

WMO Capacity Development Panel

(10th meeting – February 3-4, 2025)

Update of CD-related Activities from INFCOM: Focus on Coordination Mechanism



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World Meteorological Organization
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Outline

- Decision 10 Capacity Development (INFCOM-2)
- Decision 20 Capacity Development(INFCOM-3)
- Coordination Mechanism for Capacity Development
- Draft Outline for CD Roadmap
- Short term priorities for Coordination Mechanism

Recap of Decision 20 (INFCOM-2) – Capacity Development

Event date	Document	Main Actions or Activities
INFCOM-1, March 2021	Inf. 5.2.3 – INFCOM Contribution to the Capacity Development Panel (CDP)	<ul style="list-style-type: none"> -Representative of INFCOM named to the CDP (Dec 2020) - Summary of INFCOM related capacity development activities for 2020-2023 shared with CDP - Contributions to the review of BIP-M, BIP-MT and competency frameworks and compliance with WMO standards -Review of WMO Capacity Development Strategy
INFCOM-2, October 2022	Inf. 8 Capacity Development	<ul style="list-style-type: none"> - Plan of capacity development activities - next intersessional period (training, workshops, guidance material) shared with members - Draft proposed CD material dashboard - Status of competency frameworks (as per WMO-No. 1209, 2019 edition)
	<u>Decision 20</u> (8/1) The Commission for Observation, Infrastructure and Information Systems decides to	<ul style="list-style-type: none"> - Establish a mechanism for coordination on capacity development among INFCOM - Review of competency frameworks - Endorse the plan CD activities -Coordinate with WMO Global Campus incl contributions to the WMO Global Campus calendar - Machine translation - Contribute to CD Dashboard to improve access - Enhance collaboration between various regional centres (re: training) - Continue support of TECO as opportunity for training and CD

Decision 20 (INFCOM-2)

- Coordination Mechanism established in May 2023, enabled
 - The compilation and sharing of plans for training events (pilot calendar) from subsidiary bodies, regional input, SOFF, and secretariat providing opportunities for coordination and outreach
 - The sharing of practices, challenges and potential leverage of experiences in capacity development related activities, of which:
 - The mapping of existing guidance/training and gaps to competencies related to Measurements, Instrumentation and Traceability (SC-MINT)
 - Training framework for GBON and WIGOS tools (SC-ON)
 - Sharing of reference material to support the translation of material
 - Adoption of the WMO Capacity Development Framework

Decision 20 (INFCOM-2)

Contributions to the Capacity Development Materials Dashboard and Outreach

- Facilitates overall view and access to INFCOM capacity development and training material for Members through WMO-INFCOM community page

Commission for Observation, Infrastructure and Information Systems (INFCOM)

The screenshot displays the INFCOM website's 'STRUCTURE & SUBSIDIARY BODIES' section. It lists various bodies such as the Commission for Infrastructure - Officers, Advisory Group on the Oceans, and the Coordinator for Engagement and Partnership. A sidebar on the left provides navigation options, and a 'NEXT' button is visible at the bottom.

Capacity Development Materials Dashboard

ACTIVITY AREAS (1)				
Commission for Observation, Infrastructure and Information Systems (INFCOM)				
Area	Newsletter	Manual and Guides	Other publications	Awareness and training materials
Information Management and Technology	WIS Newsletter Operational Newsletter	WIS Manuals Guide to WIS		WIS2 in a box
Earth Observing Systems and Monitoring Networks	WIGOS Newsletters Aircraft based Observation (ABO) and AMDAR Newsletters	WIGOS Manual Guide to WIGOS WIGOS Metadata Standard	WIGOS Technical reports	OSCAR/Surface WIGOS Learning Portal
Satellite data applications	RA II WIGOS Newsletters Space-based Weather		Guidelines on Best Practices for Achieving User Readiness	OSCAR/Space WMO-CGMS VLab Coordination Group

