

**CGMS FUTURE DIRECTION 2022+ INITIATIVE – STATUS AND WAY FORWARD 2026**

REFERENCE DOCUMENT: [CGMS-51-CGMS-WP-04](#); [CGMS-52-CGMS-WP-03](#)

Theme	CGMS WG	Champion	Deliverables	Short- and medium-term targets (refs as per HLPP 2024-28)	Status
<b>Socio Economic Benefits</b>	WGIII	Hiroshi Ono <a href="mailto:h_ono@met.kishou.go.jp">h_ono@met.kishou.go.jp</a>  (Replaced Yasushi Sumida <a href="mailto:y_sumida@met.kishou.go.jp">y_sumida@met.kishou.go.jp</a> )	Available socio-economic benefit studies by CGMS members are/will be published on <a href="https://cgms-info.org/initiatives/socioeconomic-benefits/">https://cgms-info.org/initiatives/socioeconomic-benefits/</a>  2024 Apr, JMA: <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=a716a4a9-97d8-42ed-81fd-9d468a3fd193&amp;aid=48903fee-f4a0-4d51-b15d-c6a4b8a447c3">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=a716a4a9-97d8-42ed-81fd-9d468a3fd193&amp;aid=48903fee-f4a0-4d51-b15d-c6a4b8a447c3</a>  2024 Apr, EUM: <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=c4ba4ff8-05de-4685-96ab-986ffaca1c74&amp;aid=693f7f2b-d78b-">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=c4ba4ff8-05de-4685-96ab-986ffaca1c74&amp;aid=693f7f2b-d78b-</a>	1.4.2 Collect and make available to CGMS members, SEB case studies of relevant satellite systems for the purpose of identifying common practices in next phase. 1.4.3 Explore with WMO and other agencies the possibility to develop a study on the SEB value of the space-based observing system responding to WIGOS 2040 in cooperation with	<b>CLOSURE PROPOSED at CGMS-54 plenary</b> 2026 May: Initiation phase considered completed. SEB is a permanent agenda item in WGIII and will be further addressed there.  2025 Feb: A survey is under preparation and will be sent to members for responding.  WGIII has a standing item on SEBs on its agenda and will continue to address it there.  1.4.2 is being undertaken. (Common practices difficult...

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			<a href="#">4377-a71b-b0ab593812dc</a>	CGMS, and to trigger collaboration with CGMS members	national requirements etc) Maybe EUM's lessons learned can be used to that purpose. 1.4.3 In view of WMO's reorganisation, and already clear indication they have no funding to do such a study. To be noted as a recommendation? JMA champion to consider.

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Hybrid Space Observations Architectures	WGI	Simon Elliott EUMETSAT <a href="mailto:Simon.elliott@eumetsat.int">Simon.elliott@eumetsat.int</a>		<p>2.8.1 Taking passive <math>\mu</math>wave sensing as an initial case, identify all current constellations, and those planned for the next few years (CGMS baseline, complementary systems, and potential data buys) and demonstrate the impact of CGMS contributions, as part of the integrated system.</p> <p>2.8.2 Address such aspects as orbit coordination and harmonized data access to ensure the different components of the hybrid space infrastructures provide a seamless operational service to the users.</p>	<p><b>CLOSED</b> 2026 May</p> <p>High level statement endorsed by CGMS-52 plenary: <a href="https://cgms-info.org/wp-content/uploads/2024/06/CGMS-high-level-statement-on-optimum-composition-of-hybrid-architectures-for-fulfilling-the-operational-observation-requirements-by-CGMS-in-the-future-CGMS-52-1.pdf">https://cgms-info.org/wp-content/uploads/2024/06/CGMS-high-level-statement-on-optimum-composition-of-hybrid-architectures-for-fulfilling-the-operational-observation-requirements-by-CGMS-in-the-future-CGMS-52-1.pdf</a></p> <p>Information on CGMS website outstanding (under preparation).</p> <p>On proposals by members, further observation types should be identified that should be analysed using the developed process.</p>

