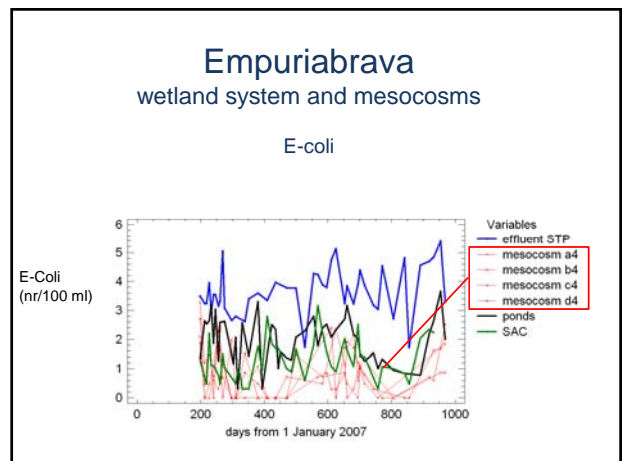
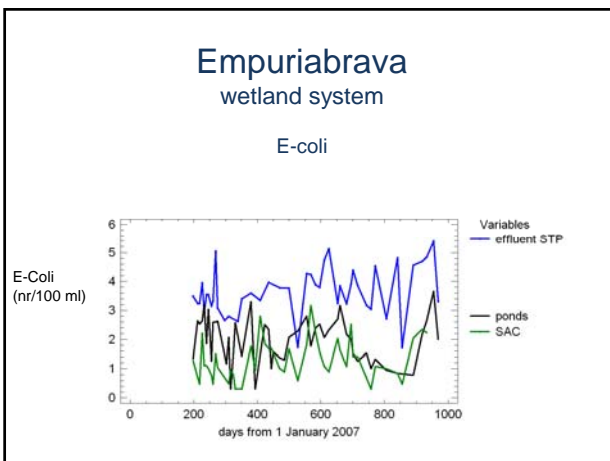
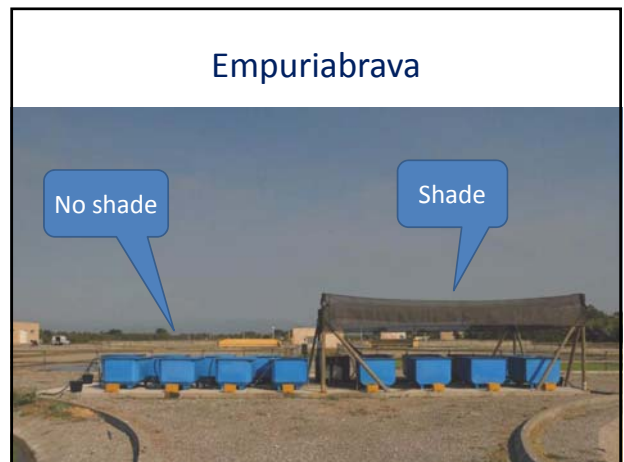
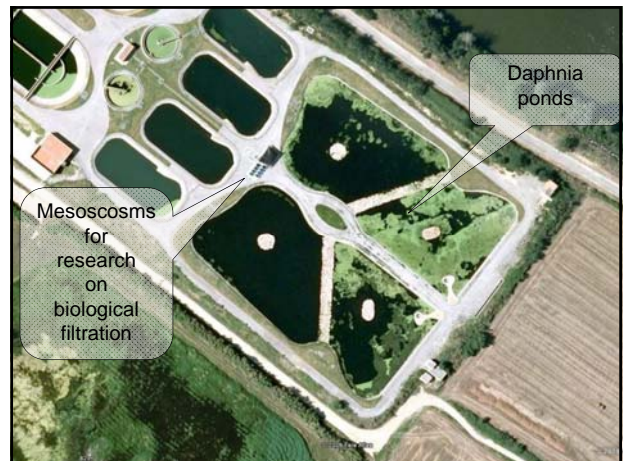
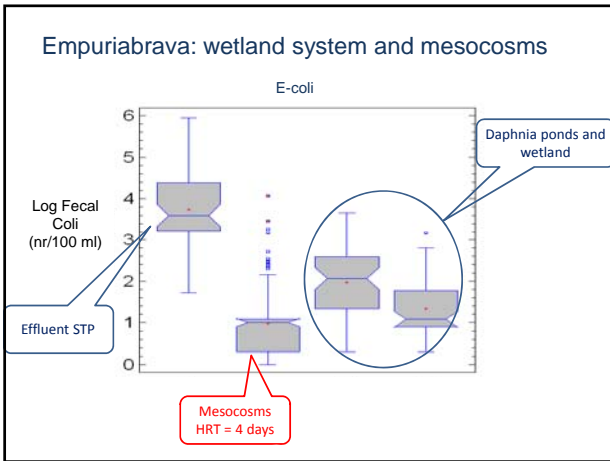
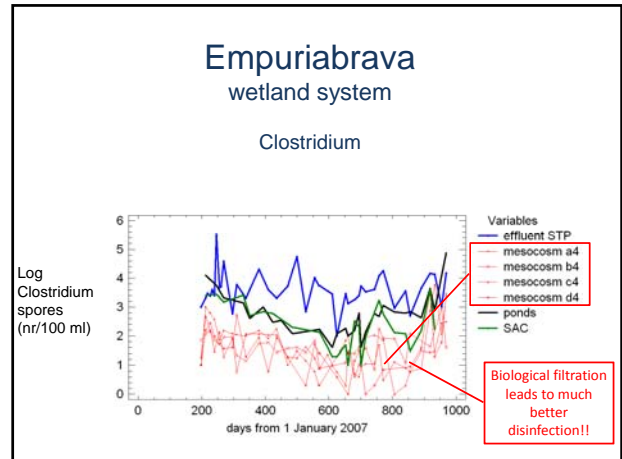
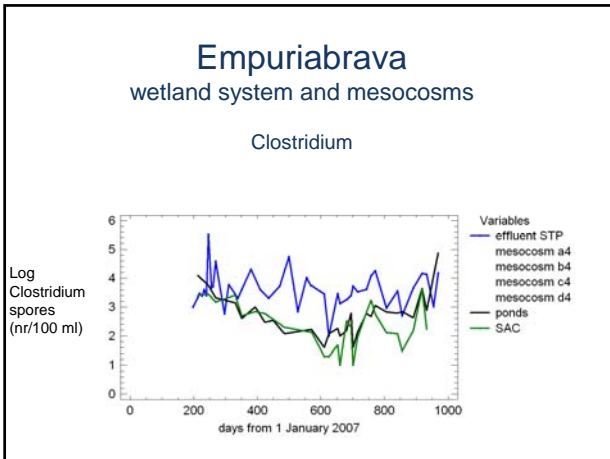


