



**Committee on Earth Observation Satellites (CEOS)
Land Surface Imaging Virtual Constellation (LSI-VC)
Satellite Earth Observation Commercial Engagement Workshop**

10:00 – 13:00, Friday April 5th, 2024

Hosted by RESTEC / JAXA

2nd Floor, Tokyu REIT Toranomom Bldg, 3-17-1 Toranomom, Minato-ku, Tokyo 105-0001, Japan

The Committee on Earth Observation Satellites (CEOS) exists to ensure the international coordination of civil space-based Earth observation programmes and promotes the exchange of data to optimise environmental and socioeconomic impact. Its membership comprises the world's major space agencies. The CEOS Land Surface Imaging Virtual Constellation (LSI-VC) seeks to maximise the value derived from land surface imaging assets – both radar and optical.

The LSI-VC developed the concept of CEOS Analysis Ready Data (CEOS-ARD), which has gained significant traction amongst CEOS agencies and the broader community. CEOS-ARD are satellite data that have been processed to a minimum set of requirements and organised into a form that allows immediate analysis with a minimum of additional user effort and interoperability both through time and with other datasets. You can find more information at ceos.org/ard.

With CEOS-ARD we seek to lower barriers related to the use of satellite EO and therefore increase the user base for this unique and valuable source of information. The principles apply equally to data from commercial providers, and compliance with the CEOS-ARD specifications has numerous benefits for data [producers](#), [distributors](#) and [users](#).

We are keen to engage the commercial sector in CEOS-ARD to foster mutual benefits and to promote interoperability. CEOS-ARD makes data more accessible and easier to use, therefore growing the user/customer base, and supporting the global development agenda priorities of CEOS (climate, sustainable development, disaster response).

The CEOS LSI-VC will be meeting in Tokyo on April 3-5, 2024, bringing together leaders from key land surface imaging programmes from the United States Geological Survey (USGS), European Space Agency (ESA), European Commission, NASA, JAXA, and many others to discuss CEOS-ARD and a variety of other topics related to land surface imaging from space.

As a component of this meeting, a commercial engagement workshop has been organised to provide an opportunity to connect space agency leaders and representatives of the burgeoning Japanese commercial EO sector, which has become a key player on the international stage. We seek to explore opportunities related to:

- Improving the interoperability of land surface imaging datasets from CEOS agencies and commercial providers.
- Application of the CEOS-ARD Framework to Japanese commercial EO datasets.
- Participation of the Japanese commercial EO sector in the development and refinement of the CEOS-ARD Specifications and the activities of the LSI-VC more generally.
- Improving the discoverability, accessibility and utilisation of EO data and CEOS-ARD – with a particular focus on the cloud providers operating in Japan.

- Uptake of commercial data and capabilities in support of the global development priorities of CEOS and its partners.
- The unique applications, users and issues in Japanese EO.

Agenda – Friday April 5

Location: Second Floor, Tokyu REIT Toranomom Bldg., 3-17-1 Toranomom, Minato-ku, Tokyo 105-0001

Session 1: Introduction to CEOS, LSI-VC and CEOS Analysis Ready Data (CEOS-ARD) <i>Moderator: Matt Steventon</i>		
10:00	1.1: Welcome from JAXA and the CEOS Land Surface Imaging Virtual Constellation (LSI-VC) Leads [Slides] <ul style="list-style-type: none"> • Meeting objectives 	Takeo Tadono (JAXA), Steve Labahn (USGS)
10:10	1.2: LSI-VC Overview and Key Activities [Slides]	Steve Labahn (USGS)
10:20	1.3: CEOS Analysis Ready Data (CEOS-ARD) Overview [Slides]	Ferran Gascon (ESA) / Matt Steventon (CEOS-ARD Secretariat)
10:30	1.4: CEOS-ARD for Synthetic Aperture Radar [Slides]	Ake Rosenqvist (JAXA/soloEO)
Session 2: Reports from Japanese commercial sector guests – activities related to land surface imaging, Analysis Ready Data, Big Data / Cloud, etc. <i>Moderator: Chris Barnes</i>		
10:40	2.1: AxelGlobe (AxelSpace) [Slides]	Lukasz Krawczyk and Shimpei Nakano (AxelGlobe Business Division)
10:55	2.2: New Space Intelligence [Slides]	Yumiko Nagai / Dorj Ichikawa (TBC)
11:10 – Break (10 mins)		
11:20	2.3: Synspective [Slides]	Gerald Baier
11:35	2.4: Tellus [Slides]	Hideto Yamazaki
Session 3: Discussion on collaboration opportunities, shared goals, joint projects, CEOS-ARD self-assessments, etc. <i>Moderator: Steve Labahn</i>		

12:05	3.1: CEOS Analytics Lab Interoperability Demonstrator [Slides]	David Borges (CEOS SEO, NASA)
12:15	3.2: Discussion <ul style="list-style-type: none"> ● CEOS-ARD self-assessments ● Interoperability considerations ● Data accessibility, discoverability, utilisation ● Joint projects, demonstrators, pilot activities 	All
12:55	3.3: Summary of findings and opportunities, etc.	Matt Steventon (CEOS-ARD Secretariat)
13:00 – Adjourn		