water-related destinations, bathing/swimming, nature observations, and water-oriented cultural activities. The results also reveal that the intensity of such activities is highest near cities with high population density. This highlights the great potential of adding recreational values to the proposed solutions.

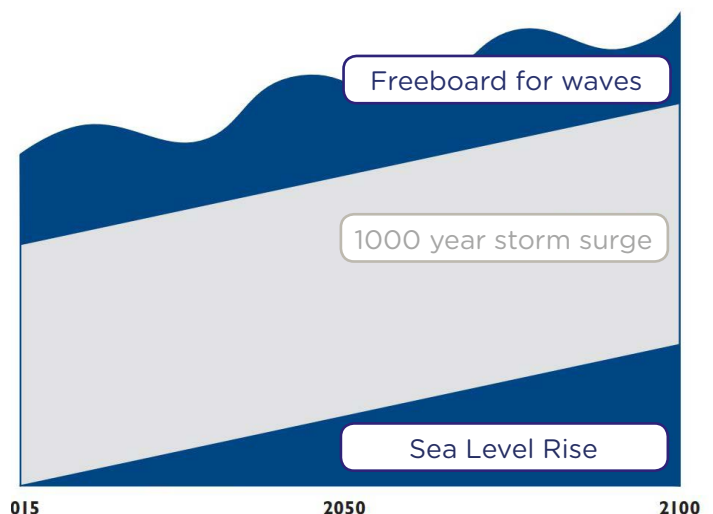


Figure 1 Illustration of methodology for assessing the protection level for storm surge in Copenhagen



Figure 2 Map of the case area and the outer barrier outlined in the storm surge plan

CHALLENGE AND TENTATIVE PROGRAMME



In cities, space is a limiting factor in designing storm surge protection measures. However, adapting to increased sea level rise and storm surges is inevitable for many cities of the future. The concept of living shorelines and nature-based solutions is evolving, but will not be applicable in many cityscapes.

- How does the coastal protection in urban areas look in the future?
- How do you build high, while maintaining or even improving urban quality and life?
- What are the best management practices from across the world?
- Where does Denmark differ?
- How can playing with materials, design and implementation help unfold the variety of options cities have for coastal protection, beyond a traditional flood wall?

These and more are some of the questions the Copenhagen Urban Lab 2018 will try to address through a tailored 8-day programme in August 2018.

The participants will co-develop a catalogue of adaptation measures focusing on aspects such as material, design, etc. for cities to use in their adaptation plans and will apply the developed adaptation measures to a case area in Copenhagen

to illustrate its applicability. Thus naturally, the lab will have two overall phases with two overall outcomes, (1) one catalogue of adaptation measures and (2) different designs of a case area.

Phase 1 will focus on different topics as input to the catalogue of adaptation measures, including but not limited to:

- Materials
- Multi-functionality
- Financing and making the business case

In phase 2 the knowledge produced in phase 1 is applied to the case area of Amager Strand to build a high-level conceptual design for the site.

