

An aerial photograph of a modern, dark grey building with a facade of horizontal metallic slats. The building features three prominent red, pill-shaped architectural elements: two large windows and a smaller entrance. Each of these red elements has the white letters 'OVS' on it. A large, white, stylized 'OVS' logo is superimposed in the center of the image. The building is situated in a landscape with green grass, a paved parking lot, and distant mountains under a clear sky.

OVS

The 2023 Humans to Mars Summit

May 16-18, 2023
The National Academy of Sciences,
Washington D.C.

EN
9100

ISO
9001



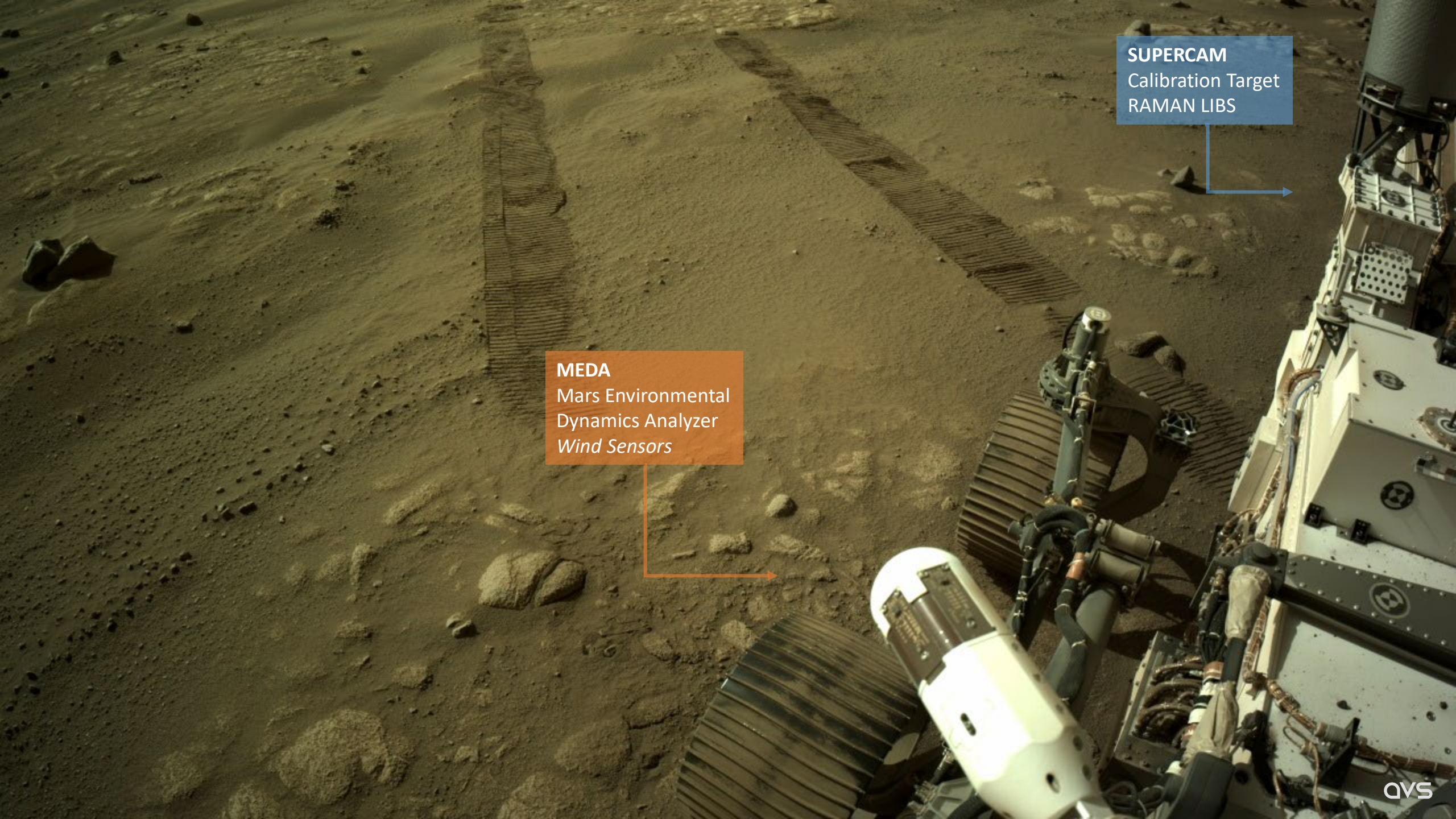
**ADVANCED ROBOTICS · ULTRA HIGH VACUUM · MICRO-MECHANISMS · CRYOGENICS · OPTOMECHANICAL SYSTEMS ·
HIGH MAGNETIC FIELDS · HIGH PRECISION SYSTEMS · RADIATION ENVIRONMENTS · CRITICAL SYSTEMS ·**

