



Water Catchment Design Applied To Educational Centers

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Rain Water:

A constant resource that is not used normally although it is necessary...



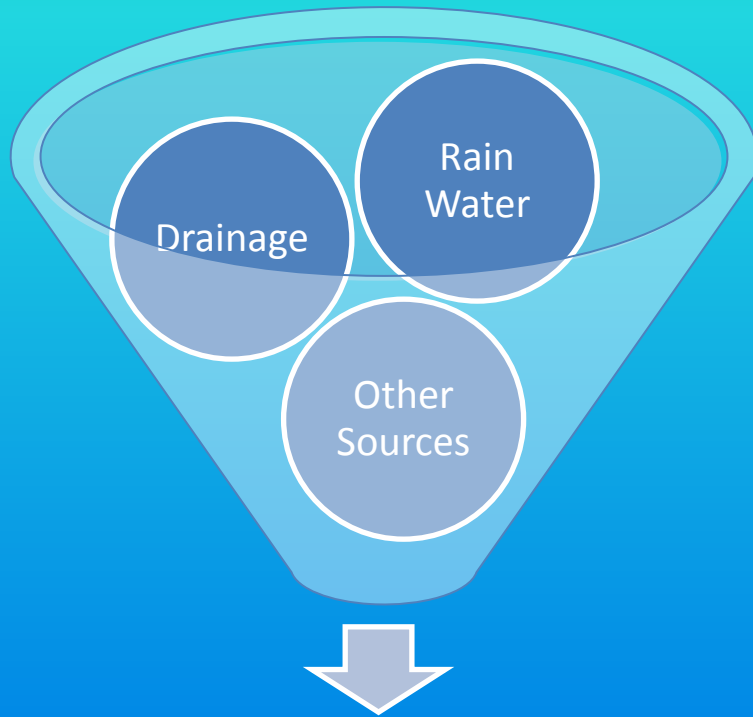
In Mexico

Drainage Infrastructure not allows to take advantage of this resource;



Instead of it; it causes some matters...

Rivers and Drainages



Ecological Disaster



The contradiction:

Rain Water as a
problem flooding
some places



Lack of Water in
drought seasons



An Alternative

Taking advantage of the constant precipitation
and available resources in the infrastructure
plus an adaptation:

Water Catchment System

Background

- Mayan Culture (Mexico)
- Capri Island (Italy)
- Mountains of Venezuela
- Peninsula of Yucatan (Mexico)

Main Description

Rain Water Catchment System adapted to the available construction using the roofs of the buidings as catchment area and directing these water to a supply in order to be used when necessary and representing a sustainable alternative.

Matters in Educational Centers

- Lack of water in drought seasons.
- Need to pay for a private service to obtain water – deep wells.
- Unhealthy conditions.



An Alternative

- Sustainable: Taking advantage of rain water; avoiding it ends in the drainage and decreasing the impact to groundwater sources.
- Economic: Decreasing the outcome of paying for a private service of water.

Description



Roofs Conditions in Schools



- Plain roofs
- Two inclinations roofs

Technical Feasibility

State	Region	Precipitation on 1st half of 2015
Sonora	North	210 mm
Oaxaca	Southeast	329,6 mm
Tabasco	Peninsula of Yucatan	933,6 mm

1 mm = 1 lt of rain water falled per every square m

Data from: SMN/CONAGUA/MEXICO

Economic Feasibility

By reducing the outcome by private services of water supply.



Saving money and generating a payback.

Entrepeneurial Proposal

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Mental Note

Our body is composed by 75% of water...



Here is the importance to take care of it in this life!



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