

**CEOS LSI-VC / SDCG / GEOGLAM Joint Meeting  
6 September 2018  
European Commission Joint Research Centre  
Ispra, Italy**

CEOS has long sought a more holistic approach to land surface imaging activities, including shepherding relevant observing requirements and associated CEOS strategies. This meeting seeks to build on the 2017 trial approach of an ‘expanded’ LSI-VC meeting, co-located with thematic teams/sessions related to forests (SDCG-14) and agriculture (CEOS *Ad-hoc* Working Group for GEOGLAM). The meeting seeks to streamline and optimise the value of the concept and will include both a joint day and parallel thematic sessions. The joint day will be chaired by LSI-VC, and will focus on topics of common interest to all groups that are consistent with the vision for a single group with overall responsibility for requirements and strategies relevant to LSI. These are:

**1. CEOS Analysis Ready Data for Land (CARD4L)**

This is core LSI-VC business but with significant effort across all groups. The session will review overall progress, the Product Family Specifications, and the status of ARD generation; consolidate input gathering from the forest (GFOI/SDCG) and agricultural communities (GEOGLAM/JECAM); take stock of related activities in each group; and ensure that resources are adequate.

**Expected outcomes:**

- 1.1. Communicate overall progress in the definition and generation of CARD4L; identify issues and obstacles, and the way forward to address those; and outline how the CARD4L standards are expected to evolve.
- 1.2. Summarise and consolidate inputs from the forest (GFOI/SDCG) and agriculture (GEOGLAM/JECAM) communities on CARD4L and its uptake based on ongoing information gathering processes in those communities (e.g., the CARD4L questionnaire).
- 1.3. Discuss candidate ‘new’ CARD4L Products based on new application areas identified (e.g., InSAR, biomass, other specific forestry/agricultural applications, etc.).
- 1.4. Identify potential inputs from the thematic communities to the CARD4L Engagement Strategy (e.g., for the cost-benefit analysis; promotion of CARD4L through workshops, conferences, journals; gathering feedback from users).
- 1.5. Consideration of the broader CEOS ARD Strategy.

**2. CARD4L Implementation: Thematic Pilots, Demonstrations, and Engagement**

Review examples where CARD4L has been used to date, and identify further engagement opportunities with the thematic communities and data providers.

**Expected outcomes:**

- 2.1. Review pilot CARD4L usage (e.g., CEOS Data Cube and Open Data Cube pilots, others) – with a particular focus on feedback from these communities and activities regarding CARD4L.
- 2.2. Hear outcomes and lessons learned from the GEOGLAM team on their 2018 data requirements review.

- 2.3. Consideration of further CARD4L implementation trials.
- 2.4. Review current status of engagement with both CEOS and non-CEOS data providers, and consider how they can and should be engaged in future (to support these initial pilots primarily, but also broadly).
  - 2.4.1. Report from the Planet Analysis Ready Data Interoperability workshop.
  - 2.4.2. Landsat – Sentinel-2 harmonisation progress (NASA HLS, ESA-USGS bilateral) and potential data supply for thematic communities.
  - 2.4.3. CEOS data interoperability with commercial data and strategies for integration.

### **3. CEOS Information Tools**

LSI-VC has a task to identify potential modifications to existing CEOS information tools that can be made to help improve their value for gap analyses. Engagement of user/thematic communities in this process is key to maximising impact.

#### **Expected outcomes:**

- 3.1. Presentation of current capabilities and already planned/underway developments (including the MIM Database API and instrument waveband improvements).
- 3.2. Collection of feedback on the utility of CEOS tools and information systems for specific applications and thematic areas.
- 3.3. Identification of improvements that will maximise the utility of these tools for gap analyses and other assessments.
- 3.4. Identification of points of contact and 'beta testers' for future developments.

### **4. Future Work Plans**

Take some time out at the end of the discussions to review next steps that will be taken within the three groups individually, as well as collectively (both already planned tasks and those emerging as a result of the meeting).

#### **Expected outcomes:**

- 4.1. Identification of individual group or joint actions to progress the definition and generation of CARD4L and its implementation.
- 4.2. Review of expected work for 2018-19.
- 4.3. Messages to take to the CEOS and GEO communities via the CEOS SIT Technical Workshop (taking place the week following this meeting) including the VC/WG Day, the CEOS Plenary, and the GEO Plenary.
- 4.4. Review of preliminary lessons learned from the 2018 joint meetings.

## Week at a Glance

Monday 3 <sup>rd</sup>	Tuesday 4 <sup>th</sup>	Wednesday 5 <sup>th</sup>		Thursday 6 <sup>th</sup>	Friday 7 <sup>th</sup>	
Travel	SDCG-14	LSI-VC-6	SDCG-14	Joint Session	LSI-VC-6	GEOGLAM
			GEOGLAM			
					Travel	

Agendas for the individual parallel meetings LSI-VC-6, SDCG-14, and GEOGLAM will be provided separately.