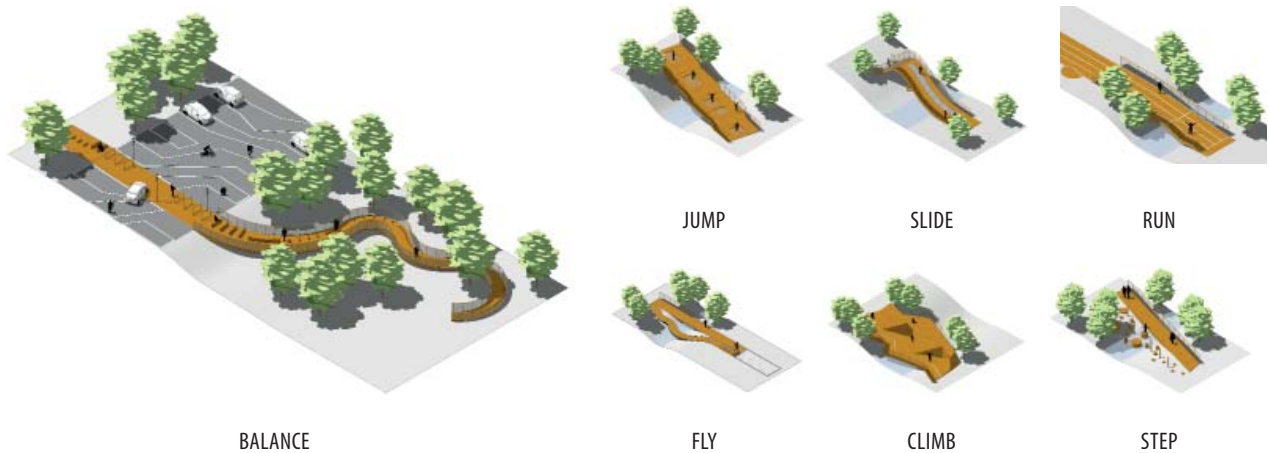




ACTIVITY BRIDGES CREATE NEW WAYS TO CROSS AND PLAY WITH AND AROUND THE RAIN WATER



“THE CLIMATE CITY” IN MIDDELFART: URBAN DEVELOPMENT BY CLIMATE ADAPTATION

“The Climate City” project in the city of Middelfart is Denmark’s largest demonstration project for urban development through climate adaptation. The project is part of the strategic platform “The Climate Laboratory in Middelfart” - an overall Liveable City strategy based on ‘Urban Development by Climate Adaptation’.

As part of the Climate Laboratory Strategy, a number of large-scale innovative climate adaptation projects are presently being developed in Middelfart. “The Climate City” is considered the most beautiful climate adaptation project in Denmark.

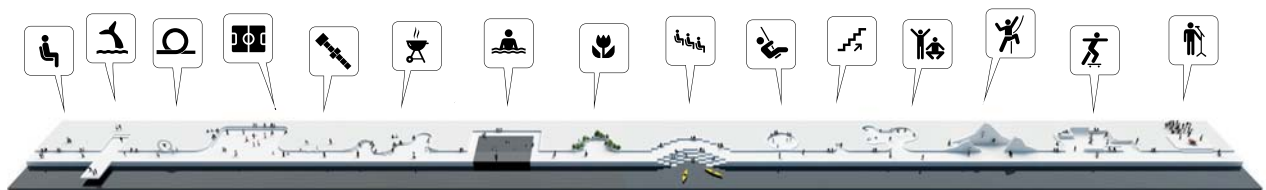
The objective of “The Climate City” is – through a process design based on an architectural acupuncture approach - to generate innovative solutions that integrate climate adaptation with urban development through focus on multifunctional design of urban spaces and structures. Strategically, by managing rainwater on the ground as a supplement to pipes underground - thus developing a city that is both greener, healthier and more fun. A prerequisite is considering rainwater a resource.

“The Climate City” project is based upon a broad-spectrum analysis of the project area – covering both technical, architectural, biological, cultural and historical assessments

as well as input from interdisciplinary workshops and participation of local citizens. The analysis identified the central challenges, focus areas and architectural qualities. Based upon the results of the analysis an architectural competition was announced. The results of “The Climate City Architectural Competition” was published in the spring of 2015.

