



# Groundwater Depletion and Recharging

Join us as we explore the critical issue of groundwater depletion and the vital role of recharging.

# Defining Groundwater and Its Importance

## Hidden Resource

Groundwater is the water beneath the Earth's surface, stored in porous rock and soil layers.

## Essential for Life

It's a vital source of drinking water for many communities and supports agriculture, industry, and ecosystems.

# Causes of Groundwater Depletion

## 1 Overpumping

Excessive extraction for irrigation, industrial use, and domestic needs depletes the water table.

## 2 Climate Change

Droughts and reduced rainfall lead to less water infiltrating the ground, contributing to depletion.





# Impacts of Groundwater Depletion

## Water Scarcity

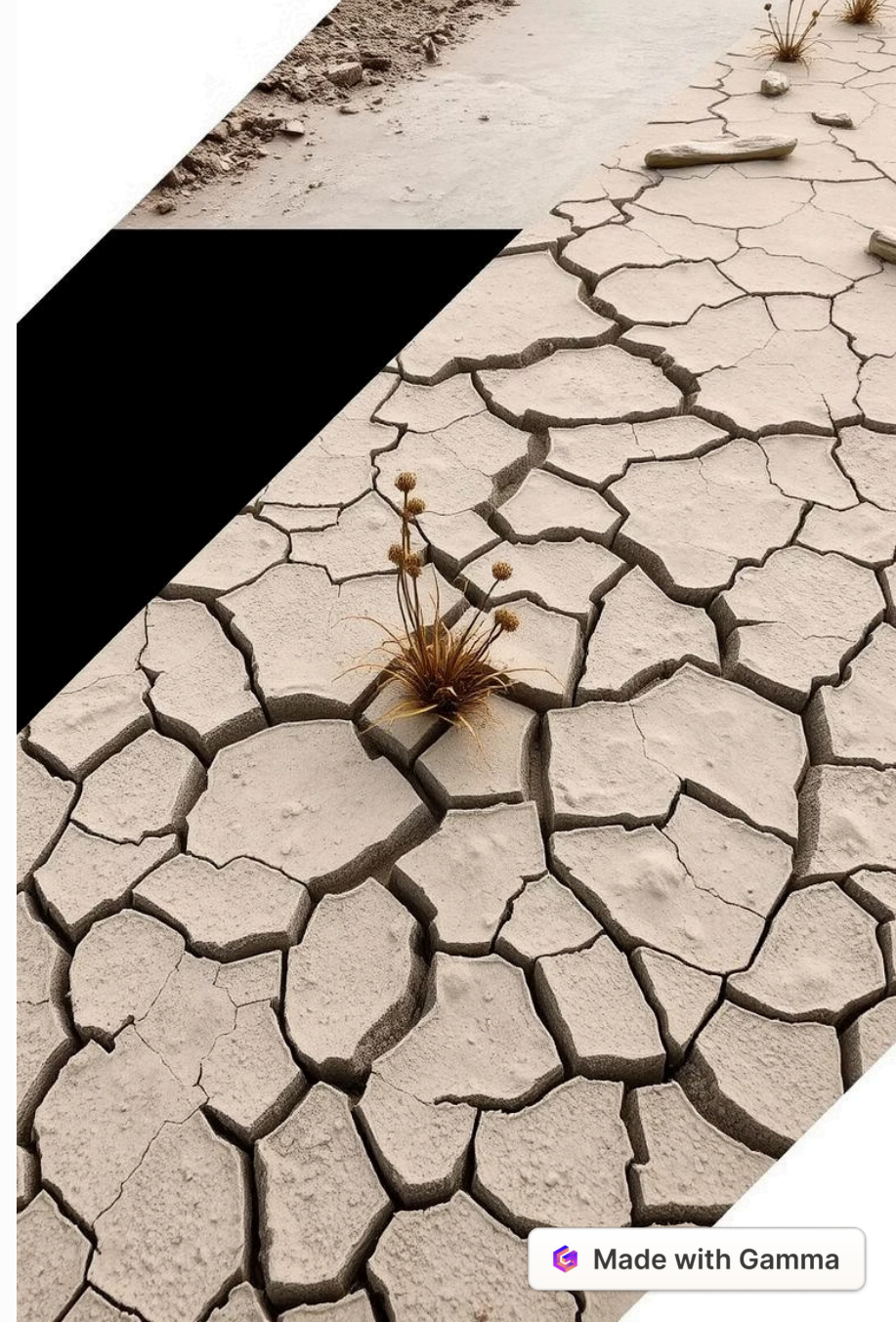
Depletion leads to water shortages for communities, agriculture, and ecosystems, impacting livelihoods.

