

Waterroots - Building a Global Water Community -

our water world

PA AWWA Conference

Joey Wu

4/12/2024



William Anders (Apollo 8),
Earthrise, 1968



Apollo 17 Crew,
Blue Marble, 1972

Paleo-Agulhas Plain, South Africa - 9500 BC

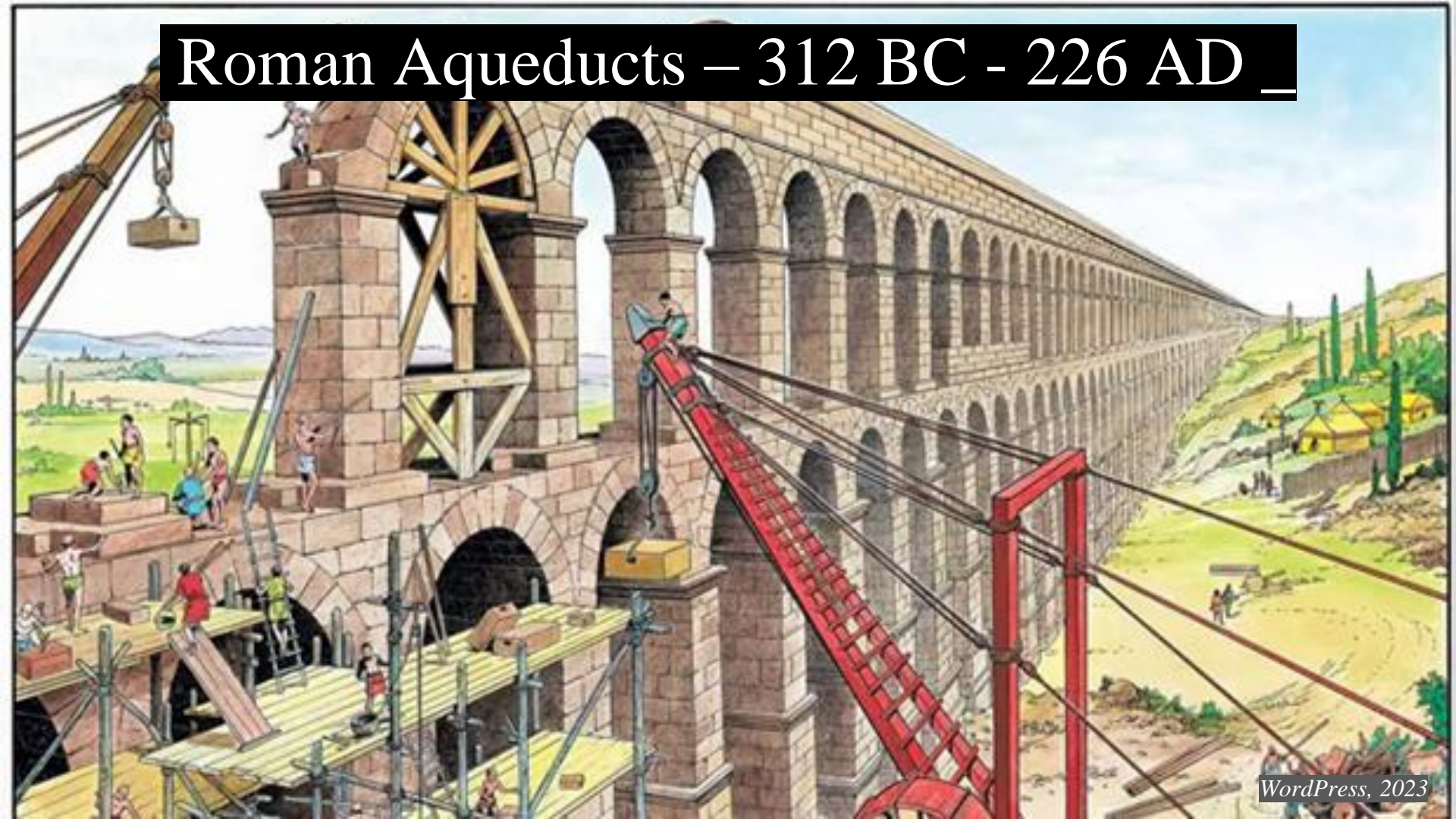


Latin Etymology:

- *arrive* and *derive*
- from *river* to *rival*

Control and water access leads to conflict!