Waterharmonica







Linking well treated waste water with nature

3rd Wetland Pollutant Dynamics and Control Symposium WETPOL 2009
 El Cortalet, Aiguamolls de l'Empordà, 23 September 2009
 Ruud Kampf

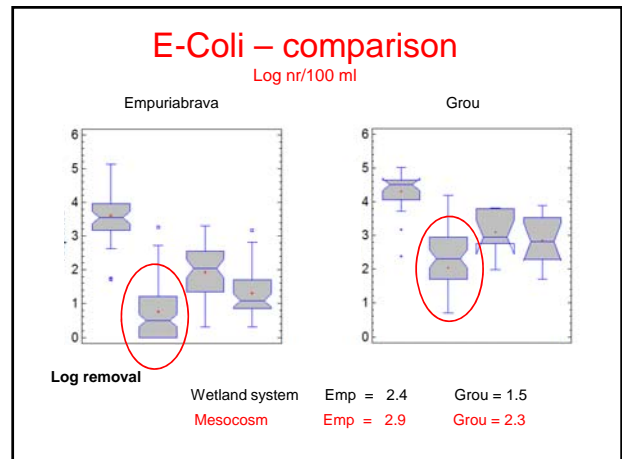
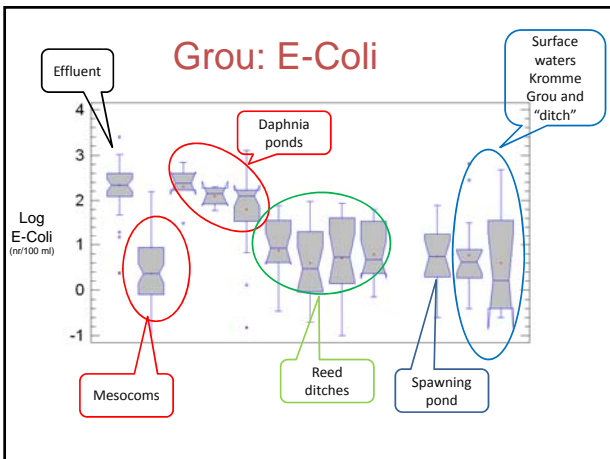


