

WMO Data Conference Stakeholder Consultation

Research Data and WMO Data Policy: Evolution of WMO Data Policy



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale

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CONVENTION OF THE WORLD METEOROLOGICAL ORGANIZATION

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PART II

ARTICLE 2

Purposes

The purposes of the Organization shall be:

(a) To facilitate worldwide cooperation in the establishment of networks of stations for the making of meteorological observations as well as hydrological and other geophysical observations related to meteorology, and to promote the establishment and maintenance of centres charged with the provision of meteorological and related services;

(b) To promote the establishment and maintenance of systems for the rapid exchange of meteorological and related information;

(c) To promote standardization of meteorological and related observations and to ensure the uniform publication of observations and statistics;

(d) To further the application of meteorology to aviation, shipping, water problems, agriculture and other human activities;

(e) To promote activities in operational hydrology and to further close cooperation between Meteorological and Hydrological Services; and

(f) To encourage research and training in meteorology and, as appropriate, in related fields and to assist in coordinating the international aspects of such research and training.



Resolution-40

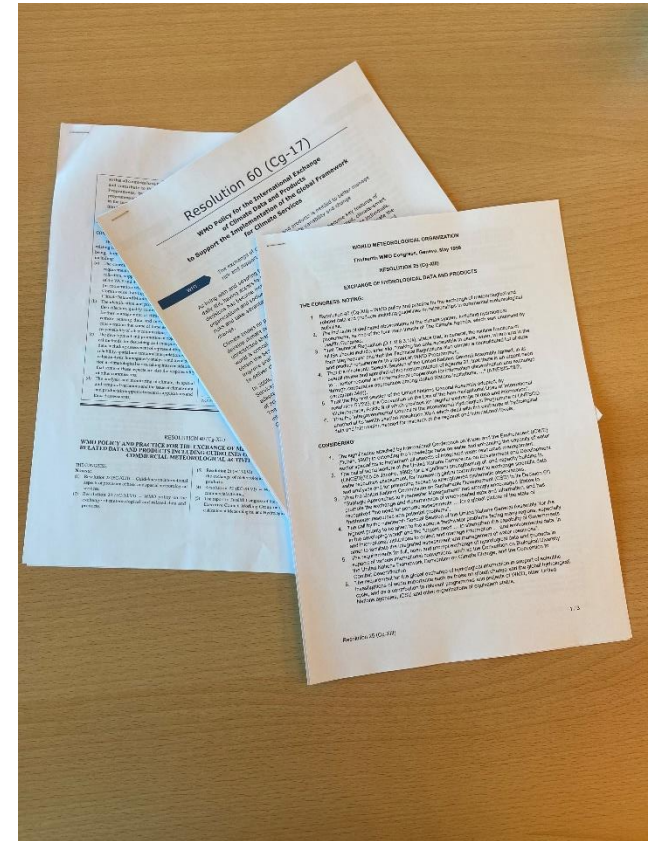
Meteorological and related data
12th WMO Congress in 1995

Resolution-25

Hydrological data and products
13th WMO Congress in 1999

Resolution-60

Climate data and products
17th WMO Congress in 2015





ADOPTS the following policy on the international exchange of meteorological and related data and products:

As a fundamental principle of the World Meteorological Organization (WMO), and in consonance with the expanding requirements for its scientific and technical expertise, WMO commits itself to broadening and enhancing the free and unrestricted¹ international exchange of meteorological and related data and products;

¹ “Free and unrestricted” means non-discriminatory and without charge [Resolution 23 (EC-XLII) – Guidelines on international aspects of provision of basic and special meteorological services]. “Without charge”, in the context of this resolution means at no more than the cost of reproduction and delivery, without charge for the data and products themselves.

