



Committee on Earth Observation Satellites

CEOS SIT Prospectus 2020-2021

SIT Vice-Chair Team

7 June 2019



Introduction

- ❑ CSIRO and GA will take on Chairmanship of the CEOS Strategic Implementation Team (SIT) at CEOS Plenary in October 2019 for a 2-year term
- ❑ SIT “..provides strategic guidance on the direction, progress, and status of implementation activities in relation to the established priorities, commitments, and partnerships of the CEOS organization”.
- ❑ ESA is anticipated to serve as SIT Vice-Chair during this term and to take on the Chair in late 2021 - hopefully
- ❑ The Incoming SIT Chair Team wishes to consult broadly across the organisation to set outcomes and milestones that are significant, reflect societal needs and CEOS agency priorities (and therefore resources).

- ❑ Evoking **the original vision for SIT – putting Principals to work** on significant challenges to be addressed by coordination and observing system harmonisation

- ❑ **Focused:** a few priorities – reflecting major thrusts across civil EO programmes and priority needs

- ❑ All meetings may not allow for reporting of all CEOS business
 - ❑ More debate and decision by Principals towards the outcomes
 - ❑ Offline opportunities for broad updates



2020-2021 CSIRO/GA Australian SIT Chair Priorities Timelines

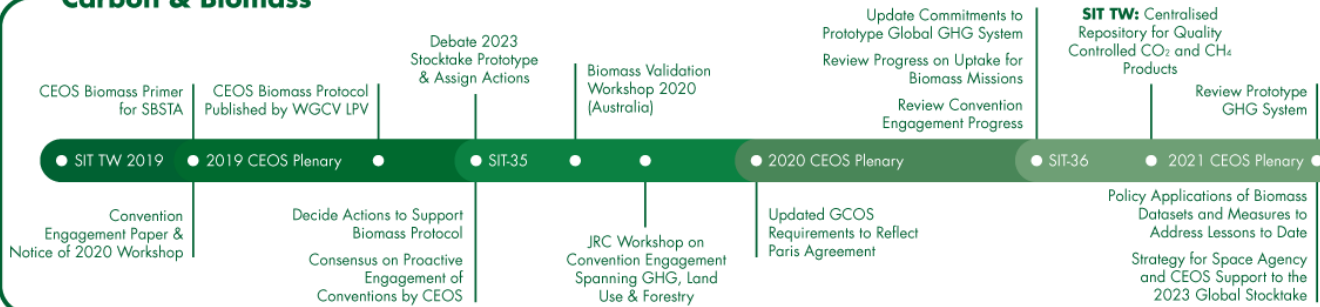
CEOS ARD



Key Outcomes

1. A comprehensive ARD strategy for CEOS.
2. An agreed CEOS position on multiple aspects of the interplay between industry and CEOS ARD.
3. Demonstrated real world benefits of CARD4L for both data providers and data users.
4. A variety of CARD4L products being actively produced by numerous CEOS missions.
5. Data hosts/aggregators hosting and promoting CEOS Analysis Ready Data on their platforms.
6. CEOS ARD Specifications used as the basis for community standards.
7. Additional CARD4L Specifications for new applications, greatly increasing the user base for and impact of CEOS Agency data.

Carbon & Biomass



Key Outcomes

1. Progress towards prototype system to inform 2023 Global Stocktake.
2. Centralised repository for hosting quality-controlled CO₂ and CH₄ products, with internal capability for product inter-comparison.
3. Updated GCOS Requirements.
4. Accelerated policy relevance of CEOS biomass datasets making best use of the GFOI framework.
5. Biomass datasets available and useable by GFOI countries. R&D activities actioned to address issues.
6. Stronger and more systematic engagement of UNFCCC and IPCC for CEOS. Recognition for role of EO data in Global Stocktake, national good practices, etc.