Roman Aqueducts – 312 BC - 226 AD _



... but where does it go?_





National Park Service, 1805

Philadelphia, PA (Modern Day) _



WATER - THE FACTS

700 MILLION

people could
be displaced
by extreme
water scarcity
by 2030

(Global Water
Institute 2013)



More than
**FIVE
BILLION**
people could live
in water-stressed
regions by 2050

(Burek et al. 2016)



85%



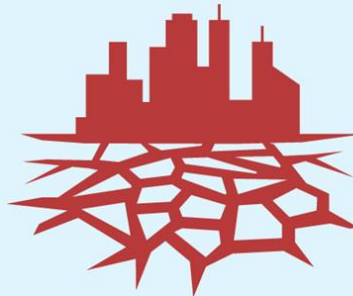
of wetlands are estimated to
have been lost since the
pre-industrial era and the rate
of loss is still accelerating

(IPBES 2019)



72% of all water withdrawals
are used by agriculture,
16% by municipalities for households
and services, and **12%** by industries

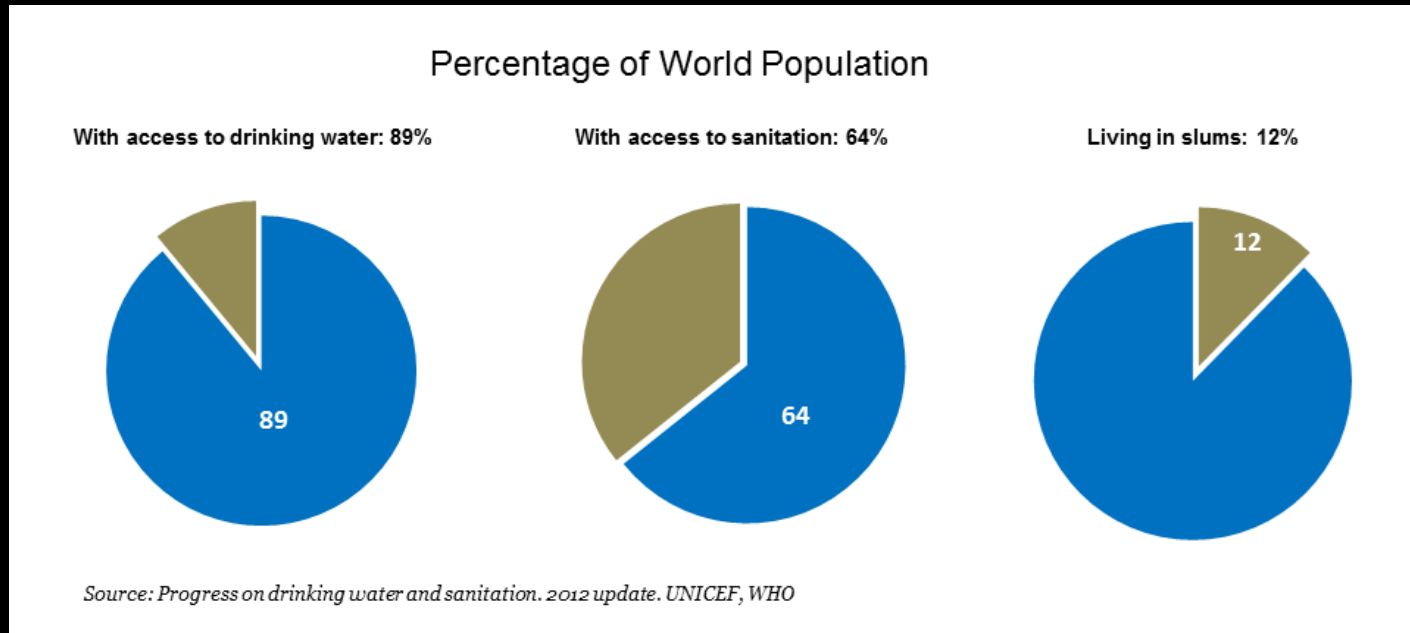
(UN-Water 2021)



HALF of the
world's largest cities
already experience
water scarcity

(World Economic Forum 2017)

all about numbers:



Waterroots asks **WHY** and **HOW**

a story of rain _



**CNN****US**

Crime + Justice

Energy + Environment

Extreme Weather

Space + Science

Philadelphia residents panic-bought water after being alerted to a chemical spill but officials say tap water is safe for now



