

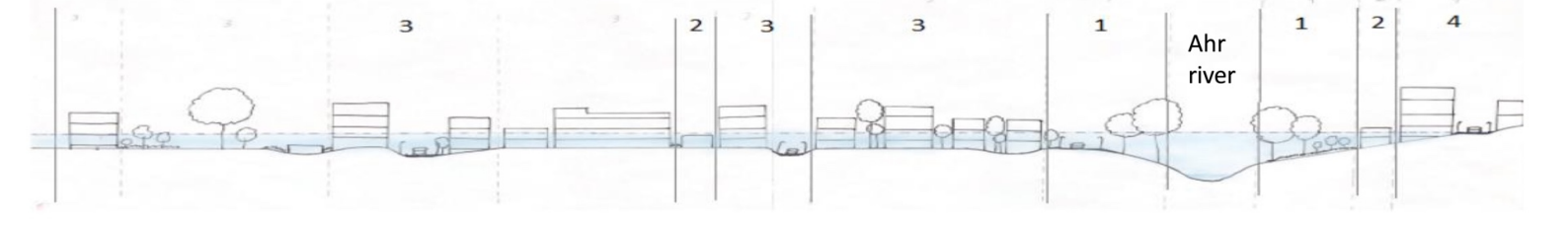
**Tending to the territory of the river Post-flood design for the Ahr Valley (D), GLA302 NMBU 2022**  
*Helia Sadeghianfar*

**Flood proofing modern and new brick buildings**

In our project we divided the Bad-Neuenahr into four different zones regarding the terrain and flood level and we provided different floodproofing strategies according to their zones and building types. In this poster the focus is on modern and new brick buildings.



Across the Ahr valley, there are four different types of buildings: traditional timber houses, traditional brick houses, modern brick buildings and existing buildings adapting sustainable approach.



**Flood proof strategies**

**Zone 1/ high risk area/less elevation:**  
Avoid building/ wet flood proofing/ breakaway walls

**Zone 2/ most affected area with low elevation:**  
Elevating houses/wet flood proofing/at least 2-storey houses

**Zone 3 / flat area with 100m sea level high:**  
Dry flood proofing/2-storey houses

**Zone 4/ less affected buildings/elevated area:** Dry flood proofing/single-storey house

**breakaway walls**

**wet flood proofing**

**2-storey house**

**Single-storey house**

**Elevated house**

**Dry Floodproofing**

Waterproof door, Flood level, Waterproof material on the wall surface, Waterproof basement windows

Brick veneer/ Timber, Plasterboard wall linings, Rescue balcony, Flood proof door and windows, Concrete with tiles, Concrete blockwork

Waterproof floor, Flood level, Waterproof material on the wall surface, Waterproof basement windows

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