

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.

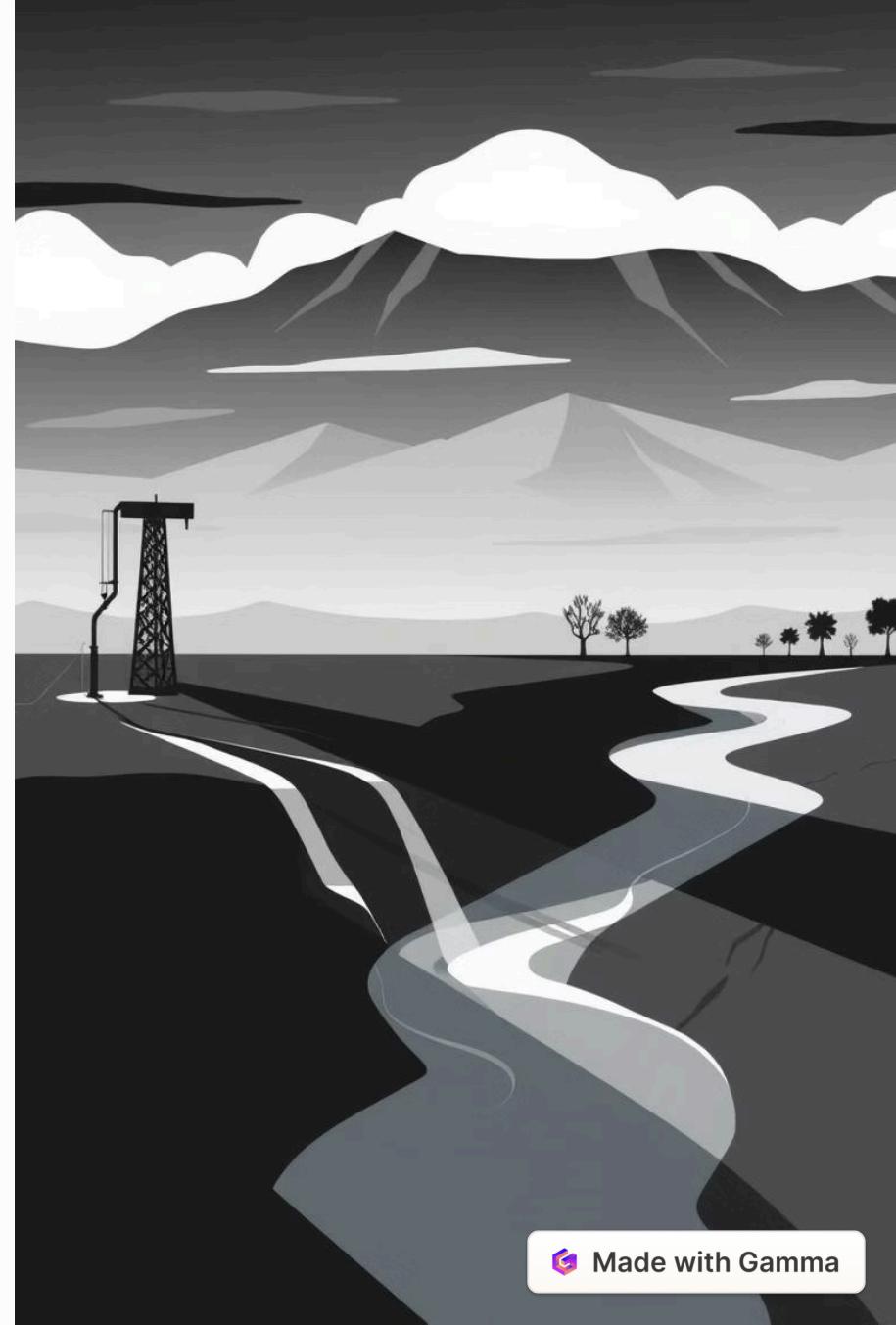
Causes of Groundwater Depletion

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