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Private Sector	WGIII	Mara Browne NOAA <a href="mailto:mara.browne@noaa.gov">mara.browne@noaa.gov</a> Support: WMO, <a href="mailto:hpohjola@wmo.int">hpohjola@wmo.int</a>	‘CGMS best practices on relationship with the private sector on commercial data purchases’ published (2024): <a href="https://cgms-info.org/wp-content/uploads/2024/06/CGMS-best-practice-document-Relationship-with-the-private-sector-for-commercial-data-purchases.pdf">https://cgms-info.org/wp-content/uploads/2024/06/CGMS-best-practice-document-Relationship-with-the-private-sector-for-commercial-data-purchases.pdf</a>	<p>1.6.1 Identify/evaluate potential or future commercial EO technologies – and share info on pilots/testbeds/etc. to evaluate new commercial EO technologies.</p> <p>1.6.2 Assess the operational maturity of commercial observation technology.</p> <p>1.6.3 Develop best practices/templates: for End User License Agreements/Procurements, for considering the value of public access and the additional costs of data sharing rights, Incl. quality control considerations</p>	<p><b>CLOSED at</b> CGMS-52 plenary ----</p> <p>Initial activities under this theme have been concluded.</p> <p>The theme will be addressed in WGIII on a permanent basis (and other WGs as necessary).</p> <p>1.6.1 to be provided by relevant space agency members and CGMS informed accordingly</p> <p>1.6.2 is undertaken by relevant space agency members and CGMS should be informed accordingly</p> <p>1.6.3 It should be considered whether the current BP cover these points adequately</p> <p>Due to WMO’s reorganisation (Oct 2025) it is unclear who will represent WMO/Open Consultative Platform in WGIII intersessionals to share OCP's plans for the year (dates, major themes</p>

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					and priorities) so that CGMS can provide feedback from OCP to consider.
<b>Research to operations</b>	WGIV (support WGII)	<p>Will McCarty, NASA <a href="mailto:will.mccarty@nasa.gov">will.mccarty@nasa.gov</a></p> <p>Laurie Rokke, NOAA <a href="mailto:Laurie.Rokke@noaa.gov">Laurie.Rokke@noaa.gov</a></p> <p>Jordan Gerth, NOAA <a href="mailto:Jordan.Gerth@noaa.gov">Jordan.Gerth@noaa.gov</a></p> <p>(+ support Matt Zandbergen, <a href="mailto:Matthew.Zandbergen@noaa.gov">Matthew.Zandbergen@noaa.gov</a>)</p>	<p>Jan 2025: Survey circulated 20 Dec 2024</p> <p>Results to be presented to CGMS-53 WGs in March 2025</p> <p>2024 Apr: <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=41cf8be0-bd0d-4517-b31a-c6fad887226d&amp;aid=01e9e5f6-f7ff-4b24-b80b-1a79c7b03832">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=41cf8be0-bd0d-4517-b31a-c6fad887226d&amp;aid=01e9e5f6-f7ff-4b24-b80b-1a79c7b03832</a></p>	<p>HLPP targets:</p> <p>3.8.1 Collect the experience of each agency by carrying out a Research-to-Operations method survey with each agency including identification of research missions with a potential transfer to operations.</p> <p>3.8.2 Based on the results of the method survey, propose a consistent CGMS Research-to-Operations baseline process that includes flexibility and adaptability and facilitates the</p>	<p><b>CLOSURE PROPOSED</b></p> <p>At CGMS-54 plenary.</p> <p>2026 May: Reporting has taken place at CGMS-54 WGs in April where it was recommended to consider the initiation phase concluded. Expected to be come a standing agenda item in WGIV</p> <p>----</p> <p>Presentation was provided to CGMS-53 WGIV meeting:</p> <p>In 2024, a comprehensive survey of CGMS members, including responses from EUMETSAT, JAXA, JMA, NOAA, and WMO, was completed to collect insights on R2O/O2R practices. Key findings from the survey highlighted the different operational constraints and research priorities of CGMS agencies and emphasize the</p>

