

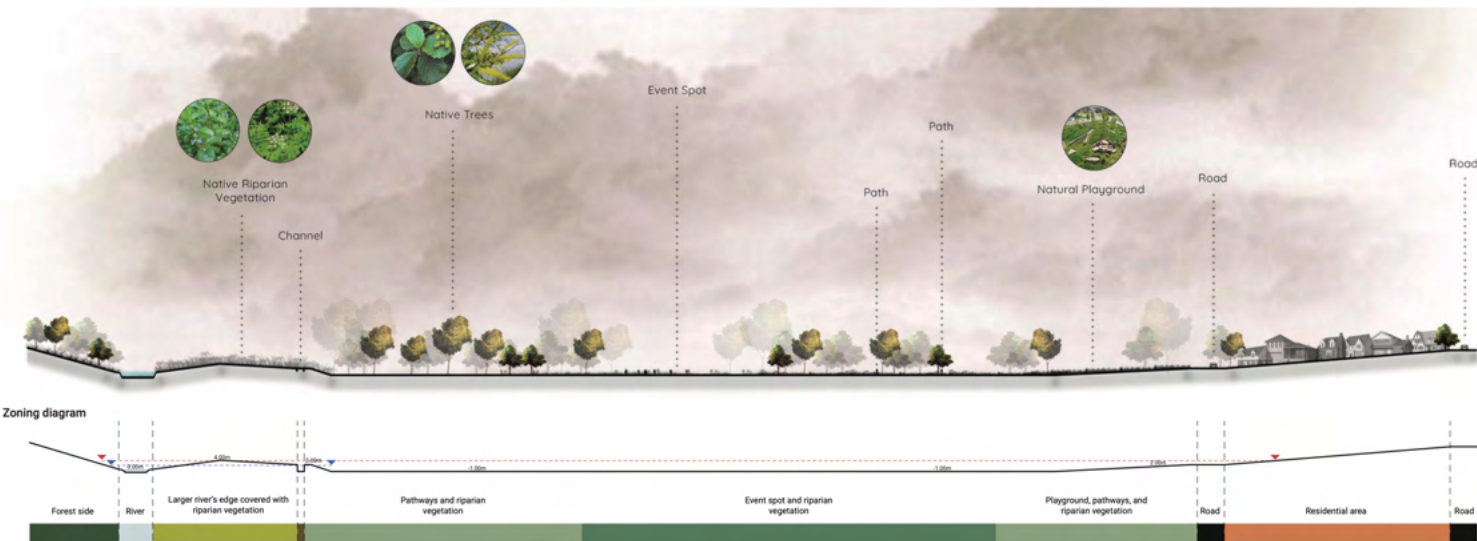


Photo: Maximilian Hamstengel, 2021



Suggested Detention Park in Bad Neuenahr Ahrweiler

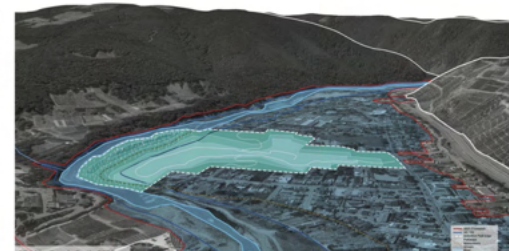
3D Map: Google Earth, 2022



Zoning diagram

Detention park during a flood

The detention park divides into an untouched green area and a recreational space. The first has riparian vegetation allowing a habitat near the river's edge, while the other contains pathways, an event spot, and a playground. Access to the detention park is by gentle slopes, with a ratio of 20:1, which allows everyone to enter the public garden. On the intact green space side, it has a 3:1 ratio. Also, the Mülhenteich will remain as part of the city's heritage unchanged. As well as maintaining a recreational function, they will also adopt a flood management strategy. During dry seasons, all lower levels of the detention park will be accessible, but if a major flood occurs, the park will function as a detention pond, holding the water and gently releasing it. The depth of this zone is 3 meters, and its volume is 374 247.81 cubic meters.

