## **Central Watershed Masterplan**

Singapore

For the southeast-Asian city state of Singapore, water autonomy is a top priority and the driver behind the need for an island wide urban water management strategy. A tropical rainforest climate provides plenty of water, however this falls in fierce downpours which create a challenging situation in terms of flood management and water quality in a highly populated city environment. Singapore has no other water source.

Engineering of the past has left a legacy of concrete channels, rivers of by-gone eras. Empty most of the time, during a rain storm these channels fill within minutes and unchecked torrents of freshwater race out to sea. This dangerous situation creates linear physical barriers disruptive to local communities and ecological wastelands, depriving citizens of recreational space and wasting much needed fresh water.

Atelier Dreiseitl collaborated with Singapore's Public Utilities Board to create a pragmatic new vision for urban water managment in the tropics. The ABC Central Watershed Urban Masterplan aims to transform Singapore into a resource rich and water productive city.

Many other cities across the world are facing exactly the same challenges. The ABC Central Watershed Urban Masterplan provides hope and inspiration for the world that we really can turn the corner and transform our concrete jungle input-junky metropolises into smart, liveable cities.

**Client:** Public Utilities Board &

National Parks Board

**Design:** 2006 **Area:** 140 km<sup>2</sup>







great, and Safe places to live and do business?



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The creation of the ABC (active, beautiful, clean) Urban Design Guidelines for water sensitive urban design is a significant tool which facilitates widescale implementation of the Central Watershed Masterplan. Applications include streetscapes and canals where the is great potential to combine improving Singapore's dense urban living conditions of Singapore with resource management.

The Kallang River Restoration and Bishan Park is a highly visible pilot project which transforms a 3 kilometer section of the Kallang River from a concrete drainage channel into a meandering river with dynamic natural river processes. Singapore's busiest park has become a river landscape subject to natural rhythms and with lots of space for people, nature and fresh river water. The sinuous length of the river and the flood spaces extend the storage capacity of the whole river system while natural treatment systems improve water quality. The Kallang River has been transformed into a water management asset, part of the decentralized Central Watershed Masterplan vision which safeguards Singapore's drinking water supply for the future.

Who we are: Atelier Dreiseitl is multi-

cultural team of landscape architects, artists and engineers specialised in sustainable urban development.

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