

Vision and Strategy for Operational Hydrology & Action Plan

WEATHER CLIMATE WATER
TEMPS CLIMAT EAU

Hydrological Coordination Panel
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World Meteorological Organization
Organisation météorologique mondiale

Resolution 24 CG-18

Decides that a **Plan of Action** should be prepared better to strengthen operational National Hydrological Services and the capabilities of national service providers that will support Member states' efforts to fulfil the Long-term Ambitions

Long-term Ambitions (Cg-18)

- No one is surprised by a **flood**;
- Everyone is prepared for **drought**;
- Hydro-climate and meteorological data support the **food security agenda**;
- High-quality data **supports science**;
- **Science** provides a sound basis **for operational hydrology**;
- We have a thorough knowledge of the **water resources of our world**;
- **Sustainable development** is supported by hydrological information;
- **Water quality** is known.



Vision Statement

“A cooperative global community addressing the growing challenges related to water extremes, water availability and quality, and food security, by advancing operational hydrology, through enhanced science, infrastructure, capacity building and related services, in the context of sustainable development”



Action Plan preparation

Long-term Ambitions = GOALS



Outcomes



Outputs

Action Areas

- No one is surprised by a flood;
 - Everyone is prepared for drought;
 - Hydro-climate and meteorological data support the food security agenda;
 - High-quality data supports science;
 - Science provides a sound basis for operational hydrology;
 - We have a thorough knowledge of the water resources of our world;
 - Sustainable development is supported by hydrological information;
 - Water quality is known.
- Floods
- } Droughts and food security
- } Interfaces with science
- } Water resources management and sustainable development
- Water quality



Guiding Principles (Cg-18)

- **Hydrological data and products are a global public good: Free and unrestricted access to public and private high-quality hydrological data and products for all;**
- **Interoperability is key to improved services: Related disciplines, data, models, and risk management systems across all scales need to be interoperable and connected wherever it improves our analysis and optimization capabilities;**
- Capabilities are catalysed through digital revolution: Using the potential of the digital revolution to improve science and operations;
- Innovation and technology will improve: enabling us to benefit from new sources of information;
- Hydrological services are sustainable: ensuring that they are of high priority and of public interest, and that they are financed in a sustainable financial manner, taking into account the responsibilities and
- New actors and business models: creating a value chain from data to product/s
- Water quality: must be addressed in an integrated, holistic way, following the integrated water resources management (IWRM).

Data (quality, availability and sharing) is a crosscutting issue for achieving all ambitions



Data related outputs needed

- **Improved data policies**, financing schemes, and enhanced political arrangements to collect hydrologic data and derived products.
- Improved development, maintenance and **use of technical platforms to support data exchange for research** and science.
- **Increased availability and international exchange of hydro-meteorological data** for operational flood forecasting and early warning, and enhanced international cooperation especially for transboundary basins on free and unrestricted basis.



Data related outputs needed

- **Availability of flood and drought related data and products** with global and regional coverage for the use at national scale by Members.
- **High resolution data and modelled information availability** for actionable planning and operations at the basin scale.

Data related outputs needed

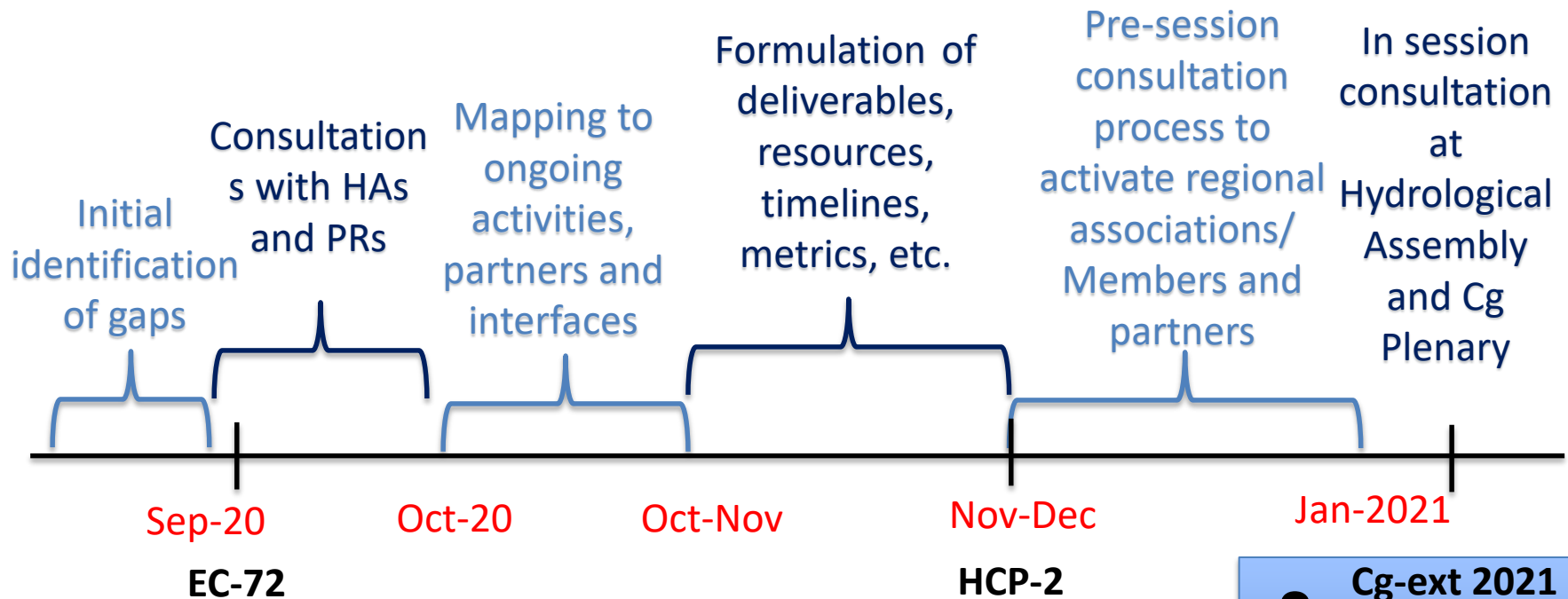
- Development of **methods for standard assessment of data quality**.
- Quality assured hydrometeorological data by NHSs generated through increased **compliance to the culture of Quality Management Framework – hydrology (QMF-H)**.
- **Increased national capacities to collect water-related data** and transform them to useful/relevant **products** through capacity building.
- Creation of **basic tools to assist members**, including an archive of relevant information, tools for transforming data to information, and maintenance of essential “treasury/heritage” variable to support SD.



Consultations

- Identification, analysis and prioritization of gaps is ongoing at:

<https://www.hydroref.com/wmo/hydrology/>



Thank You for Your attention



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