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				<p>participation of R&amp;D agencies.</p>	<p>need for a coordinated and adaptable approach to R2O/O2R across the meteorological and environmental satellite community.</p> <p>The CGMS Working Group IV aims to continue fostering collaboration and knowledge sharing to enhance the transition of research into operational systems while maintaining flexibility to meet the unique needs of each agency.</p> <p>WG IV discussed the concrete outcomes expected from this activity. NOAA will look at their process and see how others might follow that. EUMETSAT suggested looking at the transition from ESA's AWS to EPS-Sterna as an example for R-O for satellite systems.</p>

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<p><b>Future Information technology</b></p> <p><b>a) Internet of things (IOT)</b></p>	WGI	<p>Antoine Jeanjean, EUMETSAT <a href="mailto:Antoine.Jeanjean@eumetsat.int">Antoine.Jeanjean@eumetsat.int</a></p> <p>2024 Apr: <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=8c829f84-331c-4f8b-a419-8efd41207599&amp;aid=cf9487ab-349f-41d5-b73a-c62363f75f0bhttps://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=b8d48722-68d9-49eb-9eba-d57362fe3ab4&amp;aid=7ec1c419-9101-44a2-918e-">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=8c829f84-331c-4f8b-a419-8efd41207599&amp;aid=cf9487ab-349f-41d5-b73a-c62363f75f0bhttps://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=b8d48722-68d9-49eb-9eba-d57362fe3ab4&amp;aid=7ec1c419-9101-44a2-918e-</a></p>		<p>HLPP targets:</p> <p>2.9.1 Assess the Internet-Of-Things technology for inter- and intra-connections between satellite and ground network.</p> <p>2.9.2 Explore improvements to LEO satellite systems low latency data access from both a global and regional perspective, harnessing common emerging technologies and taking account of the evolution of the commercial and agency space systems.</p>	<p><b>CLOSURE PROPOSED</b></p> <p>At CGMS-54 plenary 2026 May: Reporting has taken place at CGMS-54 WGs in April where it was recommended to consider the initiation phase concluded.</p> <p>---</p> <p>Activity delayed due to unavailability of champion mid-2025. Status to be provided from WG-I Intersessional 12 Dec 2025</p>

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<p><b>Future Information technology</b></p> <p><b>b) AI/ML</b></p>	WGII (+ WGIV)	Na Xu, CMA <a href="mailto:xuna@cma.gov.cn">xuna@cma.gov.cn</a>	<p>2024 June: Plenary asked members to nominate two candidates to lead on the AI/ML activity.</p> <p><i>A52.04: AI-ML next steps: proposed use cases for CGMS</i></p> <p><i>CGMS members to provide comments and feedback on the proposals in <a href="https://www.cgms-info.org/Agendas/PPT/CGMS-52-WGII-WP-04">https://www.cgms-info.org/Agendas/PPT/CGMS-52-WGII-WP-04</a></i></p> <p><i>CGMS members to nominate two focal points of contact as leading entity to pursue this activity.</i></p> <p><i>Following feedback, CGMSSEC will address next steps with WGI, WGII and WGIV leading entities.</i></p> <p>2024 Apr: Proposal: <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=3668af33-4607-4505-bcf2-b9b1ce6d9619&amp;aid=1c8dc3d8-535e-48b7-9929-77861e14d9c5">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=3668af33-4607-4505-bcf2-b9b1ce6d9619&amp;aid=1c8dc3d8-535e-48b7-9929-77861e14d9c5</a></p> <p>Survey</p>	<p>Needs leading entities to take activity forward.</p> <p>HLPP targets:</p> <p>4.9 Identify AI/ML technologies for applying to the product processing and data management infrastructure and develop best practices</p>	<p><b>CLOSURE PROPOSED</b></p> <p>At CGMS-54 plenary</p> <p>2026 May: Reporting has taken place at CGMS-54 WGs in April where it was recommended to consider the initiation phase concluded. The CGMS Secretariat is implementing the theme on all WG agendas for the next round.</p> <p>---</p> <p>WG-II CGMS-53 meeting considered the status:</p> <p>The growing role and integration of Artificial Intelligence (AI) was identified as a cross-cutting priority. There was a recognized need to assess AI's implications for future surface observation data requirements and a unified call across working groups to systematically document AI use cases in areas such as retrieval</p>