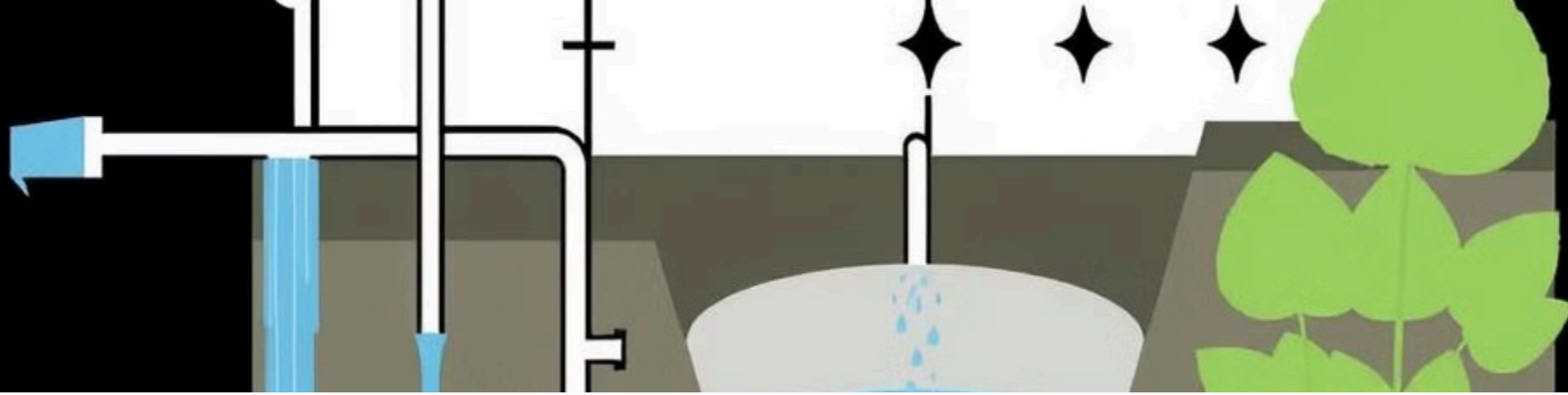
## Land Subsidence

As groundwater is removed, the ground can sink, causing damage to infrastructure and buildings.

## Saltwater Intrusion

Near coastal areas, depleted groundwater can lead to saltwater seeping into freshwater aquifers, rendering them unusable.





# Groundwater Recharging Techniques



## Rainwater Harvesting

Collecting rainwater from rooftops and guiding it to recharge areas replenishes aquifers.



## Afforestation and Reforestation

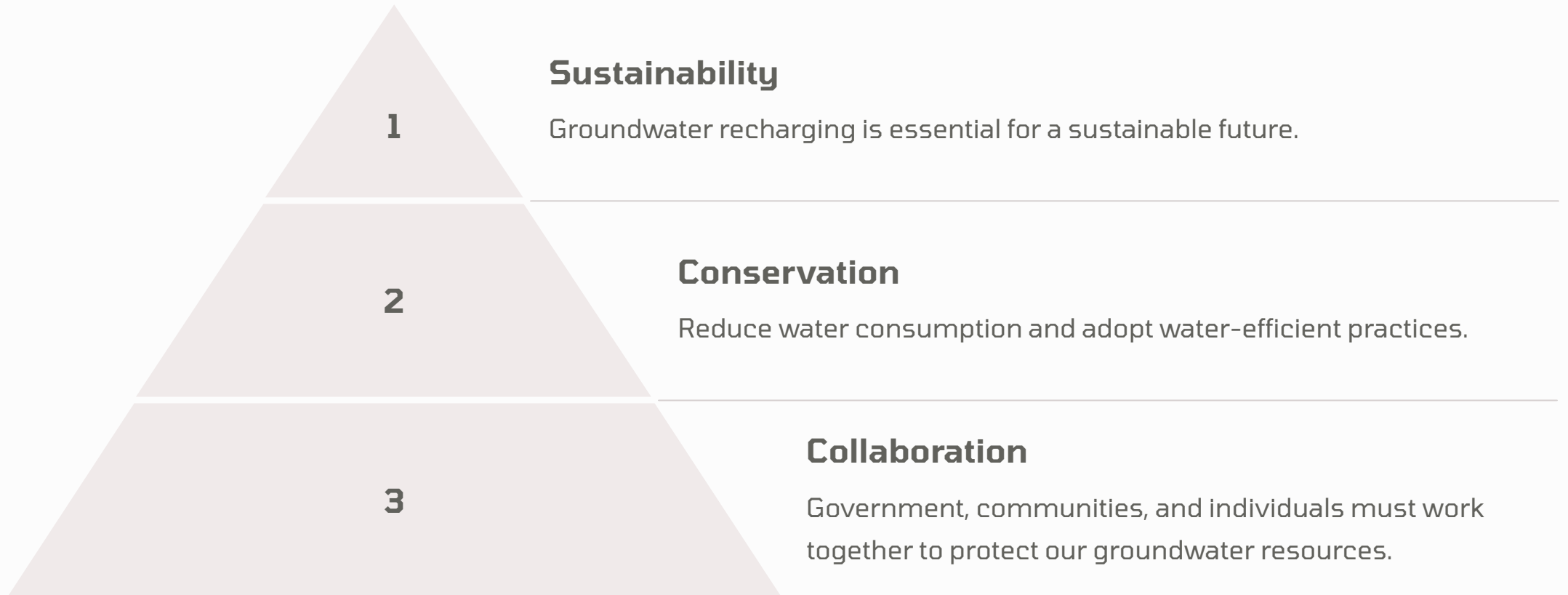
Planting trees increases infiltration rates, allowing more water to reach the groundwater table.



## Artificial Recharge

Directing treated wastewater or surface water into recharge basins or wells replenishes depleted aquifers.

# Conclusion and Call to Action



# THANK YOU

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# SAVE WATER