ACCELERATORS

FUSION

SPACE

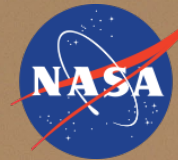
ASTRONOMY



SUPERCAM
Calibration Target
RAMAN LIBS

MEDA
Mars Environmental
Dynamics Analyzer
Wind Sensors

MARS



Sample Transfer Arm
End-effector & Remote
Compliance Mechanism

QVS

QVS

Dust Protection
Perception Unit (STA-SRL)

MEDA WS2
HDRM &
deployment mechanism

QVS

SUPERCAM
Calibration
target

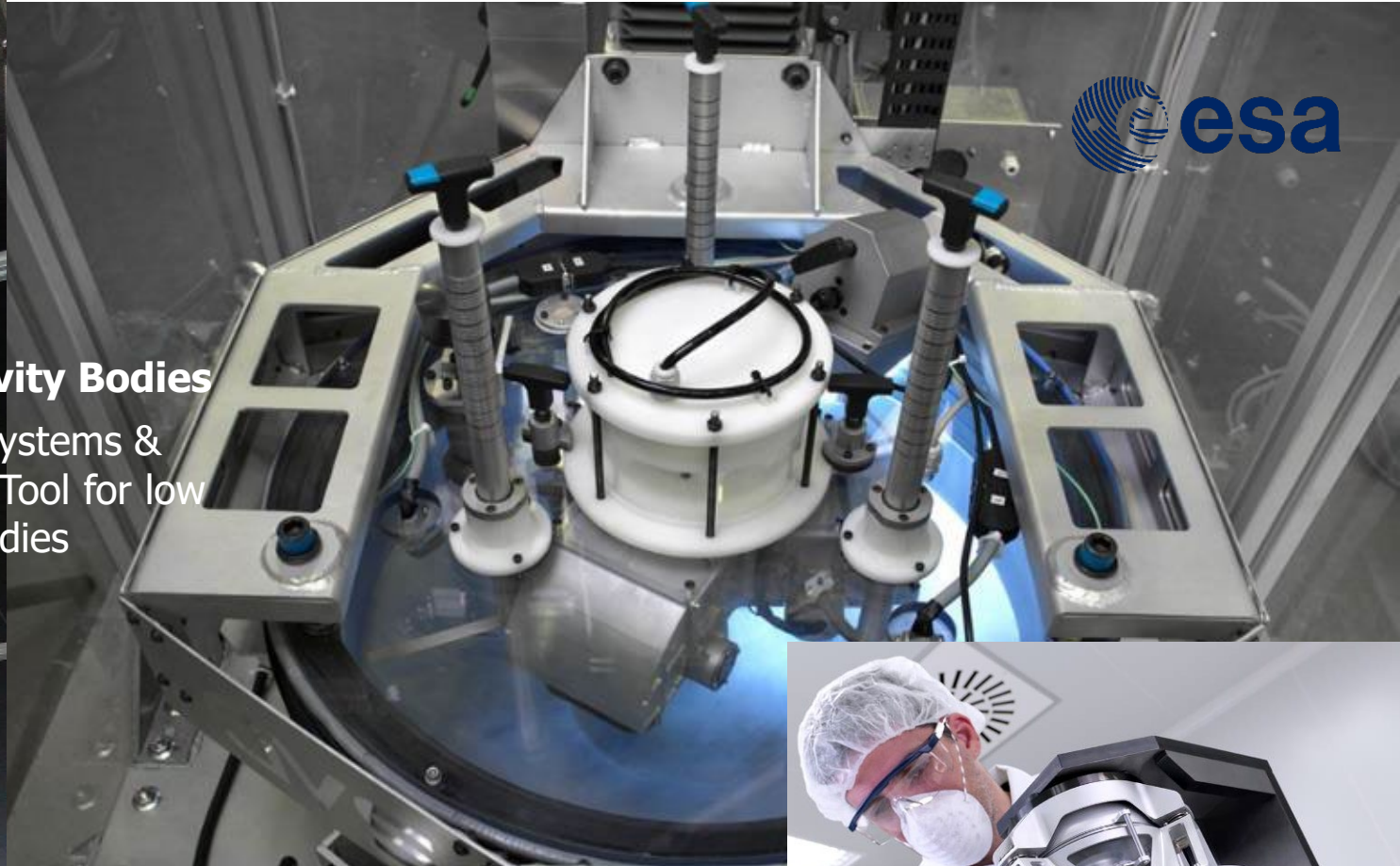
QVS

QVS

DEEP SPACE



Low Gravity Bodies Landing Systems & Sampling Tool for low gravity bodies



