

WMO Data Conference Stakeholder Consultation

Hydrological Data and WMO Data Policy: Evolution of WMO Data Policy from 1950 to today



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale

Dr Anthony Rea
Director, Infrastructure Department
19 October 2020



CONVENTION OF THE WORLD METEOROLOGICAL ORGANIZATION

			<i>Page</i>
PART I	— Establishment	Article 1	6
PART II		Article 2 – Purposes	6
PART III	— Membership	Article 3 – Members	7
PART IV	— Organization	Article 4	8
		Article 5	9
PART V	— Officers of the Organization and Members of the Executive Council	Article 6	9
PART VI	— The World Meteorological Congress	Article 7 – Composition	10
		Article 8 – Functions	10
		Article 9 – Execution of Congress decisions	11
		Article 10 – Sessions	11
		Article 11 – Voting	12
		Article 12 – Quorum	12
PART VII	— The Executive Council	Article 13 – Composition	13
		Article 14 – Functions	13
		Article 15 – Sessions	14
		Article 16 – Voting	15
		Article 17 – Quorum	15
PART VIII	— Regional associations	Article 18	15
PART IX	— Technical commissions	Article 19	16
PART X	— The Secretariat	Article 20	16
		Article 21	17
		Article 22	17



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

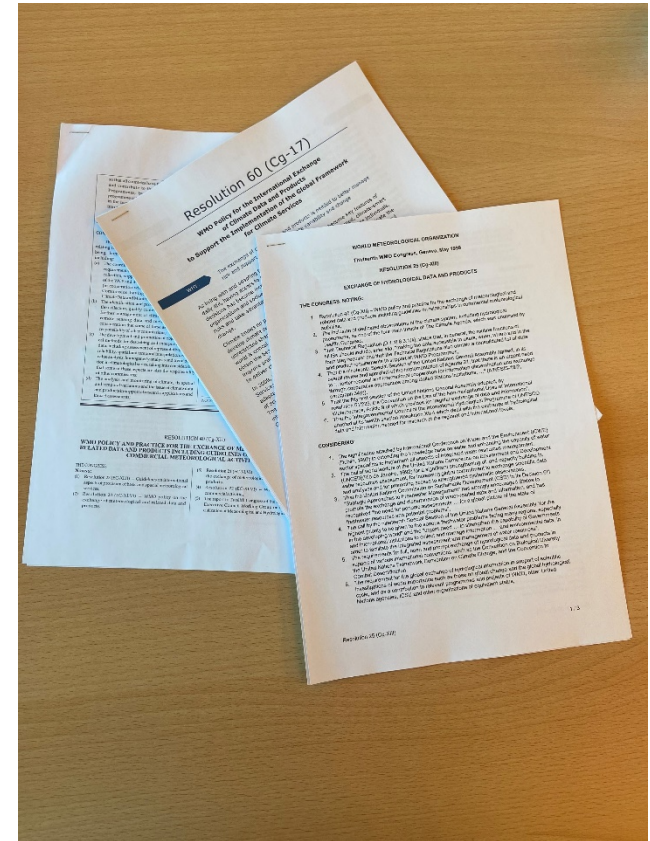
Meteorological and related data
12th WMO Congress in 1995

Resolution-25

Hydrological data and products
13th WMO Congress in 1999

Resolution-60

Climate data and products
17th WMO Congress in 2015

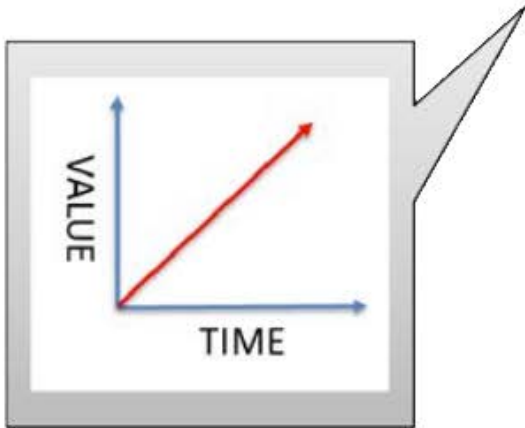




ADOPTS the following policy on the international exchange of meteorological and related data and products:

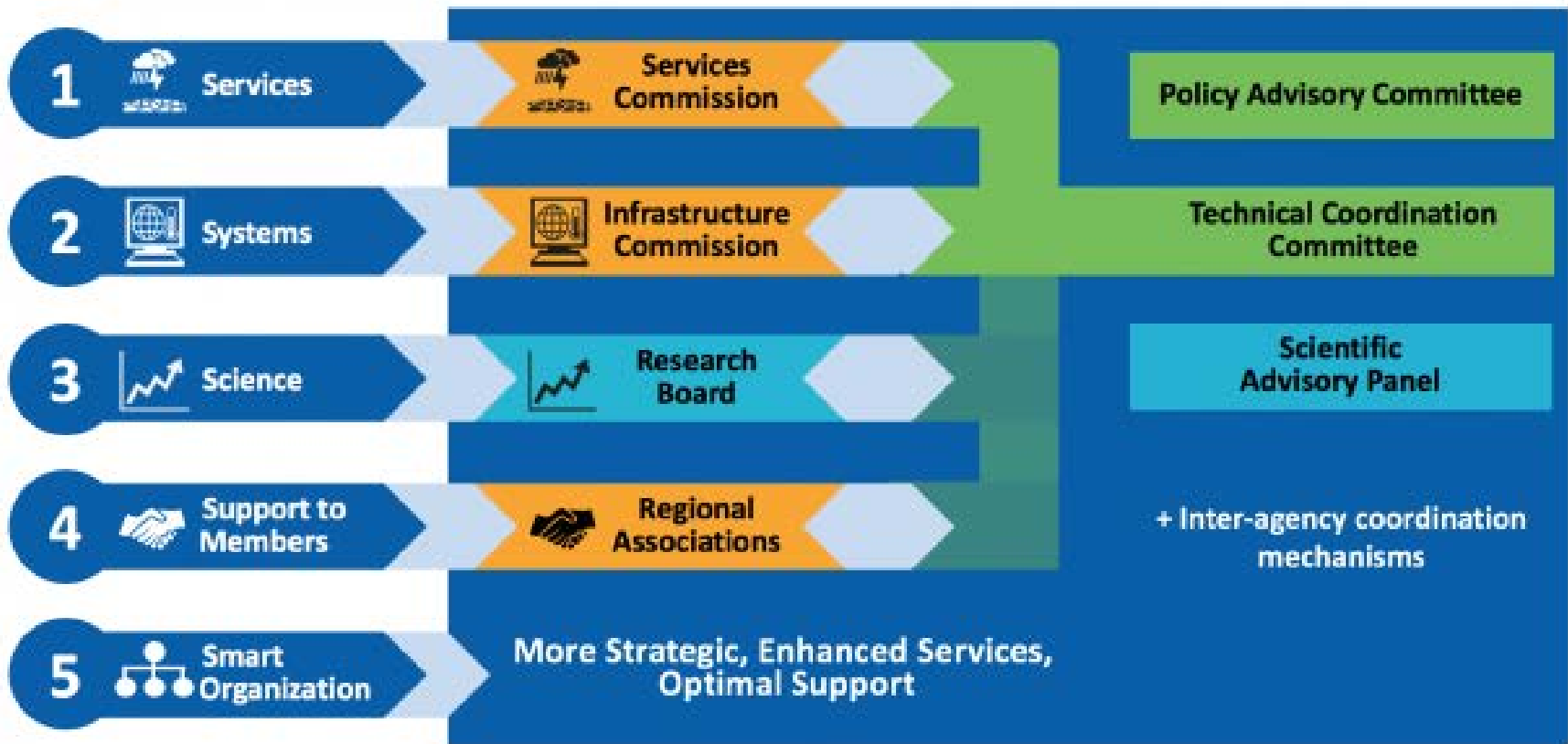
As a fundamental principle of the World Meteorological Organization (WMO), and in consonance with the expanding requirements for its scientific and technical expertise, WMO commits itself to broadening and enhancing the free and unrestricted¹ international exchange of meteorological and related data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



