

**2022 CEOS Strategic Implementation Team Technical Workshop (SIT TW 2022)
13th - 15th September 2022**

Magellan Room, ESA/ESRIN, Frascati, Italy

DRAFT OBJECTIVES

During the 2022-2023 SIT Chair Term, the ESA SIT Chair Team will focus on global challenges with **strong UN mandates, GEO support, and high relevance for satellite Earth observations**. We will explore how CEOS can employ **new geometries with industry, new missions, and new data and analysis techniques** for maximum impact and continued relevance in a changing sector.

- **Climate & Carbon** UNFCCC, Paris Agreement and the Global Stocktake
- **Sustainable Development Goals 2030** Agenda
- **Disaster Risk Reduction** Sendai Framework
- **Resilient Cities & Human Settlements** New Urban Agenda 2016, SDG #11 [*Emerging GEO Priority*]



The SIT Technical Workshop 2022 agenda seeks to provide an opportunity for working-level task coordination and preparation for CEOS Plenary 2022 to be hosted by CEOS Chair, CNES. As outlined at SIT-37, success in supporting these challenges should translate into opportunities to engage new Earth observation users in both these areas and beyond.



Sessions are being planned on the following topics:

- **New Space:** CEOS engagement for the next decade, agency case studies, practical next steps.
- **Carbon and Climate:** Consideration of the approach CEOS may take to engage with the Global Stocktake Process under the Paris Agreement. Address opportunities around Agriculture, Forestry and Other Land Uses (AFOLU), greenhouse gases (GHG), GEO-TREES, and the CEOS Cooperation with the IMEO.
- **Sustainable Development Goals:** Build on discussion at SIT-37 on how GEO and CEOS can work together to increase the dialogue with Custodian Agencies. Review of progress on deliverables for 2022, and initial assessment of 2023 deliverables, activities, and resources.
- **Disasters:** Detailed discussion of pilots and demonstrators.
- **Oceans and Coasts:** Exploring coordination of the ongoing CEOS oceans and coasts-related activities including the Virtual Constellations, COVERAGE, CEOS-COAST, and the *UN Decade of Ocean Science for Sustainable Development*. Consider results of the, “CEOS Contributions to Ocean Activities” survey.
- **Biodiversity** following on discussion of a *Biodiversity Discussion Group* from SIT-37.
- **CEOS Plenary 2022:** Develop the theme of *Paths to Sustainability: from strategy to practical measures*, in particular items to be prepared for Plenary. Providing clarity on the support needed to enable Principals-level decision making at Plenary.

DRAFT Week at a Glance

Monday 12th	Tuesday 13th	Wednesday 14th	Thursday 15th
[AFOLU Workshop]	Side Meetings <i>CEOS SEC; Org. Review; Standards Engagement; ARD PFS; SDGs; COAST; GEO Post-2025; Others as requested</i>	SIT TW Day 1 <i>Sessions on: New Space; Carbon and Climate; SDGs; CEOS Working Groups & VCs</i>	SIT TW Day 2 <i>Sessions on: Disasters; Oceans and Coasts; Biodiversity; CEOS Chair themes; and, Actions to Plenary</i>

SIT Technical Workshop Papers

Paper	#	Guidance
<i>New Space & Future CEOS Session at SIT TW 2022 DRAFT Background Paper for CEOS Agencies</i>	<i>Session 2</i>	<i>Information</i>
CEOS Strategy to Support the Global Stocktake of the UNFCCC Paris Agreement	<i>3.1</i>	<i>Information</i>
<i>Monitoring Surface PM2.5: An International Constellation Approach to Enhancing the Role of Satellite Observations</i>	<i>6.1</i>	<i>DRAFT of paper to be submitted for Plenary endorsement</i>

Side Meetings

Monday 12th September

Time Duration	Meeting	POC / Location / Link
09:30 - 16:30 <i>TBA</i>	AFOLU Workshop	Magellan Room <i>Stephen Ward</i>

Tuesday 13th September

For additional side meeting requests, please contact the SIT Chair Team (Ivan.Petiteville@esa.int, george@symbioscomms.com) with the following information: Group and Point of Contact; Meeting Name / topic; Approximative number of Participants; Duration; Time of Day Preference (if any).