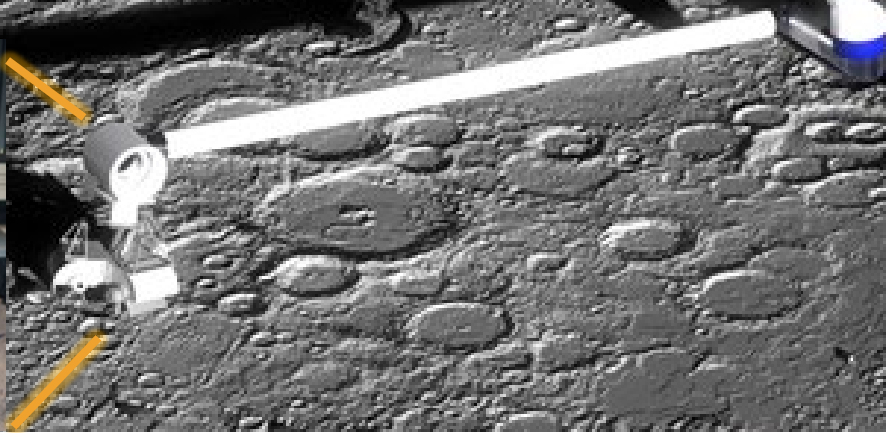
QVS

MOON



ISRU – Oxygen Extraction from Lunar Regolith

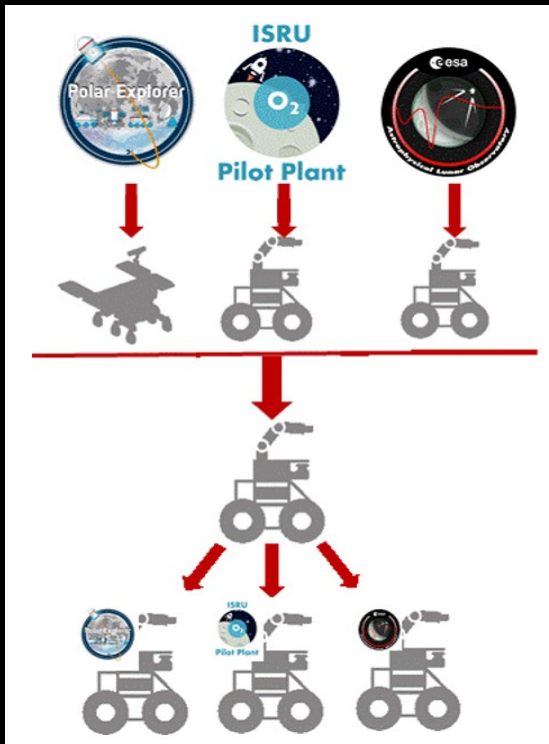
FFC molten-salt electrolysis process produces O₂ gas & powdered metals



ROBOTICS – European Moon Rover System

Lunar Mobility system common development for future European Moon missions. Current missions include:

- Polar Science Exploration (PE)
- Excavation Rover for ISRU reactor (ISRU)
- Astrophysics Lunar Observatory (ALO)