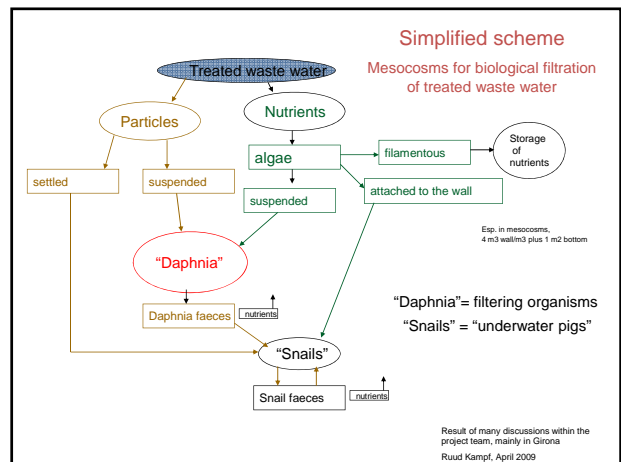
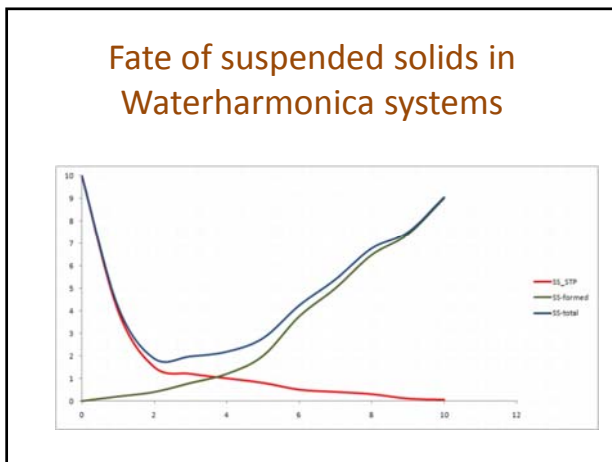
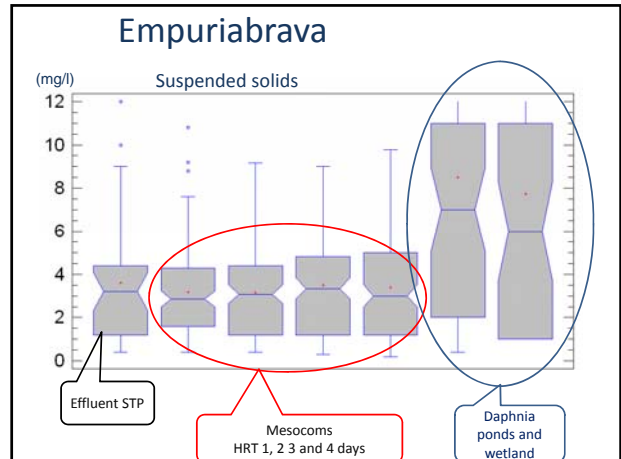
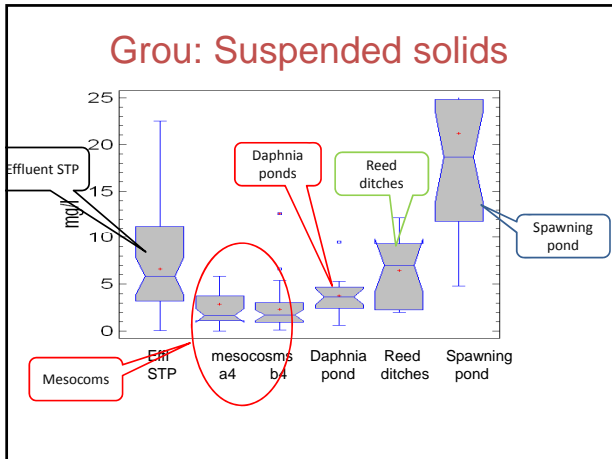


