



NASA SPACE APP CHALLENGE  
**NUCLEO VITA**

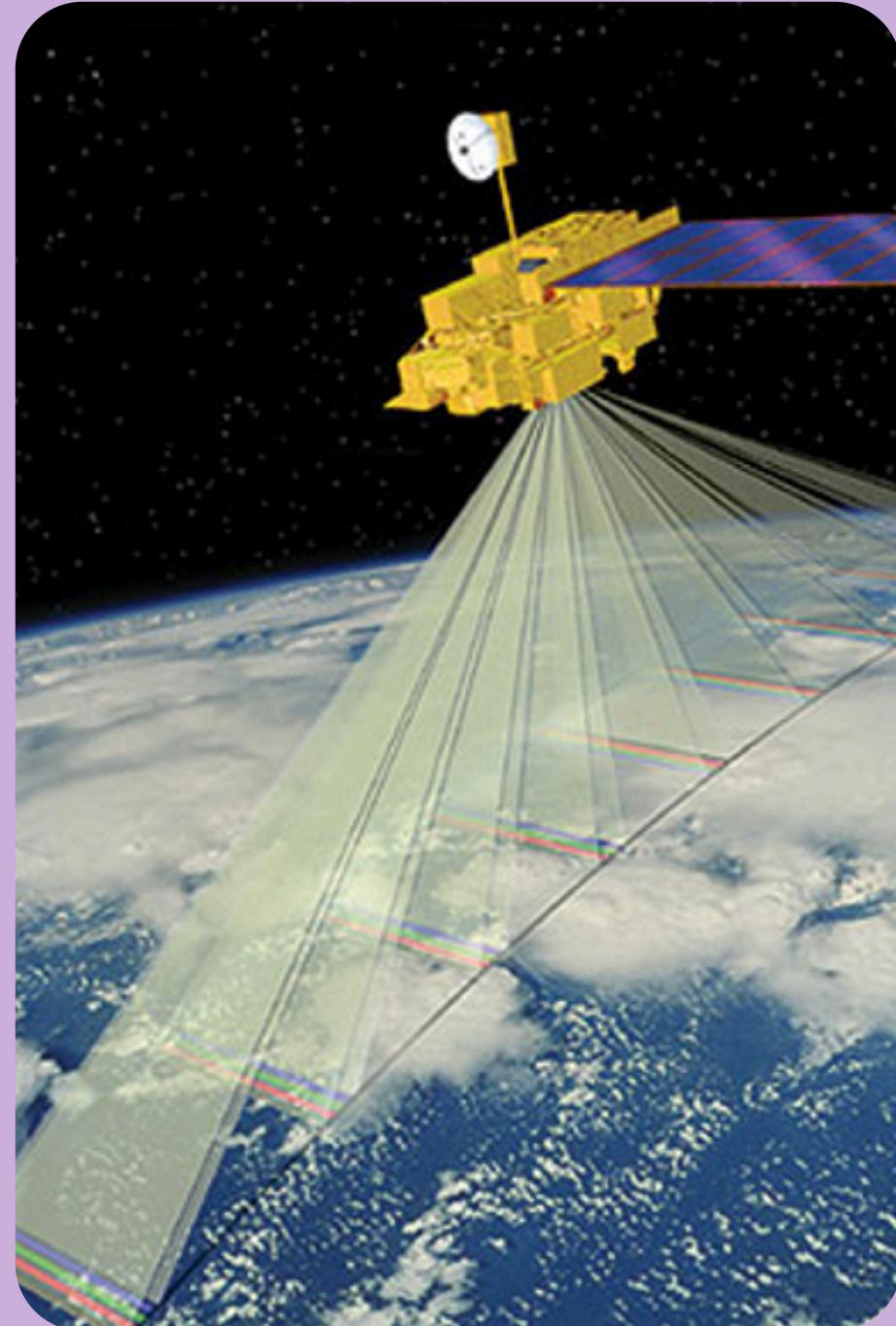


# WHAT IS NUCLEO VITA?

Nucleo Vita is an interactive strategy and quiz game. Its purpose is to create environmental awareness using data from NASA's TERRA satellite.

# TERRA SATELLITE

Is the Earth's longest-serving daily observer, which for over 25 years has recorded key information on the planet's environmental changes and processes.



# Our goals:



Help users understand the environmental crisis with real data acquired from the TERRA satellite



Deciding the Future: Make key decisions in hypothetical scenarios that affect the planet's course



Encourage Reflection:  
Receive personalized feedback detailing the impact of your choices on the Earth's future

# how it works?

## Simulation and Decision (2025-2035)

- Hypothetical Scenarios: The user takes command in the year 2025 and must make a key decision each year for the next decade.
- Decision-Making: When faced with an environmental crisis (oil spill, heatwave, water scarcity), four possible solutions are offered.
- Scoring System: Each choice is evaluated with a score that determines its sustainability level.
- Final Outcome: The total accumulated score generates a personalized final evaluation, revealing the impact of the user's decisions on alternative futures for the planet in 2050.

# KEY BENEFITS

## Educational and Cognitive Benefits

- Scientific Data Transformation: Transforms abstract, raw scientific data into accessible and experiential knowledge, simplifying the comprehension of complex environmental processes.
- Critical Thinking Development: The scoring dynamic compels the user to weigh the costs, benefits, and externalities of each environmental policy.
- Meaningful Learning: Gamification and immersion boost engagement and the retention of ecological and climatic concepts.



# KEY BENEFITS

## Outreach and Social Connection

- Strengthening Science-Society Ties:  
Demonstrates how space science (satellites) has a direct and critical application in everyday and political decision-making.
- Fostering Commitment: Immediate feedback on the consequences of decisions encourages a more informed and proactive environmental culture among citizens.



# NUCLEO VITA



## TEAM MEMBERS:

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