

**ABYROI TEAM**

# **MONITORING OF FOREST FIRES FROM SPACE.**

"Space: A World Full of Mysteries and Enigmas."



# About us

## WE ARE

students of the “Abyroi school”,  
studying in the 11th grade. Winners of  
international robotics competitions,  
we have been engaged in robotics for  
more than 5-7 years



# **3D - visualization of the earth for monitoring forest fires.**

**Beta 1.0**



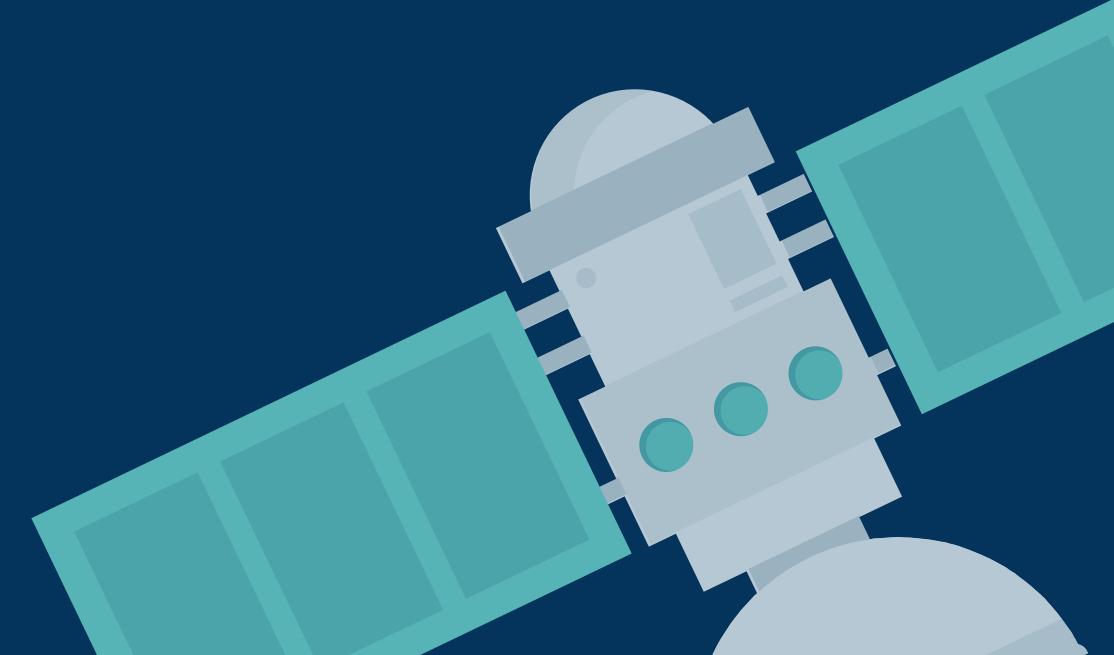
# FIRE FOREST

Forest fires are events in which a fire spreads in forests or other natural ecosystems. They can have various causes and scales, and they can have a serious impact on nature, ecology and society.





**As we know, there is a very common problem of forest fires in Kazakhstan. Here are the statistics for 2020-2023:**



# number of fires in Kazakhstan

## FOREST FIRE



701

-

2020



749

-

2021



706

-

2022

## STEPPE FIRES



130

-

2020



115

-

2021



74

-

2022

# number of fires in Kazakhstan

## Forest Fire in 2022

data by September 9, 2022



**The project "3D Visualization of the Earth for Monitoring Forest Fires" is an innovative research and development initiative aimed at creating an impressive and powerful visualization system that will allow more efficient monitoring and management of forest fires throughout the planet Earth.**

