

**Come!!!
Let us Take Steps**



**Save our Rivers and
Streams**



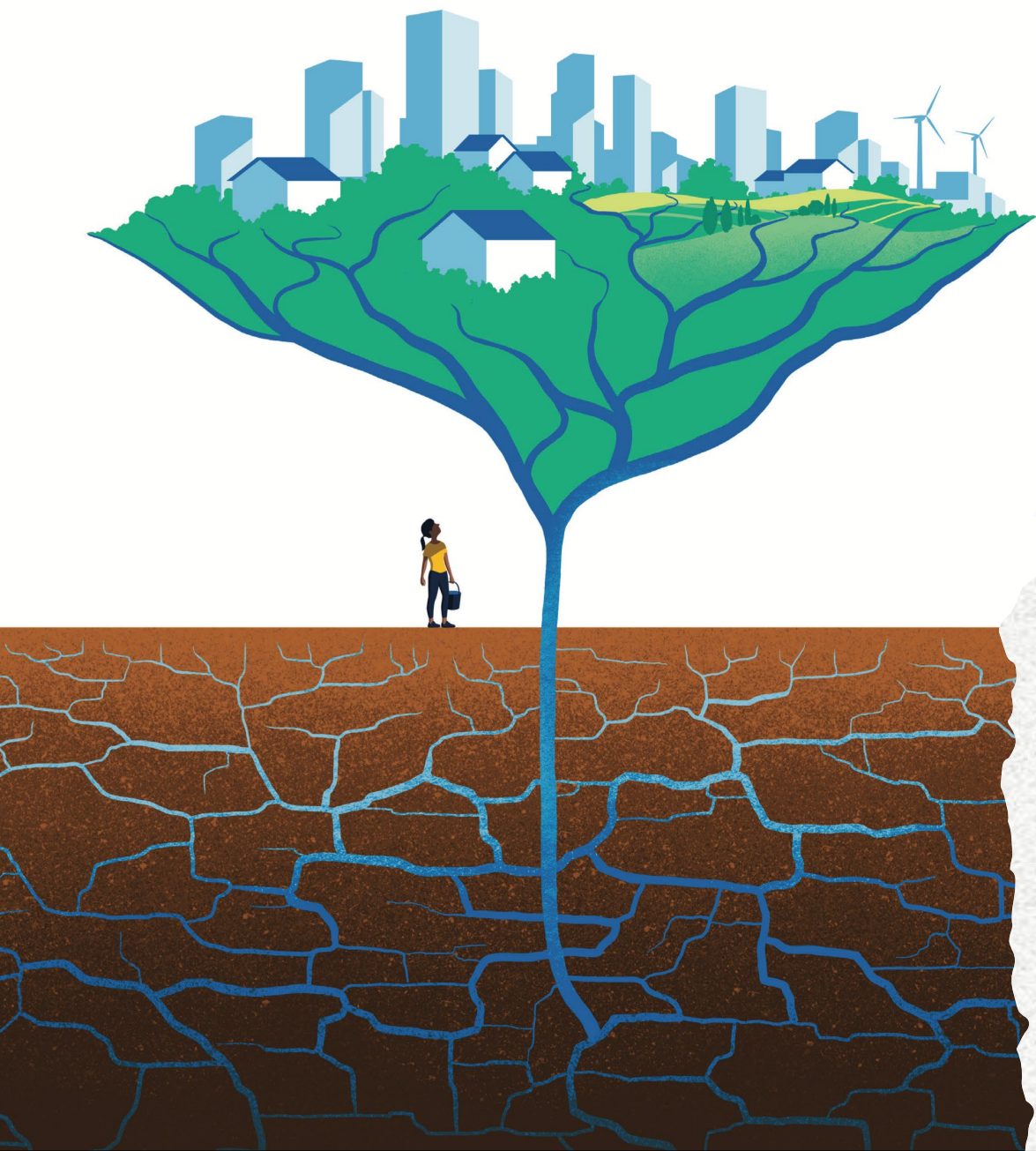
Date: March 22-27, 2022

Location: Naperville, Illinois

Contact: Dr. Prakasam Tata

www.rowfoundation.org (HQ Contact Subijoy Dutta rowfoundation@gmail.com)

WWD 2022 Awareness Activity – Dr. Prakasam Tata, Naperville, IL



Groundwater: Making the Invisible Visible

World Water Day, 2022

***Prakasam Tata, Ph.D., BCES, QEP (Emeritus), WEF
Fellow***

March 26, 2022



Aren't We Lucky?!

