What do we do?

We provide European industry with state-of-the-art laboratory infrastructure for:

- Optical and quantum communication tests and in-orbit performance validation and commissioning of optical communication payloads.
- LIDAR atmospheric test campaigns in preparation and support of Earth observation missions.
- Evaluation of novel detector and laser technologies prior to industrialisation.
- Independent assessment of industrial developments in support to ESA’s projects.
- Experimental support of root-cause-analysis for system or component level malfunctions.
- Hands-on training of staff, stagaires, young graduates and interns.

What services do we offer?

- Optical communication experiments - Optical Ground Station (OGS) on Tenerife
- ISO17025 accredited Opto-Electronics laboratory
  - Laser induced contamination mitigation
  - Laser induced damage testing
  - Laser diode characterisation
  - CCD & CMOS detector validation
  - Tailored laser based measurements
- Mobile LIDAR facility

and more ...
Optoelectronics technology is included in almost every future satellite. We are preparing for this future.

Optical and Quantum Communication Optical Ground Station on Tenerife

The OGS performs commissioning and regular testing of optical terminals on board orbiting ESA spacecraft and participates in communication experiments with satellite from international partners.

ISO17025 accredited Opto-Electronics laboratory

Laser induced damage testing
Calibration of laser fluence prior to destructive mirror analysis

Laser induced contamination mitigation
Laser beam alignment prior to single material contamination testing

Mobile LIDAR

The mobile LIDAR validates in-orbit data with ground based measurements campaign.