Even over 60 years of constructing dams, Tokyo is not ready for another 1/200 storm event.

In order to prevent 2.3 million people to be affected, $400 billion of economic loss,

We need more DAMS

However, facing population decrease, aging society, it is not the time to envision a mega-infrastructure as water management strategy.

Here I propose a decentralized system of holding water, at low-flat lands, maintaining ecological functions and incorporating urban activities.
Japanese love summer activities at riverfront. Fireworks and summer festivals will take place along the river's edge, providing a vibrant and romantic place for people to chill and relax.

**Raparian Ecology**

Discontinuous banks are placed along the river with an angle to the river flow. Water will be entering the gaps in case of high water levels. In this way, water and sediments will be intercepted, increasing storage capacity.

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**Technology: Japanese Traditional Timber Hydro-Infrastructure**

Wooden Structure Stacked in a Rack
Wooden Riverbed with Rocks
Wooden Frame as Retaining Wall
Grid-like Trunk Stakes

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**Riparian Ecosystem**

Discontinuous banks are placed along the river with an angle to the river flow, allowing water to enter the gaps in case of high water levels. In this way, water and sediments will be intercepted, increasing storage capacity.

**Riverine Shrubs & Wet Grassland**

Manchurian Wild Rice
Common Reed
Zizania latifolia

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**Wetland & Pond Ecology**

Benthic Invertebrates
Grazers, Shredders, Collectors, Predators

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**Surface Model**

Porous Infrastructure Detritus Decomposer
Filter Excessive Nutrients
Increase Underwater Visibility

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**Aquatic Habitat**

Zooplankton
Phytoplankton

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**Surroundings**

By integrating existing high-grade infrastructure, flood resilient urban model can be envisioned by integrating floodplains as part of urban fabric.

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**Riverfront Landscape at Summer Night**

Japanese love summer activities at riverfront. Fireworks, adventure activities, and music festivals are held along the river's edge. People can enjoy the view of the river, relax, and have fun.

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**Riparian Forest**

Japanese Weasel

during wet碾水 to upland forest.

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**Sports / Event Space**

20m
200m
(2000m)
(20000m)
(200000m)

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**River Water Level Fluctuation**

Normal Water Level
Normal Water Level + 3m (once a year)
Normal Water Level + 6m (once in 20 years)

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**Hydro-Infrastructure**

Densifying strategy is to extend the development of residential and industrial blocks. Tertiary dike system is introduced to maximize the buildable area.

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**Upgrading strategy is to maintain the current density and road network, but upgrading them to a flood resilient urban model. Houses and public spaces are incorporated with the dike system.**

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**Programs and Landuse**

Sports / Event Space
Residential Block
Industrial Block

---

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