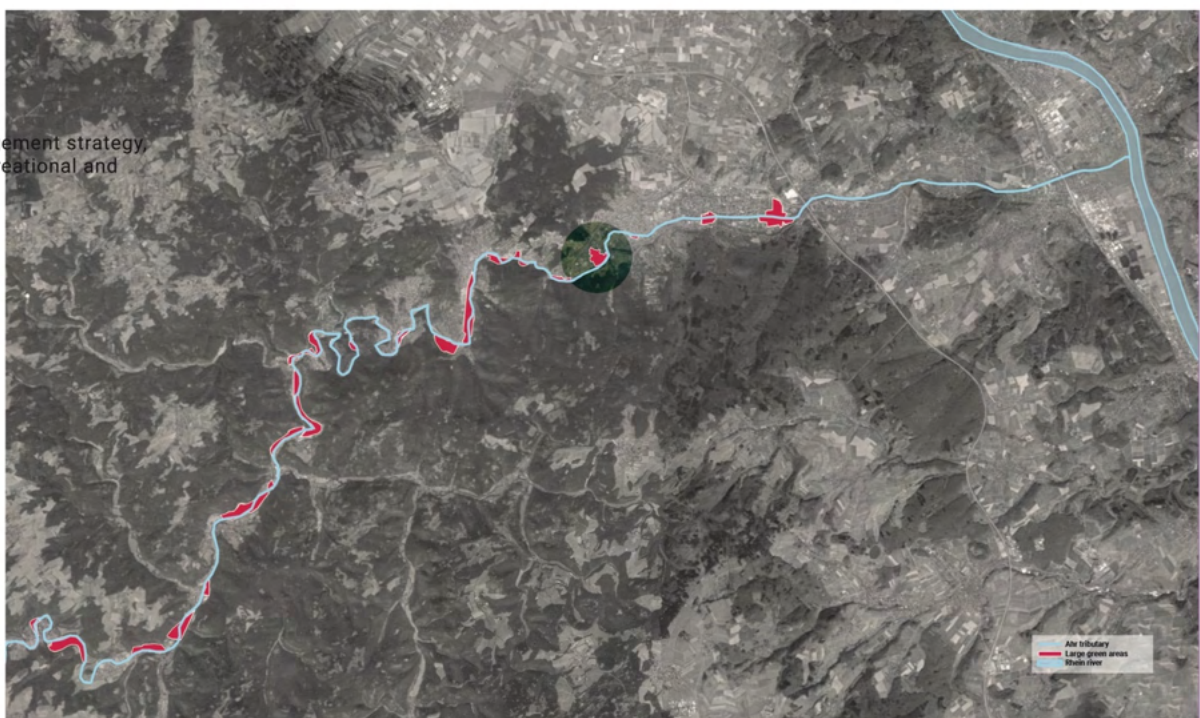


In addition to adopting a flood management strategy, nature-based solutions can serve recreational and economic purposes for communities.



Designs made of concrete or traditional measures are not at the service of the new challenges of climate change. As in the Copenhagen Strategic Flood Master Plan, Ramboll proposed multiple interventions within the urban fabric by transforming public spaces into new blue-green infrastructure. These will deal with extreme flood hazards due to heavy rains, but during the rest of the year they will function as usual public spaces. (Landline, 2015) This case applies to large cities, but for Bad Neuenahr Ahrweiler, we must look upstream.

Along the Ahr Valley, there are multiple possibilities (vineyards, campsites, sportsfields, etc.) for implementing detention parks that will work in most cases as recreational areas; during floods, they will switch into detention basins. The aim is to transform these existing places into new blue-green infrastructures that will bring a new look to the Ahr Valley.



Before the 2021 flood

3D Map: Google Earth, 2022

After the 2021 flood

3D Map: Google Earth, 2022



The river edge and the detention parks borders will have a vegetation buffer zone composed native plants and species that can withstand floods.