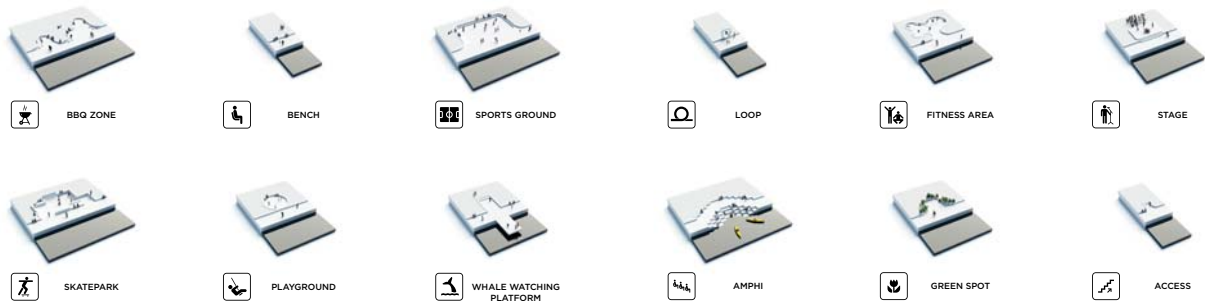
“The Climate City” covers an area of 450,000 m², and is situated on the western slopes of Middelfart facing the Strait of Lillebælt. The project area comprises a number of different area typologies, including residential and recreational areas, two churchyards as well as the medieval town and historical harbour. The project therefore holds a major demonstration value within the field of ensuring resilient cultural heritage cities.

Facts: “The Climate City” project is being realized in the period 2013 to 2018. The project is based upon a partnership between Middelfart Wastewater Utility, Middelfart Municipality and Realdania (a strategic enterprise that supports projects in the built environment). The consulting team consist of GHB Landscape Architects and Adept (an architecture, planning and landscape design studio), winner of “The Climate City Architectural Competition”, the technical consultant Orbicon, and the strategic consultant Bascon. The project has a total construction budget of DKK 76.4 million. For more details, go to www.klima-byen.dk



CO-CREATIVE DESIGN

DIFFERENT USER GROUPS WILL SHAPE THE VARIOUS PARTS OF THE BARRIER TO ENABLE NEW ACTIVITIES AND FUNCTIONS



THE CLIMATE HARBOUR IN MIDDELFART

“The Climate Harbour” stands on the shoulders of “The Climate City” project – in this case, focusing on urban development coupled with both management of rainwater and the threat of rising sea levels.

The Climate Harbour project is centrally located in the city of Middelbart and covers the entire 1.6 km harbour area – stretching from Middelbart’s historical harbour to the west, to the industrial port to the east. The city centre is also included in the project area. The project area as a whole, boasts several cultural institutions, public buildings and heritage sites.

A large part of the project area is located only 2 m above current sea level. Due to the low positioning, in relation to the surrounding terrain, the area is at risk of flooding – partly from rising sea levels, and partly from torrential rain and flowing rainwater from the catchment areas. The harbour front has been renovated in recent years; which unfortunately has enlarged the areas paved.

Based on the desire to act now, while the problems are at a manageable scale, Middelbart Municipality and Middelbart Wastewater Utility have, in collaboration with Danish

and Dutch architects – Bascon, Orbicon, Effekt, De Urbanisten and Boris Brorman Jensen - prepared a development strategy for The Climate Harbour. Next step is a further elaboration of the strategy and a phased realization of the project. This work has commenced in the spring of 2016.

The Climate Harbour Development Strategy describes how the area can be climate proofed, and how, at the same time, the area’s maritime and urban qualities and activities are supported and expanded in ways that strengthen the connections between the harbour area and the city centre.

The development strategy describes three strategic principles: “PROTECT”, which is about establishing sufficient protection against rising sea levels and increased rainwater from the catchment areas. This is done by constructing an urban dike and by securing the primary waterways and their discharge into the sea. “CONNECT” is about strengthening the central connections between the harbour and the city centre through the climate adaptation effort. Finally, “GROW” is about utilising the flood proofing to support activities at The Climate Harbour. These activities include a climate and activity route along the edge of the sea.