



Earth Observation from Space

LUXEOSys is a dual-use (civil and military) Earth observation system operated by Luxembourg Defence.

From its low Earth orbit, the satellite captures very high-resolution images for the benefit of national institutions and Luxembourg's partners.

These images will help strengthen situational awareness and operational monitoring.

A first in Luxembourg!

- Low Earth Orbit at ~450 km
- Sun-synchronous
- 15 revolutions per day
- Up to 100 high-res images per day
- Panchromatic & multispectral
- 10x10 km coverage per image
- National and international beneficiaries

Our Satellite

- Built by OHB Italia
- Hexagonal structure
- Initial weight ~800 kg
- Diameter of 1.84 m
- Expected lifespan of 7+3 years
- Very high-resolution camera
- Decentralized ground control stations
- X-Band and S-Band antennas