WMO OMM



World Meteorological Organization Organisation météorologique mondiale Organización Meteorológica Mundial Всемирная метеорологическая организация المنظمة العالمية للأرصاد الجوية 世界气象组织



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Sixth High-Level Session of the Open Consultative Platform (OCP-HL-6)

Public-Private Engagement on artificial intelligence (AI) 10:30–12:00 CEST*1 (08:30–10:00 UTC**2), 16 June 2025, Geneva

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Introduction	The rapid development of big data science and technologies has the potential to transform the Meteorological and Hydrological community methods of collecting and processing observational data and may enable integration of large amounts of non- conventional data into the processing and prediction systems. This derived vigorous R&D in the academia, private sector and public sector into new forecasting methods and applications. Forecasts based on artificial intelligence (AI) and machine learning (ML) have emerged in the last few years, with notable contributions by private technology leader companies, based on datasets that were developed by national and international public sector organizations. The research and operationalization of such new approaches is expected to accelerate in the coming decade, providing new opportunities for meteorological, climate and hydrological services at an unprecedented use scale.
Outline	The joint contributions of the private sector, the global and regional data processing centers and the National Meteorological and Hydrological Services (NMHSs) have already yielded promising quasi-operational prediction systems, such as the Norwegian Meteorological Institute's Bris and the European Centre for Medium-Range Weather Forecasts (ECMWF)'s AIFS and Anemoi. We will hear about the direction of developing AI- based models active in the public and private sectors and their intentions regarding service provision and possible assistance to NMHSs, especially those of developing countries. NMHSs, which provide 24/7 services operationally using prediction models of the atmosphere as a foundation, are accountable to the Minister and taxpayers for the general provision and continuation of meteorological services. NMHSs, for their part, also need to share with the private sector at OCP the various necessities that they need to meet if they put a new model into operational use,

¹ Central European Summer Time

² Coordinated Universal Time

	such as validating the new model, running the old and new models in parallel, informing staff of the features of the latest model, ensuring sustainability and redundancy. We will listen to the private sector's intentions, discuss the opportunities and impact AI models will bring to meteorological services, including those by NMHSs, and make recommendations for the future of public-private engagement in AI. We will try to examine the ethical framework in which this public-private engagement could thrive.
Objectives	 To provide updates on the AI-driven development, made by the private sector and a leading World Meteorological Centre, which will significantly impact on future research, operations and services.
	(2) To understanding the expectations and concerns of the Global South on the autonomous use of AI system.
	(3) To gain muti-stakeholder insight that will contribute to the discussion on WMO vision, strategy, and activities to capture AI's benefits and manage uncertainties/risks.
	(4) To examine the ethical framework in which this public- private engagement could thrive and suggest principles for fruitful engagement.
	(5) To seek suggestions on the priorities and for the public- private engagement in AI-related activities.
Date and time	10:30-12:00 CEST (08:30-10:00 UTC), Monday, 16 June 2025
Venue	Salle Obasi (the main conference room), WMO Headquarters
Format	(1) In-person meeting attended by invited speakers, panelists and all EC members, with live Zoom broadcast open to audiences from the public, private and the academic sector, as well as civil societies all over the world.
	(2) Classroom style with panelists sitting at the podium and allowing interaction with physical participants in the meeting room.
Speakers/Panelist	 Mr Michel Jean, President, Commission for Observation, Infrastructure and Information Systems (Infrastructure Commission)
	(2) Dr Roar Skålin, Permanent Representative of Norway with WMO
	(3) Dr Arlene Laing, Permanent Representative of the British Caribbean Territories with WMO
	(4) Ms Olivia Graham, Product Manager in Weather, Climate & Geospatial AI, Google Research Africa, Google
	(5) Private sector (pending)
	(6) Prof. Libo Wu, President of Shanghai Academy of AI for Science

	 (7) [Panelist] Dr Lidia Huaman, Applied Meteorologist, AccuWeather (representing the HydroMeteorological and Environment Industry Association (HMEI)
Moderator	Mr Eoin Moran, Second Vice-President of WMO
Outcome	A recommendation or a statement to express intention for a joint private-public effort to work closely and support each other to optimize the societal benefits from the new technologies, willing to adhere to guiding principles for fruitful engagement.