Time Duration	Meeting	POC / Location / Link
09:00 - 10:00 1 hour	CEOS SEC-297 <i>This is a closed meeting of the CEOS Secretariat. Attendance is by invitation only.</i>	Magellan Room Olivier Marsal, Matthew Steventon
10:00 - 11:00 1 hour	CEOS Organisational Review <i>The CEOS Chair Team will lead a discussion on CEOS evolution, resourcing, organisation limits, etc. This will involve discussion of the way forward to solve the immediate priority of having a capable individual in the CEO role for the next two years.</i>	Magellan Room Olivier Marsal, Matthew Steventon
11:00 - 12:00 1 hour	CEOS Engagement with Standards Organisations <i>This side meeting aims to bring together people from across all CEOS working teams to:</i> <ul style="list-style-type: none"> ● <i>Share their activities and experiences dealing with standards bodies, both on behalf of CEOS and in loose connection to CEOS, via their agency/country/other group;</i> ● <i>Discuss coordination needs and strategies, including the potential utility of a CEOS engagement strategy with standards organisations;</i> <ul style="list-style-type: none"> ○ <i>Consider raising a SIT Technical Workshop action to prepare such a strategy;</i> ● <i>Discuss a way forward for the immediate requirement for the CEOS-ARD OG to respond to ISO/OGC/IEEE regarding standardisation of the concepts in the CEOS-ARD Framework.</i> 	James Cook Room Peter Strobl, Steve Labahn, Andreia Siqueira, Ferran Gascon, Matthew Steventon
12:00 - 13:00 1 hour	CEOS-ARD PFS Template Working Session (TBC)	James Cook Room Matthew Steventon
14:00 - 17:00 3 hours	SDGs	Magellan Room Brian Killough
15:00 - 16:30 1.5 hours	CEOS COAST Product Demonstrations and Discussion of Future Ideas - 3-4 15 minute talks with Q&A: - 2-3 products - One suggesting future product ideas - 20-30 minute discussion to conclude	VC 02113-RoomD Merrie Neely

TBC <i>Duration TBA</i>	GEO Post-2025 Strategic Plan and CEOS Engagement (TBC)	James Cook Room <i>Marie-Josée Bourassa</i>
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Wednesday 14th September - SIT Technical Workshop Day 1 (Magellan room)

Note: ESA will organise morning and afternoon transfers by bus to and from ESRIN, servicing Park Hotel Villa Grazioli, Villa Cavalletti, Villa Abbamer, and Frascati centre. Details TBA.

Arrival and Welcome Coffee <i>Welcome coffee for in person participants, and meeting connection will be open for testing.</i>		08:30 - 09:00 <i>Agenda times ESRIN (CEST)</i>
Session 1: Welcome and Opening Session <i>Objectives: Brief reminder of SIT Chair priorities and SIT TW objectives. Framing of points relevant to SIT TW objectives from CEOS Plenary preparations and the CEOS 2022-2024 Work Plan.</i> Session Duration: 40 mins Session Start: 09:00 CEST		
1.1	Welcome and Opening Remarks <i>SIT Chair Team</i> <ul style="list-style-type: none"> ➤ SIT Chair Priorities ➤ Meeting Objectives ➤ <i>Tour de Table</i> introduction 	<i>20 mins</i>
1.2	CEOS Plenary 2022 Objectives <i>CEOS Chair Team</i> <ul style="list-style-type: none"> ➤ CEOS Plenary agenda objectives and outlines as TW framing 	<i>10 mins</i>
1.3	CEOS 2022-2024 Work Plan <i>Marie-Claire Greening/CEO</i> <ul style="list-style-type: none"> ➤ Items for Plenary and/or TW resolution 	<i>10 mins</i>
Session 2: New Space & Future CEOS <i>Objectives: Reflection on the new geometries in the satellite EO sector, including increasing proportion of commercial missions, and CEOS agency arrangements for commercial data buy and partnerships. Review of initial discussion at SIT-37, hearing agency experiences and examples and strategising how public programmes and CEOS must adapt in the decade ahead with this new context. Please refer to the background paper (rev June 2022 - TO BE DISTRIBUTED) for further context and objectives.</i> Session Duration: 3 hours Session Start: 09:40 CEST		
2.1	Scene Setting: Review of Discussion to Date <i>SIT Chair Team</i> <ul style="list-style-type: none"> ➤ Session objectives ➤ Main points from SIT-37 Session ➤ Possible directions from TW through 2023 	<i>15 mins</i>