Equal experiments on three STP's

	Horstermeer Netherlands	
		Effluent Filtrated effluent
	Grou Netherlands	
		Parallel to ponds
	Empuriabrava Spain	
		Parallel to ponds

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Eversteekoog, Texel

sewage treatment plant

presettling basin

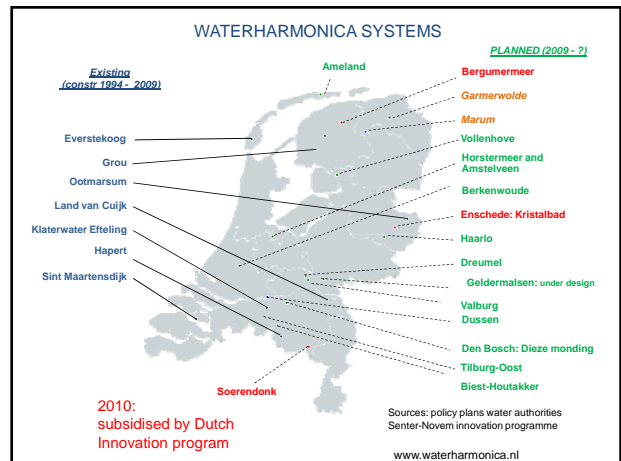
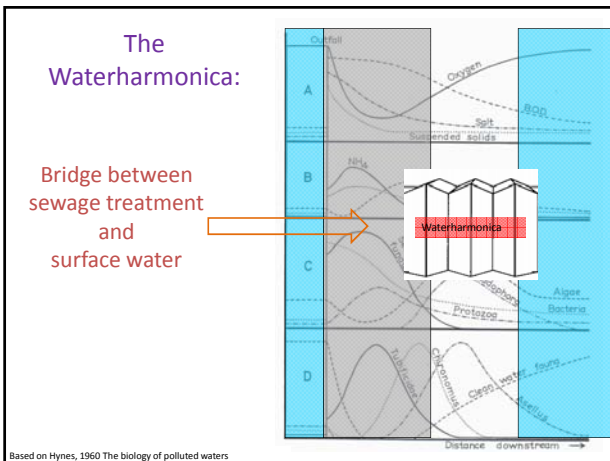
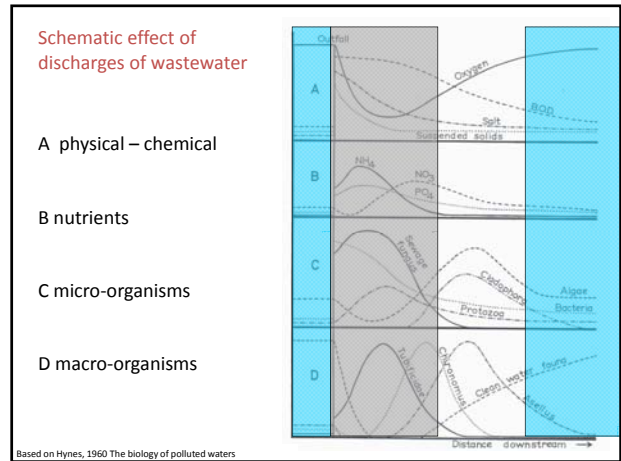
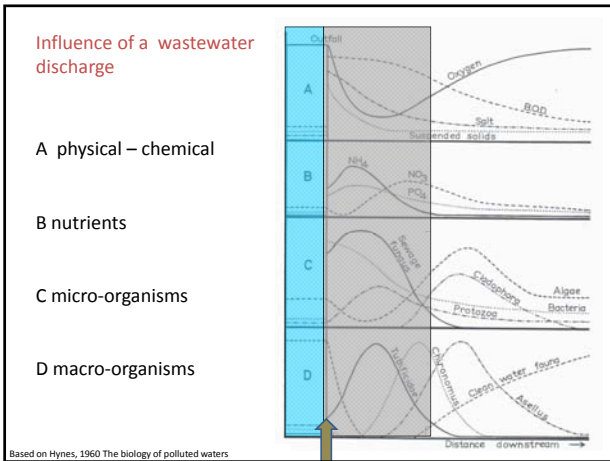
9 parallel ditches with reed/cattail and aquatic plants

