

Innovation & Science a milestone in WMO reform

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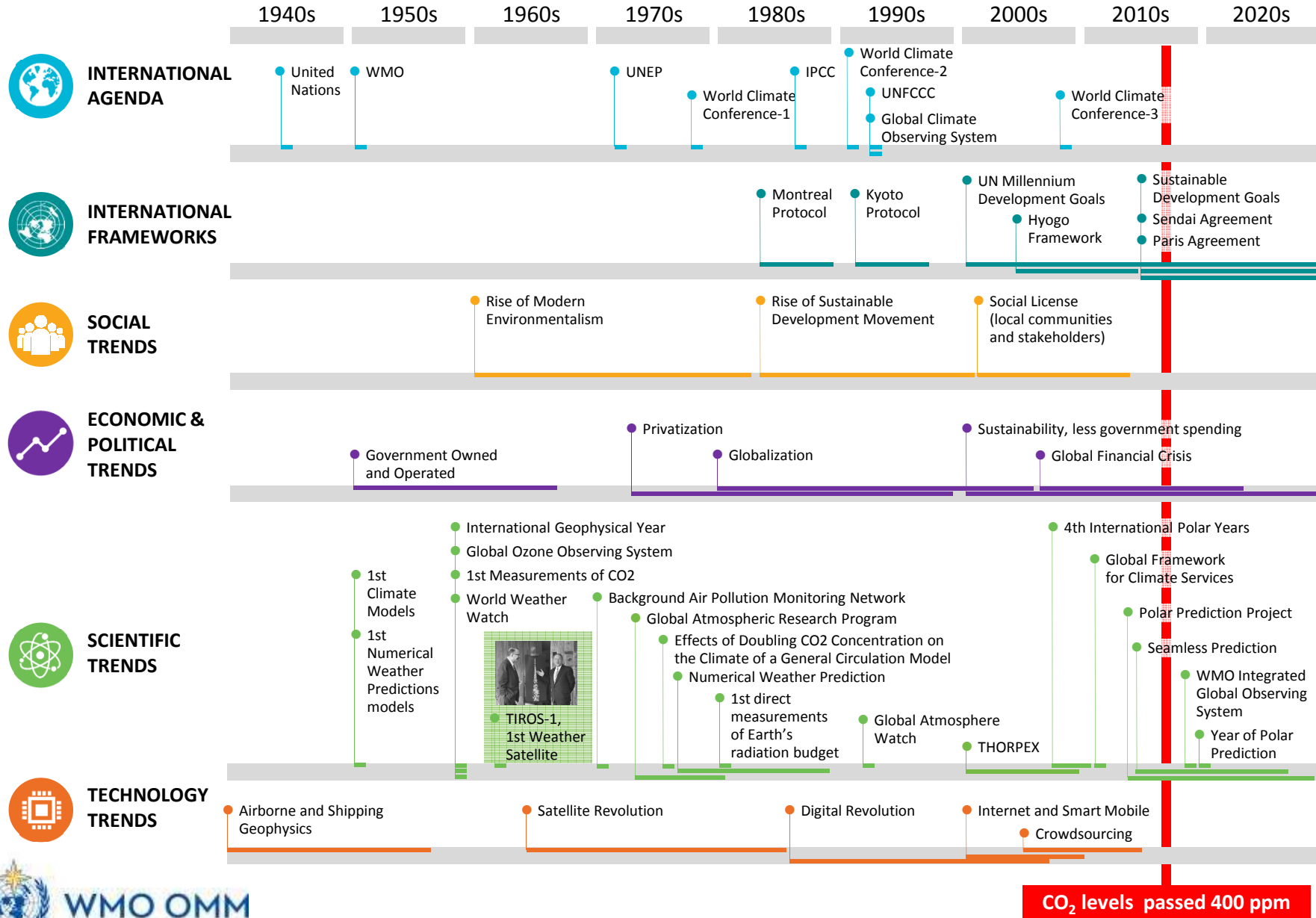


