

INFCOM Coordination Mechanism for Capacity Development

(September 22-25 2025)

Update on INFCOM Capacity Development initiatives

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2. INFCOM approach to regional and national development projects
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 - review of INFCOM CD materials dashboard
 - outcome of surveys to members of the INFCOM CD Coordination Mechanism
4. Summary

WMO Infrastructure Value Cycle

Earth System Approach

Global and regional
observing networks



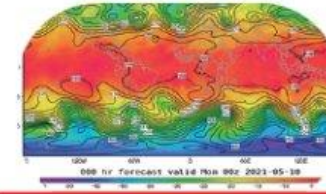
Observations from the
entire globe

Data sharing



International exchange of
observations

Prediction systems



Global Numerical
Weather Prediction

**Weather, hydrology and climate-related infrastructure must be
designed and managed globally**

Last-mile activities undertaken primarily at regional, national and local level

Effective decision-making
and action



Delivery of weather and
climate services



Local data processing,
forecast, warning and
advisory products



All linked to capacity development

EW4ALL

CREWS

SOFF

INFCOM approach to regional and national development projects (TT-Projects)

Purpose:

Assess the challenges in development projects stemming from discrepancies between INFCOM's current mechanisms and member needs

Propose targeted improvements to INFCOM mechanisms to address current challenges and evolving needs, while articulating its strategic role in regional and national development initiatives

- TT Members among RA1/RA4/RA5/RA6, Standing Committees, SOFF Peer advisors and CD coordinator, and chaired by VP/INFCOM
 - Case studies provided by beneficiary countries and peer advisors of SOFF/CREWS from various regions
 - Examples of hydrometeorological projects with infrastructure components from observations to forecasts presenting practical realities and challenges
 - Perspective from development bank also provided
- Initial classification of issues and challenges and potential solutions are being identified, including activities of existing subsidiary bodies and those related to capacity development and trainings.

Key takeaway: *Not all Members needs - particularly those related to implementation through development projects - are adequately addressed*

Next steps:



Develop recommendations to the Management Group of INFCOM and identify steps for implementation.

Propose presentation of outcomes to the CDP

Update on activities of the INFCOM Coordination Mechanism on Capacity Development

Addressing elements of Decision 10 (INFCOM-3)

- (1) Highlights of current CD and training activities within INFCOM subsidiary bodies (Competency frameworks, training and workshops)
- (2) Review of the INFCOM CD Materials Dashboard
- (3) Results from short survey regarding activities supporting CD/training initiatives by INFCOM subsidiary bodies
- (4) Sharing of expertise (ex: presentations by ETR: 'Outline of ETR activities' and 'Building a competency framework')

Highlights of CD and training activities by INFCOM – Training & Workshops

Earth Observing Systems and Monitoring Networks (SC-ON)

Training workshop on Regional WIGOS Centres functions and tools for Central and West Africa | 5-9 May, 2025

OSCAR/Surface online course for RA V | 19-21 May 2025

And upcoming:

WMO-CGMS VLab Regional Training Event on the Utilization of Satellite Data for CIS and Central Asian Countries, Tashkent, Uzbekistan | 8–10 October 2025

15th Asia-Oceania Meteorological Satellite Users' Conference (AOMSUC-15)

in conjunction with the **2025 FENGYUN Satellite User Conference (FYSUC-2025)**

and the **International Training Course on Satellite Data Applications, Beijing & Qingdao, China | 22–31 October 2025**

Regional Training Event on Radio Frequency matters for Arab Member States, Abu Dhabi | 9-10 Feb 2026

Measurements, Instrumentation & Traceability (SC-MINT)

International Pyrheliometer Comparison, Davos, Switzerland | 22 Sept-15 Oct. 2025

Regional Instrument Centres (RICs) workshop: Building a community of RICs, online, 29 September 2025

Meeting of SC-MINT Expert Team on Transition to Modern Measurement (ET-TMM), Beijing, 10-13 Nov. 2025



Workshop on the regional instrument centre concept, China-hybrid, 17-19 Nov. 2025

Highlights of CD and training activities by INFCOM –Training & Workshops

Data-Processing for Applied Earth System Modelling and Prediction (SC-WIPPS)

Benefits and Consideration of AI-Based TC Track Products for Operational Forecasting *Online | 24 March 2025*

Explore WMC Beijing Products: From Core Features to Cloud-based Early Warning Support System *Online | 25 June 2025*

WMO AI Conference, UAE/Online | 9-11 Sept. 2025

And upcoming :

WIPPS nuclear/non-nuclear environmental emergency response activities
15th Asia-Oceania Meteorological Satellite Users' Conference (AOMSUC-15) *Online | 17 October 2025*

Information Management and Technology (SC- IMT)

WIS2 Training Sessions, Oman | 13-17 April 2025

WIS2 Training Sessions, China | 15-19 Sept. 2025

Upcoming :