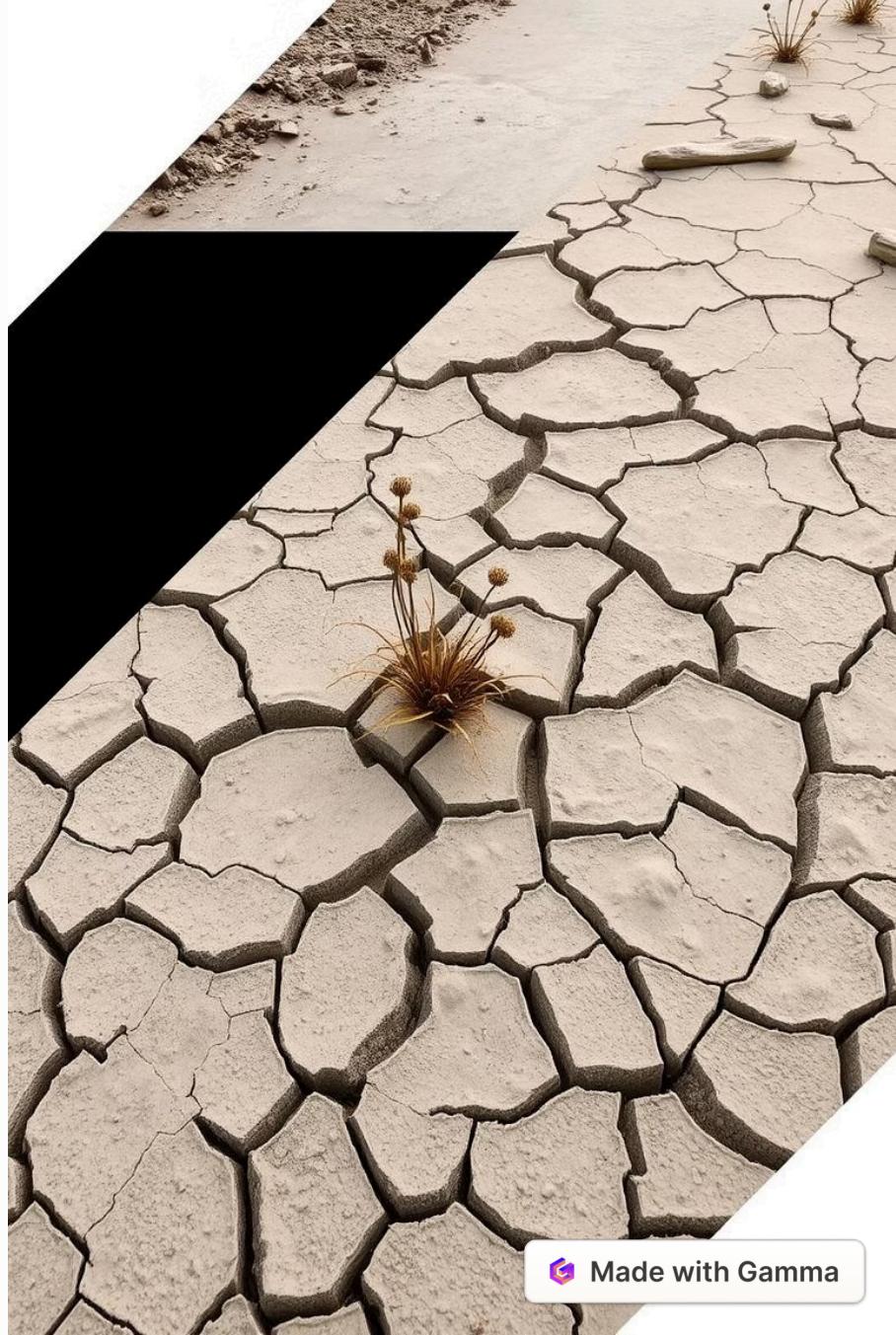
Depletion leads to water shortages for communities, agriculture, and ecosystems, impacting livelihoods.

