



HYDROMETEOROLOGICAL AND ENVIRONMENTAL INDUSTRY ASSOCIATION

WMO-HMEI RTC Collaboration

CDP-8

6 February 2024

Agenda item 7, Proposal for Collaboration between HMEI and RTCs

Joshua Campbell | Chair of HMEI

HMEI – Introduction



HMEI seeks to **build trust** by aligning public, private, and academic capabilities on initiatives and resolutions that will **empower WMO Members** to carry out their duty to **protect** and **enhance** the lives and livelihoods of their citizens.

❖ Vision:

- ❖ **Empowering** the weather, water and environmental community, **strengthening** partnerships across public, private and academic sectors, **protecting** lives and **enabling prosperity** for all.

❖ Mission:

- ❖ We execute our Vision by facilitating open communication and **close collaboration**, helping **implement standards**, and **fostering innovation** that **promotes sustainability**.

HMEI – Commitment



HMEI seeks to build trust as we:

- ❖ **Affirm and support** the central role of NMHSs as the authoritative voice for public health and safety
- ❖ **Share** our technical expertise with, and learn from the WMO, WMO Members, and other international organizations to ensure policies are informed and implemented with the **best science, innovation, and practices**
- ❖ **Engage** with the WMO to **align** public, private, and academic initiatives that will empower WMO Members to achieve their objectives

How WMO & HMEI Began This Exploration



Each year the WMO Secretariate Leadership and HMEI Executive Council hold a High Level Consultative Meeting (HLCM) where potential initiatives are shared. Engagement with Regional Training Centers (RTCs) and HMEI members was recognized as a potential area of collaboration.

- ❖ Developing a proposal to engage with RTCs to build local and regional capacity
- ❖ Exploration and advice from those at CDP-8 is greatly appreciated

Exploration and Dialogue



- ❖ **Identify impactful ways** HMEI can:
 - ❖ Increase **local** and **regional capacity**
 - ❖ **Enhance** the **implementation** of EW4A and GBON (not promotional pitches, but sessions on measurement, communication, data transfer, data assimilation, modeling, forecasting, warnings and watches, etc.)
- ❖ **Explore** where we can jointly **increase** local and regional **capacity** by **engaging** with CDP & RTCs

Global Coverage



I saw this map with several dots, nicely dispersed around the globe. I then thought, “What a nice infrastructure to engage with as a community, to teach and learn together, and build capacity to tackle the challenges of EW4A and GBON. How can we engage in a meaningful way?”



A Match between WMO RTC and HMEI goals

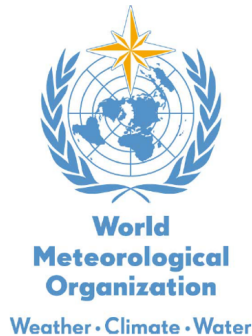


I saw the 43 pages of [guidelines](#) and the match between annex II & III with respect to HMEI's purpose.

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WORLD METEOROLOGICAL ORGANIZATION

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Guidelines for Designation or Reconfirmation of WMO Regional Training Centres (RTCs)

- ❖ To reinforce regional cooperation...
- ❖ To improve awareness of the capabilities of RTCs.
- ❖ To improve the planning of human resources development.
- ❖ To encourage lifelong learning and continuing professional development.
- ❖ To improve the content of education and training programs.
- ❖ To enhance the learning process.
- ❖ To improve access to training materials.
- ❖ To strengthen the role of the Education and Training Program.

Annex-II : Role and Operations of RTCs

(Steps to improve the education and training provided through RTCs)

(a) **To reinforce regional cooperation in the organization** an existing arrangements for identifying regional training need monitoring the effectiveness of RTCs to satisfy these needs Regional Associations in partnership with the RTCs and the

Annex-III : Suggested Questions for the Review of the RTC

Compliance with the EC Criteria for the designation of Regional Training Centres
<p>1.0 Identification of learning needs</p> <ul style="list-style-type: none"> • How are training needs of WMO Members in the Region identified?

