Space Career Opportunities

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Agenda

- **Space Research** & Applications
- **Model Rocketry** Workshop
- **CubeTwin** Simulator
- **Startup** / Career Opportunities

Space Research

Learn to Protect Missions.

Build Systems That Protect Spacecraft.

https://aerospace.ev.engineer/space



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Space Applications

- AI & Autonomous Spacecraft
- Satellite Servicing & Refuelling
- Space-Based Computing & Data Centres
- Space-Based Solar Power

https://aerospace.ev.engineer/space/**everyday-applications**

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Space Applications

- AI Earth Digital Twin & Climate Intelligence
- Space Internet + Direct-to-Device + Satellite IoT
- Space Debris Removal & Orbital Circular Economy
- Lunar Surface Technology

https://aerospace.ev.engineer/space/**everyday-applications**

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AI & Autonomous Spacecraft

Satellites and **spacecraft** that autonomously navigate,

Diagnose faults,

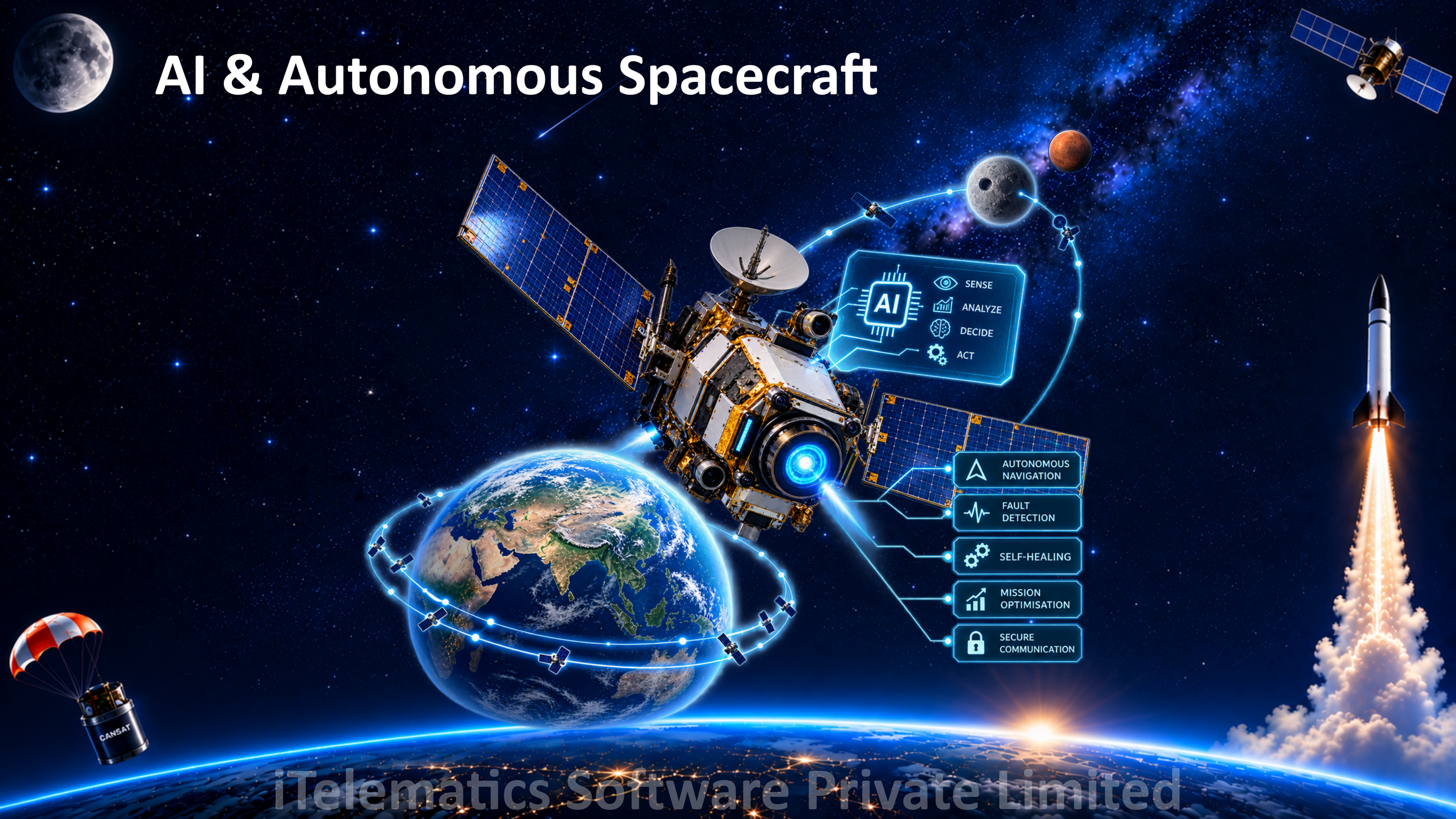
Optimize missions and

Make decisions with less ground intervention.



