

Seamless GDPFS: Roadmap and key activities

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WMO OMM

World Meteorological Organization
Organisation météorologique mondiale

Three-level structure ensures delivery of GDPFS products

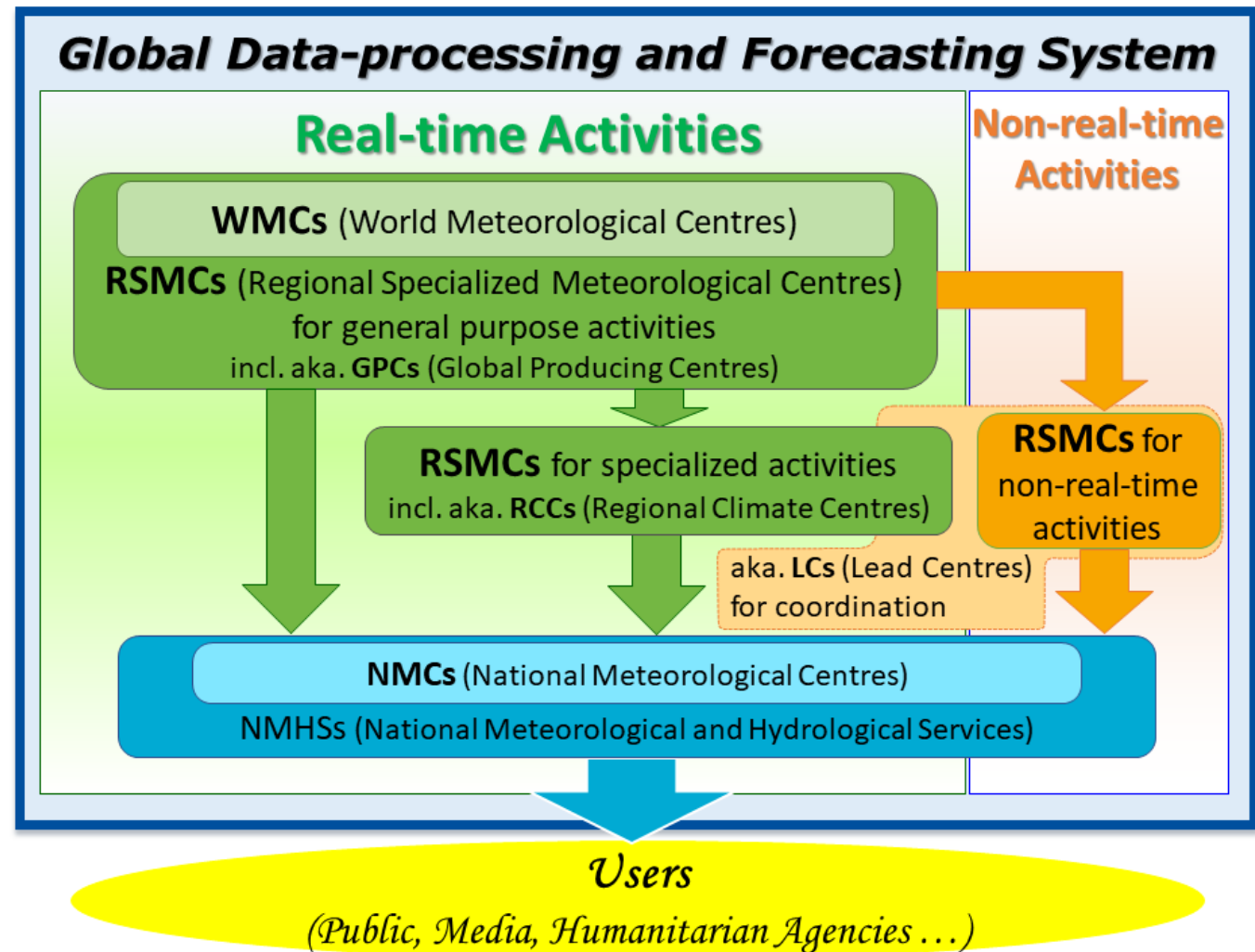
WMCs are advanced NWP centres that can carry out the following activities:

- 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.



Why the ‘Seamless’ GDPFS?

