

# 12<sup>th</sup> Meeting of the CEOS Virtual Constellation for Land Surface Imaging (LSI-VC) 8-9 September 2022 ESA/ESRIN, Frascati, Italy

For the first time since late 2019, the LSI-VC will once again meet in person at ESA/ESRIN in Frascati, Italy. A lot has changed in the past few years, with great progress made on CEOS Analysis-Ready Data in particular. LSI-VC-12 will serve as an opportunity to assess progress on all areas of work and chart the next steps for a variety of topics. Specific objectives of the meeting are detailed below.

#### **Objectives**

- 1. Reaffirm the high-level vision and objectives of the LSI-VC.
- 2. Consider endorsement of the following new CEOS-ARD for Land (CARD4L) Product Family Specifications (PFS):
  - a. Nighttime Lights Surface Radiance
  - b. Ocean Radar Backscatter
- 3. Confirm the PFS update process, drivers, requirements, cadence, versioning, and linkage to the template PFS work of the CEOS-ARD Oversight Group.
- 4. Discuss establishment of a broader team for CEOS-ARD assessments, for the purpose of redundancy. If endorsed, consider potential candidates and action a follow up with WGCV.
- 5. Discuss the need for, and specifics of, a CEOS Interoperability Framework. Refer to the <u>discussion</u> <u>paper</u> for details. Issue a recommendation from the LSI-VC perspective to CEOS leads, as input for the discussion at the 2022 SIT Technical Workshop.
- 6. Consider the latest on the CEOS Agriculture, Forestry and Other Land Use (AFOLU) Roadmap and LSI-VC's eventual response. Decide on mechanisms that need to be in place to effectively respond to these forthcoming requirements.
  - a. Discuss and agree any inputs that should be raised during the AFOLU Roadmap meeting on September 12.
- 7. Hear an update on GEOGLAM and the Essential Agricultural Variables (EAVs) and discuss how LSI-VC and CEOS Agencies can provide support. Formulate respective action items.
- 8. Discuss CEOS engagement with standards organisations. Refer to the <u>discussion paper</u> for details. Review and agree SIT Technical Workshop side meeting objectives as well as LSI-VC inputs to that discussion.
- 9. Hear updates on LSI-VC agencies' missions and datasets related to land surface imaging and analysis-ready data.
- 10. Review the <u>proposal for CEOS-ARD impact report/website</u> and brainstorm case studies and inputs. Identify contributors and set a deadline for initial outputs.
- 11. Discuss upcoming meetings of relevance and confirm CEOS representation and strategy for each.



### **Meeting Papers**

- 4.1: Demonstrating the Value of CEOS-ARD Case Study Compendium
- <u>6.1: CEOS Interoperability Framework Discussion Paper</u>
- 9.1: SIT TW 2022 Side Meeting on CEOS Engagement with Standards Organisations

# Agenda

### **Thursday September 8**

Session 1: Welcome and Introductions				
09:00	Welcome and Introductions  Review of meeting objectives Roundtable of introductions	LSI-VC Leads		
09:15	Action Review	M. Steventon		
Session 2: CEOS-ARD for Land (CARD4L)				
09:30	New PFS: Nighttime Lights Surface Radiance  Overview  NASA Black Marble dataset and assessment  Decision: endorsement of the new PFS	B. Killough		
09:50	New PFS: Ocean Radar Backscatter  Overview  Motivation and applications  Decision: endorsement of the new PFS	C. Albinet		
10:10	<ul> <li>CARD4L Assessments</li> <li>Overview of progress and outlook</li> <li><u>Discussion:</u> Increasing redundancy for assessments</li> <li>Oecision: potential candidates and action a follow up with WGCV</li> </ul>	M. Thankappan		
10:30	<ul> <li>PFS update process</li> <li>Drivers, requirements, cadence, versioning, and linkage to the template PFS work of the CEOS-ARD Oversight Group.</li> <li>Decision: confirm PFS update criteria and process.</li> </ul>	A. Siqueira		
10:50 – Break (20 mins)				
Session 3: Agency Updates on Land Surface Imaging and Analysis-Ready Data				



