

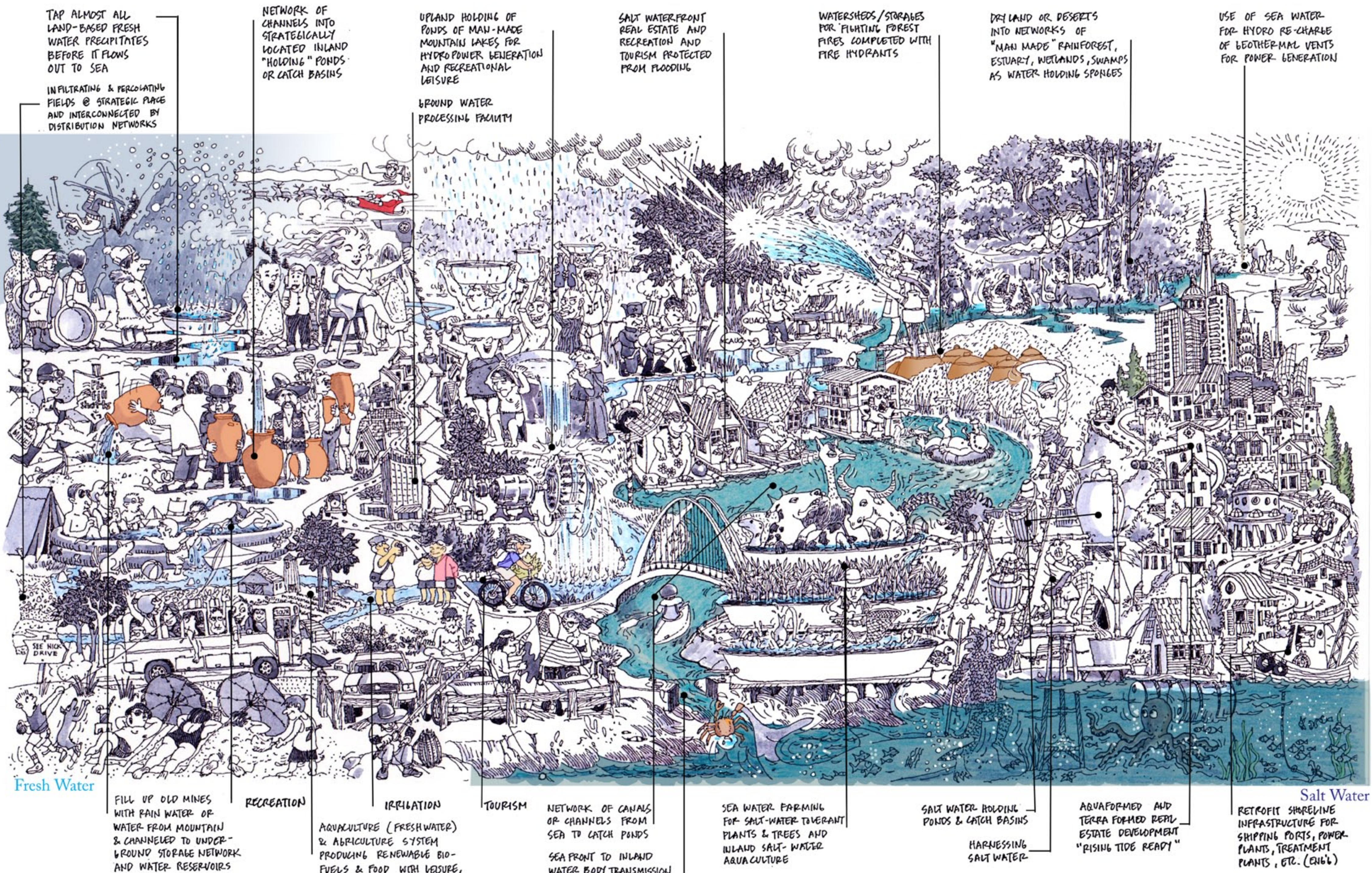
THE SUPER SOAKER



The rationale behind addressing the threat of rising sea levels, through the Ground Water Recharge And Storage System (GWRS) is that of considering sea water as an almost inexhaustible and renewable resource. And one of the best ways to take care of a valuable resource is by storing it somewhere, somehow, in one form or another and being able to draw from this stockpile when and where needed.

The approach is not to intervene drastically or confront the rising sea levels....but to harness their free and natural flow as they rise....through a network of channels, into strategically located inland "holding" ponds or "catch" ponds. These ponds shall presently be in areas below sea level and accessible by the use of minimal new infrastructure.

And as an added bonus, the system can also tap almost all land-based fresh water precipitates before it all flows out to the sea. The GWRS System also addresses immediate needs to have bodies of inland waters....the "holding" and "catch" ponds, where and when it is most needed....and not necessarily below sea levels. The waters from all these ponds could then percolate or infiltrate naturally or be distributed to infiltration fields. They can also be processed or treated together with surface runoffs and other waste waters, then stored as ground water in both natural or man-made underground storage networks.



Components of a Ground Water Recharge and Storage System (GWRS)

- “Holding” Ponds or “Catch” Ponds
- Upland or Inland Lakes and Water Bodies
- Retrieval and Distribution Networks
- Ground Water Processing Facilities
- Ground Water Recharge Facilities
- Infiltration and Percolation Fields
- Natural or Man-made Storage System

The Proposed GWRS System is envisioned to fully address or mitigate rising sea levels in form of a long-term high capacity storage of excess or aberrant water supply within nature's water cycle.

It also helps that it generates quite a number of “side uses” that could possibly subsidize costs of new infrastructure

This Proposal is applicable to the San Francisco Bay Area, most of California State, other U.S. coastal states and other areas in the World facing the threat of rising sea level.

POTENTIAL USES OF GWRS COMPONENTS

- Reservoirs for “Gravity-fed” Supply and Distribution
- Micro- and Mini- Hydropower Generation Facilities
- Aquaformed and Terraformed Real Estate Developments
- Desert “Rainforests” and “Amazon-like River Basins
- Forest “Fire Breaks” and “Hydrants”
- Forest “Water Sponges”
- Passive Cooling Heat sinks
- Inland and Upland Aquaculture Ponds
- To supply Livestock Farms located in Uplands Marginal Lands and Deserts
- Mountain Lakes and Upland Water Bodies for Sports, Leisure, Recreation and Tourism
- Creation of Man-made Wetland, Swamps, Estuaries and other Habitats
- Maintenance of Existing “Water-nurtured” Habitats and Ecosystems