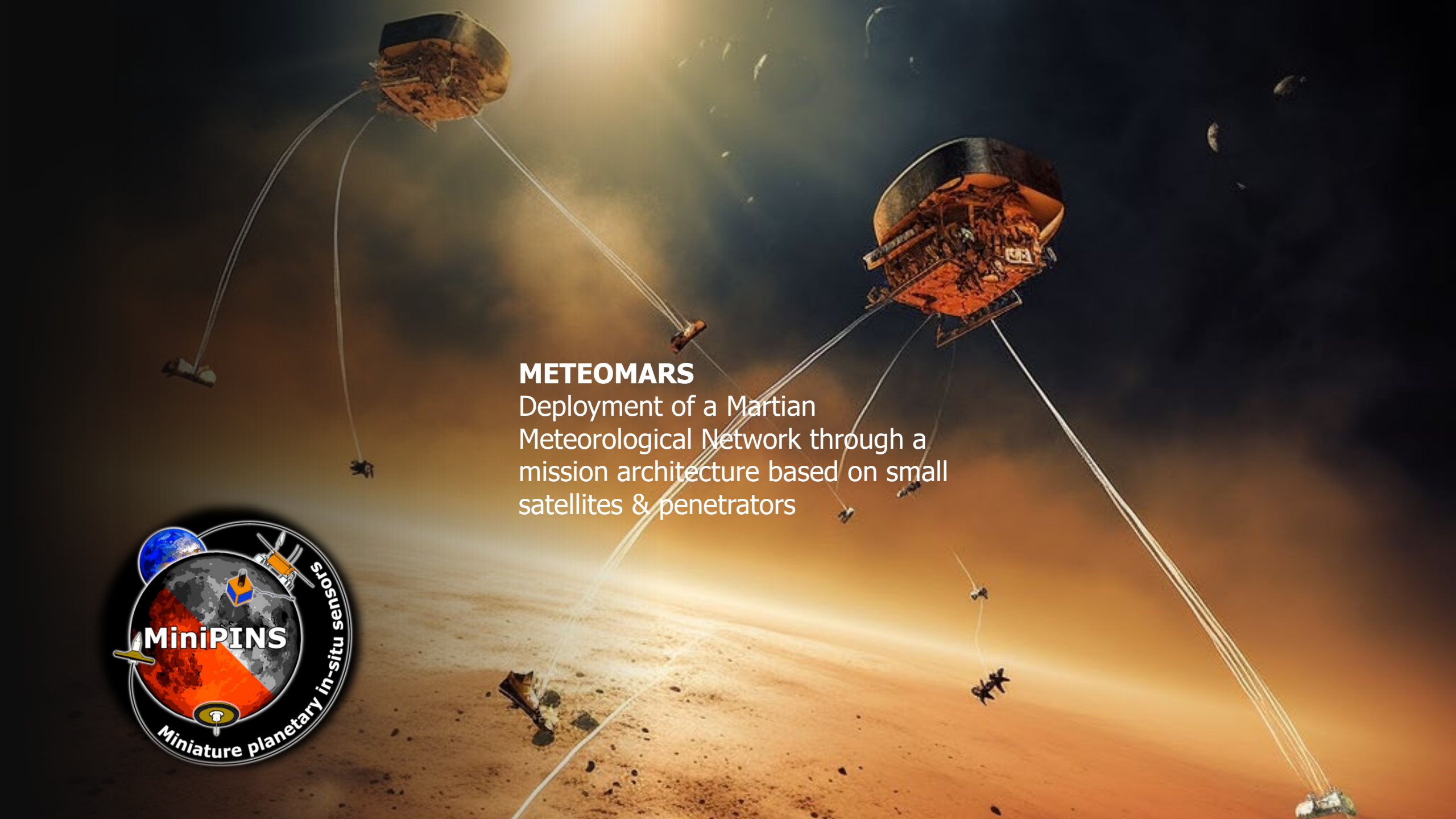


EARTH



LUR-1

Earth Observation & IOD from LEO to VLEO
High Performance SmallSat Platforms for
Beyond-LEO



METEOMARS

Deployment of a Martian
Meteorological Network through a
mission architecture based on small
satellites & penetrators





BE WATERURU

MY FRIEND

URU

SUSTAINABLE
PROPULSION
SOLUTIONS