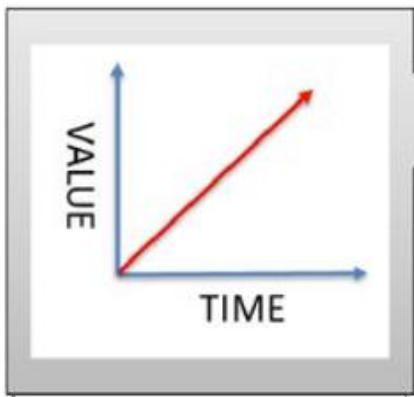


← Observations



↓ Observations

Forecast products →



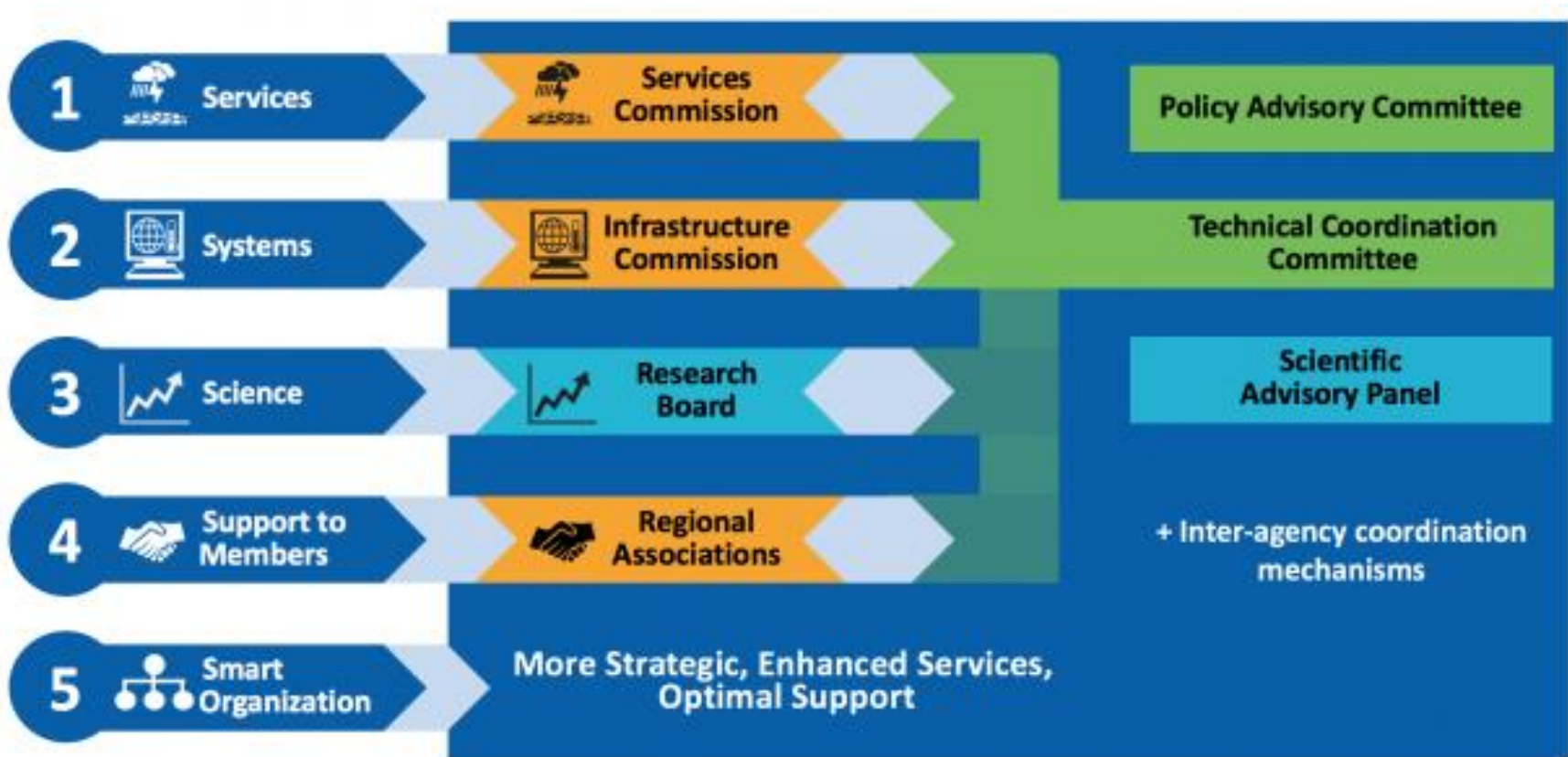
Forecast Systems

Meteorologists



Services

Impact and Value



Data Challenges – there are a few

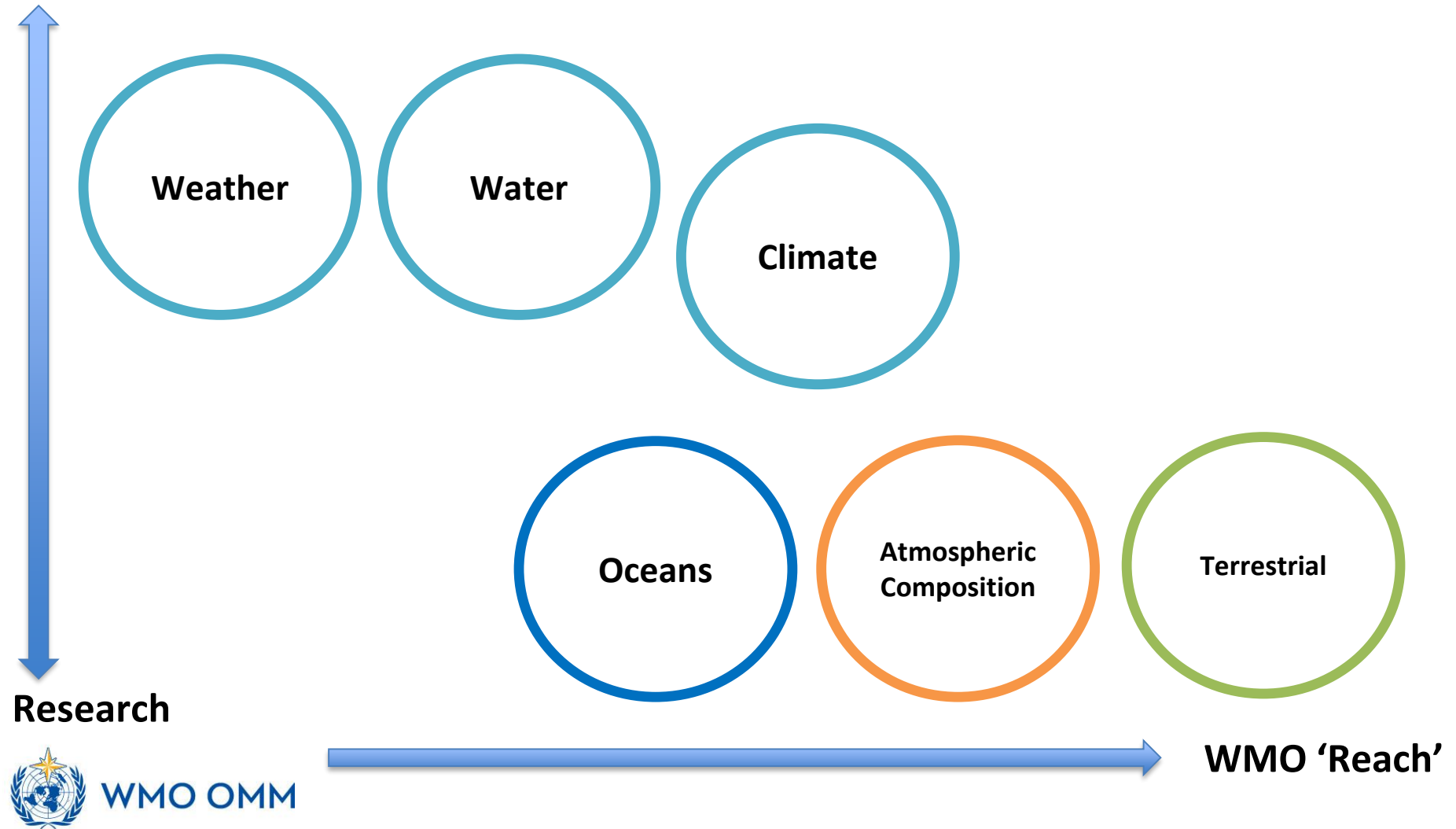
Social media Localised services Meeting basic obligations Sensor webs
Digital delivery on demand User capabilities increasing More data, more often
Personalised services User expectations increasing Commercial data Communications costs
Environmental change
More extreme weather
More agile competitors
Single authoritative voice
Build or buy Populations at risk
Quality monitoring Discoverability Automation Building partnerships
Infrastructure at risk Keeping up with technology change Internet of Things
Verification Sourcing/Retaining skilled staff Data/metadata management
Interoperability with user data Business continuity Compliance with regulations
Performance monitoring Licence conditions Revenue potential Sustainability
Research vs operational data More diverse data platforms
Enabling new science Emerging compute technologies Data ownership and rights



Earth System Prediction

a complex landscape

Operations





Thank you Merci



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