<https://community.wmo.int/en/capacity-development-materials-dashboard>

Decision 10 (INFCOM-3) – Capacity Development

Event date	Document	Main Actions or Activities
INFCOM-3, April 2024	Inf. 10 Capacity Development	<ul style="list-style-type: none"> - Listing of training events organised during intersessional period since 2022 - Plan for training activities of INFCOM for the next intersessional period (2024-2025) - Outline of the training framework for WIGOS (under development)
INFCOM-3, April 2024	<p><u>Decision 10</u></p> <p>The Commission for Observation, Infrastructure and Information Systems decides to</p>	<ul style="list-style-type: none"> - endorse the established mechanism for coordination on capacity development activities..., with particular focus on activities that contribute to the Early Warnings for All initiative and the Global Greenhouse Gas Watch [Co-Chairs of SG-GHG]; - utilize this mechanism to coordinate capacity development activities led by INFCOM..., using the WMO Capacity Development Framework..., as an overall guidance; - endorse the establishment of the Capacity Development Materials Dashboard to improve the access existing capacity development and training materials, and further develop and maintain it; - review, in collaboration with the regional offices, the existing Competency Frameworks (Part V of the Technical Regulations (WMO-No. 49), Volume I – General Meteorological Standards and Recommended Practices and the Compendium of WMO Competency Frameworks (WMO-No. 1209)), and, in coordination with the Capacity Development Panel (CDP), assess the needs and requirements, and draft a plan for updating the existing and developing new Competency Frameworks, as necessary; - endorse, with appreciation, the training activities organized during the intersessional period since October 2022 (as presented in INFCOM-3/INF. 10 Section B), and the plan for training activities for the next intersessional period (as presented in INFCOM-3/INF. 10 Section C), and request the Management Group, in coordination with CDP and regional working groups, supported by the regional offices, to support implementation of this plan;

Decision 10 (INFCOM-3) – Capacity Development

Event date	Document	Main Actions or Activities
INFCOM-3, April 2024	Decision 10 The Commission for Observation, Infrastructure and Information Systems decides to	- promote the Earth system approach in any capacity development activities by involving Earth system domains/disciplines , especially ocean, hydrology, cryosphere, atmospheric composition, and space weather, as well as by enhancing cooperation among regional centres of WMO with other bodies of Earth system domains/disciplines (e.g. Global Ocean Observing System (GOOS) Regional Alliances);
		- encourage INFCOM-related centres (e.g. Regional WMO Integrated Global Observing System (WIGOS) Centres (RWCs), Regional Instrument Centres (RICs), Regional Marine Instrument Centres (RMICs), World and Regional Radiation Centres (WRC and RRC) and Measurement Lead Centres (MLCs), WMO Information System (WIS) Centres, WMO Integrated Processing and Prediction (WIPPS) Centres) to collaborate with WMO Regional Training Centres (RTCs), supported by the regional offices , on the development and conduction of the training activities towards the achievement of the WMO long-term goals and the strategic objectives;
		(b) identify and mobilize existing education and training opportunities and resources and seek the possibility to expand the designated centres network where appropriate;

Decision 10 (INFCOM-3) – Capacity Development

Event date	Document	Main Actions or Activities
INFCOM-3, April 2024	Decision 10 The Commission for Observation, Infrastructure and Information Systems decides to	<ul style="list-style-type: none">- note the support to the implementation of the Global Basic Observing Network (GBON) through the Systematic Observations Financing Facility (SOFF) reported in INFCOM-3/INF. 8.1(4), and to encourage the Standing Committee on Earth Observing Systems and Monitoring Networks (SC-ON), SC-MINT, and the Standing Committee on Information Management and Technology (SC-IMT) to support the capacity development opportunities created by SOFF through their regional centre activities, training material and events, in the context of WMO's role as Technical Authority to SOFF;
		<ul style="list-style-type: none">- coordinate with the WMO Global Campus and CONECT initiatives, through CDP for the development and mobilization of education and training opportunities and resources, develop partnerships and leverage supporting technologies for collaborative capacity development projects, and promote sharing resources across institutions, by using, as relevant, interoperable technological means;
		<ul style="list-style-type: none">- explore innovative ways, including the use of machine translation, to make training resources available in all UN official languages, as well as to promote the use of existing instructions for translation, like those produced by the COMET Translation Resource Center, to facilitate the preparation of training materials in more than one language;
		<ul style="list-style-type: none">- noting the plan for TECO in 2024 (from 23 to 26 September 2024, in Vienna, Austria), to continue regular, biennial organization of the WMO Technical Conferences on the Meteorological and Environmental Instruments and Methods of Observation (TECOs) as an excellent opportunity for capacity development, including a mutually beneficial partnership with the private sector.