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			outcome: <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=6a5edffc-548c-4025-8cd9-9fca4337c1ba&amp;aid=2c4e1b9d-fb7b-4da0-b38d-5ca3f773508b">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=6a5edffc-548c-4025-8cd9-9fca4337c1ba&amp;aid=2c4e1b9d-fb7b-4da0-b38d-5ca3f773508b</a>		<p>algorithms, Radiative Transfer Model (RTM) acceleration, and improving various observational products. Other important topics discussed included the integration of lightning data for nowcasting, the coordination of microwave sensor frequencies, investigating options for UV limb sounding continuity, the potential establishment of GHG super-sites (with an emphasis on leveraging existing WMO infrastructure), and ensuring timely data delivery (low-latency) to support applications like global greenhouse gas monitoring.</p> <p>Based on the presented use cases, the potential response of CGMS to the AI challenges was discussed, which resulted in the endorsement of four key AI/ML areas to enhance meteorological and space</p>

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					<p>weather data utilisation:</p> <ol style="list-style-type: none"> <li>1) Data curation standards The purpose of this initiative is to standardise Earth observation data, including formats like Zarr and metadata per CF conventions, to ensure compatibility with AI and ML. As part of the deliverables, the CGMS Secretariat will lead a survey of agencies within the CGMS. Additionally, Working Groups II and IV will collaboratively draft standards that will be reviewed at CGMS-54.</li> <li>2) AI/ML applications catalogue The purpose of this initiative is to centralise global AI advancements for community reuse, similar to GitHub repositories. The deliverables include an agency survey</li> </ol>

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					<p>conducted by the CGMS Secretariat to collect model metadata, and a Version 1 catalogue developed by Working Group II to be presented at CGMS-54.</p> <p>3) Space Weather AI readiness The focus is on predicting solar flares and coronal mass ejections (CMEs), as well as tackling the challenges associated with real-time forecasting. To address these issues, it was agreed to hold 2–3 seminars jointly organised by SWCG/WGII.</p> <p>4) AI error propagation framework for precipitation products The objective is to measure the uncertainties caused by AI in operational products, and it is the responsibility of the IPWG to</p>

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					<p>formulate the methodology for this purpose</p> <p>WG-II will follow up the progress</p>
<p><b>Future Information technology</b></p> <p><b>c) Cloud</b></p>	WGIV	<p>2025 Jan: Eric Abla, NOAA <a href="mailto:eric.abla@noaa.gov">eric.abla@noaa.gov</a></p> <p>(Replaces Kathryn Schontz, NOAA <a href="mailto:kathryn.schontz@noaa.gov">kathryn.schontz@noaa.gov</a>, elected at CGMS-52 WGI meeting)</p>	<p>3<sup>rd</sup> CGMS WGIV cloud technology workshop to be held on 4-6 March 2025 (at NOAA). Survey input provided as well as abstract provision. Report on outcome of the workshop to be made at CGMS-53 WG meetings in March.</p>	<p>HLPP targets:</p> <p>3.7.1 Develop best practices for cloud services interoperability.</p> <p>3.7.2 One or more CGMS members to prepare demonstration of collaboration with private sector regarding satellite data distribution.</p>	<p><b>CLOSURE PROPOSED</b> At CGMS-54 plenary 2026 May: Reporting has taken place at CGMS-54 WGs in April where it was recommended to consider the initiation phase concluded.</p> <p>3.7.1 <a href="https://cgms-info.org/wp-content/uploads/2024/06/CGMS-agency-best-practices-in-support-to-using-cloud-for-storage-storing-processing-and-dissemination-of-meteorological-data-6.pdf">https://cgms-info.org/wp-content/uploads/2024/06/CGMS-agency-best-practices-in-support-to-using-cloud-for-storage-storing-processing-and-dissemination-of-meteorological-data-6.pdf</a></p> <p>Cloud TG has been stalled due to personnel changes, will be followed up by WG-IV</p>

