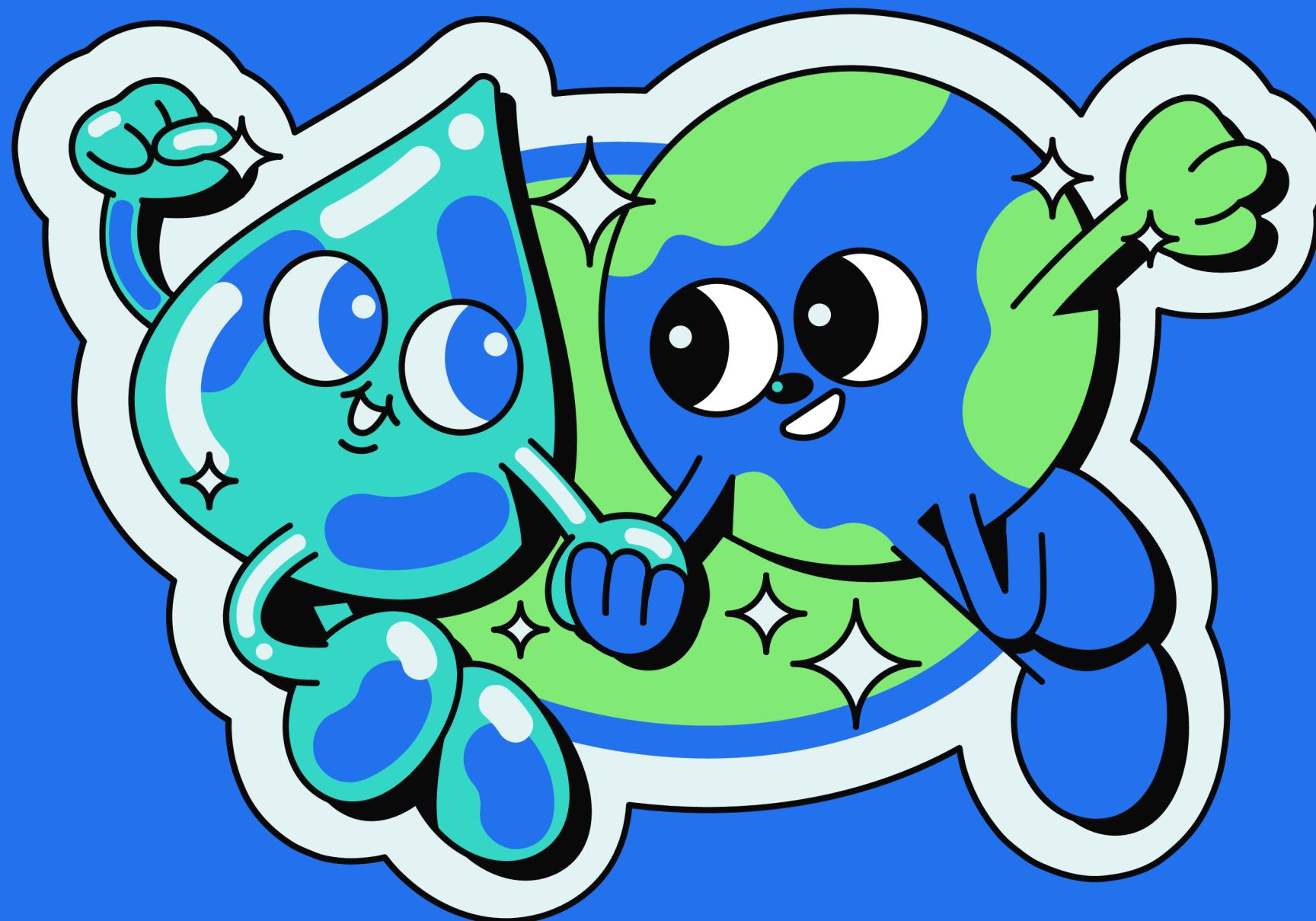


baker's dozen

MANGYSTAU ECOLOGY

15.11.2025



How to get rid
of drinking
water
shortages?

RELEVANCE

Mangystau faces growing water shortages and environmental problems.

Teaching students about ecology and motivating them to protect nature is highly important today.

That is why this project is very relevant.



MANGYSTAU IS EXPERIENCING GROWING ENVIRONMENTAL STRESS: LIMITED DRINKING WATER, INCREASING POLLUTION, LAND DEGRADATION, AND THREATS TO LOCAL ECOSYSTEMS. MANY STUDENTS ARE AWARE OF THESE ISSUES, BUT THEY DON'T HAVE A MODERN AND INTERACTIVE WAY TO LEARN ABOUT THEM. THERE IS ALSO A LACK OF PLATFORMS THAT INSPIRE TEENAGERS TO TAKE REAL ACTION AND CONTRIBUTE TO SOLUTIONS.



GOAL

The goal of the project is to increase students' understanding of Mangystau's environmental issues and encourage them to take action to protect nature.

