

INFORMATION PAPER FOR CGMS-53 PLENARY

Elements of a consolidated CGMS position

Presented WMO WIGOS Vision drafting team meeting 28-29 April 2025

A coordinated CGMS response to the WIGOS Vision update

- CGMS-53 WGIII recommended to the CGMS-53 Plenary to develop a consolidated CGMS Position for the WIGOS Vision 2050;
- The position will reflect the leadership positions of all CGMS members and will provide reference and guidance for the development of the space-based part of the Vision 2050 and consolidate the support of the Space Agencies to the revised vision.
- Development of the CGMS position will proceed in parallel to the drafting of the Vision.

A coordinated CGMS response to the WIGOS Vision update

WGIII agreed an initial list of points to be elaborated in position paper:

- Coverage of user requirements for Earth system monitoring;
- Focus on a core constellation, fully committed by CGMS members;
- Evolution of the 4-tier concept;
- Consideration of emerging capabilities;
- Contributions of commercial satellites;
- Impact of AI/ML;
- Ground segment aspects; ...

Proposal for a coordinated CGMS response to the WIGOS Vision update - Timeline

Updated following WMO WIGOS Vision drafting team meeting 28-29 April 2025

Date	Activity
27 March 2025	CGMS-53 WGIII -> Presentation of concept of position paper by CGMSSEC (CGMS-53-CGMS-WP-13)
17 April 2025	CGMS survey to space agencies (feedback expected in the course of May)
28-29 April 2025	WIGOS Vision meeting -> Presentation of position paper planning by CGMSSEC
3-5 June 2025	CGMS-53 plenary -> Discussion based on survey feedback (provided to participants)
June-August 2025	CGMSSEC to elaborate preliminary position paper for review by WGIII members
25-26 September	WIGOS Vision meeting (in EUMETSAT) -> CGMS preliminary position paper + initial review of space component of Vision
12 November 2025, 21 January 2026	CGMS WGIII inter-sessionals -> CGMS preliminary position paper review
3-4 March 2026	16 th WMO High-Level Consultative Meeting on Satellite Matters (CM-16) -> CGMSSEC will present preliminary position paper
13-19 April 2026	CGMS-54 WGIII -> Finalisation of CGMS position paper for recommendation to CGMS-54 Plenary
June 2026	CGMS-54 Plenary -> Final endorsement of CGMS position paper by CGMS
July 2026	WMO Vision 2050 final submission to INFCOM-4
October 2026	INFCOM-4 -> endorsement of WIGOS Vision 2050 and recommendation to Congress
2027	2027 WMO Congress-20 -> approval WIGOS Vision 2050

Survey Questions

1. Which application areas measurement needs should in your view be considered in the WIGOS Vision 2050?
2. A challenge for CGMS members in the current socio-economic climate is to make long-term commitments for core observations. How can the WIGOS Vision best support these efforts?
3. The WIGOS 2040 Vision is based on a 4-Tier concept, where Tier 1 represents a backbone system with specified orbital configuration and measurement approaches. How should the 4-Tier concept be developed in the 2050 vision?
4. How should the WIGOS Vision reflect current and future commercial capabilities?
5. How will artificial intelligence in your view affect the observational requirements as reflected in the WIGOS Vision?
6. Which are the most important new measurement capabilities, that may become operationally mature in the next 2 decades?
7. Should the evolving requirements for timeliness and data access be reflected in the WIGOS Vision, and if so, how?
8. What are the three single most important things that should be considered in the WIGOS 2050 Vision, to make this vision useful and add value to your planning, your design, and your programmatic undertaking (securing funding, etc)?

[EUSurvey - Survey](#)

Thank you for your attention