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AI & Autonomous Spacecraft



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Satellite Servicing & Refuelling

Robotic inspection,

Repair,

Component replacement,

Refuelling and

Life-extension of satellites already in orbit.

NASA and **ESA** are actively developing this direction

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Satellite Servicing & Refuelling



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Space-Based Computing & Data Centres

Processing AI,

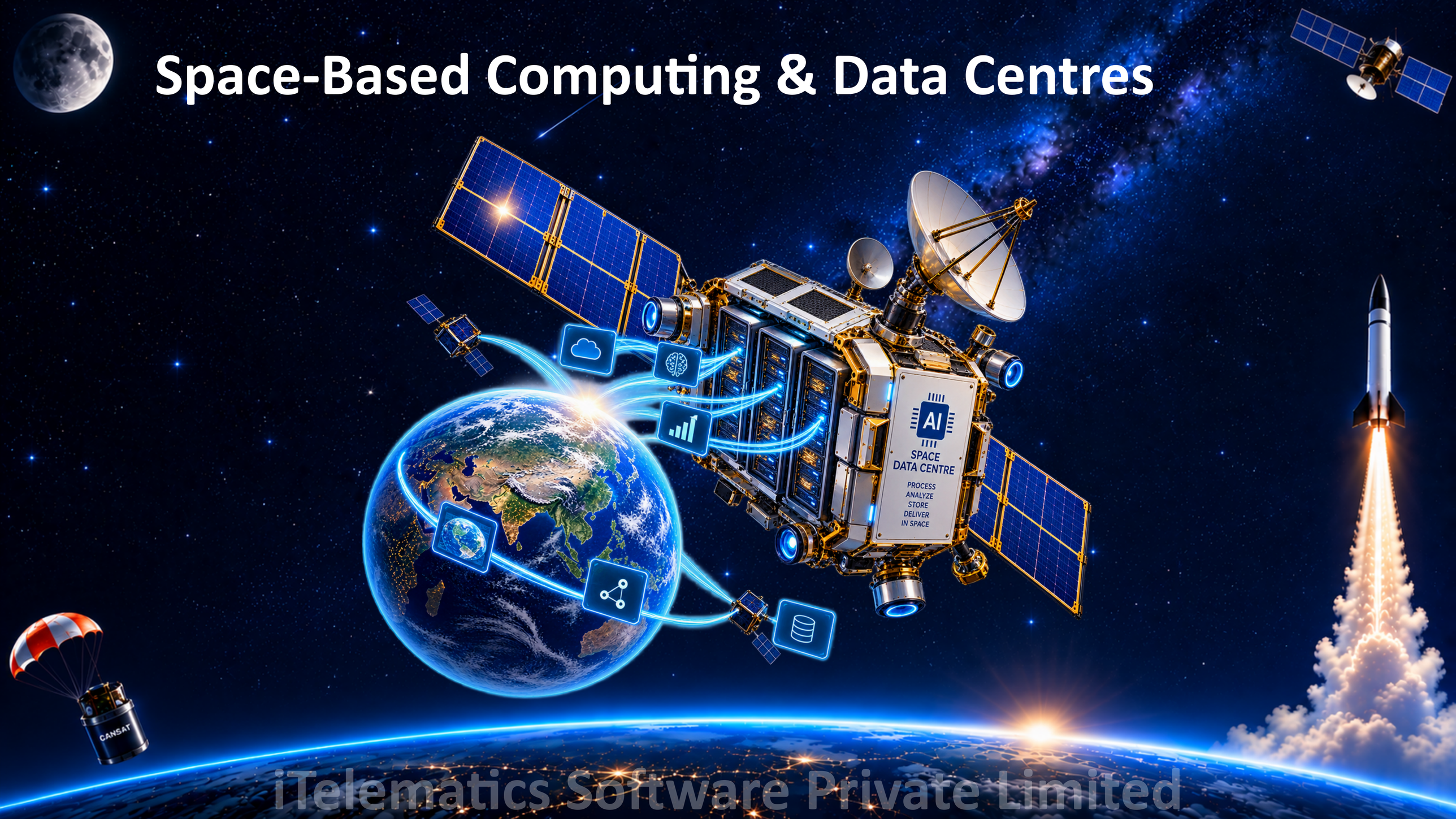
Earth-observation and other large datasets in orbit

instead of transmitting all raw data back to Earth;

