## Seamless GDPFS: Roadmap and key activities

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#### **WMO OMM**

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## Three-level structure ensures delivery of GDPFS products

**WMCs** are advanced NWP centres that can carry out the following activities:

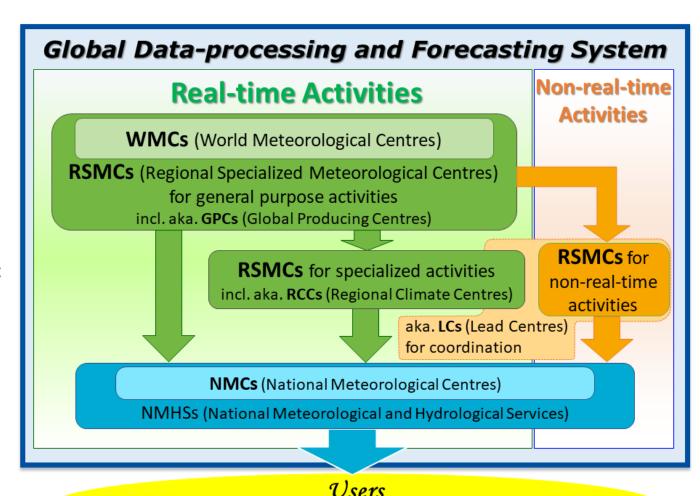
- Global deterministic NWP;
- Global ensemble NWP;
- Global numerical long-range prediction.

#### **RSMCs (Three types)**

- (1) for general purpose activities: essential data processing for a wide range of end use.
- (2) for specialized activities: tailored for a specific type of application and user community.
- (3) for non-real-time activities: to coordinate verification activities to support Members in using RSMC products.

**NMCs** prepare forecasts and warnings at all forecasting ranges necessary to meet the requirements of the Member.





(Public, Media, Humanitarian Agencies . . . )

### Why the 'Seamless' GDPFS?

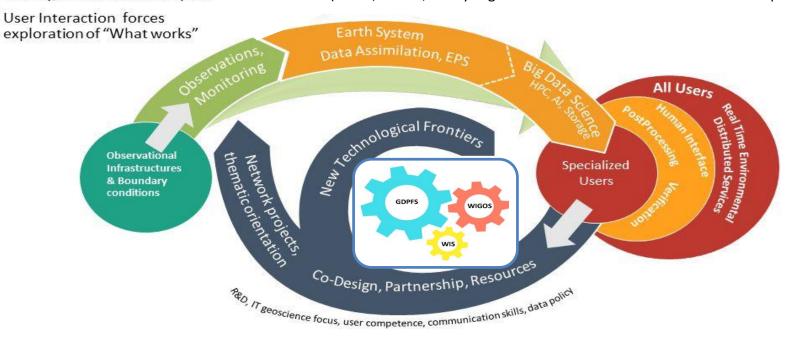
compartments of the Earth system, but also all disciplines of the weather-climate-water-environment value chain (monitoring and observation, models, forecasting, dissemination and communication, perception and interpretation, decision-making, end-user products) to deliver tailor-made weather, climate, water and environmental information covering minutes to centuries and local to global scales"

"In the context of WMO, seamless prediction considers not only all

(WMO/WWRP, Catalysing Innovation in Weather Science: WWRP Implementation Plan 2016–2023, 2016)

#### SCIENCE FOR SERVICES JOURNEY

Quality, Relevance and Impact:



WIS, WIGOS and GDPFS are the heart of the value chain for science for services.

Without these core parts, the value chain doesn't work well.