WMO OMM

World Meteorological Organization
Organisation météorologique mondiale

WEATHER CLIMATE WATER
TEMPS CLIMAT EAU

A CHANGING WORLD



Why this reform: a paradigm shift

- Earth System Science Approach
- Seamless
 - Across time and spatial scales
 - Across topics and communities
- Bridging the gap between research and operations
- Strengthening regional and national innovation capabilities

WMO Strategic Plan 2020-2023

Our Vision: all resilient by 2030



Leveraging leadership in science to improve understanding of the Earth system for enhanced services



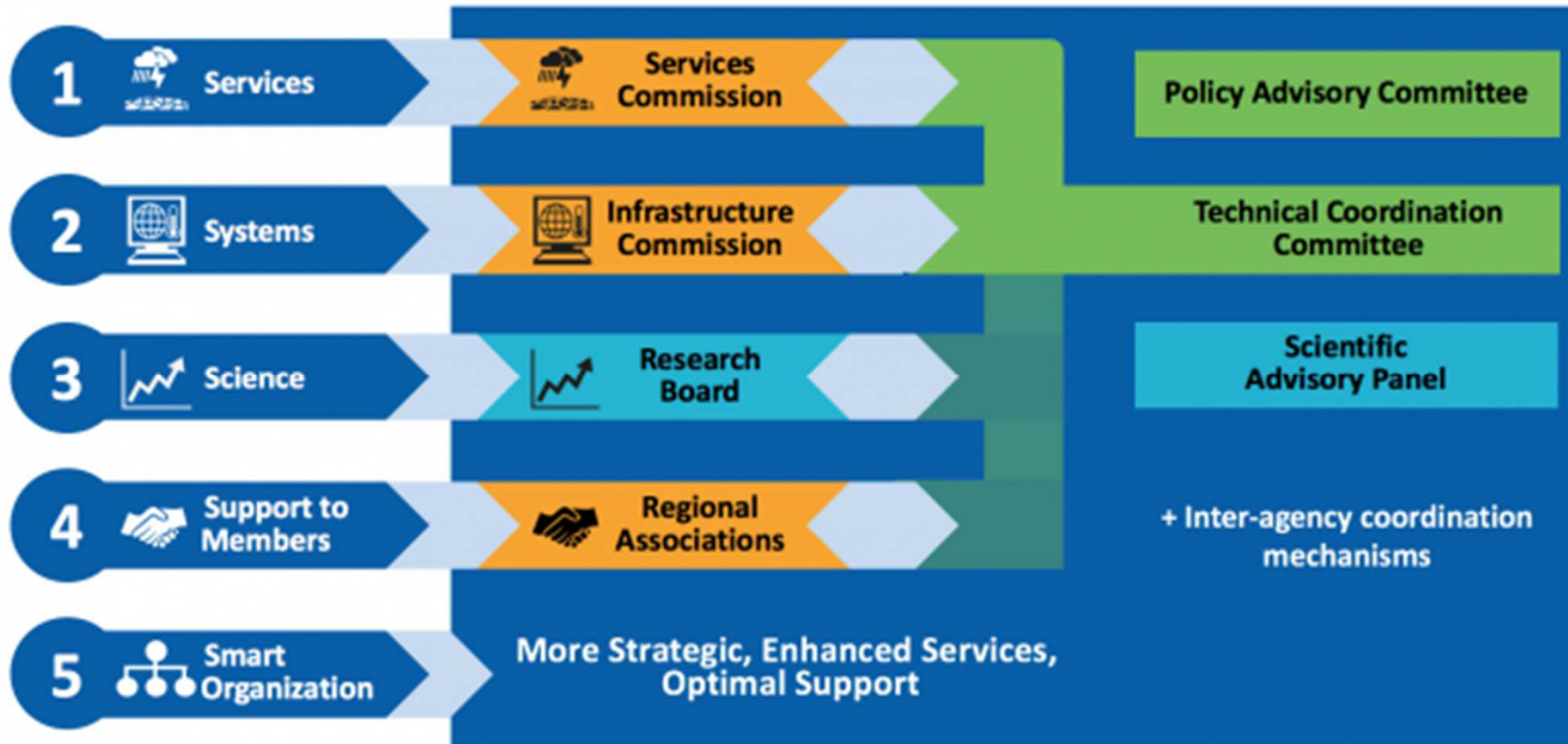
Objective 3.1 Advance scientific knowledge of the Earth system



