

WMO Data Conference Workshop #3

Filling the Gaps in Global Data Coverage: The changing landscape of weather and climate data



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale

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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

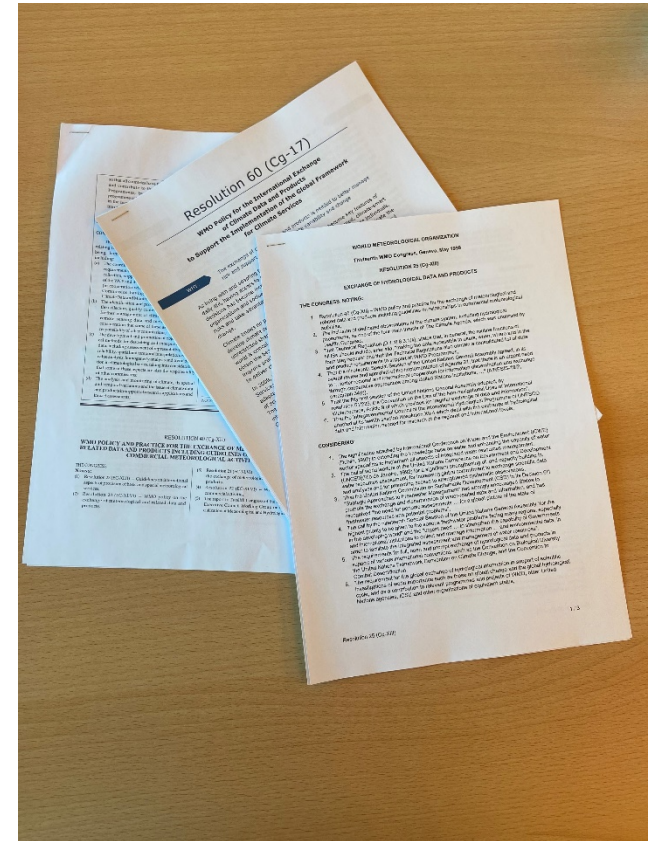
Meteorological and related data
12th WMO Congress in 1995

Resolution-25

Hydrological data and products
13th WMO Congress in 1999

Resolution-60

Climate data and products
17th WMO Congress in 2015

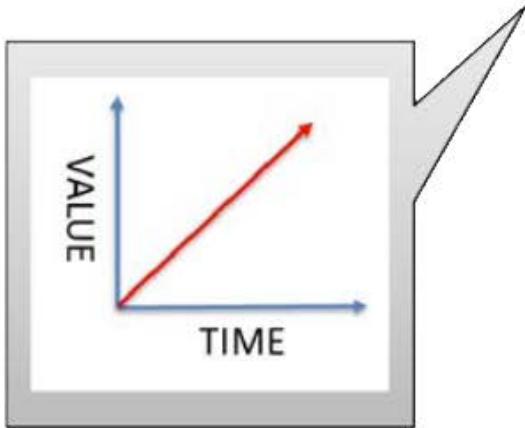




ADOPTS the following policy on the international exchange of meteorological and related data and products:

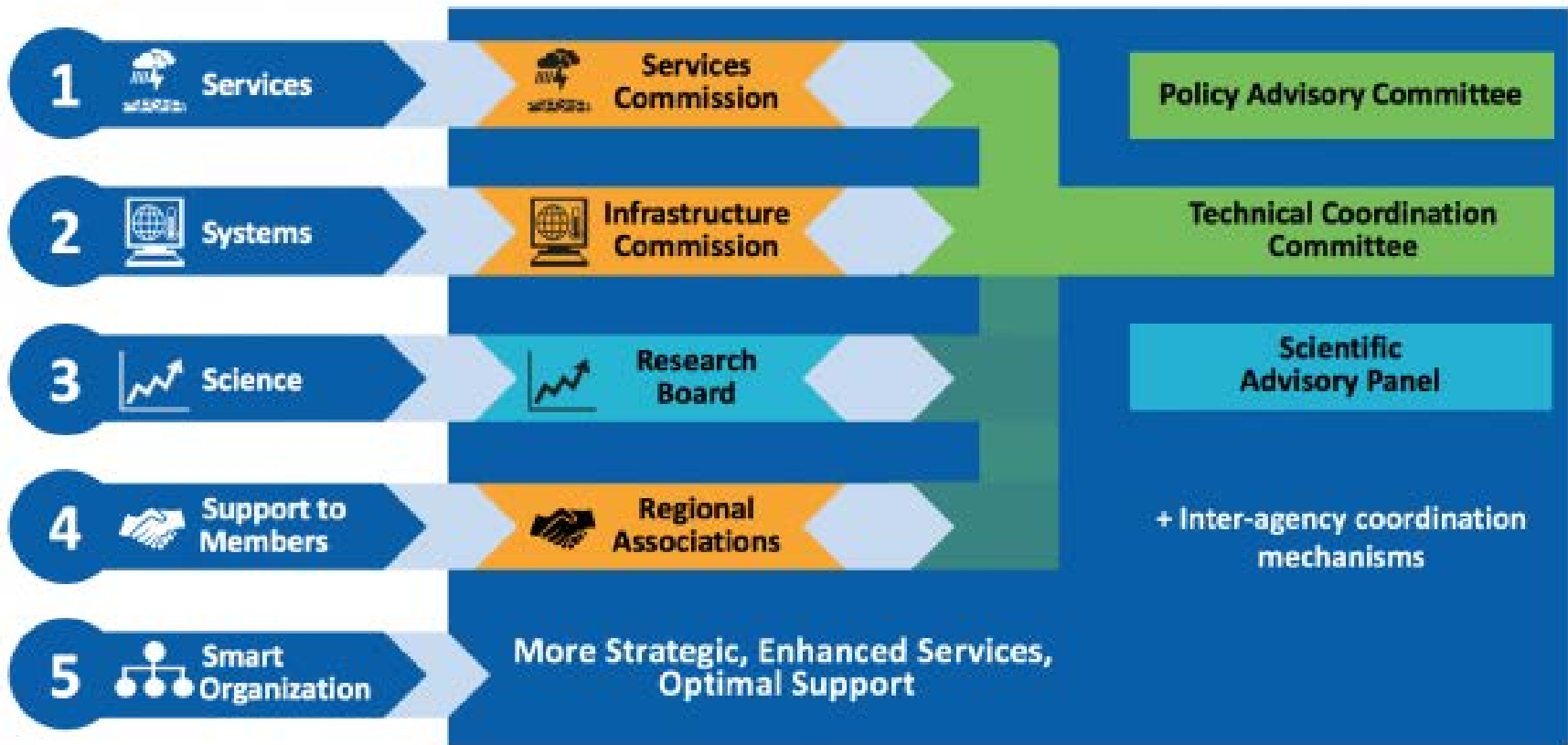
As a fundamental principle of the World Meteorological Organization (WMO), and in consonance with the expanding requirements for its scientific and technical expertise, WMO commits itself to broadening and enhancing the free and unrestricted¹ international exchange of meteorological and related data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