SDGs

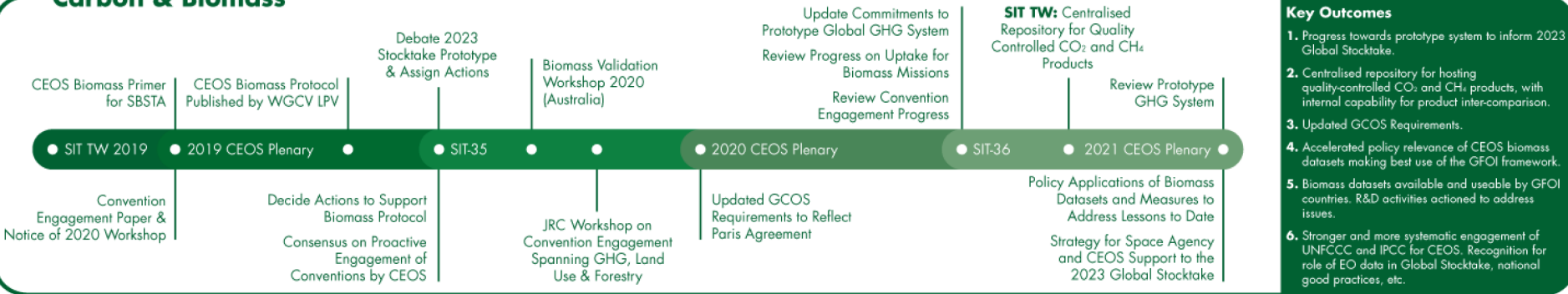


Key Outcomes

1. A clear and comprehensive statement of what CEOS will do to support the SDGs over the period 2020-2021 (SDG-AHT Work Plan).
2. Demonstration of CEOS Agencies' ability to support reporting on numerous SDG indicators.
3. A clear CEOS mechanism for coordinated provision of satellite data for SDG purposes.
4. Clarity on the future of high-level CEOS engagement on the SDGs (e.g., with UN, GEO, NSOs).
5. A long-term (post-2021) strategy for CEOS support to the SDGs.



Carbon & Biomass



- Biomass protocol, education & promotion, Workshop
- Convention engagement: JRC Workshop; CEOS White Paper; Updated GCOS reqts
- GHG Roadmap: Products repository; observing system commitments – prototype global system milestone
- SIT-35 key in setting directions
- Champions** required for each thread



- ❑ **Supporting the GHG Roadmap process** – escalating, elevating, and accelerating progress towards major milestones, including for 2023 Global Stocktake
- ❑ Reflecting \$4Bn+ investment (2018-2024) in Above-Ground Biomass missions and seeking to **accelerate the policy relevance of these new data**
- ❑ Encouraging **stronger and more systematic engagement by CEOS of convention frameworks** – building on IPCC outreach
- ❑ Some targets selected from GHG roadmap document:
 - ❑ Ambitious but achievable in the timeframe
 - ❑ **If these are not the right ones, help us identify the right targets**

- ❑ Broad consultation with stakeholders across CEOS structure – seeking support and engagement

- ❑ AC-VC and CEOS agency member comments invited on the Carbon & Biomass outcomes and milestones and the objectives for each key meeting – WHAT DO WE WANT FROM PRINCIPALS AT SIT IN PARTICULAR?

- ❑ ACTION: Comments stephen@symbios.space

- ❑ CSIRO-GA Incoming SIT Chair Team will follow up with champions:
 - ❑ WGCV LPV, NASA/ESA/JAXA on Biomass
 - ❑ EC, JAXA, GCOS on Convention engagement & requirements
 - ❑ GHG Roadmap team on system milestones



Themes & Topics		Milestones			Headline outcomes
		2019	2020	2021	
2	Carbon and Biomass				
2A	Global Carbon Observing System		<p>SIT: Debate on 2023 Stocktake target prototype & actions assigned SIT TW: Technical actions progressed Plenary: GCOS requirements updated to reflect Paris agreement</p>	<p>SIT: Update agency commitments towards prototype global system SIT TW: Technical actions progressed - including - centralized repository for hosting quality-controlled CO2 and CH4 products, with internal capability for product inter-comparison Plenary: Review of status of prototype system to inform 2023 Stocktake and handover to incoming SIT Chair for next phase</p>	<p>Progress towards prototype system to inform 2023 Global Stocktake</p> <p>Centralized repository for hosting quality-controlled CO2 and CH4 products, with internal capability for product inter-comparison</p> <p>Updated GCOS Requirements</p>
2B	Biomass	Biomass data primer for SBSTA.	<p>- CEOS Biomass Protocol Published by WGCV LPV. - Support to implementation of the Protocol - Collaboration with GFOI Capacity Building Component on training and education on biomass datasets. - Biomass validation workshop in Australia in late 2020</p> <p>SIT: Principal actions to support Biomass Protocol and ensure benefits for individual agencies/missions SIT TW: Plenary:</p>	<p>- Biomass datasets available and useable by GFOI countries. R&D issues identified.</p> <p>SIT: Principals review progress on uptake for biomass missions. Consider coordinated actions to address obstacles SIT TW: Plenary: Policy applications of biomass datasets and measures to address lessons to date</p>	<p>Accelerated policy relevance of CEOS biomass datasets making best use of GFOI framework</p> <p>Biomass datasets available and useable by GFOI countries</p> <p>R&D activities actioned to address issues</p>
2C	Convention engagement	Convention engagement paper prepared for CEOS Plenary and notice of 2020 workshop	<p>- JRC Workshop on convention engagement spanning GHG, land use, & forestry</p> <p>SIT: Consensus on way forward for a more proactive engagement of Conventions by CEOS SIT TW: Plenary: GCOS requirements updated to reflect Paris agreement</p>	<p>SIT: Principals review Convention engagement progress SIT TW: Plenary: Strategy for space agency and CEOS support to the 2023 Global Stocktake, including through the GHG Roadmap</p>	<p>Stronger and more systematic engagement of UNFCCC and IPCC for CEOS.</p> <p>Recognition for role of EO data in Global Stocktake, national good practices etc.</p>