The platform aims to teach ecology in an easy, engaging way using modern digital and AI tools.

PROJECT ESSENCE



Our project is an interactive digital platform designed to teach students about the ecological situation in Mangystau in a fun and engaging way.

The platform uses multimedia content, simple explanations, and real examples from the region.

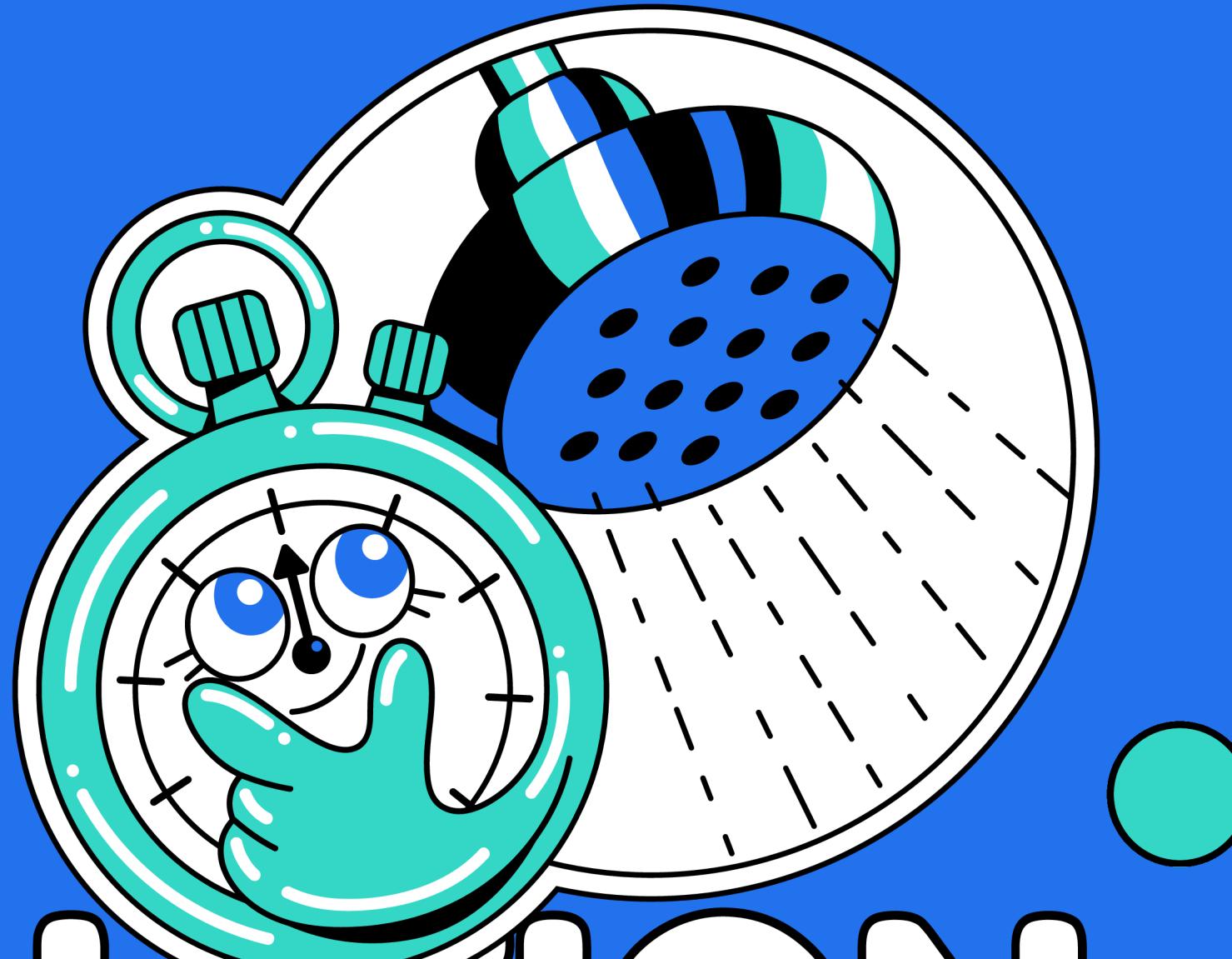
Built-in AI tools help personalize the experience – from answering questions to suggesting eco-activities.

The main goal is to motivate young people to protect nature, participate in eco-events, and launch their own small environmental projects.

SOLUTION

TO ADDRESS THE ENVIRONMENTAL CHALLENGES IN

MANGYSTAU, ESPECIALLY THE SHORTAGE OF DRINKING WATER,
OUR PROJECT FOCUSES ON THREE MAIN SOLUTION DIRECTIONS:



1. Education & Awareness

The platform helps students understand ecological problems through clear explanations, videos, and interactive lessons.

Better awareness leads to more responsible use of water and natural resources.

2. Technology & AI Tools

AI analyzes local issues through photos, gives personalized tips, and suggests eco-friendly actions.

