Masterplan

The urban area of Zutphen has several qualities:
- Medieval center
- Location next to the river
- Contrast between urban- and natural riverside.

To improve the spatial quality of the city it is necessary to strengthen the link between the city center and the river and improve the public space.

New riverfront

On the north side the quay has a green, informal character. Further to the south this character changes into a more formal harbor area. The Masterplan is based on this intervention.

However, for the long term (2050) the high water level has to be lowered with 20 to 40 cm. This intervention creates a better view on the river and more experience of the water. Close to the buildings is space for terraces. On the south side the public riverfront ends with a park and a marina.

Water safety

Climate change causes an increase in the discharge of river water. The profiles show measures are needed in Zutphen, especially for the long term interventions are necessary.

For the long term (2050) the high water level has to be lowered with 20 to 40 cm.

In the current situation the bottleneck in the river is located near the bridge.

In the proposed intervention different 'Ruimte voor de rivier' solutions are applied: removing obstacles, shifting the dike back and lowering the quay. The masterplan is based on this intervention.

When after a certain period these interventions are not enough, it is possible to give more space to the river. This model proposes a part of the city that will be used as extra basin. But more study is necessary to make this an addition to the urban quality.

Design Principles

Different design principles from the case study are integrated in the translation. The case study is done in different river cities in the Netherlands. The criteria used during the study are listed below together with the implemented design principles.

- Pedestrian access
- Reorganize public space
- Restructure infrastructure
- Create a walking route
- Redesign public quay
- Visual link
- Different height levels quay
- Removing obstacles
- Creating possibility for river-based recreation
- Add function as destination
- Extend public rivierfront
- Current water defence
- New water defence
- Possibility for water defence
- Current floodplains
- Future floodplains
- Quay with height differences
- Shared space concept
- Parking area
- ‘Noorderhaven’