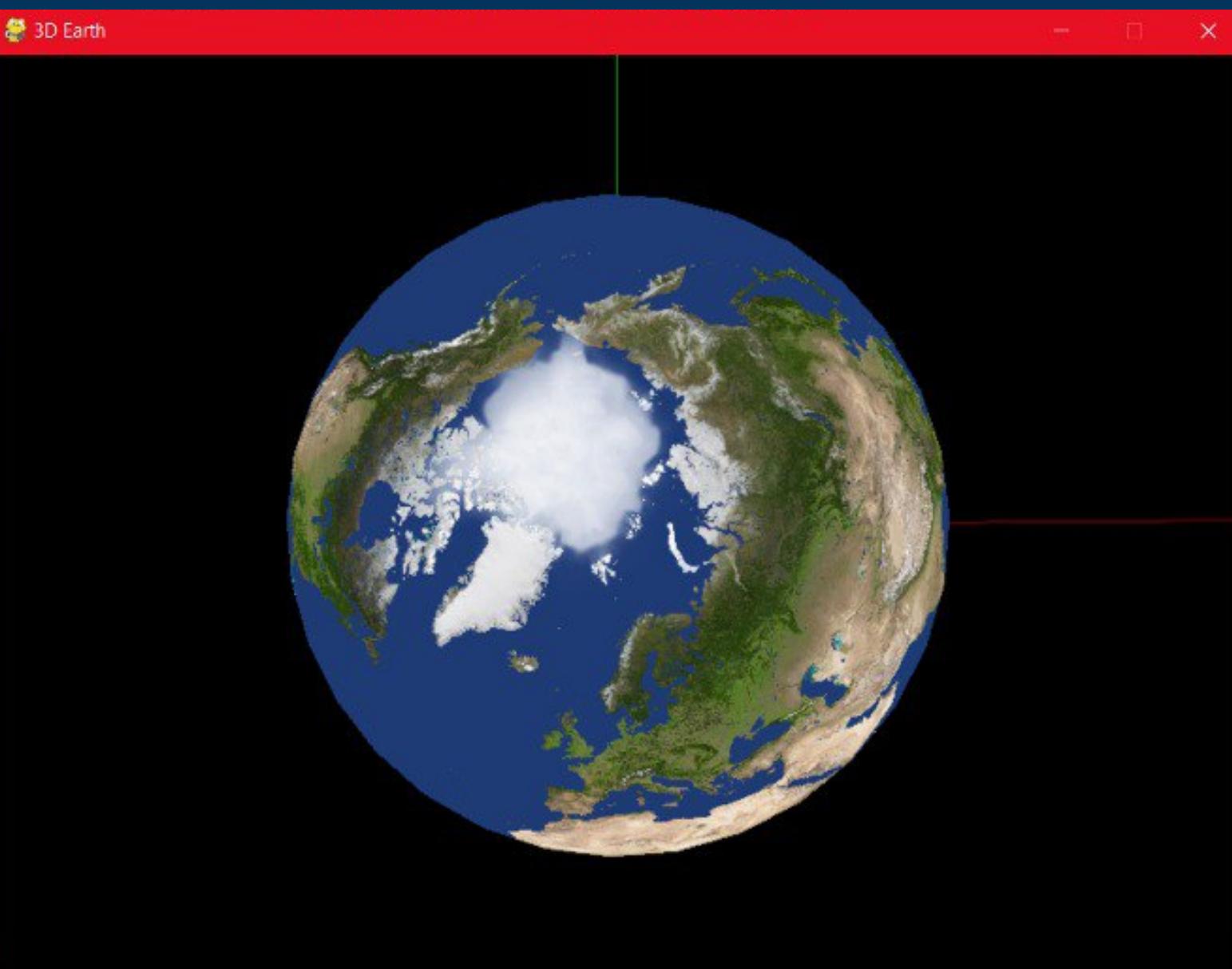


# Advantages of the project:

1. More accurate monitoring.
2. Reduction of losses.
3. Reducing environmental impacts



The project provides accurate monitoring of forest fires in real time, analyzes data and provides forecasts. It covers the entire planet, reduces environmental impacts and supports scientific research, contributing to solving the problem of forest fires



# FUNCTIONS

## REAL TIME:

In the future, the system will provide information about forest fires in real time, which will allow you to quickly respond to emerging fires.

## ANALYSIS AND FORECASTING:

The project will analyze fire data and use models to predict their spread, which will help in effective fire management.

## DECISION SUPPORT:

The system provides important data for decision-making by forest fire fighting services and environmentalists.