11:10	JAXA	T. Tadono (virtual)		
11:25	AEM	A. Guzman		
11:40	USGS	C. Barnes		
11:55	ESA	F. Gascon		
12:10	EC	P. Strobl		
12:25	GA	A. Siqueira		
12:40	NASA	M. Carroll / B. Killough		
12:55	NOAA	K. Gallo		
13:10	Buffer time			
13:20 – Lunch (40 mins)				
14:10	ISRO	Haripriya S.		
14:25	GISTDA	S. Moukomla		
Session 4: CEOS-ARD Impact Report / Website				
14:40	Proposal: Demonstrating the Value of CEOS-ARD – Case Study Compendium  • Discussion paper • Mockup demonstration	M. Steventon		
14:55	<u>Discussion:</u> Brainstorm case studies and inputs for a CEOS-ARD impact report / website. Identify contributors and set a deadline for initial outputs.	All		
Session 5: CEOS-ARD Impact Report / Website				
15:10	<u>Discussion:</u> Commercial (New Space) Engagement Strategy	S. Labahn		
15:40 – Break (20 mins)				
16:00	<ul> <li>Additional discussion time</li> <li>Day 1 wrap-up</li> <li>Review of actions</li> </ul>	All		
17:00 – Adjourn				



# Friday September 9

Session 6: LSI-VC Vision and Objectives				
09:00	Review Existing LSI-VC Direction, Tasks, Achievements  Terms of Reference CEOS Work Plan CEOS-ARD Strategy v2.0	LSI-VC Leads & Sec		
09:15	<ul> <li>Forward LSI-VC Vision and Objectives</li> <li><u>Discussion and decision:</u> Overall vision</li> <li><u>Discussion and decision:</u> High-level objectives</li> <li><u>Discussion and decision:</u> LSI-VC main threads of work</li> <li><u>Decision:</u> Actions to update LSI-VC Terms of Reference and CEOS Work Plan tasks?</li> </ul>	LSI-VC Leads & Sec		
10:20 – Break (20 mins)				
Session 7: Interoperability Work Thread: CEOS Interoperability Framework				
10:40	Introduction: Proposed CEOS Land Surface Imaging Interoperability Framework  • Discussion Paper	P. Strobl		
10:55	<ul> <li>Questions from the discussion paper</li> <li>Decision: Issue a recommendation from the LSI-VC perspective to CEOS leads, as input for the discussion at SIT Technical Workshop.</li> </ul>	All		
Session 8: Requirements Work Thread: Forests, Biomass, AFOLU Roadmap				
12:00	Forests & Biomass Subgroup Updates	F.M. Seifert		
12:15	AFOLU Roadmap Update	O. Ochiai or S. Ward		
12:30	<ul> <li>Discussion</li> <li>Future LSI-VC response to the AFOLU Roadmap</li> <li>Discuss LSI-VC mechanisms that need to be in place to effectively respond to these forthcoming requirements</li> <li>Decision: agree any inputs that should be raised during the AFOLU Roadmap meeting on September 12</li> </ul>	All		



	GFOI Data Component: Terms of Reference and leadership			
13:20 – Lunch (40 mins)  Session 9: Requirements Work Thread: GEOGLAM and EAVs				
14:15	Essential Agricultural Variables (EAVs)	A. Whitcraft		
14:25	Discussion  CEOS and LSI-VC response to the EAVs and any other GEOGLAM observation requirements  Formulate respective action items	All		
15:00 – Break (10 mins)				
Session 10: CEOS Engagement with Standards Organisations				
15:10	<ul> <li>Discussion on CEOS Engagement with Standards Organisations</li> <li>Discussion paper</li> <li>Decision: Review and agree SIT Technical Workshop side meeting objectives as well as LSI-VC inputs to that discussion</li> </ul>	All		
Session 11: Closing				
16:00	Upcoming meetings of relevance  • Decision: confirm CEOS representation and objectives	All		
16:15	Review of Actions	LSI-VC Sec		
16:30	Wrap-up, Meeting Adjournment	LSI-VC Leads		
17:00 – Adjourn				