

WATER SCARCITY IN SOUTHEASTERN ANATOLIA, TURKEY

Hayrunnisa KABAL
İrem KAÇAR



OUTLINE OF THE PRESENTATION

- Background information about Southeastern Anatolia Region, Water Scarcity
- Causes & Effects of Water Scarcity
- Existing Solutions
- Suggested Solution
- Conclusion
- Q & A



Picture Source: Minilook

INTRODUCTION

Water scarcity refers to a situation of water stress that can be seasonal and annual in nature.

Ecosystems, human health and economic stability are among many things that water scarcity negatively affects in the world.

SOUTHEASTERN ANATOLIA REGION AND WATER

- Water scarcity since 1964
- Overuse of groundwater
- Seasonal or long -term lack of adequate water



Picture sources: Coğrafya Bilimi, 2013

CAUSES

Climate change -Droughts



Picture Source: Volo Foundation, 2021

Poor water management



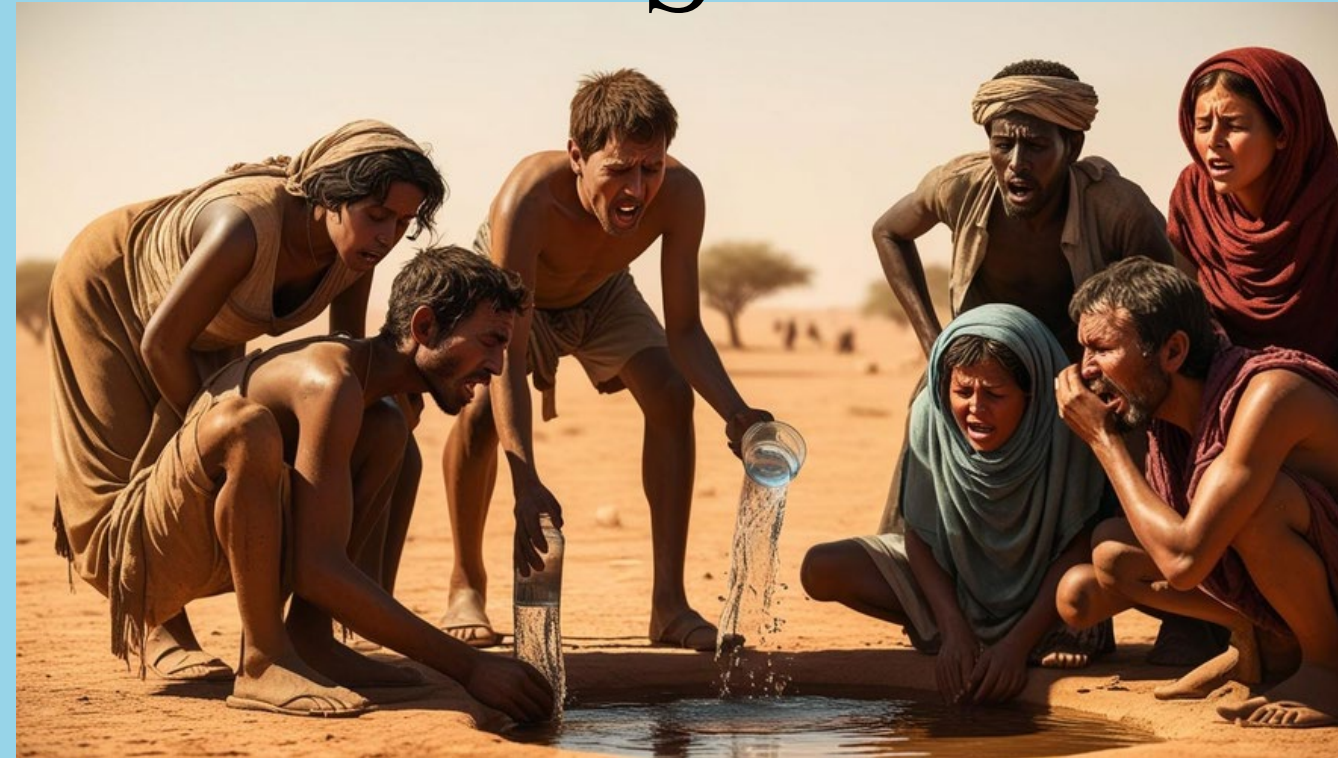
Picture Source: ChatGPT, 2025

Water pollution -Growing demand



Picture Source: Dreamstime, 2024

EFFECTS



Human health

Picture Source: CanvaAI, 2025



Ecosystem

Picture Source:

CanvaAI, 2025



Agriculture and the economy

Picture Source: CanvaAI, 2025

EXISTING SOLUTIONS

1- GAP

Project

The aim of this project:

to reduce socio-economic
inequalities
and improve agriculture,
energy production and infrastructure

According to Okten and Ceken (2008)

the GAP project is a solution
to water scarcity through the
construction of dams,
which are water storage structures
and the establishment of
hydroelectric power plants



Picture Source: Daily sabah, 2015

EXISTING SOLUTIONS

2-Israel's Water First Policy

The aim of this approach,
places water resources at the
center of national security
and
sustainability.