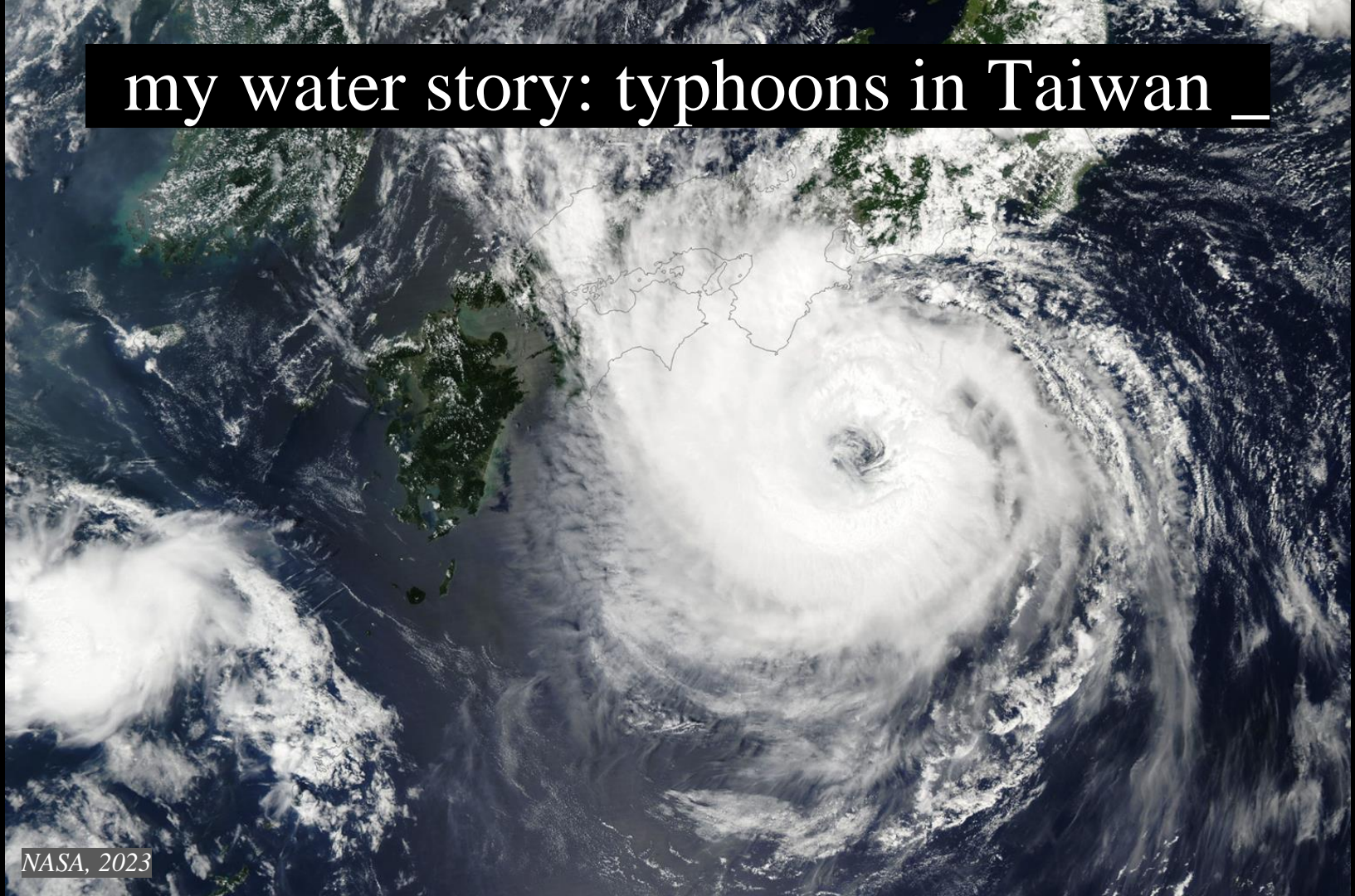
By [Celina Tebor](#), [Susannah Cullinane](#), [Dakin Andone](#) and [Danny Freeman](#), CNN

