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Water Shortage in Mersin, Türkiye

Causes, Impacts, and Sustainable Solutions



MERSİN-TARSUS
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Where is Mersin?





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Where is Mersin?

- Mersin is a major coastal city in southern Türkiye.
- Located in the Mediterranean Region
- Rapid population growth and economic activity, agriculture, industry, tourism, and urban life depend heavily on water



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What is water shortage?

- Water shortage occurs when water demand exceeds supply
- A growing global problem affecting cities like Mersin
- Threatens food security, health, and ecosystems
- Caused by climate change, overuse, and poor management





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Climate change and Rainfall!

- Longer and hotter summers
- More frequent drought periods
- Reduced surface and groundwater recharge
- Decreasing annual rainfall in the Mediterranean basin





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Population Growth and Urbanization!

- Expansion of residential areas
- Increased domestic water consumption
- Rapid population increase in Mersin
- Higher pressure on water infrastructure



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Agriculture and Water Use

- Agriculture is the largest water consumer
- Intensive irrigation for citrus, vegetables, and greenhouses
- Traditional irrigation methods cause water loss
- Overuse of groundwater resources





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Environmental Impacts

- Drying rivers and wetlands
- Decreasing biodiversity
- Soil degradation and desertification risk
- Damage to natural ecosystems



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Current Measures in Mersin

- Dams and reservoirs for water storage
- Water treatment and distribution systems
- Awareness campaigns on water saving
- Monitoring of groundwater levels



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Sustainable Solutions

- Efficient irrigation (drip and smart systems)
- Rainwater harvesting
- Wastewater recycling
- Reducing water losses in pipelines
- Using smart water management technologies

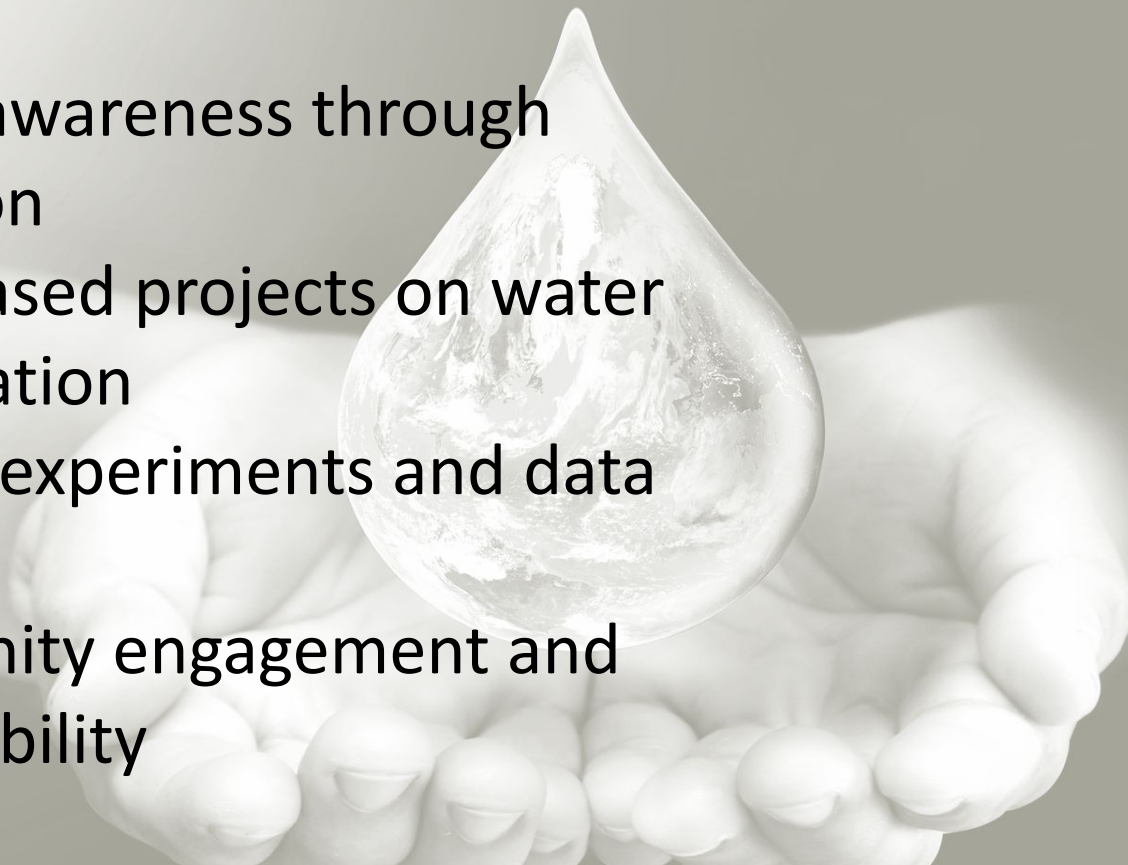




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Role of Education and STEM

- Raising awareness through education
- STEM-based projects on water conservation
- Student experiments and data analysis
- Community engagement and responsibility





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Conclusion

- Water shortage is a serious challenge for Mersin
- Climate change and human activities increase the risk
- Sustainable management is essential
- Everyone has a role in protecting water resources
- Saving water today means securing the future



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