A Couple Ideas for Discussion and Input

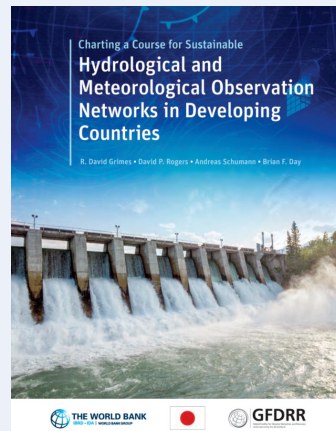


Idea 1:

Engage in Topical Training

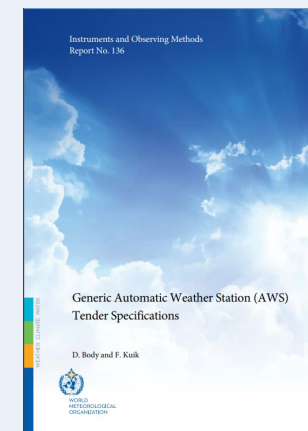
- ❖ How to plan for the establishment of an observation network
- ❖ How to plan for sustainable operations of an observation network
- ❖ How to tender for an observation network
- ❖ Other topics...

Publications



Charting a Course for Sustainable Hydrological and Meteorological Observation Networks in Developing Countries

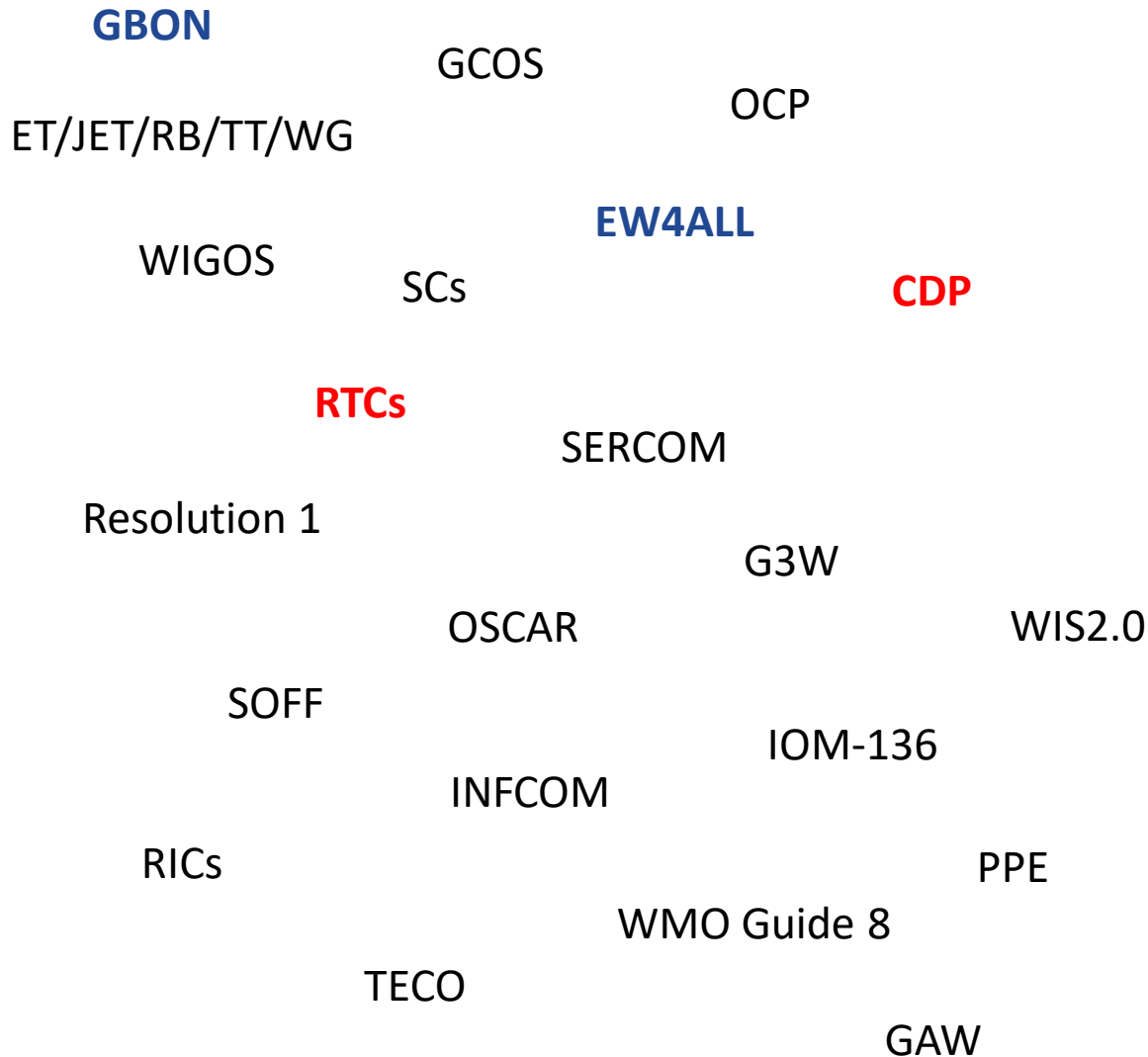
[Link to doc](#)



