

# UK Space Agency Update

CEOS WGISS-45 APRIL 2018

INPE BRAZIL



# The UK Space Agency

The UK Space Agency (UKSA) is responsible for all strategic decisions on the UK civil space programme and providing a clear, single voice for UK space ambitions.

Responsible for:

- leading the UK civil space policy and increasing the UK contribution to European initiatives
- building a strong national space capability, including scientific and industrial centres of excellence and investment in UK's EO collaborative ground segment.
- coordinating strategic investment across industry and academia
- Inspire and train a growing, skilled UK workforce of space technologists and scientists
- National and international space projects in co-operation with industry and academia
- regulating the UK civil space activities and ensuring we meet international treaty obligations
- Coordinating UK space sector engagement and alignment with international fora such as CEOS and GEO

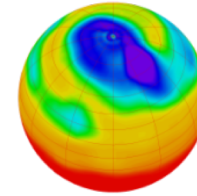
# EO Data Access and Exploitation



- The UK has a vision to be the first choice access point for global users and providers of satellite-derived products, delivering growth over the long term by maximising the exploitation of EO data and services by public, academic, and private sector users, through a reliable, open, secure and sustainable capability.
- UKSA initiated a national mirror site, joint funded by UKSA and the Satellite Applications Catapult.
- The Sentinel Data Access Service (**SEDAS**) portal, part of the UK Collaborative Ground Segment, is fully operational and has to date ingested over 2 Petabytes of data and been accessed by over 4600 users.
- STFC and the Satellite Applications Catapult act as agents on behalf of UKSA to distribute EO data to the UK academic, government and commercial user base.
- UKSA runs the **Space for Smarter Government Programme (SSGP)**- which drives the uptake and use of space across the UK public sector in order to stimulate growth through pipeline projects and demonstrators underpinned by EO data.

# UK ACTIVITIES – DATA PRESERVATION AND STEWARDSHIP

- Centre for Environmental Data Analysis
- NEODAAS
  - Dundee Satellite Receiving Station
  - Plymouth Marine Laboratory
- Met Office