<p>2.2</p>	<p>Further Case studies from CEOS Agencies <i>By SIT Chair invitation</i></p> <ul style="list-style-type: none"> ➤ USGS (TBA, 10 min) ➤ ESA (TBA, 10 min) ➤ GISTDA (TBA, 10 min) ➤ NASA (TBC, 10 min) 	<p>40 mins</p>
<p>Group Photo and Break</p>		<p>20 mins</p>
<p>2.3</p>	<p>Other Examples in Relation to New Space <i>Via Intervention</i></p> <ul style="list-style-type: none"> ➤ ‘Elevator Pitches’ on current or potential ‘new space’ engagement or issues from Agencies, CEOS groups. 5-10 minute slots by request ➤ Topic: How activities encourage or relate to interactions with New Space ➤ WGCV: Supporting smallsat data quality ➤ LSI-VC/WGISS: Data Standards ➤ Other interventions live 	<p>55 min</p>
<p>2.4</p>	<p>Discussion on CEOS Strategy for New Space</p> <ul style="list-style-type: none"> ➤ Issues raised and discussion ➤ Candidate measures and directions ➤ Findings and recommendations 	<p>50 mins</p>
<p>Lunch</p>		<p>1 hour from 13:00 CEST</p>

Session 3: Climate and Carbon

***Objectives:** Review of the multiplicity of activities across the CEOS structure in relation to our support to the UNFCCC, the Paris Climate Agreement and its Global Stocktake process. This includes opportunities around Agriculture, Forestry and Other Land Uses (AFOLU), greenhouse gases (GHG), and above ground biomass.*

Session Duration: 2 hours 45 mins
Session Start: 14:00 CEST

<p>3.1</p>	<p>Session Topics Part 1</p> <ul style="list-style-type: none"> ➤ CEOS Strategy for the GST Update (S Briggs, SIT Chair Team) ➤ WGClimate Update on SBSTA and COP, Recent Activities ➤ GHG Roadmap Update (GHG Task Team) ➤ AFOLU Roadmap Update (O Ochiai?, LSI-VC F&B) ➤ JRC Workshop Report (M Dowell) ➤ GCOS Implementation Plan Update (GCOS TBA) 	<p>1 hour 40 mins</p>
<p>Break</p>		<p>15 mins</p>

3.2	Session Part 2 <ul style="list-style-type: none"> ➤ IMEO Update and Technical Needs (Luis Gaunter, IMEO) ➤ Ocean Carbon Special Report (OCR-VC) ➤ WMO GHG Monitoring System (Lars Peter Riishojgaard, WMO) 	60 mins
3.3	<ul style="list-style-type: none"> ➤ Item on Adaptation (GEO Secretariat, Sara, Mark TBC) 	20 mins
<p>Session 4: Sustainable Development Goals</p> <p><i>Objectives: Review progress on the CEOS Work Plan deliverables related to the SDGs for 2022. Discuss plans for future deliverables in 2023 and beyond.</i></p> <p style="text-align: right;">Session Duration: 30 mins Session Start: 17:00 CEST</p>		
4.1	2022 Deliverables <i>CEOS SEO TBA</i> <ul style="list-style-type: none"> ➤ Status of deliverables ➤ Likely completion plans 	15 mins
4.2	2023 Deliverables <i>CEOS SEO TBA</i> <ul style="list-style-type: none"> ➤ Planning future deliverables ➤ Discussion 	15 mins
<p>Session 5: Biodiversity</p> <p><i>Objectives: Follow-up on most recent discussion at SIT-37. Consider possible next steps to bring to the CEOS Plenary.</i></p> <p style="text-align: right;">Session Duration: 30 mins Session Start: 17:30 CEST</p>		
5.1	Review of SIT-37 Outcomes <i>TBA</i> <ul style="list-style-type: none"> ➤ Status of Actions SIT-37-06 and SIT-37-07 (Biodiversity Discussion Group) 	10 mins
5.2	Discussion of Next Steps <i>TBA</i> <ul style="list-style-type: none"> ➤ Next Steps toward CEOS Plenary and 2023 ➤ CEOS and the UN Biodiversity Conference 5-17 December 	20 mins
Adjourn		18:00 CEST

Please join us for a SIT Technical Workshop social event Wednesday evening. [Details TBA.](#)

Thursday 15th September - SIT Technical Workshop Day 2 (Magellan room)

Note: ESA will organise morning and afternoon transfers by bus to and from ESRIN, servicing Park Hotel Villa Grazioli, Villa Cavalletti, Villa Abbamer, and Frascati centre. Details TBA.