Generic Automatic Weather Station (AWS) Tender Specifications

[IOM-136](#)

A Couple Ideas for Discussion and Input



Idea 2: Specific Training

- ❖ Specific training on a particular project
- ❖ Specific training on a particular technology
- ❖ Perhaps this is arranged between a specific RTC and HMEI member, to conduct capacity building training that is part of a deliverable to an NMHS.
- ❖ Specific training on...

Disaster risk knowledge
Systematically collect data and undertake risk assessments

- Are the hazards and the vulnerabilities well known by the communities?
- What are the patterns and trends in these factors?
- Are risk maps and data widely available?

Detection, observations, monitoring, analysis and forecasting of hazards
Develop hazard monitoring and early warning services

- Are the right parameters being monitored?
- Is there a sound scientific basis for making forecasts?
- Can accurate and timely warnings be generated?

Preparedness and response capabilities
Build national and community response capabilities

- Are response plans up to date and tested?
- Are local capacities and knowledge made use of?
- Are people prepared and ready to react to warnings?

Warning dissemination and communication
Communicate risk information and early warnings

- Do warnings reach all of those at risk?
- Are the risks and warnings understood?
- Is the warning information clear and usable?

A Couple Ideas for Discussion and Input

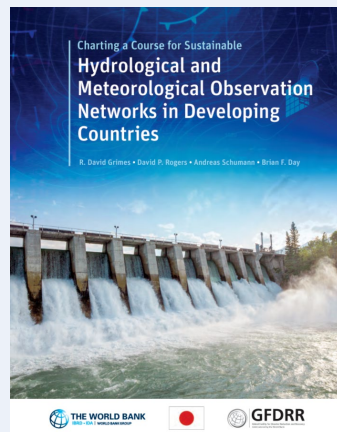


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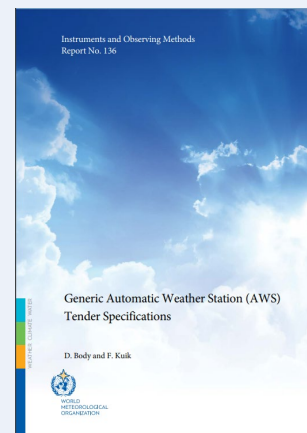
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[Link to doc](#)
[IOM-136](#)




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Ideas & Input – Dialogue



In my meeting with Professor Saulo last week, she communicated that it is imperative that we work together to **build** "local" and "regional" **capacity** to bring about sustainable operations of NMHSs worldwide.

What ideas and input might you have with regard to how HMEI, CDP, and RTCs can work together to build local and regional capacity?

- ❖ Idea... ..Maybe a TT is created to identify the top 2 capacity gaps in each region. Then additional TTs can be created to execute specific prioritized activities (engaging with HMEI) to address those gaps in a specific region.