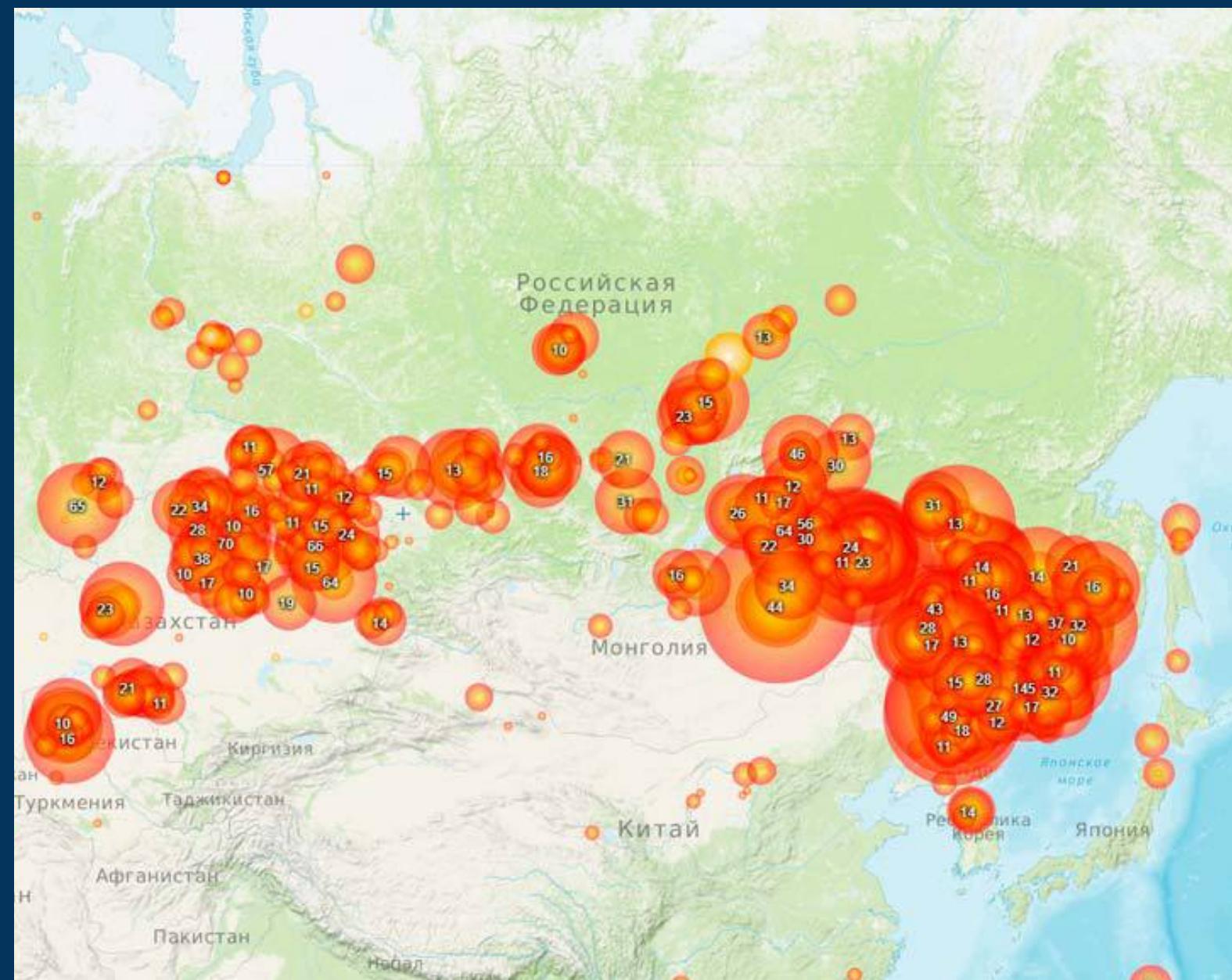


# Approximate cost of this project

- TECHNICAL COSTS : FROM SEVERAL MILLION\$
- RESEARCH AND DEVELOPMENT: UP TO SEVERAL MILLION\$
- MARKETING AND TRAINING :UP TO SEVERAL HUNDRED THOUSAND\$
- EQUIPMENT AND MAINTENANCE COSTS: FROM SEVERAL MILLION\$
- RESERVE FUND: IT IS RECOMMENDED TO ALLOCATE FROM 10% TO 20% OF THE TOTAL BUDGET TO A CONTINGENCY FUND FOR UNFORESEEN EXPENSES.



In total, the total budget for a project can range from several million to several tens of millions of dollars or more, depending on its scale and complexity. The exact figures will need to be developed and clarified within the framework of a business plan or design estimates.



# Who We Are



**ARTHUR**  
CEO & Coder



**DANIAL**  
Web-design



**MAKSOT**  
Coder



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# Contact Us

**Have any questions or suggestions?**