INFCOM Focal points for coordination on CD

Coordination mechanism established

May 2023 (**INFCOM-2/Decision 20**)

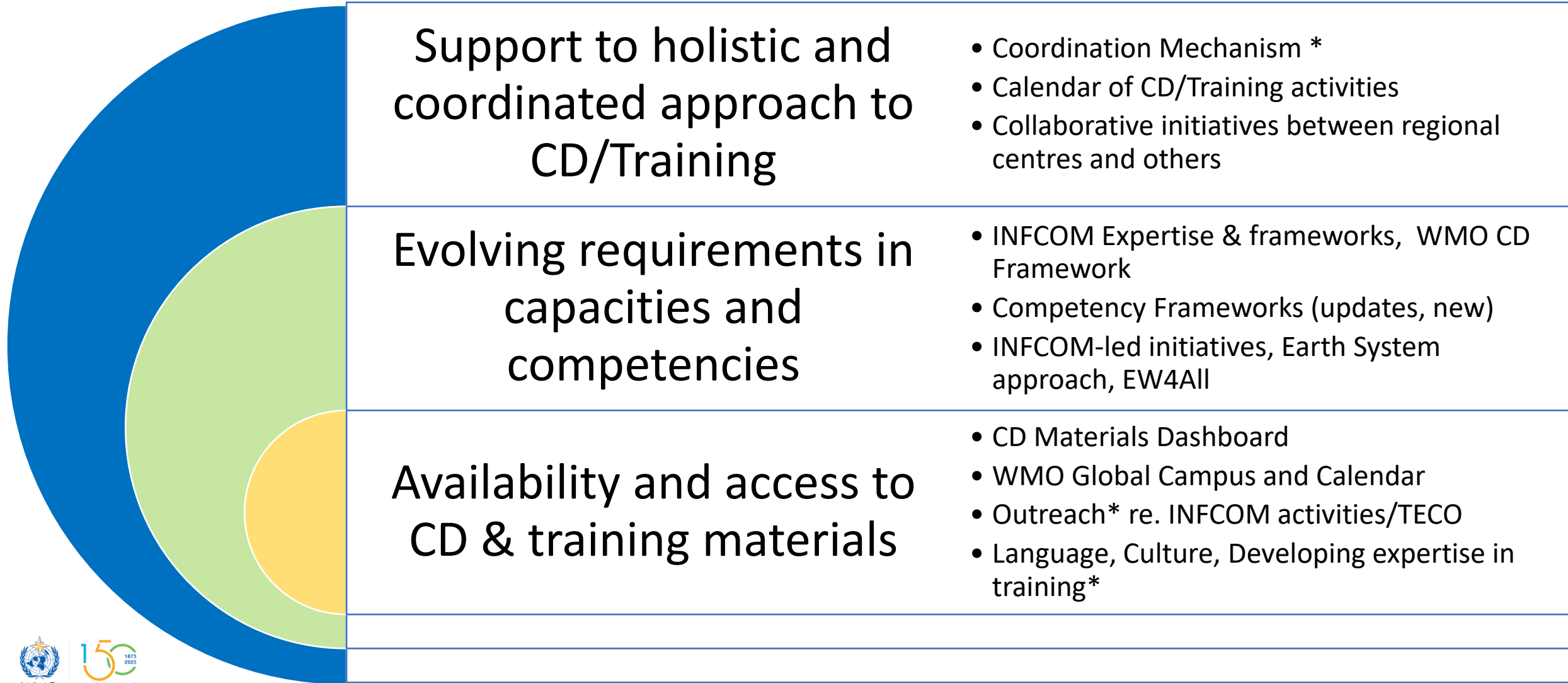
INFCOM-3/Decision 10 (April 2024)

- Update in membership of group
- Introductory meeting: December 17, 2024
 - Draft roadmap for CD in INFCOM
 - Initial discussion on challenges and priorities, such as:
 - Update of Competency Frameworks
 - Specificity of needs per country
 - Outreach material
 - Development of material (online)
 - Coordination opportunities with RTCs

All of which to be further expanded

Participants	Representing
Hamza Kabelwa	WMO Integrated Processing and Prediction System (SC-WIPPS)
Sarah Kimani	Space Systems and Utilization (ET-SSU)
Kari Sheets	Information Management and Technology (SC-IMT)
Martina Suya	Earth Observing Systems and Monitoring Networks (SC-ON)
Jane Warne/ Jiankai Wang	Measurements, Instrumentation and Traceability (SC-MINT)
Abubakr Babiker	RO I
Yongqing Chen	RO II and V
Sari Lappi	RO VI
Daniel Vila	RO III and IV
Zulkarnein	SOFF
Jennifer Milton	CD coordinator
and representatives of the secretariat	