🕒 8 minute read · Updated 1:57 AM EDT, Tue March 28, 2023



my water story: typhoons in Taiwan _

NASA, 2023



Arenal, Costa Rica; Sun Link Sea, Taiwan



Medium, 2015



Trip, 2019

Taupo, New Zealand; Chania, Greece



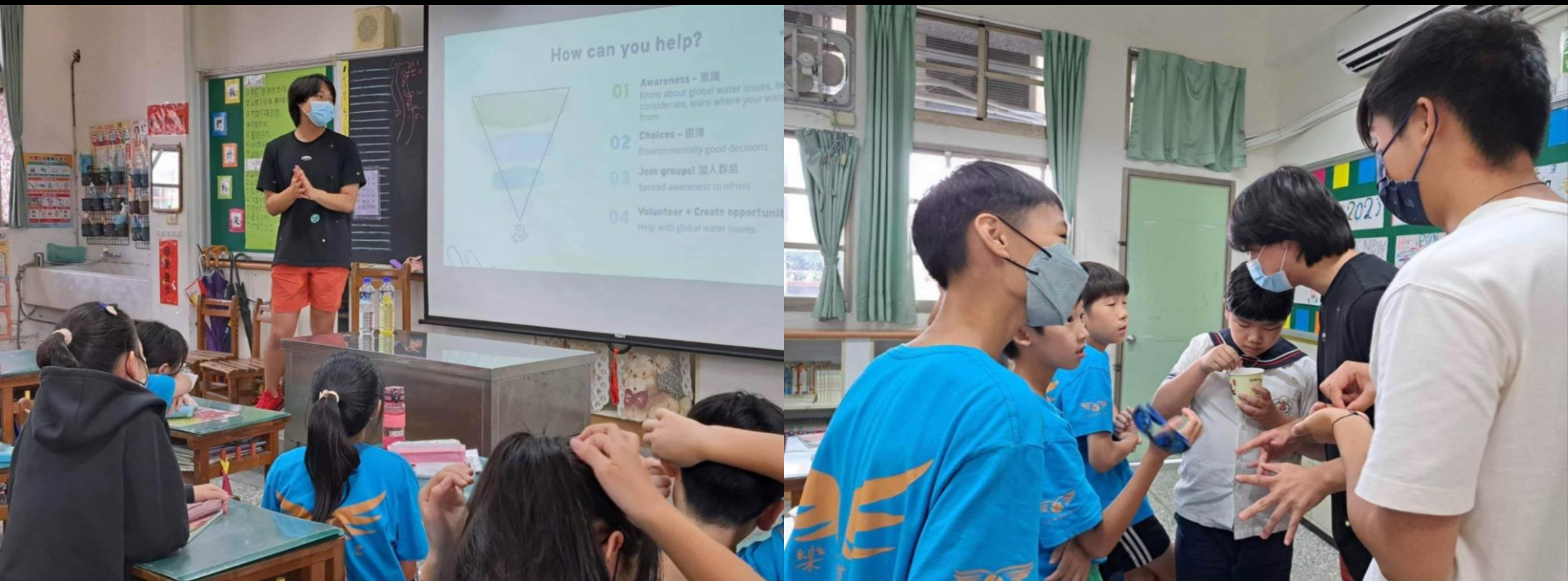
Sydney Herald, 2011



Cunard, 2023



The birth of Waterroots





The Nature Conservancy, 2018



Reuters, 2021

The Power of Water Stories _



Weather Channel, 2016



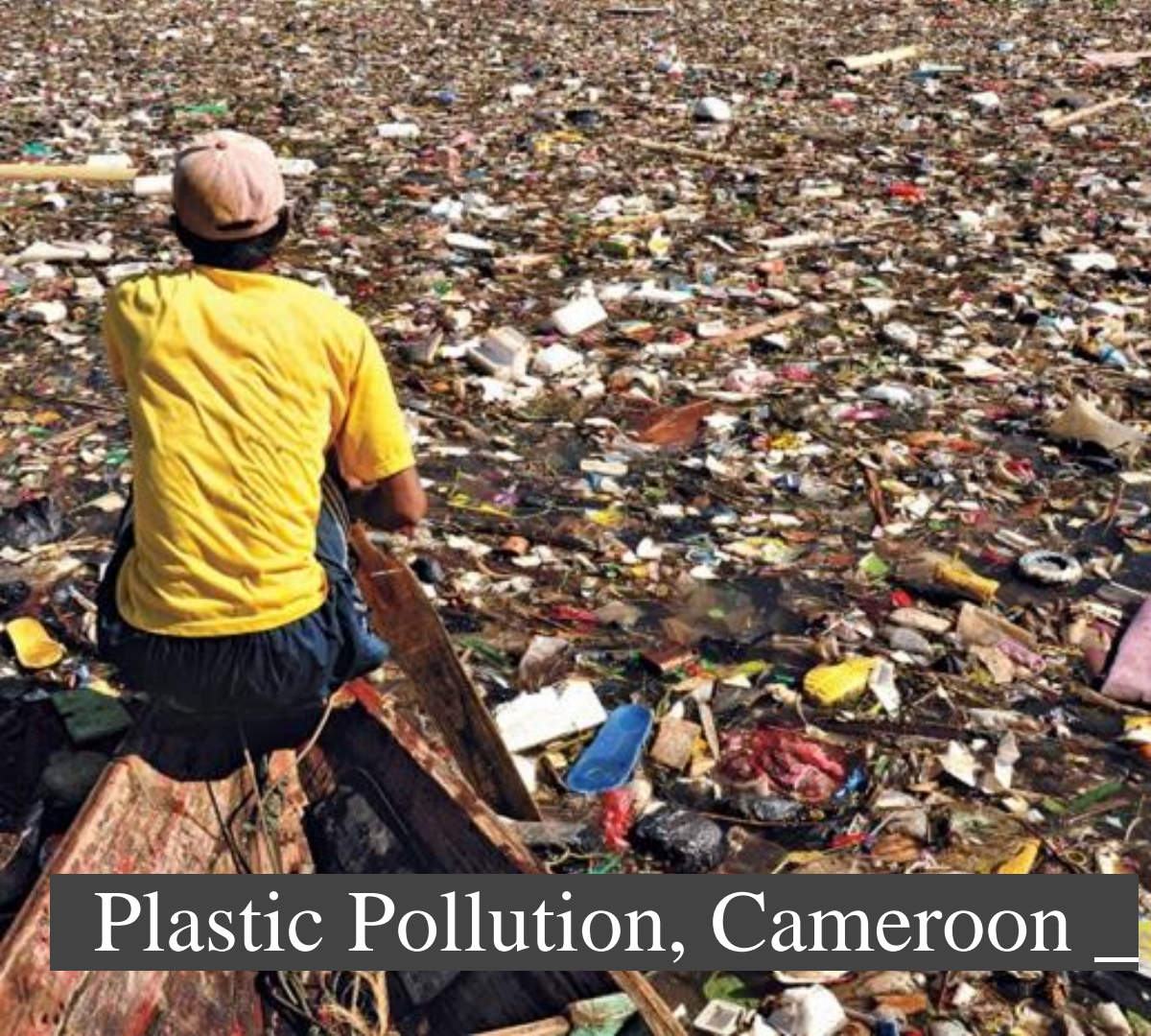
