GUARDIANS OF THE GALAXY

AN INTEGRATED ON-GROUND/ ON-BOARD AI SYSTEM FOR SATELLITE HEALTH MONITORING

Traditional satellite monitoring relies on limited on-board detection and time-consuming ground intervention. **"Guardians of the Galaxy" proposes a groundbreaking AI-powered approach.** This integrated on-ground/on-board system utilizes Machine Learning to achieve:

ENHANCED ANOMALY DETECTION:
Catch subtle issues missed by current methods.
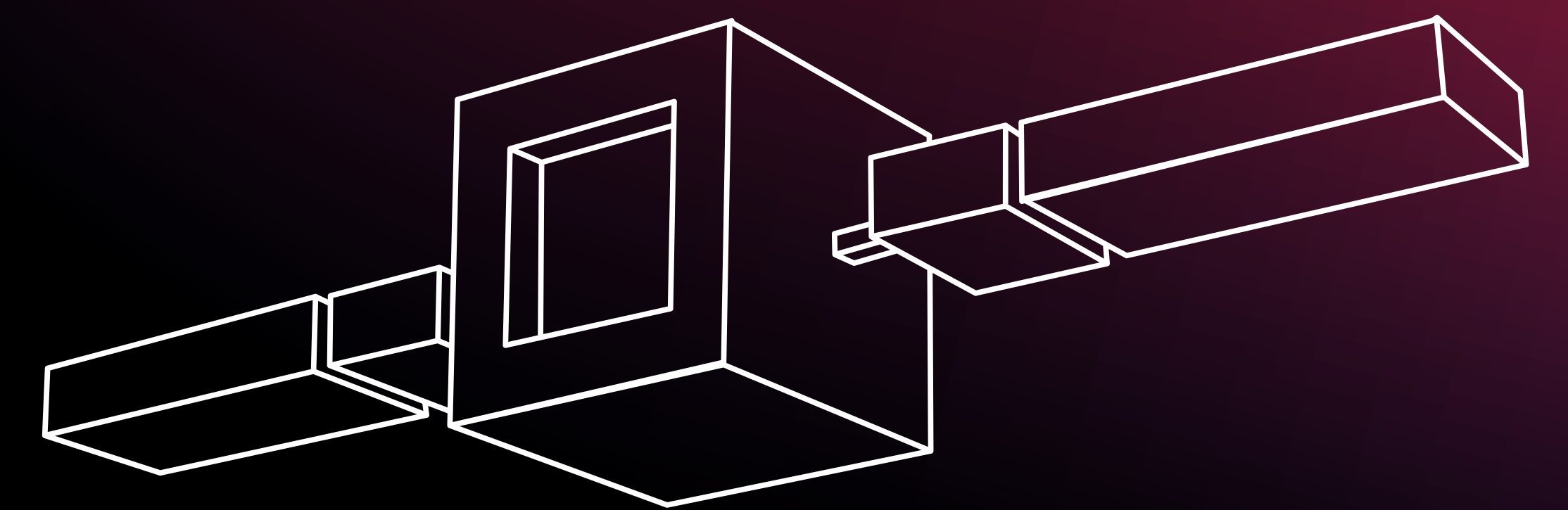
AUTONOMOUS ANOMALY RESOLUTION:
Automatically fix minor recurring problems.

REAL-TIME & PREDICTIVE MONITORING:
Gain continuous insights and anticipate potential failures.

IMPROVED EFFICIENCY & LIFESPAN:
Reduce operational costs and extend satellite operation.

HOW IT WORKS

On-board Intelligence, powered by orbital_OLIVER:
- Continuously monitors key satellite subsystems.
- Detects and resolves minor issues automatically.

On-ground Intelligence, powered by gifted_GENE:
- Provides real-time health updates during communication windows.
- Analyzes data to predict future problems.
- Suggests solutions for complex issues.

BEYOND THE PROMISE, LET'S TALK NUMBERS

PREDICTIVE MAINTENANCE
UP TO 4 DAYS OF EARLY ANOMALY DETECTION.

ENHANCE EFFICIENCY
+150% MORE ANOMALIES DETECTED VS TRADITIONAL ROUTINES.

AVOID HUMAN ERRORS
LESS THAN 2% OF FALSE POSITIVE.

orbital_OLIVER ✳

AI-POWERED ON-BOARD SOFTWARE

SUBSYSTEMS MONITORING | TELEMETRY ANALYSIS

RESOLUTION OF MINOR ISSUES

gifted_GENE

AI-POWERED ON-GROUND SOFTWARE

PREDICTIVE MAINTENANCE | COLLABORATIVE PLATFORM

REAL-TIME ANALYSIS

USER INTERFACE

USER ANALYSIS REQUEST

USER FEEDBACK ON ANALYSIS RESULTS

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INFINITE WAYS TO AUTONOMY

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