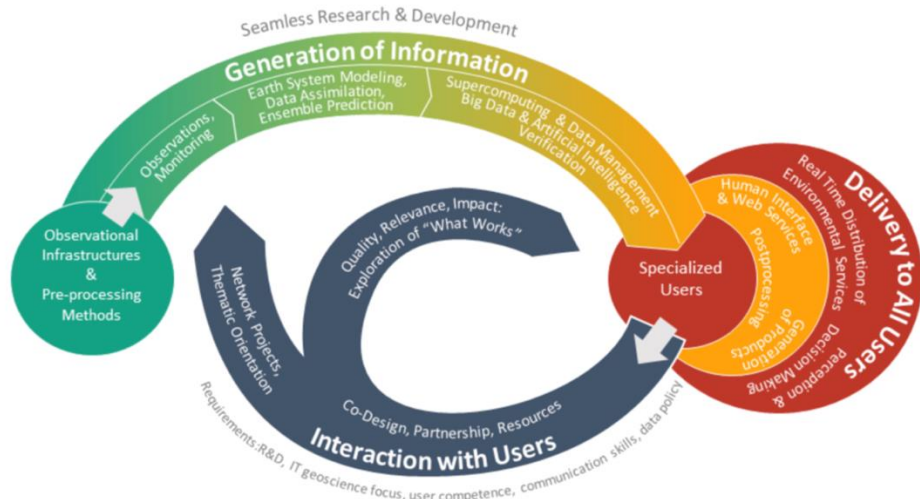


WMO Research Board

<https://community.wmo.int/en/activity-areas/research-board>



Connect strategic aims of WMO Executive Council and Congress with the community, e.g. EW4All, G3W, Cryosphere, Hydrology

Forum for exchange and alignment among members and regions:

INFCOM (infrastructure)

SERCOM (services)

6 WMO regions

Independent Science Input from SAP and research community organised in

WWRP (weather)

WCRP (climate)

GAW (in-situ observations and forecast of atmospheric composition)

RB

- RB meets quarterly; one in-person meeting per year
- This year a joined meeting RB, discussed digital strategy concept note there and action points
- WGNE contributed to eight SAP research priority recommendations (<https://community.wmo.int/en/activity-areas/scientific-advisory-panel>)
- WGNE co-chair is (currently) a member, there may be a discussion on my succession beyond WGNE
- WGNE contributed to other concept notes in the past
- Planned concept note on SAP Rec#6 – Integration of geophysical and social sciences

RB

- WWRP
 - (written) project plans endorsed (PEOPLE, SAGE, InPRHA, PCAPS)
 - planning a conference in Brazil in 2027
- WCRP
 - Update on V11 of WCRP science & implementation plan
- GAW
 - Observations and forecasting of atmospheric composition
 - G3W
- Talks/discussion on urban priorities, hydrology and ocean activities
- Feedback from 6 WMO regions on research & needs

RB-SAP

SAP recommended emerging challenges and opportunities:

- (a) Tipping points, unprecedented events and irreversibility in the climate system;
- (b) Big data for addressing global environmental challenges
- (c) Artificial intelligence for seamless numerical weather & climate prediction and insights across the value cycle

WCRP – Discussion on Attribution (Overview paper in review Sarah E.Perkins-Kirkpatrick

RB – SAP Discussion on WMO Youth strategy

- **WGNE in AI-TT** (*until December 2024*)
 - Prepare WMO for AI revolution
 - Supporting members to take informed decisions on science, legal, financial, infrastructure, services and other related questions
 - Identify within existing WMO programmes, AI/ML activities and pertinent activities that can be easily applied to AI/ML systems, and which have the potential for benefits to Members.
 - Data infrastructure ; <https://community.wmo.int/en/meetings/sg-fit-workshop-2024>
 - Literature collection <https://www.zotero.org/groups/5676964/ai4wx/library>