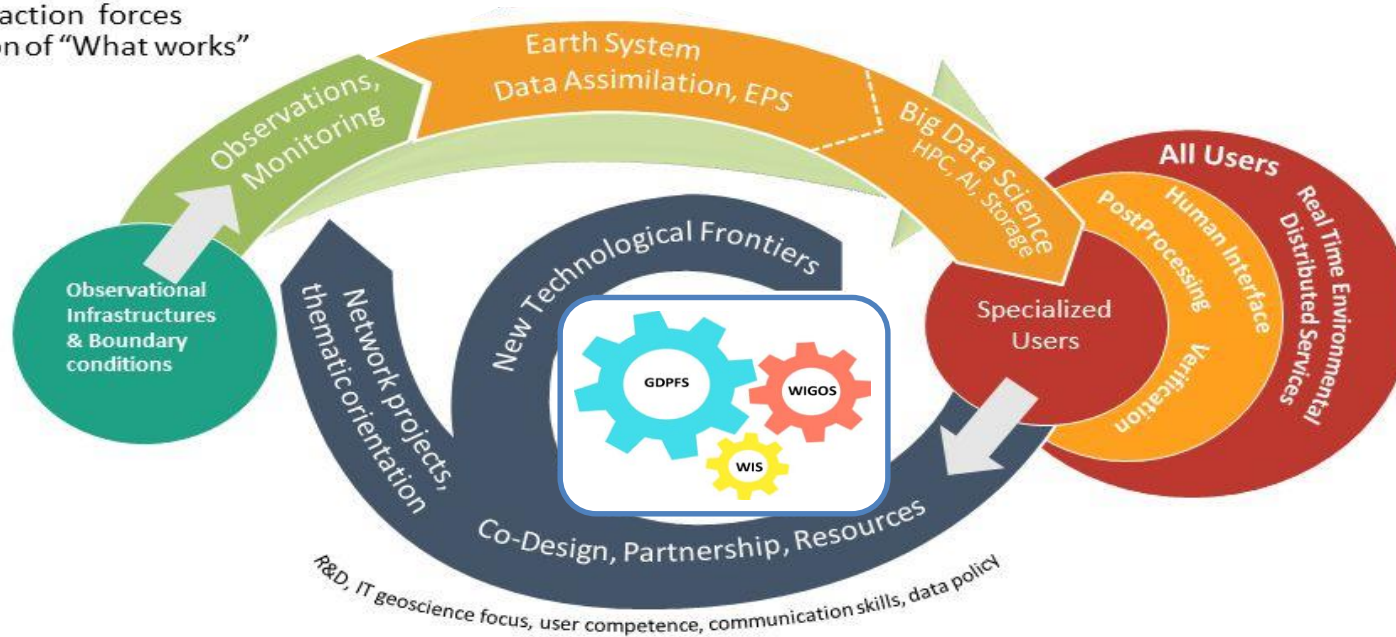
“In the context of WMO, seamless prediction considers not only all compartments of the Earth system, but also all disciplines of the weather–climate–water–environment value chain (monitoring and observation, models, forecasting, dissemination and communication, perception and interpretation, decision-making, end-user products) to deliver tailor-made weather, climate, water and environmental information covering minutes to centuries and local to global scales”

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

SCIENCE FOR SERVICES JOURNEY

Quality, Relevance and Impact:

User Interaction forces exploration of “What works”



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.

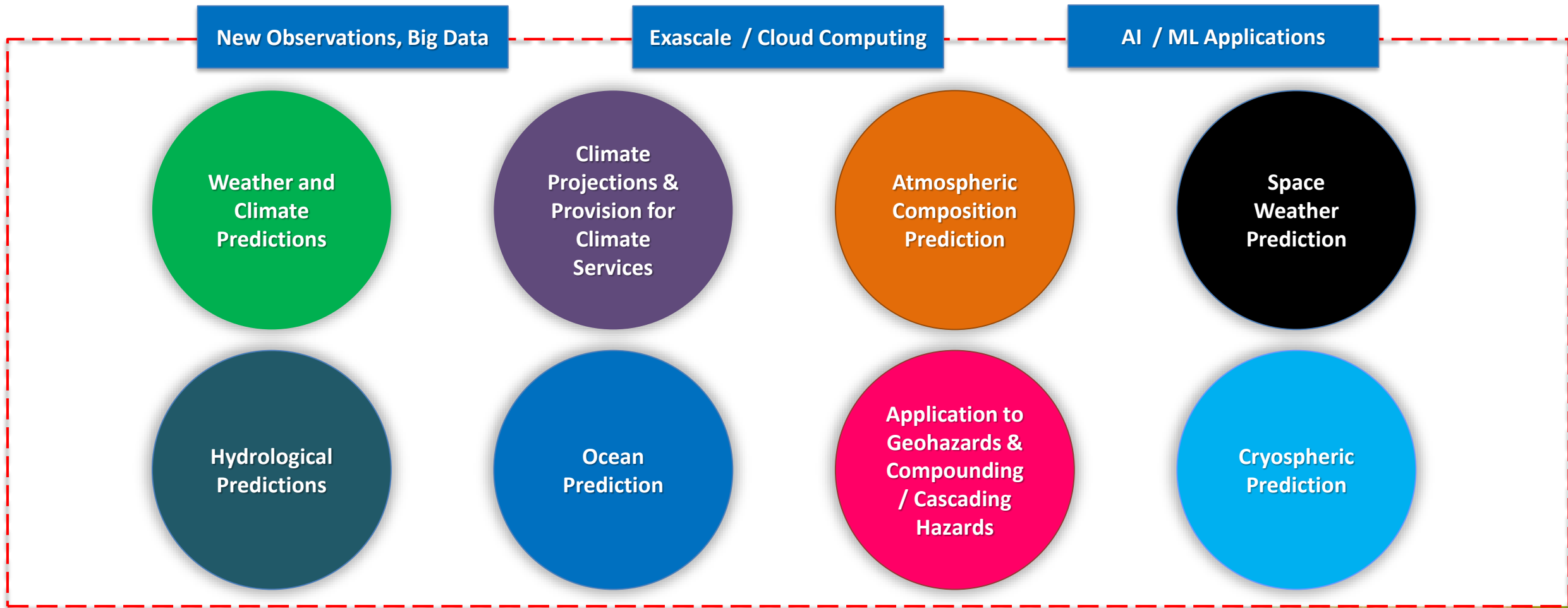
Vision of Seamless GDPFS (EC-68, 2016)

