

### Pilot summary

In the catchment of the Drentsche Aa both nature and agriculture are limited in the use of groundwater and climate change will increase the problem. On top of this heavy rainfall during summer will increase the water run off from agricultural land thus causing WFD threshold exceedings on pesticides and nutrients.

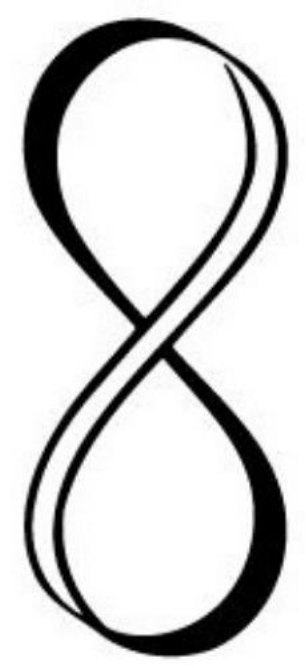
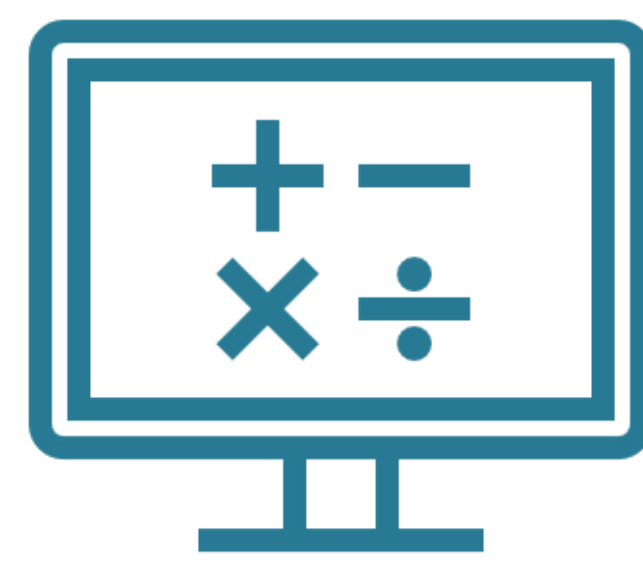
### Aim

To develop a climate resilient water system that leads to optimisation of the lay out of the stream valley including nature protected and agricultural areas. To develop a short- and long- term drought resistance strategy combined with minimized leaching of nutrients and pesticides.