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Space situational awareness	SWCG, WGI	Juha-Pekka Luntama, ESA <a href="mailto:Juha-Pekka.Luntama@esa.int">Juha-Pekka.Luntama@esa.int</a>	Proposed (Terms of Reference for) CGMS WGI Space Environment Sustainability Task Group <i>addressed in CGMS-52 SWCG</i> 25 Apr 2024 <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=85faa2b9-5f1a-4dfb-8ab1-c26f1965de69&amp;aid=4677b70e-23f7-4743-b84a-a56c49d22e3b">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=85faa2b9-5f1a-4dfb-8ab1-c26f1965de69&amp;aid=4677b70e-23f7-4743-b84a-a56c49d22e3b</a>	<p><b>2.6 Space Traffic Coordination</b></p> <p>2.6.1 Review of CGMS Member Agencies' satellite operations for collision avoidance and re-entry prediction.</p> <p>2.6.2 Perform a gap analysis between the needs and the available/used Space Traffic Coordination services, carry out an assessment of service development prospects and prepare a proposal for best practises to support improvement.</p> <p>2.6.3 Engage with UN-COPUOS to achieve global standardised approach for STC based</p>	<p><b>CLOSURE PROPOSED</b> at CGMS-54 plenary 2026 May: Reporting has taken place at CGMS-54 WGs in April where it was recommended to consider the initiation phase concluded. The work will continue in the framework of the SWCG.</p> <p>----</p> <p>The SSA Task Group under WG-I is addressing all issues. Detailed status will be available after next meeting of TG, scheduled 21 January 2026.</p>

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				<p>on CGMS proposal.</p> <p><b>2.7 Space Sustainability</b></p> <p>2.7.1 Share Space Sustainability Rating methodologies and carry out a pilot project where some operational mission plannings are evaluated.</p> <p>2.7.2 Follow efforts to establish an international agency policy on “zero debris” and based on the outcome carry out assessment of impacts of such policy on operational missions of CGMS members and private sector.</p>	

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				<p>2.7.3 Prepare a CGMS best practises document for long term space sustainability</p> <p>6.7 Produce a report of space weather (SWx) observation requirements for improved STC services and space sustainability and consider impact on future SWx observations due to increased demand on SWx services.</p>	
<p><b>Earth system monitoring</b></p>	<p>Overarching</p>	<p>Albert Fischer, WMO <a href="mailto:afischer@wmo.int">afischer@wmo.int</a></p>		<p><i>Needs clear guidance to CGMS if to continue or sunset.</i></p>	<p><b>CLOSURE PROPOSED</b> at CGMS-54 plenary 2026 May: The theme has been superseded by the review and update of the WIGOS vision 2040</p> <p>----</p> <p>In view of WMO's</p>

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					reorganisation and reprioritisation of strategic targets under the Executive Task force, it should be considered whether this theme should be pursued. It should be noted that in agency reports, CGMS members announce their broad support to ESM.
<b>Support to developing countries</b>	WGIV	Di Xian, CMA <a href="mailto:xiandi@cma.gov.cn">xiandi@cma.gov.cn</a>	2024 Apr: Proposal by CMA: CGMS-52-CMA-WP-06 for further discussion in WGIV intersessionals.  This topic is addressed in WGIV.		<b>CLOSURE PROPOSED</b> at CGMS-54 plenary  ---- Topic/Action embedded within WGIV, CMA has specific action on this in WGIV. Standing agenda item in WGIV.  CMA provided a presentation at the WG-IV CGMS-53 meeting:  CMA presented the concept of a satellite application centre for EW4ALL, which would enhance meteorological satellite

