The Waterharmonica is a successful water innovation in The Netherlands, with 15 full scale applications for ecological upgrading of 1000 – 40,000 m$^3$ treated waste water per day, with 5 more under design. The first ones were aimed on producing nutrient removal, buffering water and supply water for agriculture. Most of the recent Waterharmonica’s ones are focusing on creating natural values, fish spawning and migration and on natural processes for water reuse as recreational waters.

The Waterharmonica is a (natural) constructed wetland as well an ecological engineering solution for upgrading well treated waste water with relative low carbon loads. It is a special combination through of a customized selection of constructed natural processes for: biological filtration by Daphnia, phototrophic processes in algae mats on reed stems, oxygenation during day time by water plants, introducing food chains, ecotoxicological aspects, natural and recreational values, water buffering, nutrient removal, etc.

Waterharmonica's: till 2006

- Nutrient removal
- Disinfection
- Buffering water
- Supply water for agriculture and nature
- Supply of water for a leisure centre

Waterharmonica's: 2006-2016

- Buffering water
- River restoration
- Surface water quality
- Fish spawning
- Making "natural habitats"
- Recreation
- Customers relations: "making friends"

Waterharmonica's: and beyond

- Sand filtration of effluent STP
- Really needed when Waterharmonica?
- Beneficial to make water for providing high-quality water for use in cities or nature