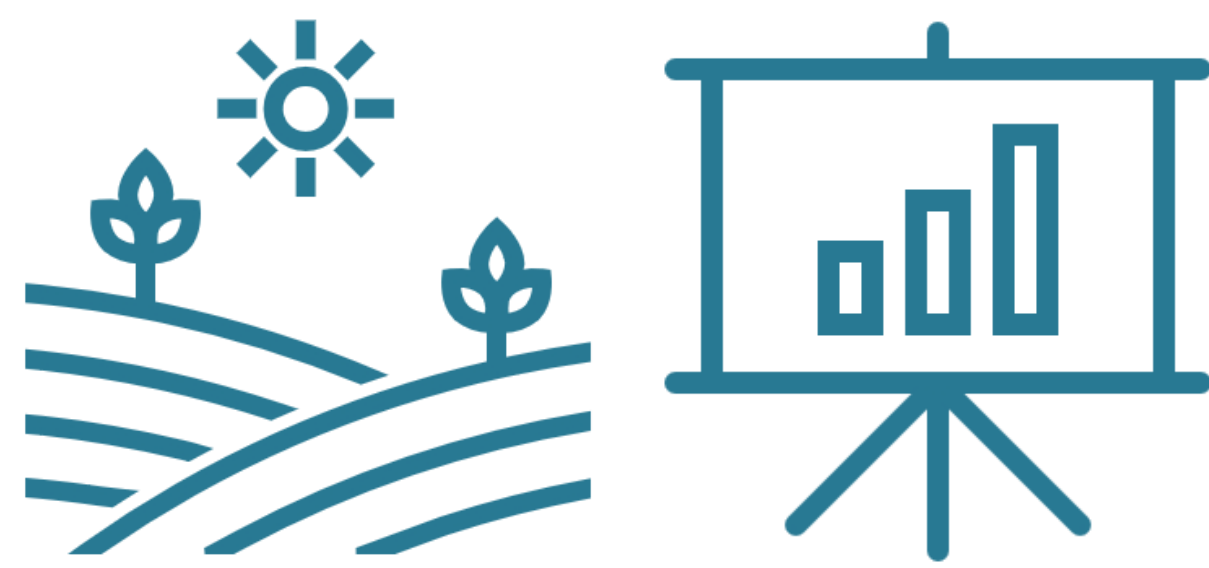
### Approach

Together with stakeholders innovative adaptation measures will be tested and monitored for the effect on surface and ground water quality and quantity. Measures by farmers and land nature conservation organizations will be taken to diminish this climate change effect (Mitigation). A monitoring system called "Bedrijfsbodemwaterplan" (Farm-Soil-Water-Blueprint) is used by farmers and soil coaches to determine the fields to be taken measures most needed. It also can be used as a governance system. Hydrological modelling by implementing new technics to determine disrupting layers will be used to determin the best spots for water conservation and enough water for nature and agriculture developments.

## Activities



On going  
proces



**STEP**  
Collect data in the field for  
determine best spot and  
measures for  
waterconservation

**STEP**  
Model study on geo-  
hydrological system for  
measures in nature and  
agricultural areas



**STEP**  
Implement and test innovative  
measures on plots in the  
agricultural fields

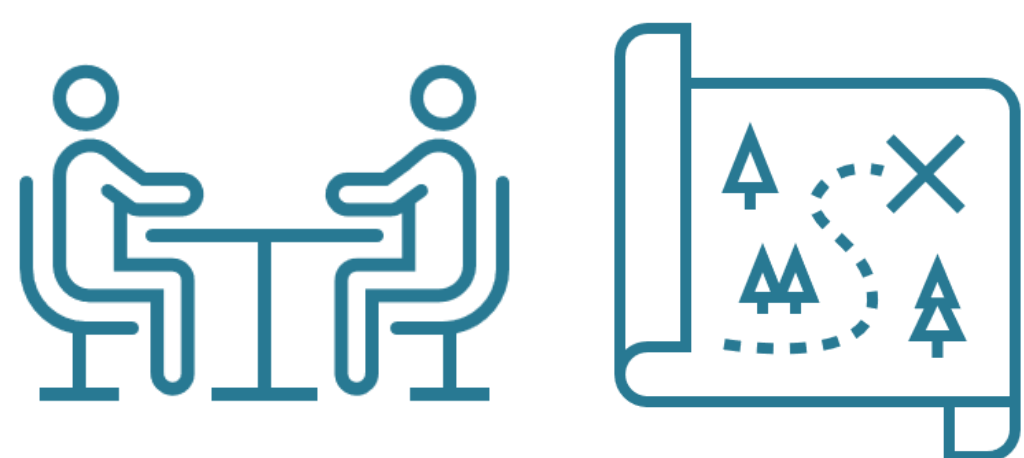


**STEP**  
Construct roadmap to more  
climate resilient water  
management and land use on  
nature and agricultural areas



**STEP**  
Monitoring system BBWP  
(Farm-Soil-Water-Blueprint)

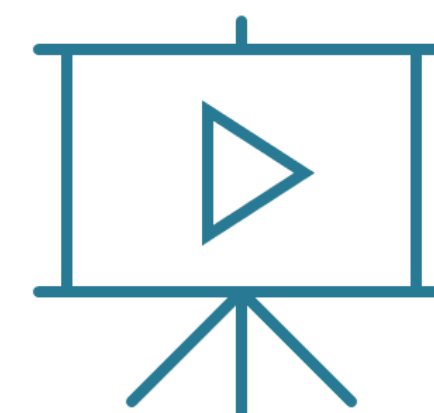
## Governance



Pilot's impact discussion  
with stakeholders



Stakeholders  
field days



Video with pilot's results and  
strategy recommendations



Collaboration and co-creation  
between landowners, research  
institutes and nature conservation  
organisations



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Cors van den Brink

