



# Vrijheidswijk Leeuwarden



The Vrijheidswijk in the northern part of the City of Leeuwarden has about 4400 inhabitants. The area is inhabited by a large amount of immigrants and is burdened by many social problems (unemployment).

### Present Situation and problems.

The Vrijheidswijk is situated between the river Dokkumer Ee and the canal Bonkevaart. Because of this situation there are great opportunities to make water more visible and more vivid the urban area. But first some major groundwater- and surface water problems have to be solved:

### The present ponds in the Vrijheidswijk have poor water quality:

- there is not enough flow through the ponds
- there are some storm water overflows situated in the ponds

### Groundwater problems:

- Groundwater level is high (rising damp)
- The present sewage system has become out of date (drainage function)

### Visibility and awareness of water:

- Surface water is hardly visible
- People cannot reach the water
- Water has no social function at all

### Project Goals:

#### Improving water quality:

- Better flow through ponds
- Purification run off (roads/parking areas)
- Purification stormwater overflows
- Ecological improvement (natural banks en reed beds)

#### Improving ground water problems

- Renewal sewage system
- Disconnection rainwater from sewage system (in a visible/innovative way).
- Re-use of rain water

### Improving the visibility and awareness of water

- Water playgrounds
- Making the surface water visible
- Natural banks
- Footpaths along the waterside
- Re-use of rain water (for instance for carwashing)
- Public involvement (waterplan)

### Costs Vrijheidswijk

Projectgoals	Costs (€)
Improving water quality	200,000
Better flow through purification	50,000
Ecological improvement	100,000
Improving ground water problems	120,000
Disconnection	80,000
Re-use of rainwater	40,000
Improving the visibility and awareness of water	80,000
Improving visibility surfacewater	70,000
Education	20,000
Public involvement	20,000
Total	€ 430,000,-

### Organisation and involved parties

The regional lead partner for the pilot will be the Province of Fryslân. The partners will be:

- Municipality of Leeuwarden
- Water Board Fryslân (Wetterskip Fryslân)
- Vitens, the Water Company
- Van Hall Institute Leeuwarden
- Cartesius Institute Franeker