## Vision of Seamless GDPFS (EC-68, 2016)

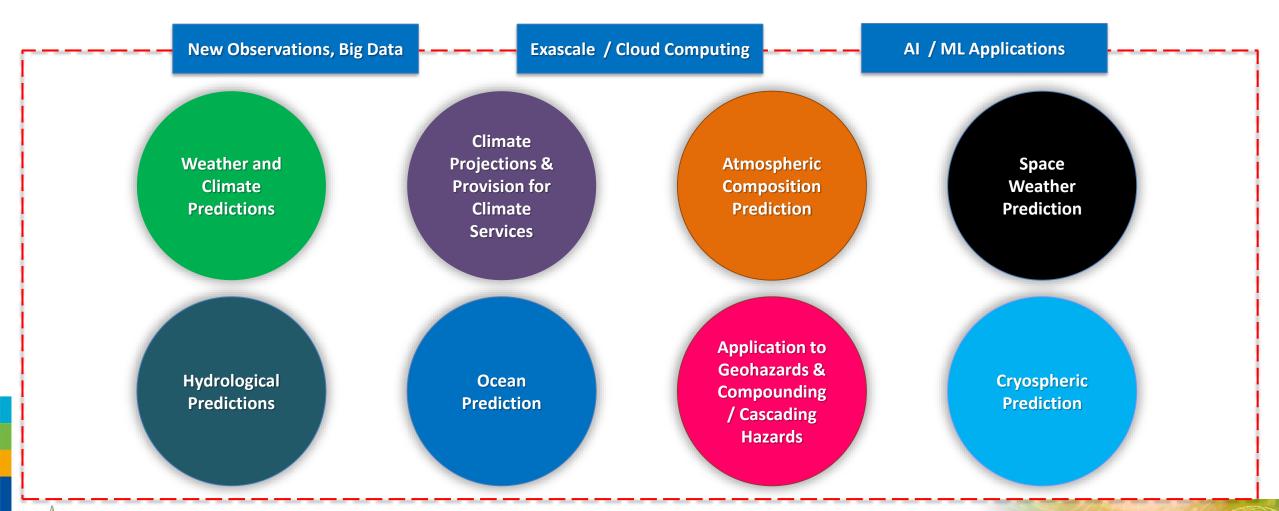
### The GDPFS will

- be an effective and adaptable monitoring and prediction system to enable Members and partners in supporting decision-makers to take better-informed decisions.
- facilitate the provision of impact-based forecasts and risk-based warnings through partnership and collaboration.
- do so through the sharing of weather, water, climate and related environmental data, products and services in a cost-effective, timely and agile way, with the effect of benefitting all WMO Members, while also reducing the gaps between developed and developing Members.



### **Strategic Components in S/GDPFS**

Consolidating research and innovation into Earth System Modelling and Predictions





### S/GDPFS Roadmap Development (2021-2026)

Key areas: Accessibility

Science and Innovation Visibility and capacity building

**System and Services** 

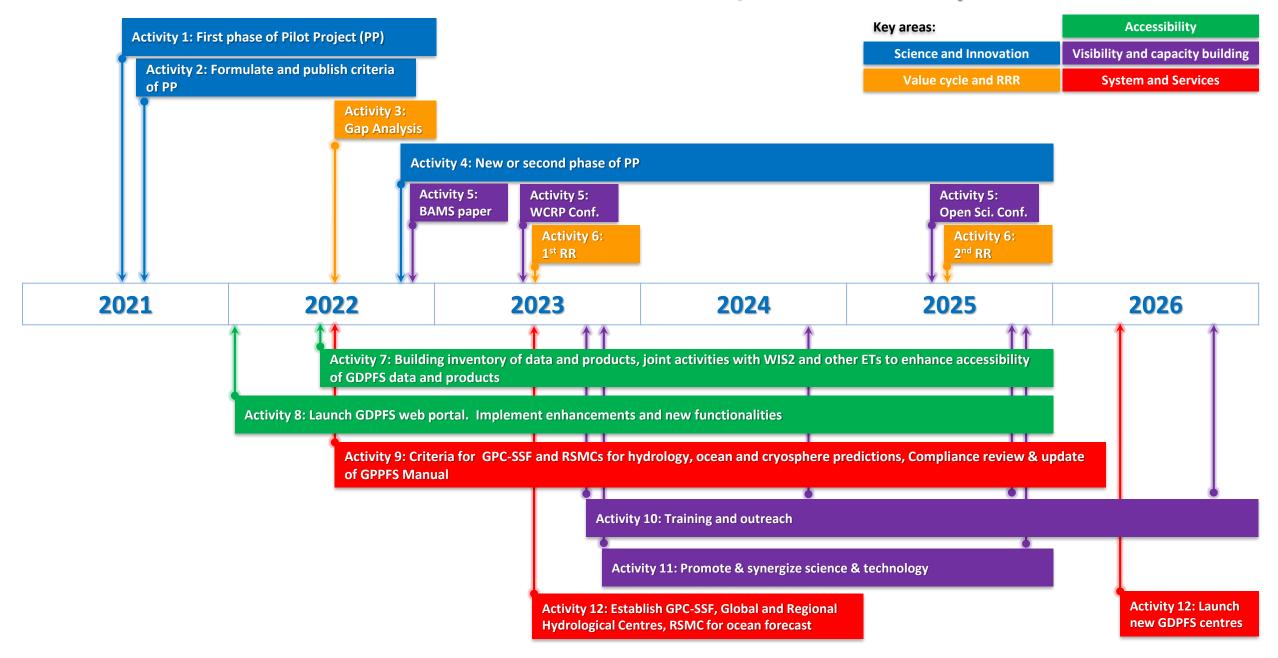
Value cycle and RRR

WMO OMM

2021 2022 **Activity** 2023 2024 2025 2026 1. First phase of Pilot Project (PP) 2. Formulate and publish criteria of PP 3. Gap Analysis 4. New or second phase of PP **BAMS WCRP Open Sci 5. Communication of S/GDPFS objectives** Conf. Conf. paper 6. Rolling review of S/GDPFS development 1st RR 2<sup>nd</sup> RR Building inventory of data and products, joint activities with WIS2 7. Enhance accessibility of S/GDPFS product and other ETs to enhance accessibility of GDPFS data and products 8. Development of S/GDPFS Portal Launch GDPFS web portal and implement enhancements and new functionalities Criteria for GPC-SSF, RSMCs for hydrology, ocean and cryosphere prediction, 9. Design criteria of new GDPFS centres **Compliance review & update of GPPFS Manual** 10. Training and outreach activities 11. Promote and synergize new science / technology **Establish GPC-SSF, Hydrological Establish** 12. Designation of new GDPFS centres Centre, RSMC for ocean new centres

### **Deliverables and Milestones of S/GDPFS Roadmap**





# Thank you Merci



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