WIS2 Training Sessions, Kenya | 13-17 Oct. 2025

WIS2 Training Sessions, Russian Federation | 21-24 Oct. 2025

 **WIS2 Training Sessions, Turkiye | 17-21 Nov. 2025**

CD and training activities – Competency Frameworks

To be submitted at INFCOM 4

- Competency framework for personnel performing meteorological observations
- Competency framework for personnel installing and maintaining instrumentation
- Competency framework for personnel performing instrument calibrations
- Competency framework for personnel managing observational programmes and network

Work initiated (or soon to be)

- on competencies related to hydrometric measurements
- on skills and knowledge framework for operational forecasters to utilize the WIPPS weather and climate prediction products

Review of Capacity Development Materials Dashboard

Home > capacity development materials dashboard

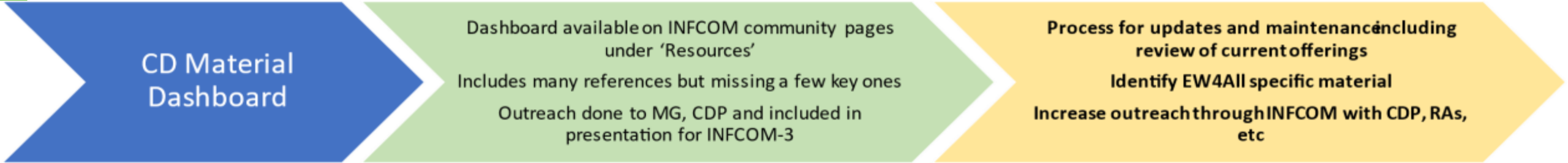
Capacity Development Materials Dashboard

ACTIVITY AREAS (1)					
Commission for Observation, Infrastructure and Information Systems (INFCOM)		Area	Newsletter	Manual and Guides	Other publications
		Information Management and Technology	WIS Newsletter Operational Newsletter	WIS Manuals Guide to WIS	
					Awareness and training materials WIS2 in a box

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

INFCOM – 3 Decision 10

(3) To 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



From Draft INFCOM Capacity Development Roadmap

Review of Capacity Development Materials Dashboard

A few considerations

1. Resource/dashboard must be open to all.
2. Architecture in line with migration to WMO new site. Coordination with secretariat expertise
3. Layout designed to be more dynamic and aligned with user needs. And must be simple to update regularly.
4. Project plan, scoping of needs and options to be developed. Options to be vetted by Coordination Mechanism on CD focal points in addition to other users
5. Consider previous experiences and expertise with similar initiatives (ex: ETR, expertise from Infrastructure Dpt and others).
6. Awareness of plans for the WMO Moodle, Global Campus would be useful
7. Process for updates to site must be identified, as well as eventual outreach



Surveys to INFCOM Coordination Mechanism on Capacity Development

Part 1: To further detail some of the activities and challenges related to CD and training

- Metadata for development and delivery of training
- Coordination with RTCs and other partnerships
- Other topics such as learning needs assessments; post-training information
- Challenges
 - (1) Impacts of turnover rate for observers or technicians as well as needs for succession planning
 - (2) Shortage of trained personnel and trainers (especially for onsite training);
 - (3) Limited number of experts in specialised domains to support training
 - (4) Availability of material and delivery in various languages
 - (5) Budget/costs: High demand for training in resource limited context; budget constraints for in-person training for focal points
 - (6) Needs assessments, post-assessments and level of engagement

Surveys to INFCOM Coordination Mechanism on Capacity Development

Part 2 : Identify priority topics to enhance proficiency in CD/training processes within the coordination mechanism (and within the community of practice)

- Topics to further support capacity development initiatives and community of practice:
 - Principles of the WMO Capacity Development Framework
 - Best practices in the development of material for WMO Moodle platform
 - How to implement a competency management approach
 - Principles in developing Train-the-trainers capacity
 - How to develop needs assessments
 - Assessing learning and the training process
- Sharing experiences, lessons learned or a case study by the CD Coordination mechanism focal points?
 - Mostly in developing learning activities and how to use the moodle platform
 - Insights in developing/delivery of training
 - Needs analysis
 - Satellite/Vlab: 1. Scaling satellite meteorology training across Africa; Regional collaboration and RTCs linkage for Satellite capacity development; Developing satellite skills/competency through Regional Networks
 - WIS 2: Lessons learned in providing training and case studies



Summary

The INFCOM Coordination Mechanism on capacity development is increasingly developing a CD/training community of practice based on opportunities to share knowledge, expertise and awareness of other initiatives, with support from the secretariat.

Next steps: continue to focus on these and other key priorities of Decision 10, in close collaboration with the broader community engagement in capacity development and training, the Capacity Development Panel, Regional bodies, SERCOM, RB and other partners.



Thank you!



WORLD
METEOROLOGICAL
ORGANIZATION