ESA is already considering in-space computing/data infrastructure

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Space-Based Computing & Data Centres



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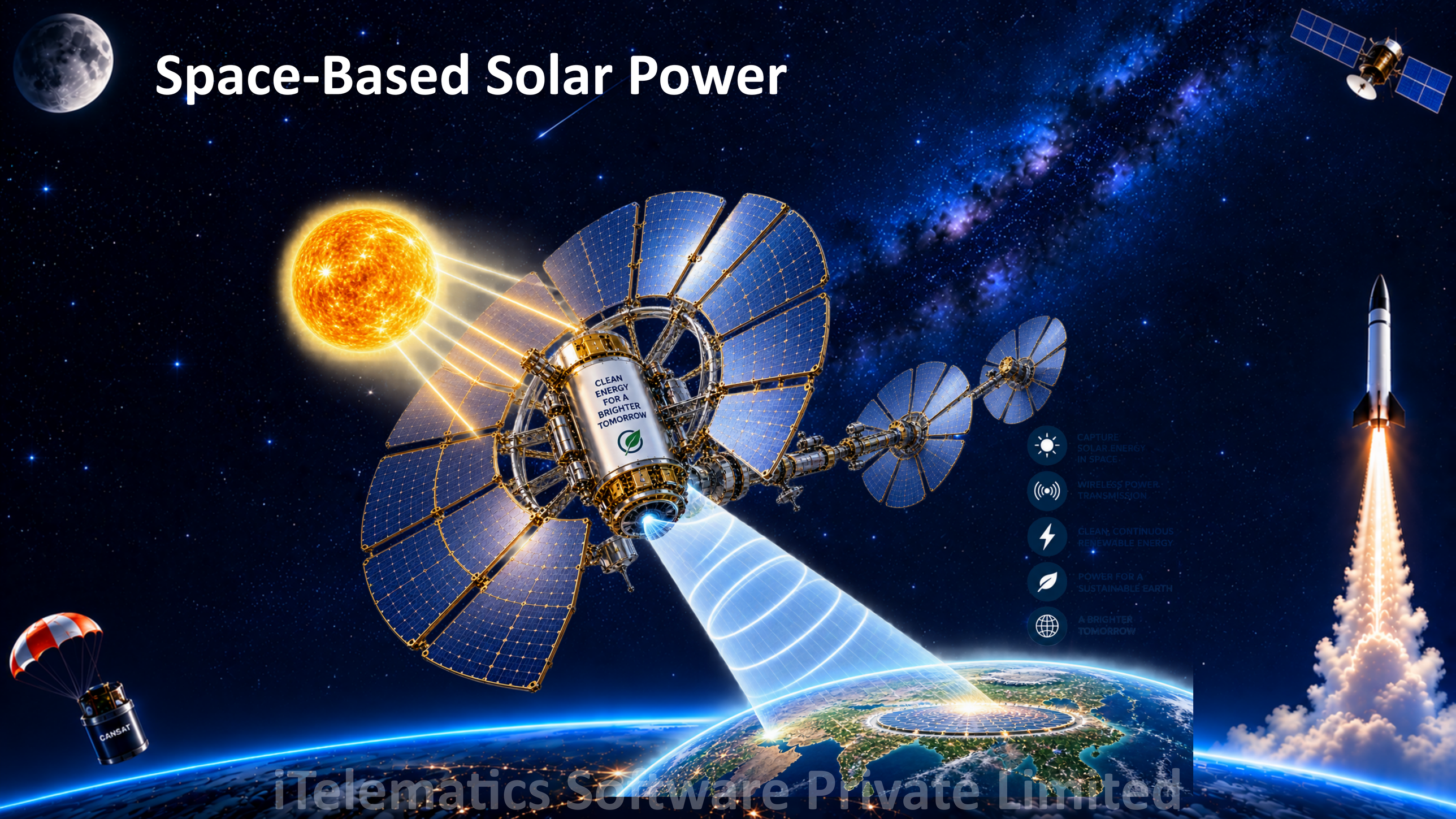
Space-Based Solar Power

Very large orbital solar-power systems collecting continuous sunlight and potentially transmitting energy to Earth or other spacecraft.

ESA explicitly identifies solar-power stations among future large in-space infrastructure.

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Space-Based Solar Power



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AI Earth Digital Twin & Climate Intelligence

Near-real-time **monitoring** and **prediction** of agriculture, oceans, forests, disasters, infrastructure, water and climate using constellations + AI.

EO is already expected to create substantial economic and environmental value.

