INNOVATIVE SOLUTIONS FOR WATERGRAAFSMEER'S FLOOD CHALLENGES

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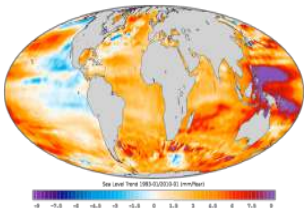
INTRODUCTION

Climate change + **Watergraafsmeer** = **More water challenges!**



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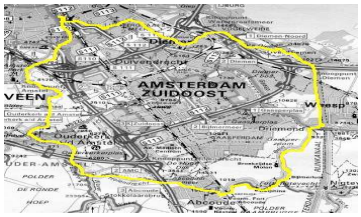

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AMBITIONS AND GOALS

SUSTAINABILITY

- Open water
- Drainpipe to remove water out of the polder

WATER ADAPTATION

- Green roofs
- Rain collector on the roof
- Raised buildings (on pillars)

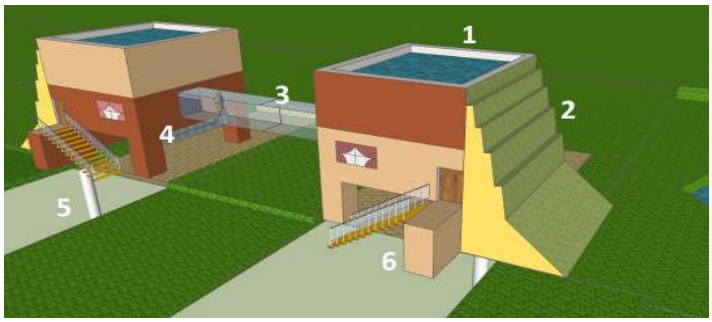
LIVEBILITY

- Escape exit - "Catwalks" between the houses
- Public awareness

INNOVATION

SETUP PLAN FOR CLIMATE CHANGE PROOF HOUSES

- 1: Roof ponds / water collectors
- 2: Green terraces in the inclined sides
- 3: Escape exit - "Catwalks"
- 4: Steal doors, used for sealing the lower area, store water and delay the flow
- 5: Separated sewerage system



- 6: Paved open area below the buildings
- 7: Open green surface area with a depth that will store the water
- 8: Windmill, use of wind to generate power for pumping system
- 9: Amsterdamrijncanal, the area for the discharge of the system

RETAIN

- Elevated houses: on pillars → open surface at the bottom
- Water collectors on roofs → used for flushing toilet
- Escalated green sides

STORE

- Open surface area created by a green water plaza

DISCHARGE

- Separated sewerage system. discharging water outside connected to treatment plants
- Windmills, use of wind to generate power for pumping system

Sponsors: The Regional Public Water - Authority Amstel, Gooi en Vecht

Accompanist: Hogeschool van Amsterdam