

Centre for EO Instrumentation

Earth Observation Technology Showcase

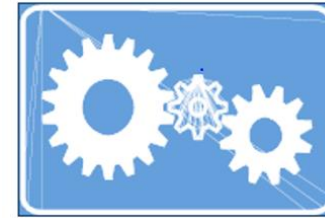
23rd & 24th June 2021

Workshop Sessions



Wednesday 23rd June 21

- 1: Welcome & Introductions
- 2: Cold Atom, Radar and Passive Microwave
- 3: Optical Technologies



Thursday 24th June 21

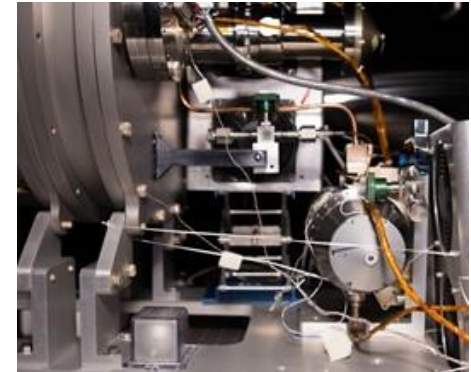
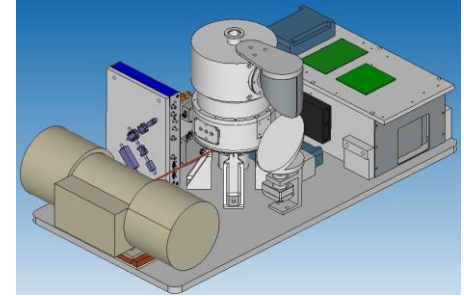
- 6: Infra-red Technologies
- 7: Ad hoc presentations



CEOI: 14 Years of Technology Development



- CEOI is a UK Space Agency initiative to strengthen UK EO technology capability, with enhanced breadth and depth
 - Funds innovative technologies for global EO mission opportunities
 - Supports developments for commercial exploitation opportunities
 - Create new UK jobs and economic growth through leverage of investment in EO
 - Parallel industry investment, total approx £2-3M pa
- Partnership led by Airbus with QinetiQ, STFC/RAL and University of Leicester



CEOI Team



- CEOI Co-Directors:
 - Mick Johnson
 - Chris Brownsword
- CEOI Team
 - Jolyon Reburn (EO Science/Technology)
 - Kevin Smith (EO Science/Technology; Website)
 - Rob Scott (ETCW, EO Technology)
 - Josh Vande Hey (EO Science, KE Programme, Conference)
 - Charlotte Moretti (Contracts, Website, Co-ordinator)

NATIONAL EO WEEK 2021

6th-10th September 2021

- On-line virtual conference, single registration, multiple sessions
- Covers EO research, technology, products and services
- Plenary sessions and keynote speakers
- Individual RSPSoc, NCEO and CEOI sessions
- Annual National EO Conference postponed to 2022

CEOI Technology Showcase



- This webinar will showcase the majority of recently funded EO technology projects.
- All of these are UKSA Grant funded project which means the grant recipients contribute to the total project funding under State Aid Rules
- Most projects involve collaborative teams drawn from academic, government and industrial organisations
- This showcase will cover projects from the following CEOI calls:

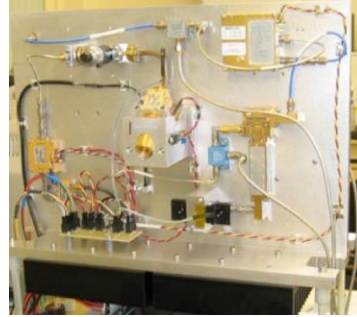
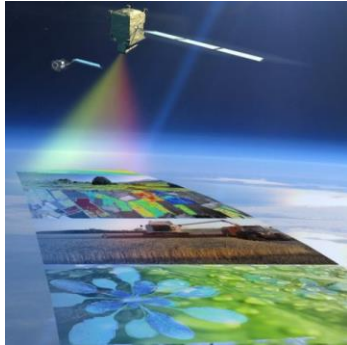
Call	Projects Funded
10 th EO Call	2 Flagships, 7 Fast Track, 9 Pathfinders
11 th EO Call	7 Flagships
12 th EO Call	1 Flagship, 7 Fast Track, 2 Pathfinder.
13 th EO Call	2 Flagship, 1 Fast Track

- Presentations will be invited from complete and active projects, and will describe the project's objectives, the technology development undertaken and main achievements.

Current and Recent CEOI Projects

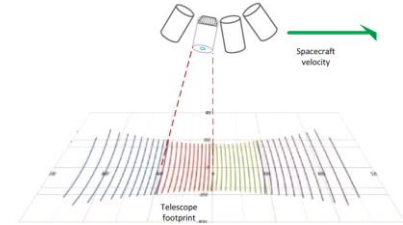


CMOS TDI Imaging Camera
Teledyne e2v Ltd



GRaCE: G-band Radar for Cloud Evaluation
STFC RALSpace

OVERPaSS: On-board VidEo Rapid ProceSSing
Earth-I Ltd



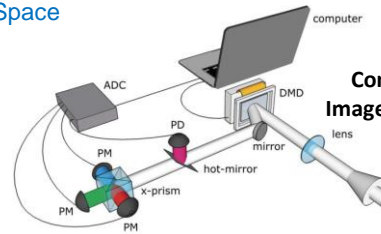
Multi Angle Polarisation Instrument
TAS UK Ltd



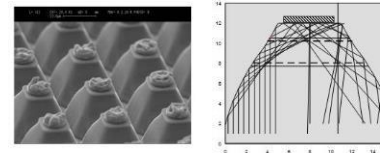
Black body IR Calibration Source
STFC RALSpace



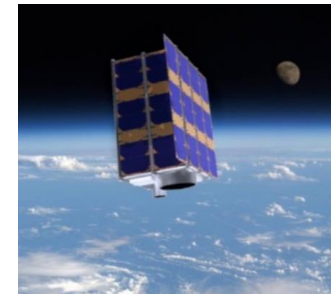
Fast Slew Gimbaled Optics for Real Time EO
Surrey Space Centre



Compact Multispectral Imager for Nanosatellites
University of Strathclyde



Characterisation of MCT APD arrays
Leonardo MW Ltd



NIMCAM Methane Monitoring
Un Edinburgh

Meeting Etiquette



- Can all attendees of the showcase please keep your audio muted and video off so that we can make the most of the available bandwidth.
- Please use the 'Q&A' facility via at the base of the window to post questions.
- The Chair will read out selected questions during the Q&A time at the end of each presentation.
- A record of all questions will be kept and those not addressed at the showcase will be answered after the event.
- We aim to make all presentations available after the event on the CEOI website, unless presenters explicitly ask us not to publish these.
- The sessions will be recorded, but only to assist CEOI in generating a report on the event; These recordings will not be made available.