Draft Outline of components of INFCOM Capacity Development Roadmap



Short Term Priorities of the CD Coordination Mechanism

- Next meeting: End of February-Mid March 2025
- Feedback Draft Capacity Development Roadmap for INFCOM
- Identify Training/CD priorities for 2025-2026 (April 2025) and outreach
- Discuss/Prioritize activities or needs to be addressed by the Coordination Mechanism (as per CD Roadmap):
 - To be highlighted within work plans
 - To coordinate with WMO secretariat, ETR, SOFF, CDP, SERCOM, and others
 - For coordination with Regional Centres (incl RTCs)
 - To address needs of the INFCOM community and members
- Review of the Dashboard for Capacity Development Material and modifications if necessary (March 2025 and ongoing)

Thank you!



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CD Roadmap for INFCOM (proposed outline)

Items	Post INFCOM-2 activities (2023-2024)	Post INFCOM-3 activities (2024-2026)
Coordination Mechanism for Capacity Development*	Established May 2023 Some focal points identified	Confirm membership of CMCD (incl G3W focal point and others) Determine ToRs (incl CD Roadmap)
Calendar of CD activities for coordination and outreach	Pilot listing of training events/workshops 2022-2024 Metrics included in template but not completed	Assess needs, metrics, outreach (Should this also include other CD related activities (publications, guidance, guidelines, etc)?) Process for further development and review, optimise coordination of events
Collaborative CD opportunities between regional centres and with other initiatives *	Option to indicate coordinated initiatives in training within listing calendar	To be explored within the CMCD, INFCOM SCs and CDP and with other training initiatives. Assess opportunities through SOFF, EW4All, SERCOM, RB, existing training resources supporting designated centres. Outreach INFCOM activities

CD Roadmap for INFCOM (proposed outline)

Items	Post INFCOM-2 activities (2023-2024)	Post INFCOM-3 activities (2024-2026)
WMO Capacity Development Framework	Contributions from INFCOM (2021-2022) Resolution 36 (CG-19): WMO Capacity Development Strategy should be identified as WMO Capacity Development Framework	Resolution 36 (CG-19): uptake and use of WCDF Summary of the WCDF for outreach in CD initiatives throughout INFCOM to be shared by CMCD.
INFCOM CD/Training Expertise and Frameworks	Training framework developed by SC-ON (mainly for GBON and WIGOS tools)	Build expertise available within INFCOM and contributing activities (ex: vLab, Regional Centres, GAW Training & Education, SC-MINT, etc), SC-ON training framework applicable to others?(such as training under EW4All)
Competency Framework *	Decision 20: review and update Competency Framework and plan for development of new when necessary SC-MINT: reviewed competencies, mapped existing guidance, training and gaps	Draft plan: priority to those required for new (ex: G3W), evolving (ex:WIPPS) activities aligned with new technologies and requirements. Build on experience of SC-MINT and on available guidance

CD Roadmap for INFCOM (proposed outline)

Items	Post INFCOM-2 activities (2023-2024)	Post INFCOM-3 activities (2024-2026)
EW4All and INFCOM-led initiatives *	Request to identify training events contributing to EW4All within the calendar of CD events	Identify EW4All CD related activities, in particular those related to WIPPS, RBON,/OSCAR WIGOS, Satellite (Vlab?). Identify competencies for nowcasting, availability of training material (WIPPS)? with RTC/ETR and regional approaches for EW4All
CD Material Dashboard	Available. Includes many references but some missing. Outreach	Process for updates and maintenance including review of current offerings. Identify EW4All specific material. Outreach
Language & other specifics for CD initiatives	Resources supporting translation (COMET Translation Resource center , UNTERM , WMO Language resources)	Explore options of AI and machine translation, speech to text options (& practices from other UN orgs – UNITAR) to support translation <i>Assess needs for ‘train the trainer’ initiatives for INFCOM experts</i>

CD Roadmap for INFCOM (proposed outline)

Items	Post INFCOM-2 activities (2023-2024)	Post INFCOM-3 activities (2024-2026)
Outreach regarding INFCOM activities	Pre-INFCOM 3 information sessions developed by the SCs and secretariat	Assess options to create short information clips for Members, INFCOM experts (incl newcomers) benefit with partners
TECO	TECO 2022 – presentation CD, gender balance, engagement young experts in WMO Earth Observing Systems and Monitoring Networks).	TECO 2024: Various presentations by INFCOM experts. Outcomes and lessons related to CD and training to be shared with the CMCD; and could be summarised for CDP awareness. Presentation for TECO 2026?