

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

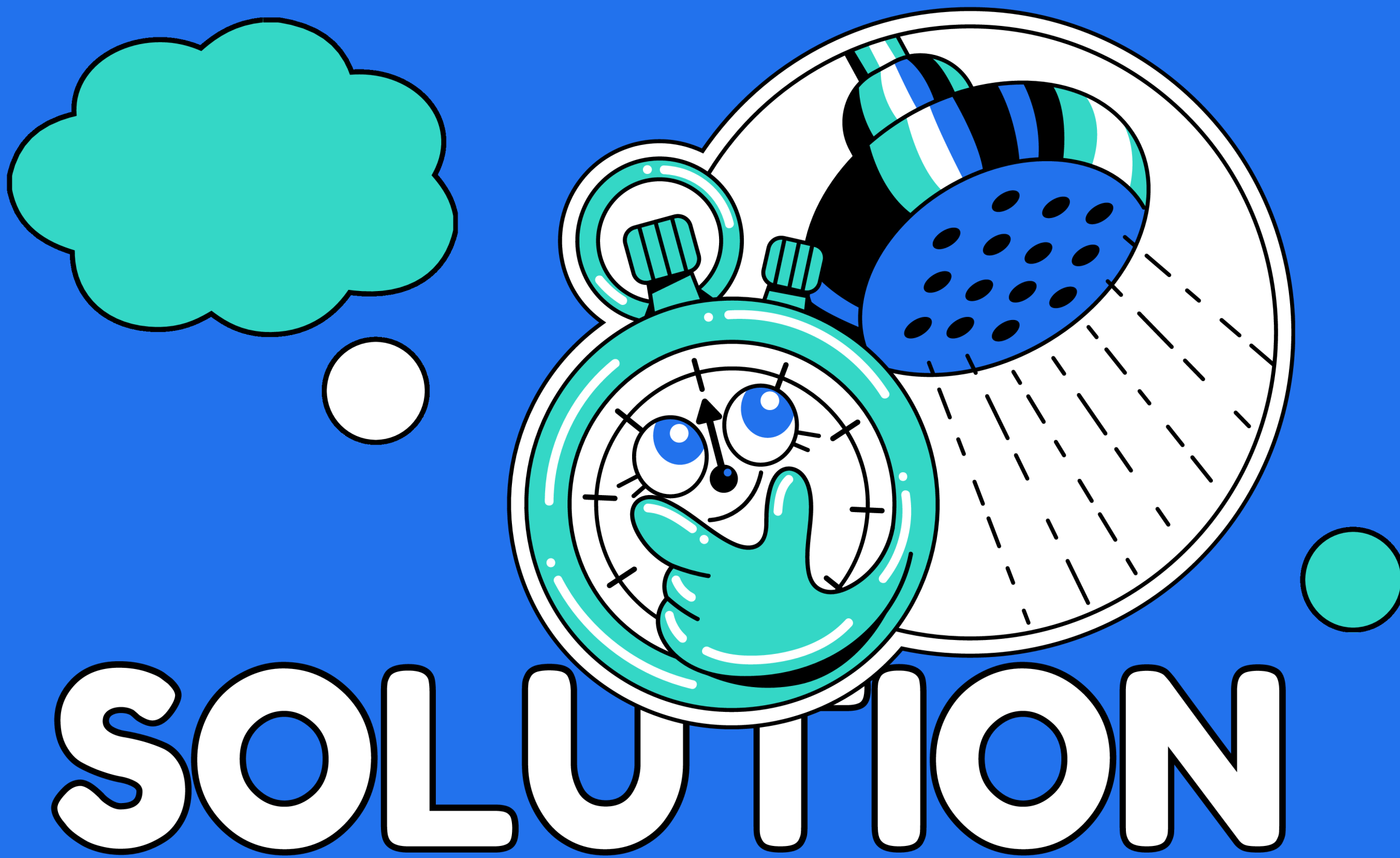


Our project is an interactive digital platform designed to teach students about the ecological situation in Mangystau in a fun and engaging way.

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.



**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.

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

**Teachers and
eco-club leaders.**



**Youth interested in ecology and
digital tools**

Target
AUDIENCE

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.

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

• Awareness and responsibility toward nature increase.

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!**