Desert Sun, 2016



Period Poverty, Nigeria _



PCGHR, 2020



Plastic Pollution, Cameroon



C&EN, 2020



Climate Education, Kenya _

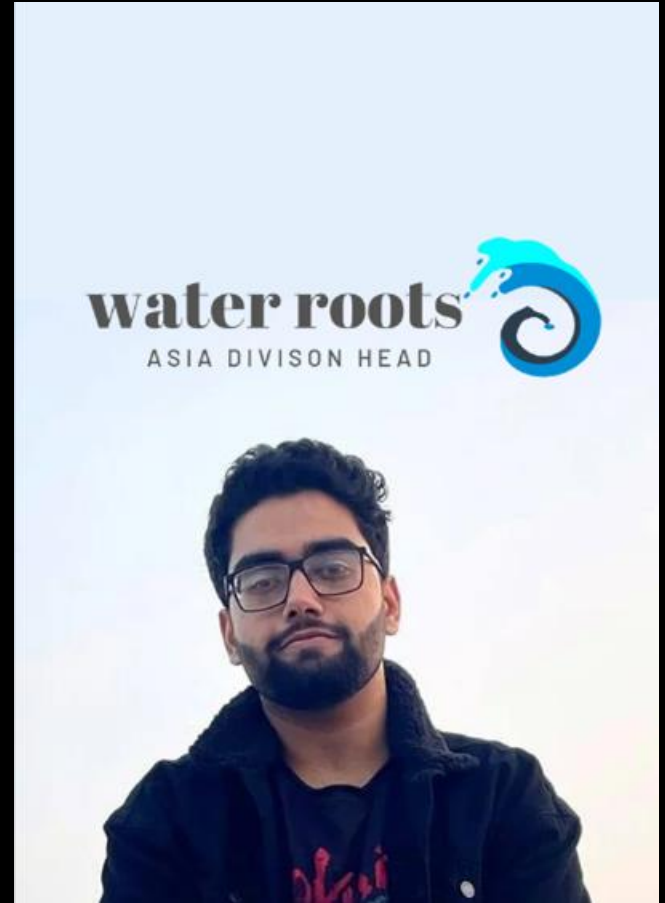
water roots
SPECIAL PROJECTS



Samaritan's Purse, 2018

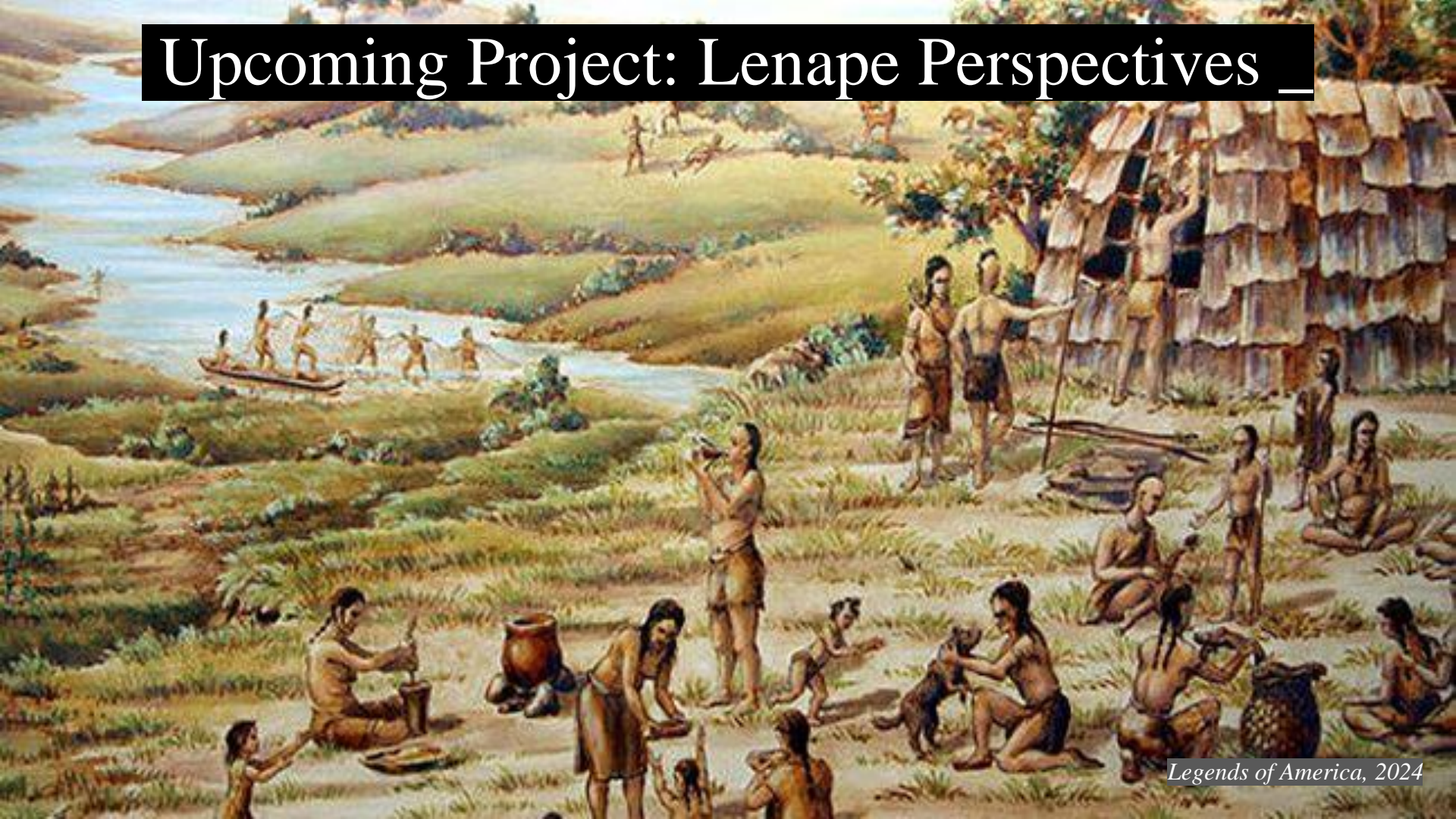


Hair Loss, Bangladesh _



Independent, 2024

Upcoming Project: Lenape Perspectives _



Key messages:

- *Cultural background influences water perceptions*
- *Environmental education is the first step to climate resilience*
- ***Youth** can make meaningful impacts*

Executive Team:



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United Nations
Academic Impact



**Millennium
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American Water Works
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GLOBAL WATER
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Bow Seat
Ocean Awareness Programs



**PHILADELPHIA
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