

# Measures to reduce flood risks

Regional Water Authority Hunze en Aa's, The Netherlands



## Main Idea

Develop and refine flood risk reducing measures.

## Approach

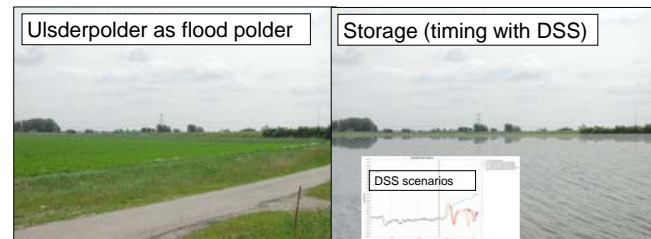
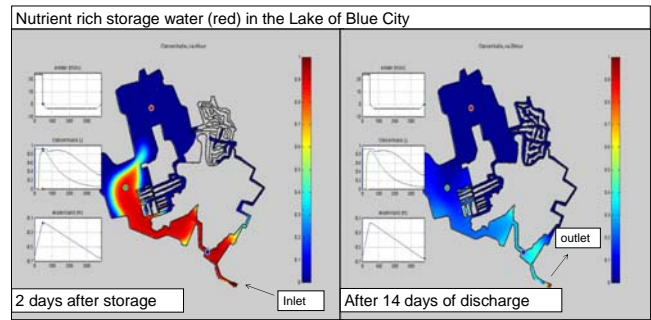
- The DSS for timing of operation of flood reducing measures was improved by better rainfall forecast (from 2 days to 3 days), a better interface based on new more sustainable software.
- Hydrological and ecological models have been made to study the effect of peak water storage on water quality for the lake of the Blue City.
- Plans have been made with stakeholders to combine river restoration and upstream retention for the small rivers "Achterste Diep" and "Pagediep".



New lake (since 2006) of the Blue City

## Results

- Better flood control by an improved DSS to forecast three days in advance the effects of measures, like inundation of a flood polder, on the waterlevels.
- The effect of peak water storage on water quality of the lake of the Blue City is reduced by making the outlet close to the storage inlet.
- A landscape development plan for the river "Pagediep". It combines river restoration and water retention with economic development. The plan invites investors and will make land use change happen. The first investors have already started.
- More experience with finding coalition partners to combine water measures with other developments, like with new urban area (Blue City and with WFD-goals and wishes for economic development (Pagediep).



## Contribution to SAWA

- Presentations on international workshops and Mid Term Conference.
- Contributions to WP1 end report.
- Several measures in SAWA wiki.