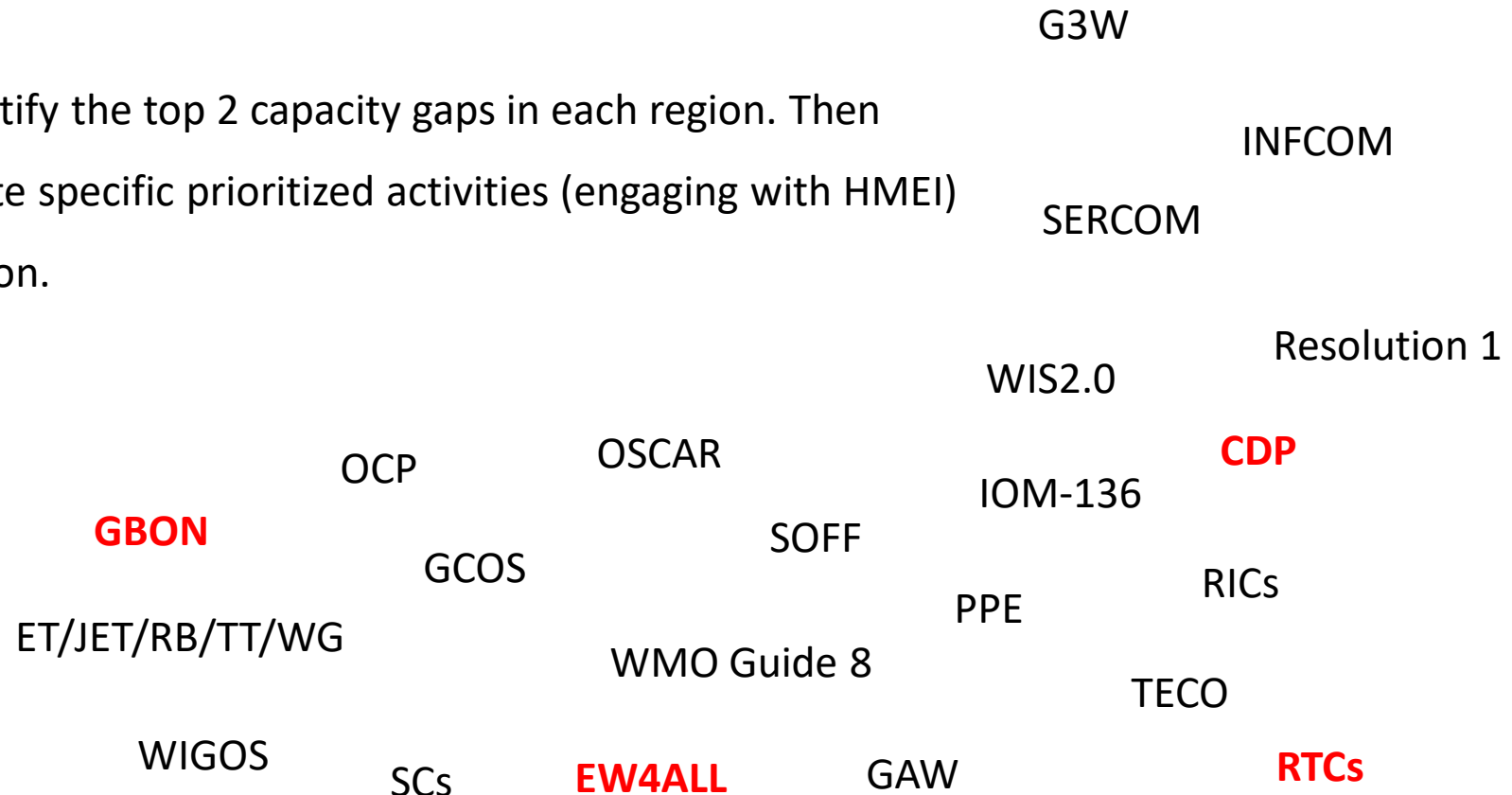
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❖ Idea...

❖ Input...

❖ Input...

❖ Input...





Thank You

Please Send Additional Input To:

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