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					<p>applications' supporting role for Early Warnings, NWP, meteorological disaster protection and reduction. The centre would:</p> <ul style="list-style-type: none"> <li>• Promote meteorological satellite applications;</li> <li>• Provide meteorological satellite data and technical support;</li> <li>• Train professional talents;</li> <li>• Support research and innovation;</li> <li>• Develop standards and norms, and</li> <li>• Improve meteorological satellite service quality.</li> </ul> <p>The group discussed the concept in some detail. WMO noted that EW4ALL is a strategic initiative of WMO, and that they require more time to carefully consider the proposal before being able to fully endorse it.</p>

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					<p>There was a widely held view in the group that there could well be an overlap with existing initiatives in place at a regional level in RA-II and RA-V. The relevance of the intended goal was acknowledged, and the group sought a way to ensure that efforts would not be duplicated leading to redundant results.</p> <p>CMA reminded the group that this initiative is in response to user requirements from RTC Nanjing, and that there is an open action from INFCOM MG to follow up on this. EUMETSAT explained that from INFCOM MG's perspective, there is a need to carefully define the scope of an appropriate survey, and how the fits into the work of SC-ON and ET-SSU, which ensuring a lack of overlap with CGMS.</p>

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					<p>WGIV has user readiness within its scope and so is the appropriate group in CGMS to address this topic. The topic can be addressed with a document detailing draft ideas based upon the survey results already implemented in many regions at a forthcoming intersessional meeting.</p>