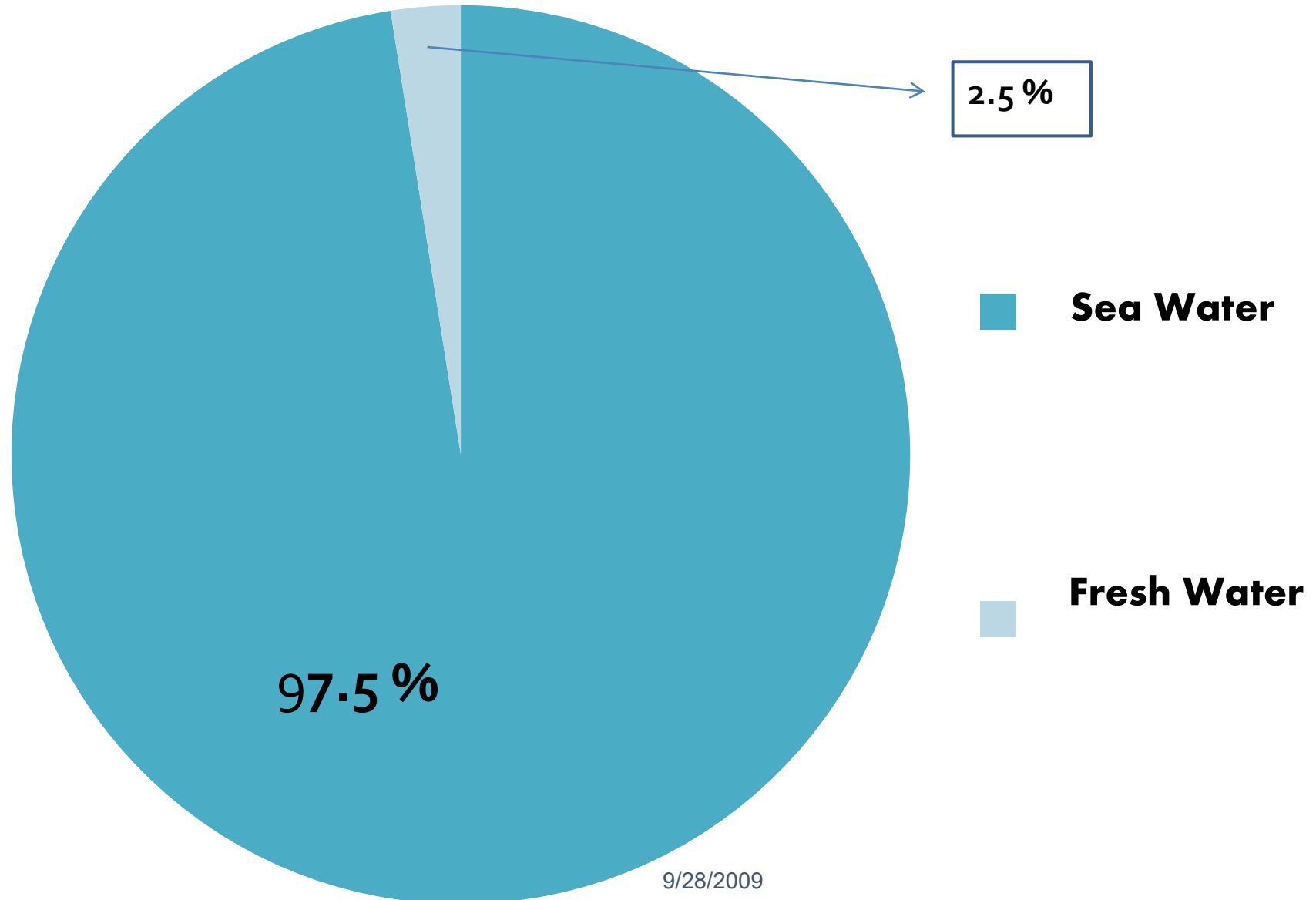


What is Groundwater?

Any water that is Subsurface Water where all the interstices of the soil are completely saturated with water (Saturated Zone)



WORLD WATER



02/26/2022

Groundwater Accounts for 99% Of All Freshwater on Earth

**So, we need to protect it for now and for future
generations**

*The United Nations World Water Development Report:
Groundwater: Making the Invisible Visible, 2022*



CHALLENGES

- **WITHDRAWALS** (600 km³ /year in 1900 to 1,300 km³ /year in 2017)
 - **AGRICULTURE**
 - **INDUSTRY**
 - **MINING**
 - **CLIMATE CHANGE**

Bangladesh, China, India, Indonesia, Pakistan, Iran, and Turkey Account for ~ 60% of Groundwater Withdrawl
- **POLLUTION**

Septic tanks, Industry, Agriculture, Saltwater Intrusion

WATER QUALITY

Arsenic, Fluoride, Boron, Fecal Contamination



OPPPORTUNITIES

- **AWARENESS CREATION**
- **RAINWATER HARVESTING & GROUNDWATER RECHARGE**
- **TECHNOLOGY INTERVENTIONS**
 - **Monitoring, Water quality testing, Pollution Abatement, Treatment**
- **FULLY OPERATIONAL GOVERNANCE**
 - **Policy and Planning, Laws, Regulations, and Enforcement, Stakeholders Participation, Financing**