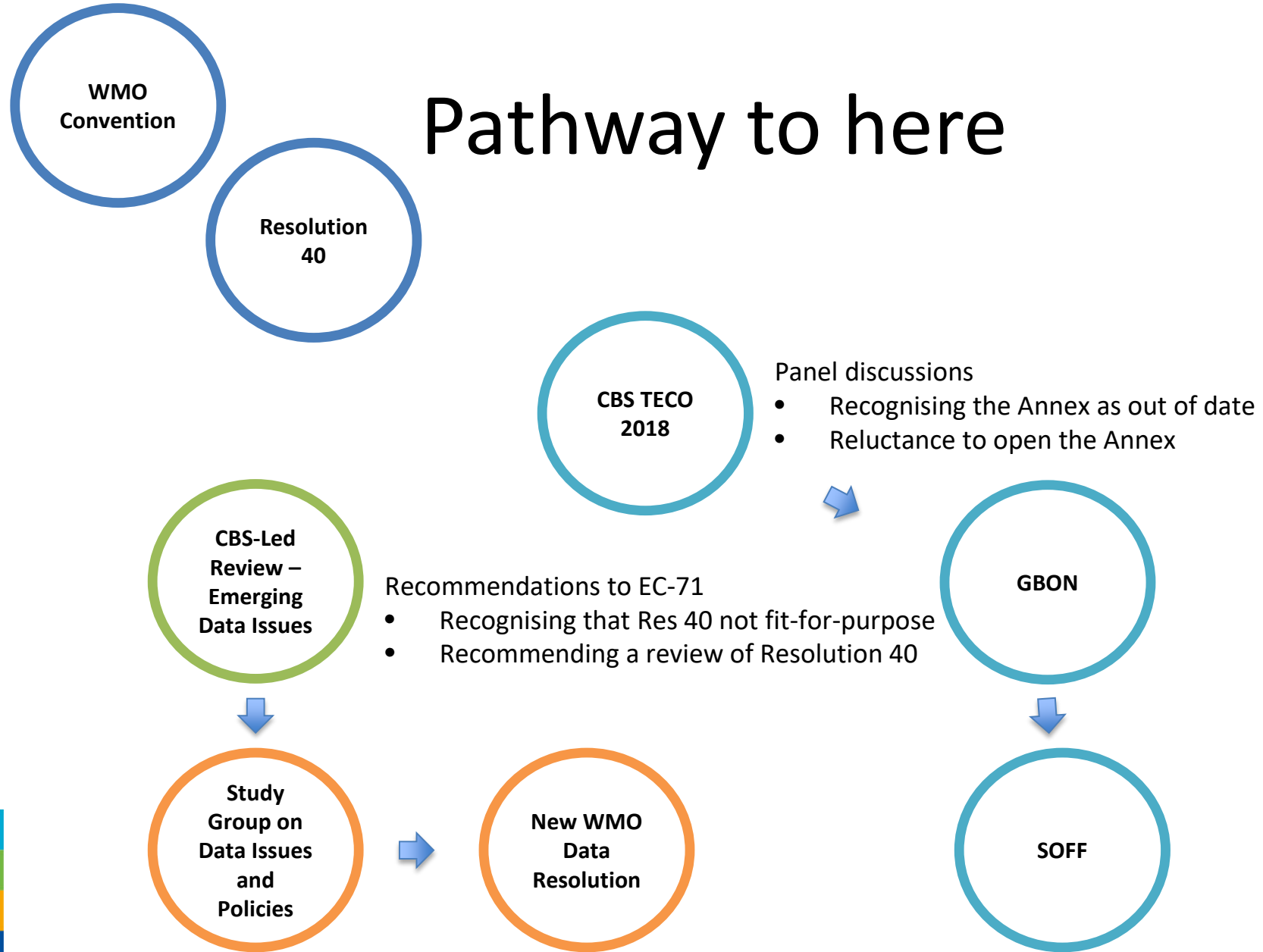
Enabling new science

Data ownership and rights

Emerging compute technologies



Pathway to here



Major Activities

**New WMO
Data
Resolution**

GBON

SOFF





Thank you Merci



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