**Associated list of actions up to and including CGMS-52 (2024)**

CGMS members	FUTURE DIRECTION	A51.09	<p>CGMS members to nominate and/or confirm representatives for the "champion" to secure the continuity of the six pilot activities and within the respective working groups (as per <a href="#">CGMS-51-CGMS-WP-04</a>)</p> <p><b>FUTURE DIRECTION</b></p> <p><b>1 Socio Economic Benefits</b> WGIII / Yasushi Sumida JMA</p> <p><b>2 Hybrid Space Observations Architectures</b> WGI / Simon Elliott EUMETSAT</p> <p><b>3 Private Sector</b> WGIII / Mara Browne NOAA</p> <p><b>4 Research to operations</b> WGIV (support WGII) /</p> <ul style="list-style-type: none"> <li>NOAA, NASA to confirm by end</li> </ul>	<p>05 Jun 2024 Activities will continue in the framework of the five CGMS working groups. Proposal to close the plenary action and address these directly in the working groups. All themes are generally embedded within the standing agendas of the working groups. Closed on the occasion of plenary.</p> <p><b>SEB:</b> JMA / Y Sumida <a href="mailto:y_sumida@met.kishou.go.jp">y_sumida@met.kishou.go.jp</a> <i>addressed in CGMS-52 WGIII</i></p> <p>26 Apr 2024 JMA: <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=a716a4a9-97d8-42ed-81fd-9d468a3fd193&amp;aid=48903fee-f4a0-4d51-b15d-c6a4b8a447c3">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=a716a4a9-97d8-42ed-81fd-9d468a3fd193&amp;aid=48903fee-f4a0-4d51-b15d-c6a4b8a447c3</a></p> <p>EUM: <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=c4ba4ff8-05de-4685-96ab-986ffaca1c74&amp;aid=693f7f2b-d78b-4377-a71b-b0ab593812dc">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=c4ba4ff8-05de-4685-96ab-986ffaca1c74&amp;aid=693f7f2b-d78b-4377-a71b-b0ab593812dc</a></p> <p><b>Hybrid architectures:</b> EUM / Simon Elliott <a href="mailto:Simon.Elliott@eumetsat.int">Simon.Elliott@eumetsat.int</a> <i>addressed in CGMS-52 cross-cutting session on 24 April</i></p> <p><b>Private sector:</b> NOAA / Mara Browne <a href="mailto:mara.browne@noaa.gov">mara.browne@noaa.gov</a> Support: WMO, <a href="mailto:hpohjola@wmo.int">hpohjola@wmo.int</a> <i>addressed in CGMS-52 cross-cutting session on 24 April 24 Apr 2024</i></p>	31 July 2023	<b>CLOSED</b>
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			<p>July '23</p> <ul style="list-style-type: none"> <li>Other agencies to provide feedback by end July '23</li> </ul> <p><b>5 Future Information technology</b> IOT: WGI / Antoine Jeanjean EUM AI/ML: WGII <i>and</i> WGIV / CMA XU Na Cloud: WGIV / VACANT</p> <p><b>6 Space situational awareness</b> SWCG, WGI / Juha-Pekka Luntama ESA - confirmed</p> <p><b>7 Earth system monitoring</b> WMO, Albert Fischer - confirmed</p> <p><b>8 Support to developing countries</b> CMA (name TBD by end July '23) - confirmed</p>	<p>Overview: <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=85761766-294f-4f69-b2c0-9fd93ac2044a&amp;aid=18399fe1-c26f-4c06-b4e7-b621db08cc90">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=85761766-294f-4f69-b2c0-9fd93ac2044a&amp;aid=18399fe1-c26f-4c06-b4e7-b621db08cc90</a></p> <p>Draft best practice: <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=86341dfb-c144-4fe8-940d-784a88cd7493&amp;aid=981f3671-a7a4-418f-a86a-4bb00b23742e">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=86341dfb-c144-4fe8-940d-784a88cd7493&amp;aid=981f3671-a7a4-418f-a86a-4bb00b23742e</a></p> <p><b>20 Nov 2023:</b> Call for inputs made to members for best practices pertaining to end user license agreements and/or procurements with the private sector - to develop best practices - and participation in task team requested. EUM: <a href="mailto:Daniel.Lee@eumetsat.int">Daniel.Lee@eumetsat.int</a> <b>R20:</b> <a href="mailto:Jordan.Gerth@noaa.gov">Jordan.Gerth@noaa.gov</a>, (joint NASA/NOAA effort)</p> <ul style="list-style-type: none"> <li>NASA Will McCarty, <a href="mailto:will.mccarty@nasa.gov">will.mccarty@nasa.gov</a></li> <li>NOAA Laurie Rokke, <a href="mailto:Laurie.Rokke@noaa.gov">Laurie.Rokke@noaa.gov</a> and Jordan Gerth, <a href="mailto:Jordan.Gerth@noaa.gov">Jordan.Gerth@noaa.gov</a></li> <li>NOAA support: Matt Zandbergen, <a href="mailto:Matthew.Zandbergen@noaa.gov">Matthew.Zandbergen@noaa.gov</a></li> </ul> <p><i>addressed in CGMS-52 cross-cutting session on 23 April</i> 24 Apr 2024 Proposal: <a href="https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=41cf8be0-bd0d-4517-b31a-c6fad887226d&amp;aid=01e9e5f6-f7ff-4b24-b80b-1a79c7b03832">https://www.cgms-info.org/Agendas/GetWpFile.ashx?wid=41cf8be0-bd0d-4517-b31a-c6fad887226d&amp;aid=01e9e5f6-f7ff-4b24-b80b-1a79c7b03832</a></p> <p><b>Future IT:</b> IOT / EUM / Antoine Jeanjean <a href="mailto:Antoine.Jeanjean@eumetsat.int">Antoine.Jeanjean@eumetsat.int</a> <i>addressed in CGMS-52 WGI</i> 22 Apr 2024 <a href="https://www.cgms-">https://www.cgms-</a></p>	
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CGMS members, CGMS WGs	AI/ML session	A51.10	<p>AI/ML theme to be included on the plenary agenda at CGMS-52, with the CGMS WGs (WGII, WGIV, ...) to address AI/ML in their respective intersessional meetings in preparation.                  Focal point of contact/Coordinator:                  Champion of future direction AI/ML theme to be nominated (link to action above)</p>	<p>2026 May: Initiation phase for final closure at CGMS-54 plenary. The CGMS Secretariat is working with the WGs to incorporate the theme throughout all the CGMS WGs.                  06 Jun 2024 Proposed to close this plenary action on this basis and with the WGs to incorporate AI/ML on their respective agendas as necessary. References is also made to CGMS-52 plenary discussion and proposal on 'AI-ML next steps: proposed use cases for CGMS' <a href="https://www.cgms-info.org/Agendas/PPT/CGMS-52-WGII-WP-04">https://www.cgms-info.org/Agendas/PPT/CGMS-52-WGII-WP-04</a> on way forward.                  05 Jun 2024 <a href="https://www.cgms-info.org/Agendas/PPT/CGMS-52-WGII-WP-02">https://www.cgms-info.org/Agendas/PPT/CGMS-52-WGII-WP-02</a>                  Proposed to address AI/ML matters directly in the framework of the CGMS working groups. WGs I–IV to identify what aspects of AI/ML to address.                  14 May 2024 Will be addressed on the occasion of the WGII report to CGMS-52 plenary, and members are requested to provide guidance on the next steps.                  22 Apr 2024 Addressed during the CGMS-52 WGII session on 22-26 April 2025.</p>		<b>CLOSURE PROPOSED</b>