**Centre for Environmental  
Data Analysis**

SCIENCE AND TECHNOLOGY FACILITIES COUNCIL  
NATURAL ENVIRONMENT RESEARCH COUNCIL



**Dundee Satellite  
Receiving Station**

**PML**

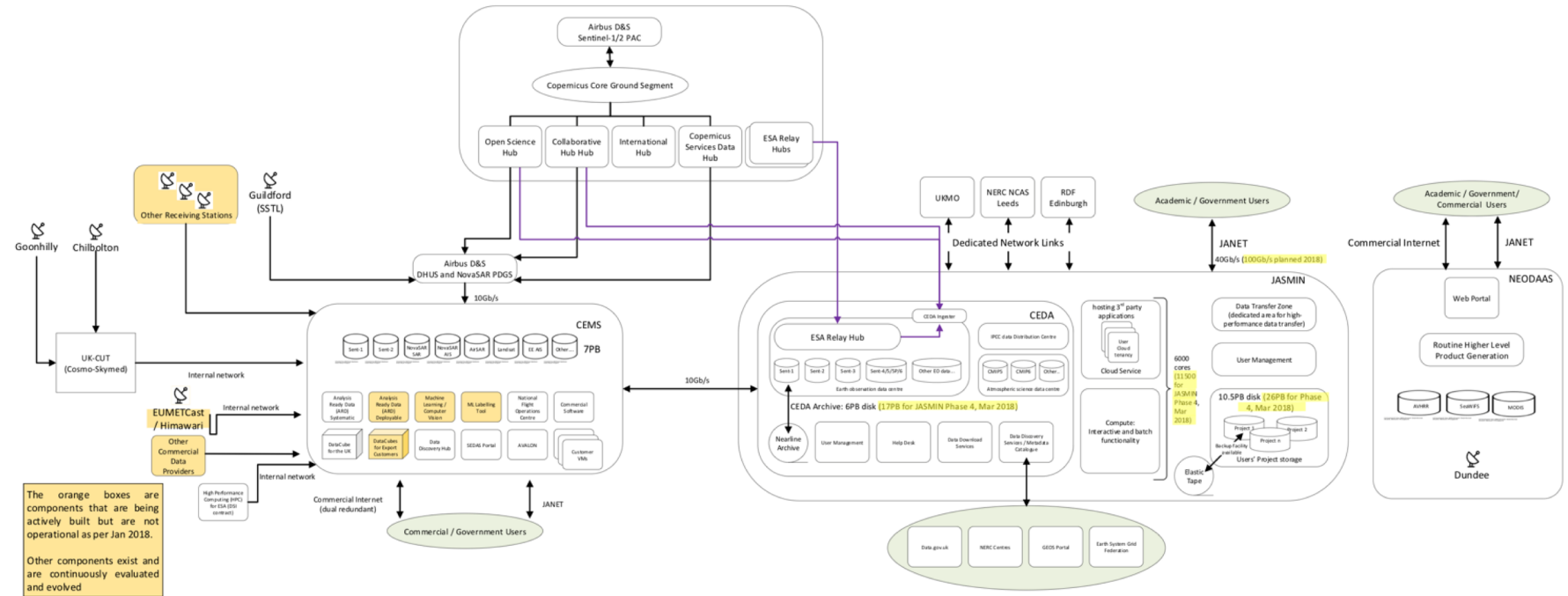
Plymouth Marine  
Laboratory



**Met Office**

# UK ACTIVITIES – DATA ACCESS, DATA FORMATS AND INTEROPERABILITY

- CCI Open Data Portal recommendations
- ESGF
- Data.gov → FEDEO
- CF Standard Names
- OGC
- NextGEOSS



# Quality Indicators in Discovery Metadata and Uncertainty

- QA4ECV – National Physical Laboratory
- QA4EO – National Physical Laboratory
- Projects dealing with Uncertainty
  - EUSTACE H2020 project – Met Office, CEDA, University of Reading
  - FIDUCEO - University of Reading , NPL, CEDA, Met Office
  - BACI – CEDA, UCL, Rezatech
  - ESA CCI – Met Office, RAL Space



# Standardization and Best Practices

- CODATA
- RDA
- LTDP
- Data Publication and Data Science Journal
- CCSDS



The Consultative Committee for Space Data Systems

# FDA Platforms and Elements Landscape

- Platforms

- JASMIN – CEDA
- CEMS - Satellite Applications Catapult
- Data Analysis Service - NEODASS
- JADE - Met Office
- Hartree - STFC
- Agrimetrics Big Data Platform - University of Reading, Rothamsted Research



- Data Cubes

- Drought and Flood Mitigation Service - UK RHEA group
- Data cube for Wales –Satellite Applications Catapult
- PRISE (Data cube for Ghana, Zambia and Kenya) - IPP projects involving Assimila, KCI, CABI
- EarthServer – Plymouth Marine Laboratory

- Analysis Ready Data

- Analysis Ready Data • Landsat/Sentinel - Satellite Applications Catapult -> Sentinel 2 , soon available on Sedas the UK dataset
- Provisioning and generation of ARD's via JASMIN - CEDA



# PV2018 Conference



## Adding Value and Preserving Data

### Conference Objectives

- Facilitate Science Archives and Data Service Providers sharing knowledge, experiences, and lessons learnt and best practices. In addition to fostering cooperation in the areas of Data Exploitation, Preservation and archived Data Stewardship.
- Address key emerging issues for science archives including but not limited to Open Data, Big Data, Managing Heterogeneity, Data Management Planning, Data Usability, Exploitation and Impact
- Provide a forum for organisations dealing with preservation of own data and value adding to present the status of their activities, plans and expectations. In PV2018 we particularly welcome input from a broad range of science archives and data providers. In addition to space data archives we would like to extend a special invitation to:
  - Large archive facilities from different domains to facilitate discussion of our common challenges
  - Specialist science archives and data service providers who are integrating data with space based observation to produce innovative data services.

Session 1: Data stewardship approaches to ensure long-term data and knowledge preservation and data standards.

Session 3 :Virtual Research Environments for science data exploitation and value adding

Session 2: Adding value to data and facilitation of data use

Session 4: Data preservation in practice: past (present) and future



PV2018

ENSURING THE LONG-TERM PRESERVATION AND VALUE ADDING TO SCIENTIFIC AND TECHNICAL DATA

15-17 May 2018, Harwell, UK



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Or visit the website:  
<http://www.ods.ac.uk/contact/pv2018/>

Questions?