- **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:

Science and Innovation

Value cycle and RRR

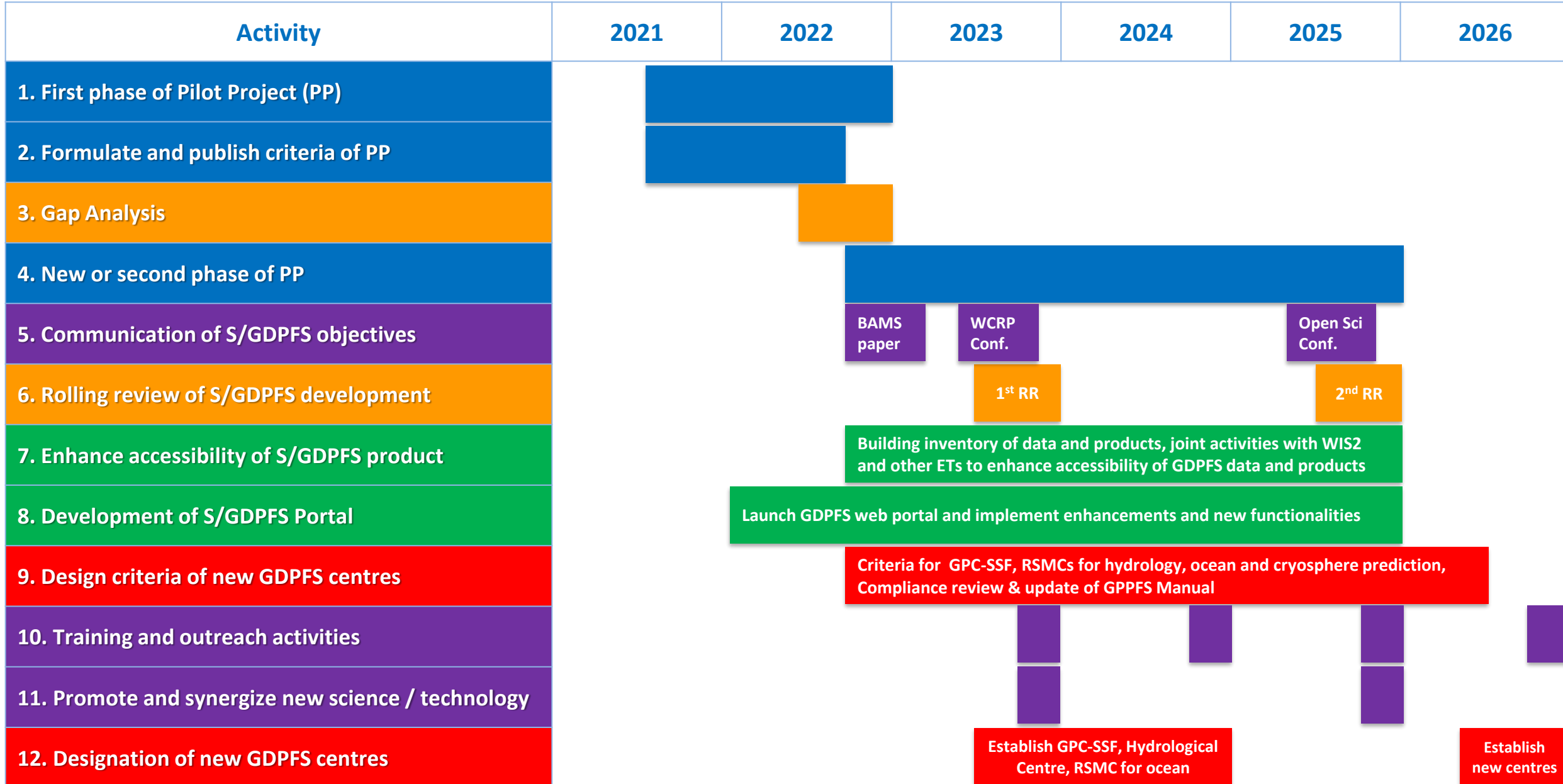
Accessibility

Visibility and capacity building

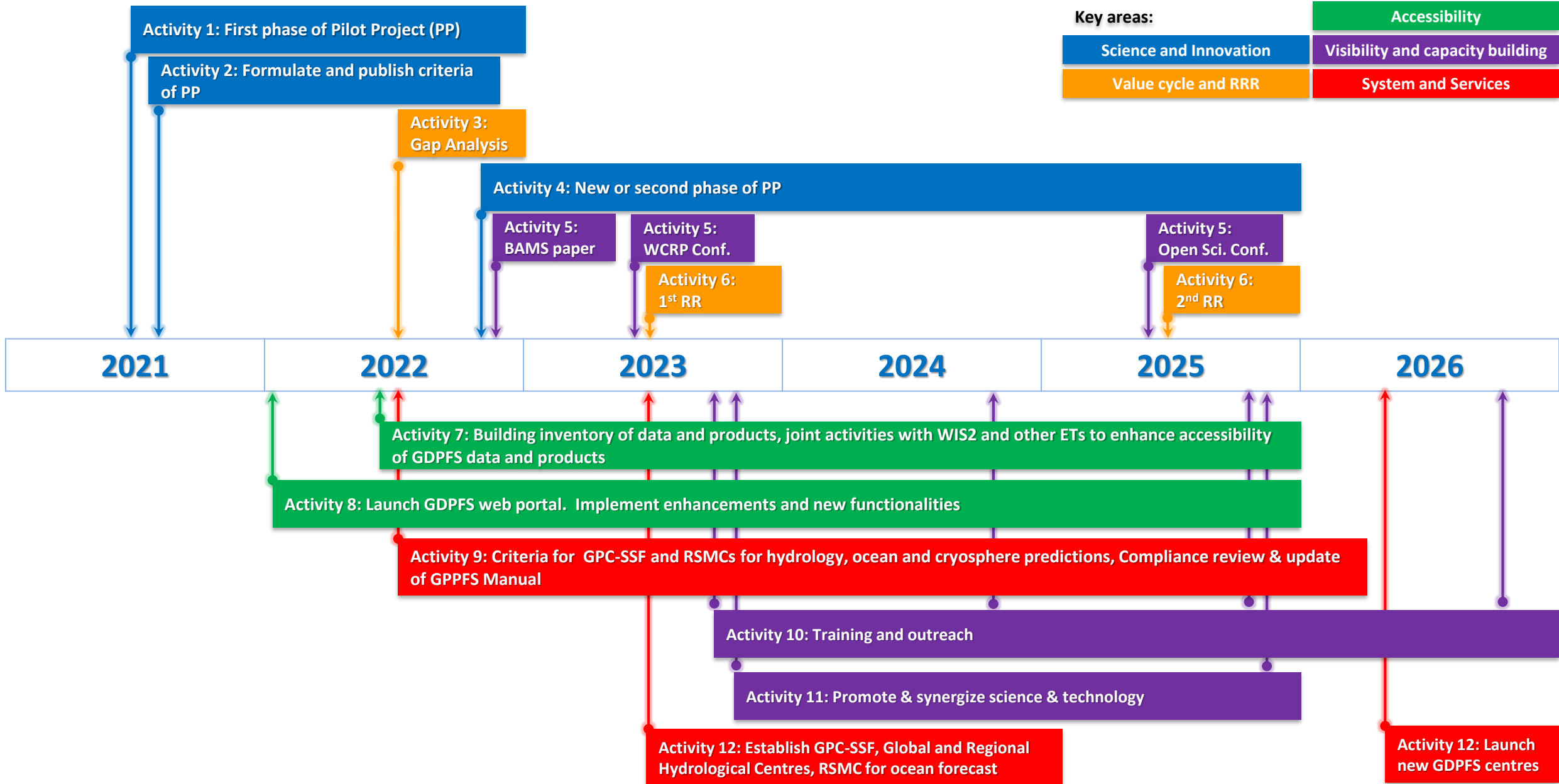
System and Services



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Deliverables and Milestones of S/GDPFS Roadmap





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Thank you
Merci