CLOSED

CGMS member principals	FUTURE DIRECTION	A51.08	<p>CGMS principals are invited to nominate a representative to participate in a drafting group tasked to develop, by CGMS-52, a CGMS statement on the optimum composition of hybrid architectures (combining reference platforms, small satellites and procurement of commercial data) for fulfilling the operational observation requirements of CGMS members in the future, recognizing the rapidly changing environment in small satellites and the commercial sector.</p> <p>In particular, the group will identify complementarity and associated merits between the three different aspects of a hybrid system, and will provide recommendations on an optimal mix to obtain essential observations, provided with very high reliability, or on how to fulfil the "backbone" observing requirements.</p>	<p>Statement published on the CGMS website: <a href="https://cgms-info.org/wp-content/uploads/2024/06/CGMS-high-level-statement-on-optimum-composition-of-hybrid-architectures-for-fulfilling-the-operational-observation-requirements-by-CGMS-in-the-future-CGMS-52-1.pdf">https://cgms-info.org/wp-content/uploads/2024/06/CGMS-high-level-statement-on-optimum-composition-of-hybrid-architectures-for-fulfilling-the-operational-observation-requirements-by-CGMS-in-the-future-CGMS-52-1.pdf</a></p> <p>06 Jun 2024 CGMS-52 plenary endorsed the high level statement on the understanding that the CGMS Secretariat will take the comments by plenary into account in the final version.</p> <p>03 Jun 2024 Members are requested to provide feedback on the draft HL statement presented for endorsement at the CGMS-52 plenary <a href="https://www.cgms-info.org/Agendas/WP/CGMS-52-CGMS-WP-04">https://www.cgms-info.org/Agendas/WP/CGMS-52-CGMS-WP-04</a></p> <p>02 Apr 2024 CGMSSEC has circulated the draft high level statement to CGMS member focal points of contact to provide feedback and comments by 15 May 2024. The Secretariat will then provide it to plenary for endorsement.</p> <p>2023 8 Nov: CGMSSEC letter (EUM/CGMS/LET/23/1381413) circulated to members noting that the Secretariat together with the WMO will draft an initial statement. On the basis of the first draft statement, the CGMS Secretariat will arrange for online discussions with CGMS members. Members to nominate a</p>	15 May 2024, CGMS-52 plenary (31 July 2023)	<b>CLOSED</b>
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				<p>representative <i>by end November 2023</i> for supporting the discussion and to share initial considerations for the preparation of the draft, please submit your input by email to <a href="mailto:cgmssec@eumetsat.int">cgmssec@eumetsat.int</a> by <i>mid-December 2023</i>. CMA: Lei YANG <a href="mailto:yangl@cma.gov.cn">yangl@cma.gov.cn</a> NASA: <a href="mailto:sid.a.boukabara@nasa.gov">sid.a.boukabara@nasa.gov</a> WMO: Heikki Pohjola <a href="mailto:hpohjola@wmo.int">hpohjola@wmo.int</a></p>		
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