

## harbor re[FIN]ery

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This project transforms an interwoven transparent symbiotic infrastructure into a dynamic public educational facility and private water filtration program without disturbing any existing urban waterfront amenities. This eliminates existing waste pollution from the coastal harbor from shipping use, purifying Helsinki's water into a bottled asset as a Finnish commodity to be consumed by its citizens and also the rest of the world.

The vast amount of existing coastline, used mostly for shipping has the latent potential to be utilized for consumption, both for drinking and leisure activities. Despite these obvious resources, current water is transported 120 km in an underground tunnel from the lake for the city's consumption. Water system losses are estimated at 11%, and could be eliminated by reducing the transport distance. With this proposal Helsinki's harbor water as the new vital source will be maximized as a pragmatic source and anchor for state of the art water filtration to educate the world.

At the present time, there are 11 different wastewater plants in the city. These could be consolidated to only one at the source with this new proposal. Also, phosphorus and nitrogen from inland treatment plants are dumped into the sea as raw pollution. This new infrastructure will eliminate this pollution process by using the sea as an intake, rather than a deposit. Finally, Finland's water will be marketed as the cleanest in the world, developing the bottled water industry as a by product of reclaiming the waterfront, embodying a healthy lifestyle though pure water.

The 7 phases of water reclamation correlate to public access as part of the educational process. Equally spaced throughout the waterfront, these create spontaneous activity and educational experiences along this vital edge of the city. At the same time, the existing architecture of the city remains the focal point peeking through and around the new proposal interweaving the past and present.

The premise of efficiency and conservation generates the framework for the harbor re[FIN]ery. Public urban space of the harbor is then challenged through design of an integrally social steward of progress provide a strategy of integration. Compressing more for less creates an intrinsic design value for upgrading modern waterfronts through an architectural framework