Arrival and Welcome Coffee <i>Welcome coffee for in person participants, and meeting connection will be open for testing.</i>		08:30 - 09:00 <i>Agenda times ESRIN (CEST)</i>
Session 6: CEOS Working Groups and Virtual Constellations <i>Objectives: Hear by request updates from Working Groups and Virtual Constellations on activities not addressed elsewhere on the Workshop agenda AND that require preparation for Plenary or need to be raised within the SIT.</i> <p style="text-align: right;">Session Duration: 1 hour 30 mins Session Start: 09:00 CEST</p>		
6.1	Working Group and Virtual Constellation Plenary Items <ul style="list-style-type: none"> ➤ Focused on issues that require preparation for Plenary or issues that need to be addressed by SIT ➤ 10 minute slots by request to the SIT Chair Team (Ivan.Petiteville@esa.int, george@symbioscomms.com) <p>Monitoring Surface PM2.5: An International Constellation Approach to Enhancing the Role of Satellite Observations <i>Ben Veihelmann, AC-VC [10 mins]</i></p> <p>AC-VC Progress and Status <i>Ben Veihelmann, AC-VC [10 mins]</i></p> <p>LSI-VC Interoperability <i>TBA, AC-VC [10 mins]</i></p> <p>OST-VC TBA <i>Estelle Obligis, Annick Sylvestre-Baron, OST-VC [10 mins]</i></p>	<i>1 hour 30 mins</i>
Session 7: Disasters <i>Objectives: TBA</i> <p style="text-align: right;">Session Duration: 30 mins Session Start: 10:30 CEST</p>		
7.1	Disasters Session <i>Helene DeBoissezon, Laura Frulla, Working Group Disasters</i> <ul style="list-style-type: none"> ➤ Overview of pilot and demonstrator successes ➤ Challenges for sustainability and current approaches ➤ Current and prospective user and stakeholder communities 	<i>30 mins</i>
Break		<i>20 mins</i>
Session 8: Oceans and Coasts		

<p><i>Objectives: TBA</i></p> <p style="text-align: right;">Session Duration: 50 mins Session Start: 11:20 CEST</p>		
8.1	<p>CEOS Ocean Coordination Group</p> <ul style="list-style-type: none"> ➤ Progress to date and Plenary action response ➤ Towards a CEOS Ocean Strategy ➤ Discussion and Next Steps 	<i>20 mins</i>
8.2	<p>Ocean Observations and CEOS Contributions to the UN Oceans Decade</p> <ul style="list-style-type: none"> ➤ All CEOS Working Teams with related activities encouraged to request a 10 minute slots by contacting <i>the SIT Chair Team</i> (Ivan.Petiteville@esa.int, george@symbioscomms.com) ➤ Focused on issues that require preparation for Plenary or issues that need to be addressed by SIT 	<i>30 mins</i>
<p>Session 9: Towards Plenary</p> <p><i>Objectives: TBA</i></p> <p style="text-align: right;">Session Duration: 50 minutes Session Start: 12:10 CEST</p>		
9.1	<p>SEO Report <i>Brian Killough/SEO</i></p> <ul style="list-style-type: none"> ➤ SEO Activities ➤ GEO Week ➤ CEOS Communications 	<i>15 mins</i>
9.2	<p>CEOS Chair Priorities <i>CEOS Chair Team</i></p> <ul style="list-style-type: none"> ➤ Review of Themes and Progress to Date ➤ CEOS evolution, resourcing, organisation limits ➤ Plenary preparations and details 	<i>35 mins</i>
Lunch		<i>60 mins from 13:00</i>

<p>Session 9: Towards Plenary (continued)</p> <p><i>Objectives: TBA</i></p> <p style="text-align: right;">Session Duration: 3 hours Session Start: 14:00 CEST</p>		
9.3	<p>GEO Post-2025 Strategic Plan and CEOS Engagement (Title, Presenter TBC)</p>	<i>30 mins</i>