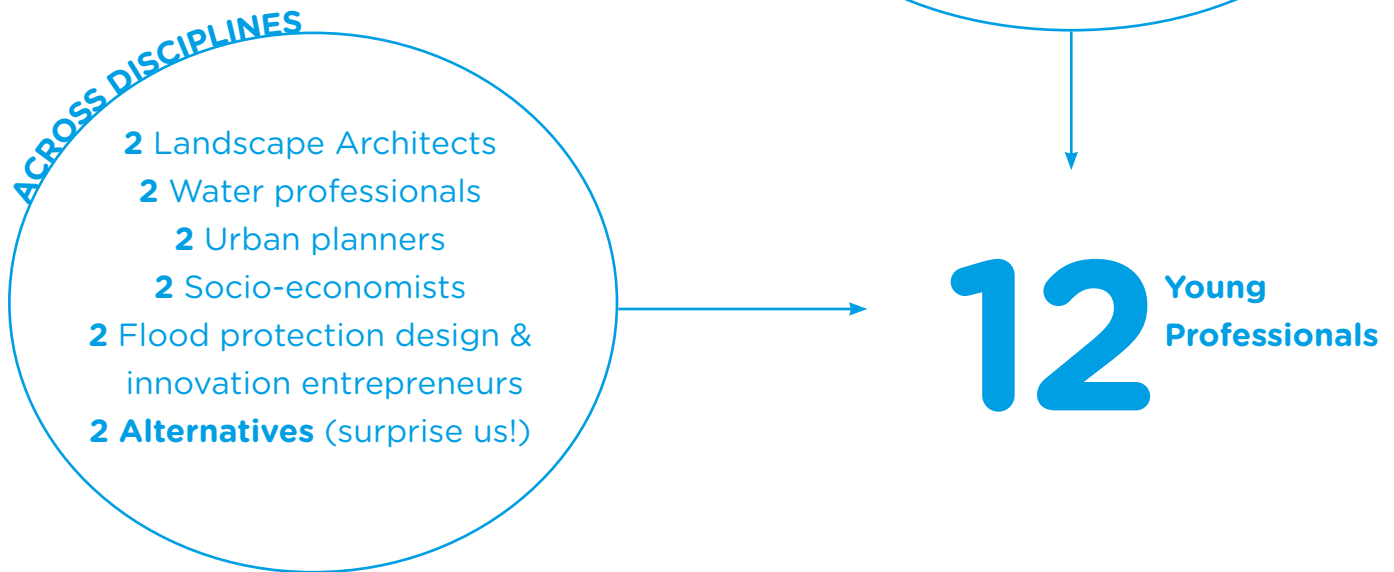
Below a tentative programme is presented.

August	Activity	
5	Arrival	Introduction & dinner
6	Morning session Afternoon session	Theme introduction from experts Group formulation of tasks with experts and communicative expert input
7	Morning session Afternoon session	Themed site/company visits and inspiration Supervised group work
8	Morning session Afternoon session	Supervised group work - I Initial presentation of group results
9	Morning session Afternoon session	Catalogue production and finalisation Introduction to case by the city of Copenhagen
10	Morning session Afternoon session	Site visit to Amager Strand with the City of Copenhagen Group formation, task formulation, community visit
11	Morning session Afternoon session	Inspiration from non-adaptation experts' independent work Group work on conceptual design
12	Morning session Afternoon session	Group work Group work
13	Morning session Afternoon session	Design vetting with KK Group work
14	Morning session Afternoon session	Public presentation of findings with key stakeholders Departure



TEAM

The Copenhagen Urban Lab will be open to 12 professionals, six YWPDK members residing in Denmark and six international young professionals. In addition to the geographic diversity, the team will also be diverse across disciplines. Thus, the call is open to a wide variety of young professionals and we encourage all cultures, genders, geographies and disciplines with interest in the topic or process to apply. Below is the intended constellation of the multi-disciplinarity of the team.



APPLICATION & COSTS



Applicants should submit **one PDF** including:

- **1-page CV**
- **1-page motivation** answering the following:
 1. Which geography & discipline are you applying to?
 2. Which key skills or input do you bring to the team?
 3. What is your motivation for applying and/or for working with storm surge protection?
 4. What do you hope to achieve with your participation?
 5. How do you see the long-term impact of this lab on your career, in the field and/or in Copenhagen?

All participants must be under 35 years of age and local participants must be members of YWPDK (membership is free).

Lunch and dinner will be provided throughout the lab and accommodation will be covered for international participants, only.

You must book your own ticket to/from Copenhagen. It will subsequently be possible for international participants to apply for co-funding of travel expenses up to 50 % of travel costs. Co-funding can, however, not be guaranteed. Funds will be divided in relation to participants and their demands.

All participants, both local and international, will be expected to take part in the full programme.

Applications are due **June 24th** and will be reviewed and scored by the host committee. All applicants will be notified by **July 5th**.

CONTACT



Feel free to contact us for more information or submit your application by **June 24, 2018** to Trine Munk trsv@ramboll.dk