Objective 3.2 Enhance the science-for-service value chain ensuring scientific and technological advances improve predictive capabilities

Objective 3.3 Advance policy-relevant science

How WMO looks like now



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Research Board

Improving Earth system processing, predictive and projection capabilities; advancing fundamental understanding of the Earth system; promoting the uptake of technological and scientific innovation; and maintaining a sustained user's requirement mechanism for innovation in services and research-to-operation.



Membership

Research Programme leadership,
Regions, World Met Centers,
International Organizations, LDC



Science for services and value
cycle approach



Foster an integrated and
multidisciplinary research
approach



Innovation in Regions



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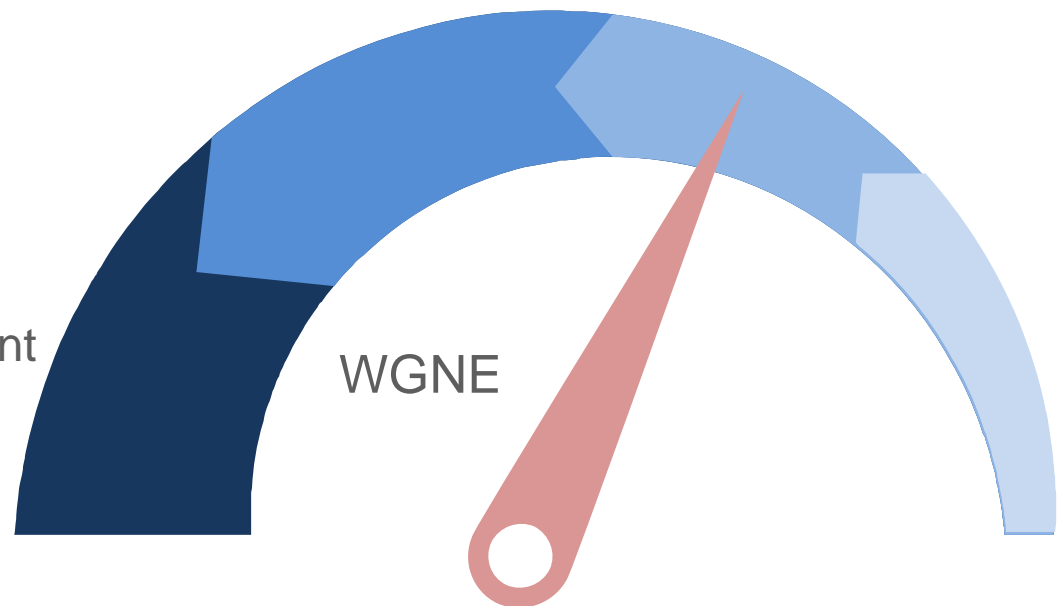
Seamless Earth System Prediction

To deliver the enhance Earth System predictive skill across weather, water, climate and environmental aspects

To articulate requirements for enhanced observational and computational infrastructures

To explore new approaches to data management & integration, data analytics and advanced assimilation techniques

-  Earth System Strategy
-  Earth System Modeling Coordination
-  Earth System Development
-  Process Understanding



Strengthening WGNE role

- Expanding along the Earth System direction, keeping the atmosphere as key focus
 - Land surface and chemistry a close target
 - Working on what the best ocean community to be linked to
- Bridging the gap between research and operations
 - Model configuration
 - Exascale technological challenges
- Advisory role to WMC-GDPFS on system configuration and technological trends

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Thank you Merci



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