WEATHER CLIMATE WATER TEMPS CLIMAT EAU

CAPACITY DEVELOPMENT IN THE CONTEXT OF SERVICES



WMO OMM

World Meteorological Organization Organisation météorologique mondiale

CAPACITY DEVELOPMENT FRAMEWORK (IN PLACE AND ONGOING)

- Personnel competency and qualification standards
- Capacity development Guidelines based on WMO-No. 1133
- Capacity development training
- Quality management systems requirements and ISO certification
- Performance metrics, reflecting capacity development
- Extrabudgetary (XB) technical advisory services and direct implementation support
- "Cascading" operational support to Members (circulation of data and products among NMHSs, regional and global centers)
- Capacity development related flagship products and communication



Guide to Competency

2018 edition

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WORLD WORLD METEOROLOGICAL ORCANIZATION

WHICH AND

Compendium of WMO Competency Frameworks

WORLD METEOROLOGIC ORGANIZATION

WMO Capacity Development Strategy and Implementation Plan



Competency

Capacity Development for Climate Services: Guidelines for National Meteorological and Hydrological Services



METEOROLOGICAL ORGANIZATION



Guidelines



WMO Internal use only ENHANCING MARINE WEATHER FORECASTING

SERVICES

Implementation Plan March 2020

Joint Initiative by: MAR Division (Services Department) WORLD ETR Office (Member Services & Development Department) ORCANIZATION

WMO OMM

Training

Guidelines on Quality Management in Climate Services

Quality Management

N11-----



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Performance

metrics

Status: GLOBA

Out of 95 countries that have provided data to WMO, 5 (5%) are providing climate services at a less than basic level, 24 (25%) at a basic level, 24 (24%) at an areanial level, 13 (14) at a plul level and 11 (2%) at an advanced level according to WMO criteria (see page 9). Data from additional countries mill provide a more complete profile of capacities, needs and pages country and regional level.

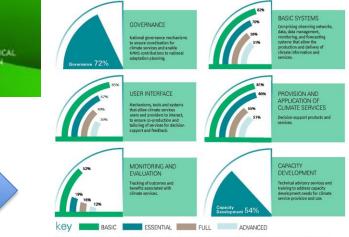
Current Global Needs

Globally, data from a checklist of climate services-related functions provided by selected WMO Members to date show that there has been progress in governance, implementation of basic hydrometeorological systems, and stakeholder engagement for the implementation of climate services. However, institutional capacities need to be strengthened in

many countries and in some regions, particularly to complete the dimate services value chain of adaptation planning and decision making, and to document associated socioeconomic benefits. Additional research is needed to improve underlying prodictions and projections as well as underlying observations and data, and to transition research results into operation. The latter will entail interactions between the research and operational communities to address the needs of users, stakeholders and docision makers. Further strengthening of systems operationalization is needed to promote the orchungs of CPCS relevant data and produced outries. Monitoring and evaluation of the results and benefits of the use of climate services remains consistently weak acress all regions.

ries have established basic functional

icities needed to support specifi e sector are often still lacking.



The parentages of "yes" answers to checklist questions addressing each of the above areas is shown in the graphs, based on data from 95 countries who provided data to WMC. Many of the functional capacities assessed by the checklist constitute "basic", "searetist", "full" or "advanced" functionalities. The graphs show the percentages of "yes" and "more responses to the questions in each of the above areas, for each functional capacity level, from the data provided.

Flagship products



5

RECOMMEDATIONS FOR AN INTEGRATED CAPACITY DEVELOPMENT STRATEGY

- Adherence to the overall WMO capacity development framework
- Costed comprehensive NMHS capacity development plans for incorporation in XB projects and budgets in a standard format
- Seamless earth system approach for enhancing operational support and service delivery, with exchange of data and products among national, regional and global centers
- Full value-chain XB projects as integrators, and enablers of comprehensive peer-to-peer support
- NMHS certification at multiple capacity levels by WMO to complement ISO



CONSTITUENT BODY COORDINATION

- SERCOM All Standing Committees and Study Groups incorporate capacity development
- Hydrological Coordination Panel (discussed separately)
- Climate Coordination Panel CDP representation in the membership
- WMO-IOC Joint Collaborative Board (JCB) (discussed separately)



OTHER RELEVANT ISSUES

- Difference between service areas that were previously covered by commissions and those that were not
- Permanent Representative orientation on NMHS role in high level United Nations policy and joint action
- Working with partners (UN agencies, regional and national organizations)
- Sustainability of developed capacities



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