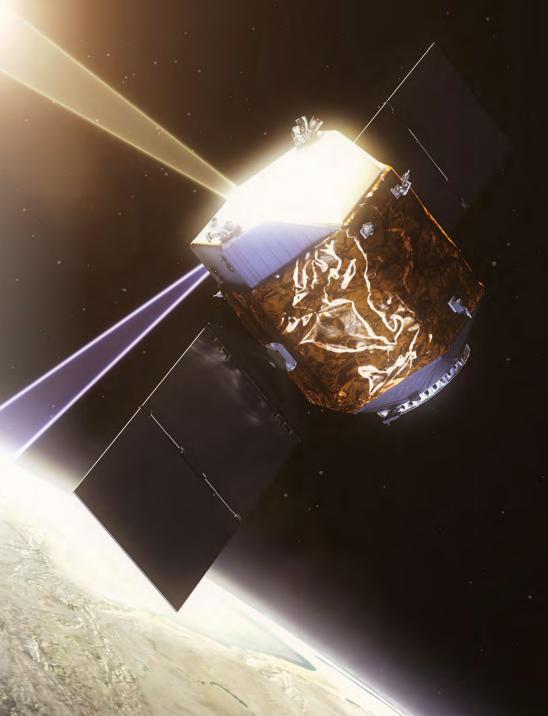


CEOI Instrument Portfolio

- CEOI has many instrumentation payloads in preparation:
 - Optical imaging complete instruments
 - Thermal infrared imaging detectors and deployable optics
 - MWIR spectro-radiometry
 - Spectroscopy for air quality and GHG measurements
 - Passive and active microwave oceanography, meteorology soil moisture, cryosphere
 - Lidar instrumentation for vegetation monitoring
 - Quantum and cold atom technologies
- How do we get these technologies onto missions in a timely manner, and avoid another valley of death?





Routes to Space?

- CEOI budget has increased, but not yet to a level where missions can be funded
- ESA Earth Explorers, Scouts, Earthwatch.
 - CEOI and UKSA have done well in these programmes, but opportunities are highly competitive, and it can be a long and sometimes arduous road. Inevitably only a small number of missions can be accessed.
- National missions?
 - Possibly! We have a national launch programme, but again, only a small number of missions can be supported.
- Bilateral international missions?
 - Opportunities exist, but they are few and constrained by budgets and politics.
- Commercial missions?
 - Yes, but requires a plausible market for information services, a bombproof business plan, and access to private investment, (and nerves of steel)!

Exploring Ideas

- This session presents a series of short talks (we will police the time strictly!) from:
 - Space Agencies,
 - Mission builders case studies
 - Launch providers
 - The MoD
 - ARIA
 - Space Economist
- We have a slot after the talks for discussion and Q&A with speakers which we hope will continue into the evening and into the future, so we will leave questions until the end
- If there is support, CEOI will organise a dedicated meeting in this area.