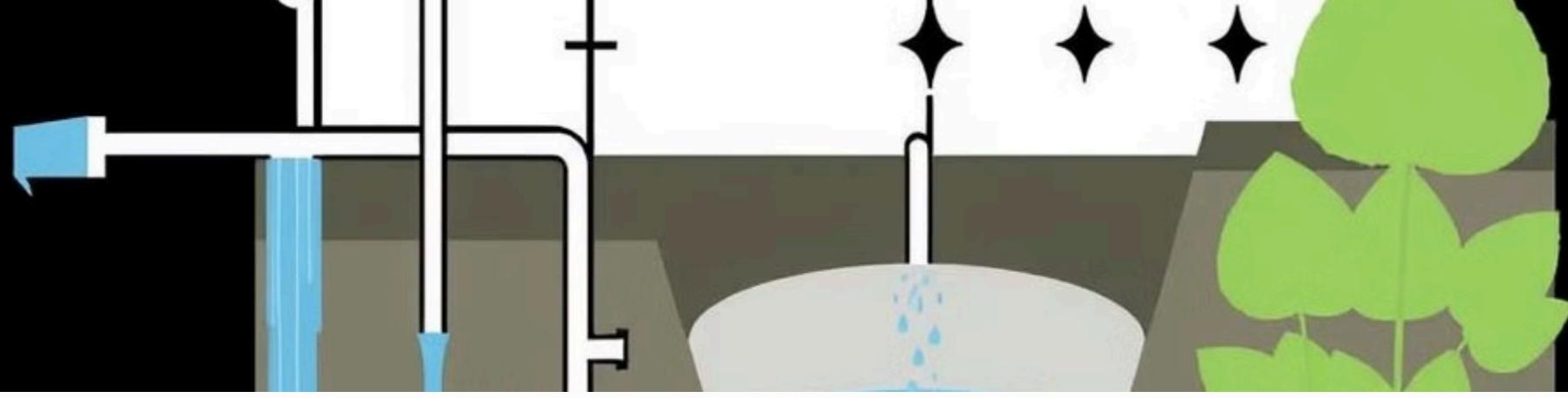
Land Subsidence

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.

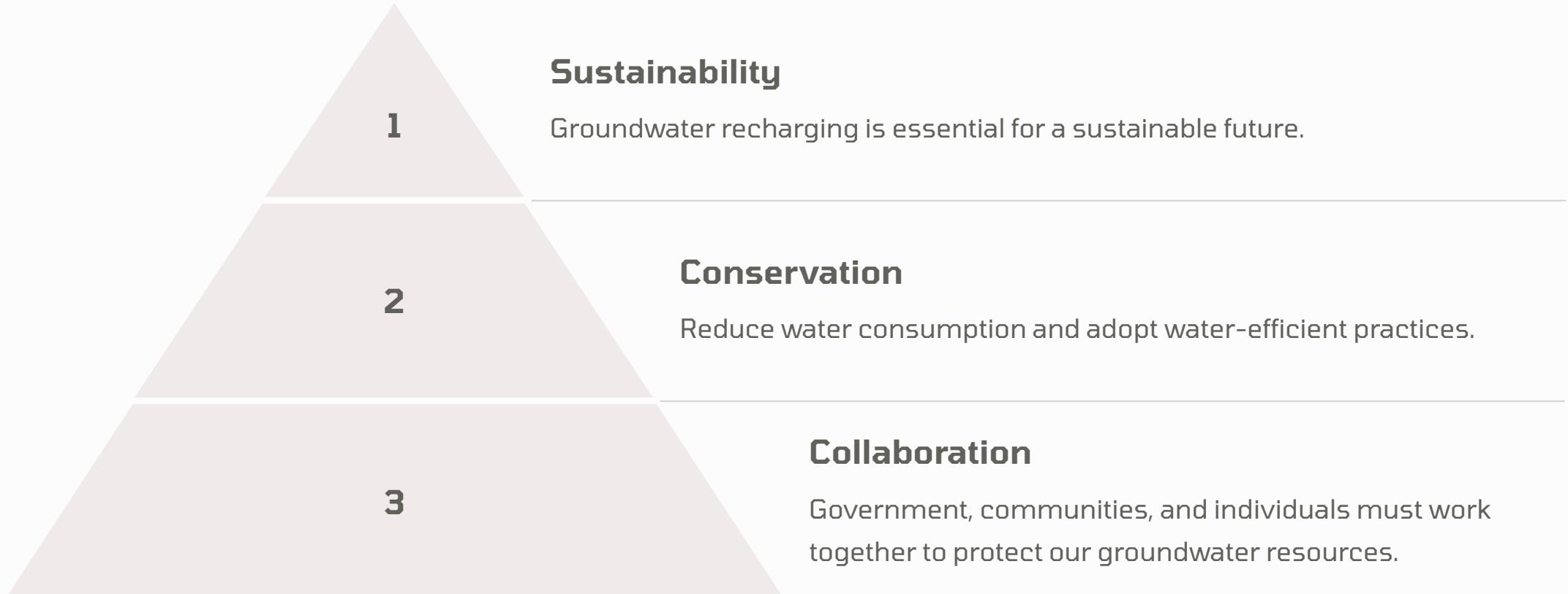


Artificial Recharge

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