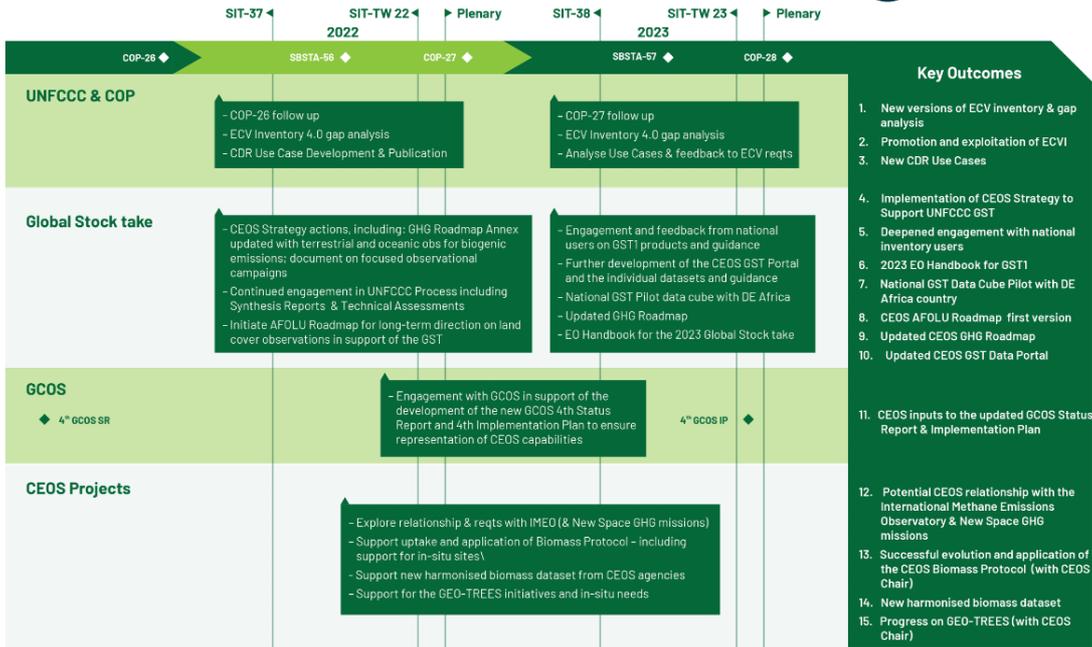
9.4	Incoming CEOS Chair Priorities <i>GISTDA CEOS Chair Team TBA</i>	<i>15 mins</i>
9.5	Any other business ➤ As arising	<i>30 mins</i>
Break		<i>15 mins</i>
9.6	Review of Session Outcomes ➤ Review of summary slides	<i>60 mins</i>
9.7	Review of Actions to CEOS Plenary	<i>15 mins</i>
9.8	Closing Remarks <i>SIT Chair Team</i>	<i>15 mins</i>
Adjourn		<i>17:00 CEST</i>

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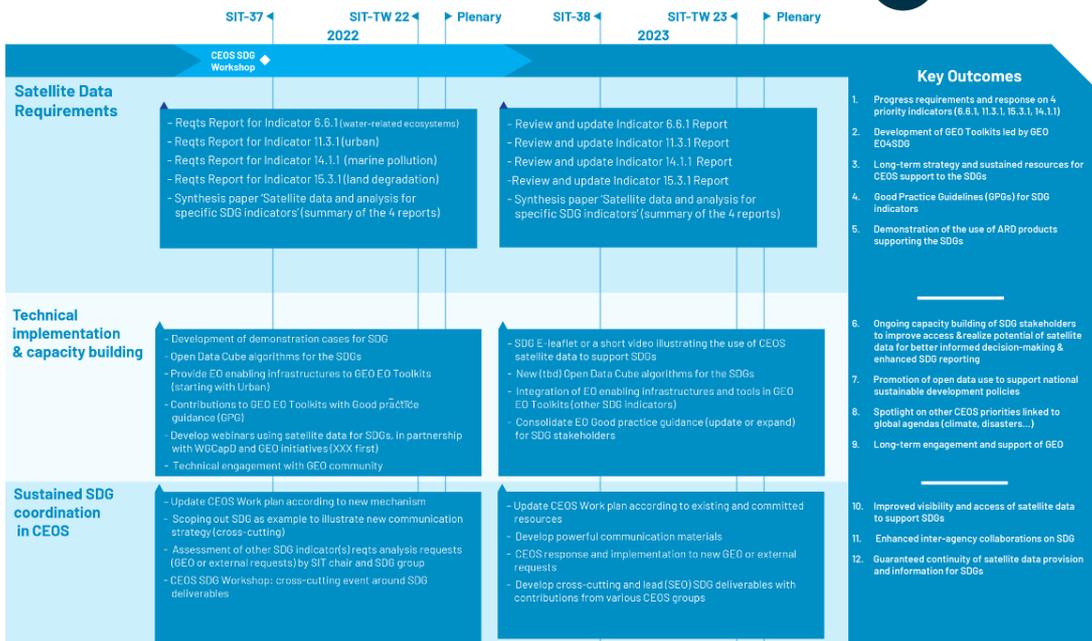
2022-2023 SIT Chair Two-Year Target Outcomes (Circa March 2022)



ESA CEOS SIT Chair 2022-2023 Support to Global Challenges Climate, Carbon & Convention



ESA CEOS SIT Chair 2022-2023 Support to Global Challenges SDGs



Disasters

**ESA CEOS SIT Chair 2022-2023
Support to Global Challenges
Disasters**



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