This makes environmental monitoring easier and more engaging for students.

3. Active Participation & Community Action

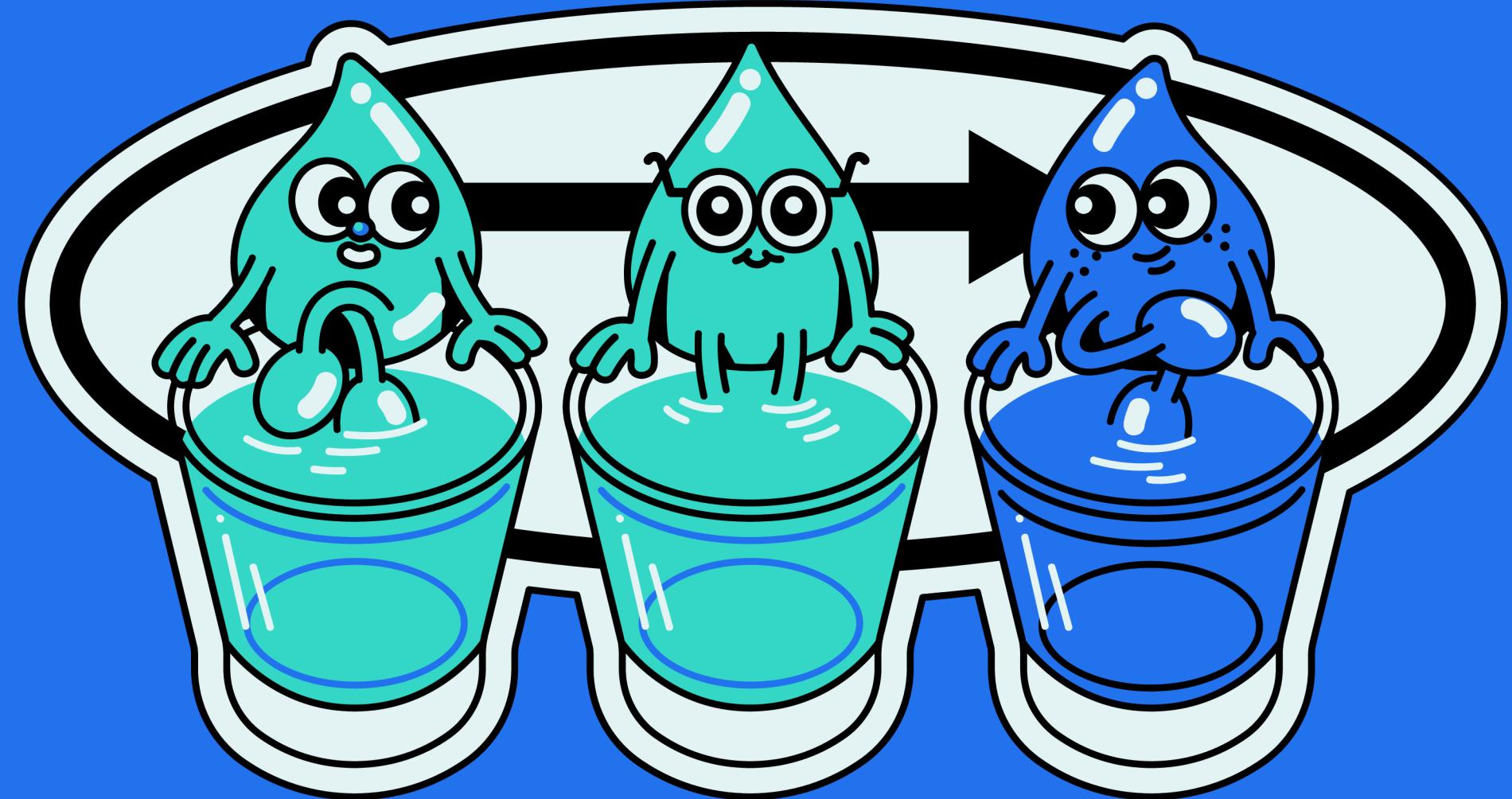
Students receive practical eco-challenges, join clean-up events, and create their own mini-projects.

Working together helps reduce pollution, save water, and protect local nature.

AUDIENCE

Teachers and
eco-club leaders.

High school students
(14–18 years old)
in Mangystau.



Youth interested in ecology and digital tools

ADVANTAGES

Easy and engaging way for students to learn about ecology.

Uses AI tools for personalized tips and problem detection.

Encourages real actions, not just theory.

Available in three languages: Kazakh, Russian, English



• EXPECTED RESULTS



Students gain better knowledge about ecology and water issues.

- Awareness and responsibility toward nature increase.

Students develop eco-friendly habits like saving water and reducing waste.

Participation in eco-projects and community activities grows

CONCLUSION



This project helps young people understand environmental problems and take real steps to protect nature.

The platform combines education, technology, and community action, making ecological learning simple, engaging, and effective for students in Mangystau.

Thank you
**for your
attention!**