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

Making investment choices

More extreme weather

More diverse data providers

More agile competitors

Data for sale Cloud vs local

Single authoritative voice

Resource pressure Traceability

Build or buy

Populations at risk

Reliance on bespoke systems

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

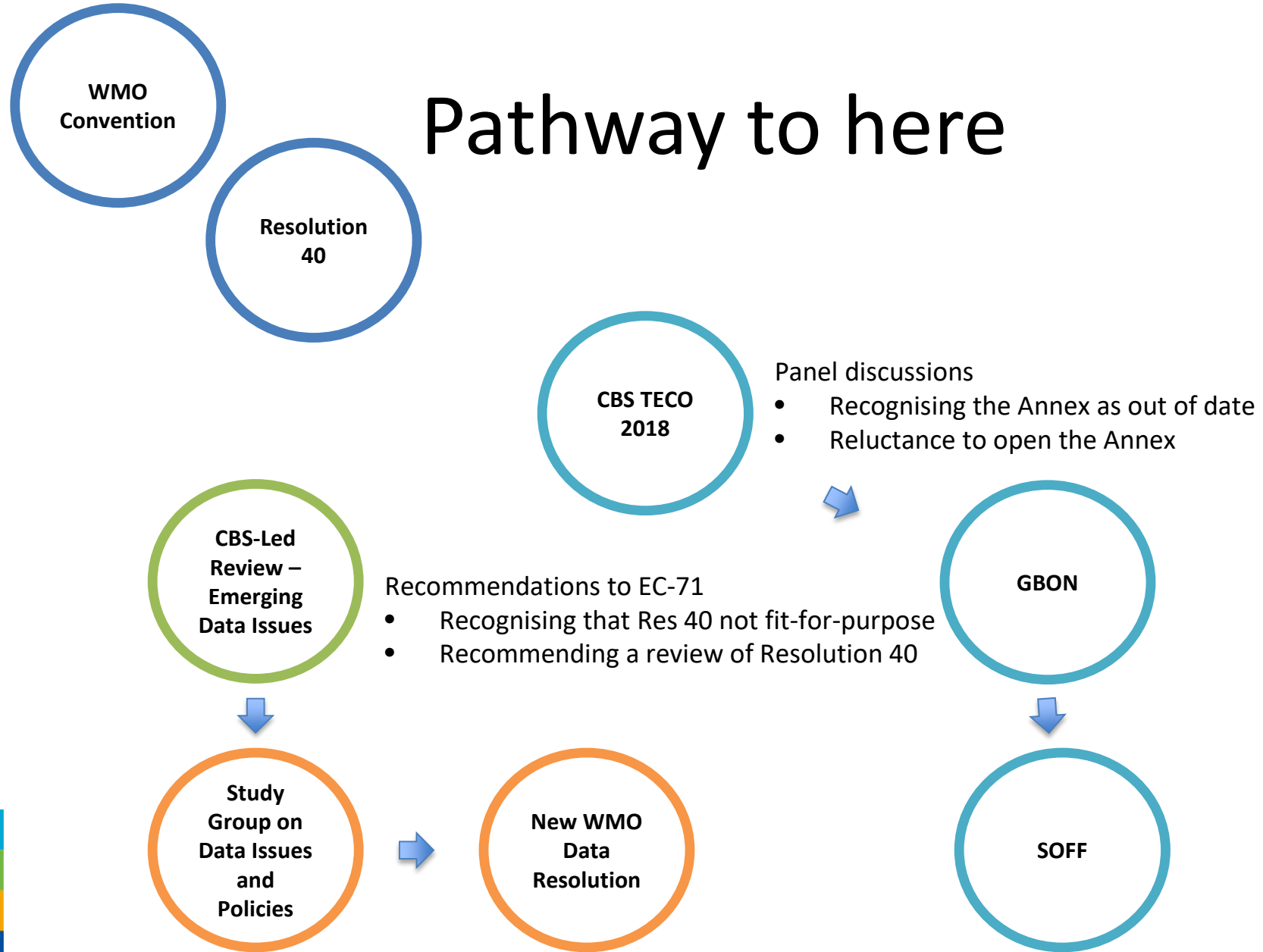
Enabling new science

Data ownership and rights

Emerging compute technologies



Pathway to here



Major Activities

**New WMO
Data
Resolution**

GBON

SOFF





Thank you Merci



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale

Dr Anthony Rea

area@wmo.int