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AI Earth Digital Twin & Climate Intelligence



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Space Internet + Direct-to-Device + Satellite IoT

Global connectivity directly linking phones,

vehicles,

aircraft,

ships,

drones and

billions of remote IoT sensors

through satellite networks.

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Space Internet + Direct-to-Device + Satellite IoT



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Space Debris Removal & Orbital Circular Economy

Autonomous debris capture,

recycling old spacecraft,

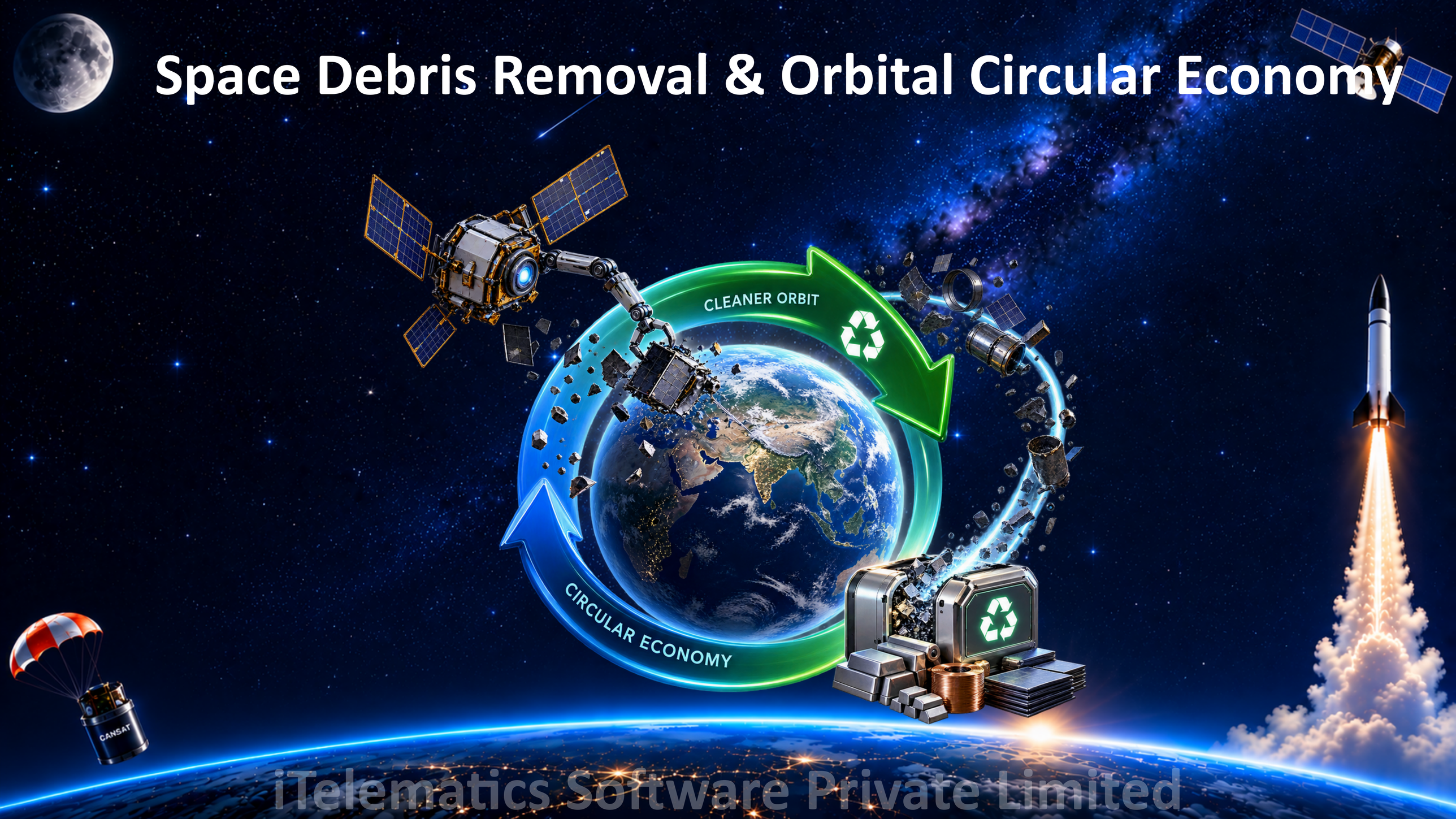
recovering materials and

manufacturing new components in orbit.

ESA is targeting a broader circular economy in space by 2040.

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Space Debris Removal & Orbital Circular Economy



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Lunar Surface Technology



Lunar power systems, water/oxygen extraction,

landing pads, roads, robotic construction

and eventually permanent operational infrastructure.

https://www.nasa.gov/lunar-surface-technology/

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Thank You

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