discharge ditch

Research project 1995 - 1999

Experiments Eversteekoog, Texel

1998 - 2006



Waterharmonica Soerendonk

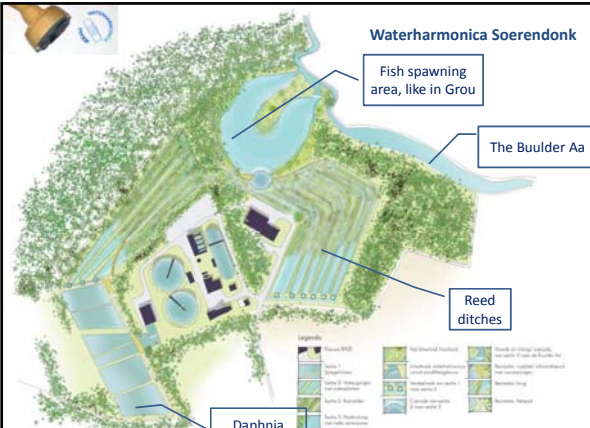


New Waterharmonica system

- part of landscape reconstruction plan
- converting treated waste water into a quality suited for nature
- creating wet nature
- water storage, flood prevention

Project cost € 1.859.829
 Innovation subsidy € 929.915
 Ready in 2010

Zie: Primeur op rwi Soerendonk, H₂O/16-17-2009



Waterharmonica Soerendonk

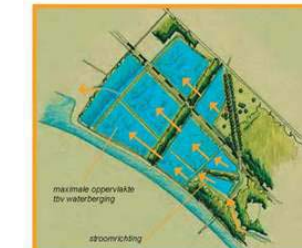
Fish spawning area, like in Grou

The Boulder Aa

Reed ditches

Daphnia ponds

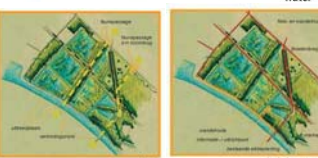
Waterharmonica Kristalbad Enschede



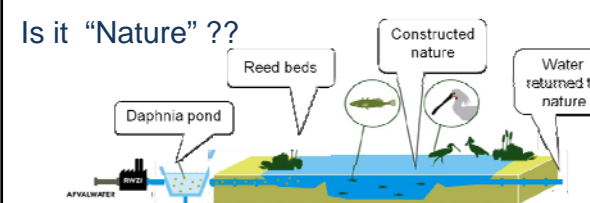
New Waterharmonica system

- reconstruction plan 50 ha
- nature-water-landscape-recreation
- Project cost € 5.055.772

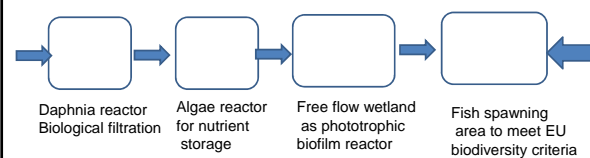
Innovation subsidy € 2.527.886
 Ready in 2010 ?



Is it "Nature" ??



Or a process??



Daphnia reactor
Biological filtration

Algae reactor
for nutrient
storage

Free flow wetland
as phototrophic
biofilm reactor

Fish spawning
area to meet EU
biodiversity criteria



www.waterharmonica.nl

LinkedIn: [Waterharmonica: the natural link from tap to source](#)