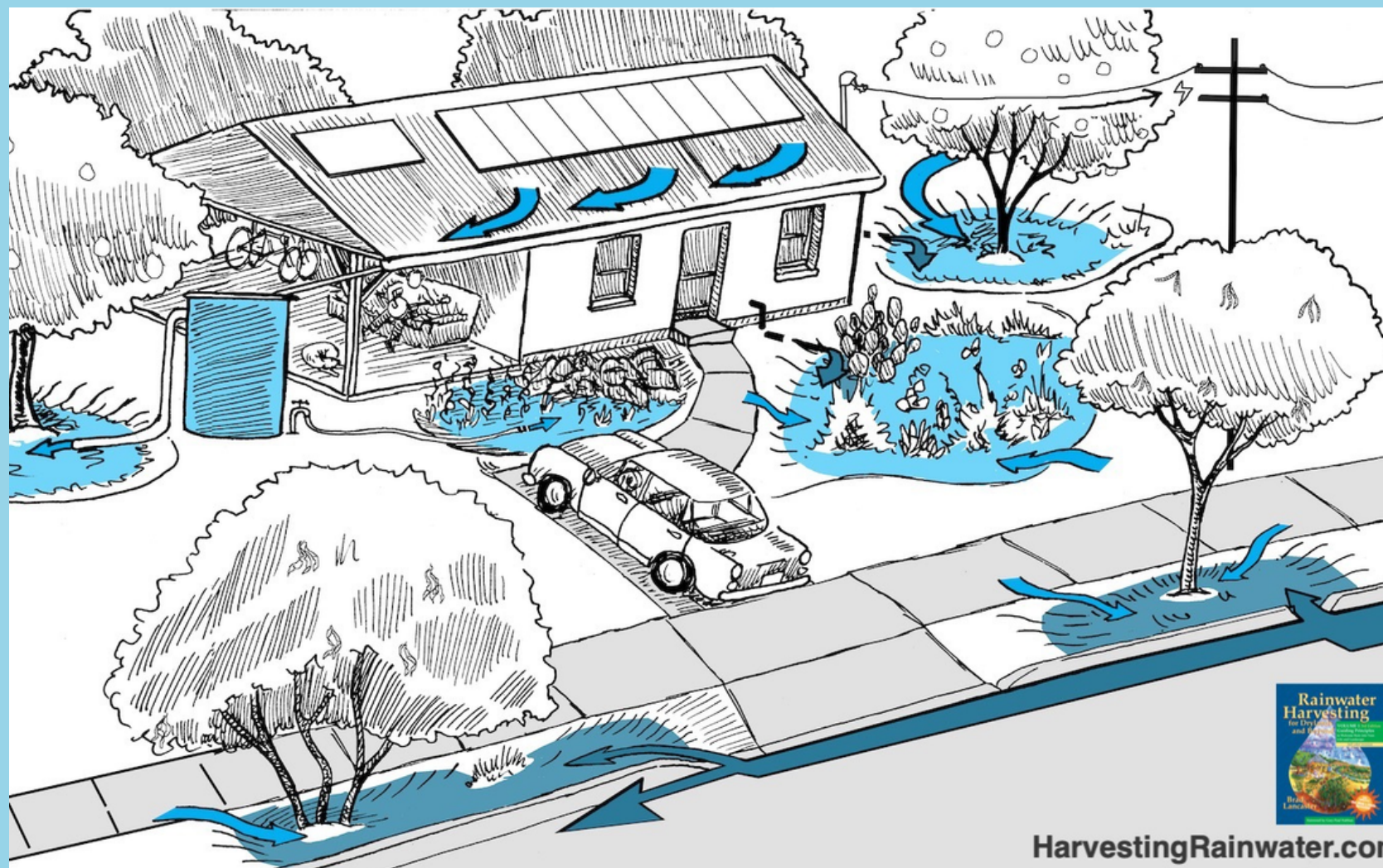
According to Marin et al. (2017)
facing long-term scarcity, Israel
adopted a “water first” approach in
the early 2000's by investing in large-
scale desalination to ensure most of
its municipal water came from this
source.



*Picture Source: Climate adaptation
platform, 2024*

SUGGESTED RAINWATER HARVESTING SOLUTION

Preventing unconscious water consumption



Picture Source: HarvestingRainwater

Collecting rainwater with simple plastic materials and using it easily in homes and agriculture



Picture Source: REVIVE AND RELIVE, 2025

CONCLUSION

2 CAUSES OF WATER

SCARCITY

- Climate change - Drought
- Poor water management
- Water pollution - Growing demand

3 EFFECTS OF WATER

SCARCITY

- Human health
- Ecosystems
- Agriculture and the economy

EXISTING

SOLUTIONS

- GAP Project
- Israel's Water First Policy

OUR

SOLUTION

- Rainwater harvesting

NEVER

FORGET

Let's protect water as we would protect our own lives because
without water, there is no life .



Picture Source: Ryhthm Foundation, 2023

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Q & A