

Introduction

This survey is being conducted as a follow up of the Executive Council decision taken at its 69th Session in June 2017 (Decision 61 (EC-69)).

Executive Council acknowledged that at a national level, the mechanisms, legal frameworks and regulations for engagement and partnership between NMHSs and private sector entities vary significantly. There is a general recognition of the growing share of non-NMHS entities in various areas of activities of the so-called "weather enterprise" (not limited to meteorology, but covering also hydrology and climate activities), which requires respective adaptation of the NMHSs to a new competitive environment. To that end, WMO has been asked to assist NMHSs and to develop a global policy framework on the public-private partnership and engagement, as well as practical guidance that would facilitate the dialogue of between the public and private sectors.

At this point we are collecting information that will help us understand your situation, experiences you may have - whether good or bad - and any concerns you may have with regard to the increasing engagement of private sector entities in the business areas traditionally dealt with by the public sector NMHSs.

Your responses will underpin setting up adequate policies, standards, and guidelines that will enhance working relationships both within countries and internationally with mutually beneficial effects and enhanced value of meteorological, climatological and hydrological information and services to society.

Please be assured that any information or opinions you provide will be treated in confidence. Any subsequent use of specific experience and insights provided through responding to this survey will be subject to initial consent of the originator.

The goal of the proposed survey is to build WMO knowledge on:

1. Status of maturity and involvement of the private sector in the various aspects of meteorological, hydrological and climatological activities in the Member countries.
2. Current level and forms of engagement between the NMHSs and private entities.
3. The legal basis in Member countries of public and private participation in meteorological, climatological and hydrological services.
4. What Members expect from WMO on public-private engagement.

A summary of findings will be prepared and shared as a knowledge gained from the survey to help set priorities to better serve Member needs.

NOTE: The acronym "MCIH" is used in the survey questions for "meteorological, climatological and hydrological"

Survey open until **6 April 2018**.

If you have any questions regarding this questionnaire, please contact:

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Section 0: Contact information for the questionnaire

1. Country

2. Contact information of responder

(Free-text up to 256 characters for each textbox):

Organization:

Name:

Position/Title:

Email 1:

3. Are you the PR of your county with the WMO?

yes

no

Section 1: Current status of private sector in your country

To the best of your knowledge, describe the current level of activities of private sector companies in various areas of meteorological, climatological and hydrological (M/C/H) information service provision

4. Which describes best the current maturity and engagement level of private sector in the provision of M/C/H information services in your country

- Private sector is strongly engaged in many areas of M/C/H activities
- Private sector is moderately active in some areas of M/C/H activities
- Private sector activities are marginal
- Private sector is not active at all
- Don't know

5. Which describes best the type of private sector companies active in your country

- Private sector is represented mostly by local/national companies
- Private sector is represented mostly by international/foreign companies
- Private sector is represented equally by local/national and international/foreign companies
- Not applicable
- Don't know

6. Which are the main areas of activities of the private sector

	High activity	Medium activity	Low activity	No activity	Not applicable
Media (TV, newspapers, web, mobile apps, etc)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Observations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Forecasting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Warnings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Consultancy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IT support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

7. Describe the level of contacts and engagement with private sector companies during the last 3 years

	Frequently	Occasionally	Never	Not applicable
the NMHS has been contacted by private companies with offers for cooperation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
the NMHS has been contacted by private companies with requests for getting data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
the NMHS has contacted private companies with offers for cooperation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
the NMHS holds meetings with private sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
the NMHS established internal structure to deal with private sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
the NMHS has established cooperation agreements with private sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
the NMHS has declined proposals by private sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
the NMHS has filed complaints with regard to private sector activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
the NMHS has organized events to encourage private sector engagement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

8. Private-sector participation in M/C/H has been growing on a global scale; how would you characterize this growth in your country during the last 3 years?

- Significant growth
- Some growth
- No growth
- Don't know

9. In summary, how would you evaluate the significance of the current level of engagement and activities of the private sector in your country and their impact on NMHS activities

insignificant - no impact

moderate - some impact

highly significant - high impact



Section 3: Legal basis for public and private engagement in the M/C/H activities in your country

Describe main elements of national legislation and/or regulation related to roles and responsibilities of public and private sectors in the provision of M/C/H information services

10. In your country, is there legislation and/or regulations that determines the roles and relationships of public and private sectors with regard to the provision of M/C/H information services?

- yes, there is a law (e.g., Meteorological Act or similar) that covers all aspects of activities and services
- yes, there is a law that covers some aspects of activities and services (e.g., services for aviation)
- there is no specific law but regulations exist at the level of ministry or similar
- there is neither law nor regulations dealing with the subject
- don't know

11. How will you describe the character of the legislation/regulation with regard to opportunities for private sector engagement?

- The legislation prohibits the conduct of meteorological, hydrological, climatological or other environmental observations and/or forecasts by non-NMHS entities
- The legislation allows the conduct of some meteorological, hydrological, climatological or other environmental observations and/or forecasts by non-NMHS entities under certain conditions (e.g., under licensing regime)
- The legislation allows full freedom in the conduct of meteorological, hydrological, climatological or other environmental observations and/or forecasts by non-NMHS entities under no conditions
- None of the above

12. Does the national legislation establishes a role of the NMHS, or another government body, in providing authorization or licensing of non-NMHS service providers?

- yes
- no
- don't know

If "yes" please provide more information

13. Does the national legislation/regulation establishes a role of the NMHS with regard to the provision of early warnings to relevant government disaster risk management entities?

- yes, as exclusive official source of warning information for all hydrometeorological hazards (single authoritative voice)
- yes, as official source of warning information but other agencies are also responsible for some hazards (e.g., flood)
- the role of NMHS with regard to warnings is not established by national law, but agreements are in place with relevant disaster management agency(ies) for the provision of warning information
- the role of NMHS is not defined
- don't know

Please comment on the applicability of the "authoritative voice" concept in your country

Section 4: Policies and practices applied in your country regarding access&sharing of M/C/H data

This section is aimed at receiving information on status of implementation by Members of relevant WMO data policies and other data access/sharing national practices

14. Does your NMHS apply WMO data policy for meteorological data specified in Resolution 40 (Cg-12, 1995):

- Yes, fully
- Yes, partly
- Not at all
- Don't know

Provide any additional comments on the application of Resolution 40

15. If your answer to the previous question was "yes" how can you rank the success of the Resolution 40 in terms of defining a clear data policy

not successfull

some success

highly successful



16. Does your NMHS or other relevant institution(s) apply WMO data policy for hydrological data specified in Resolution 25 (Cg-13, 1999):

- Yes, fully
- Yes, partly
- Not at all
- Don't know
- Not applicable (no hydrological services provided by the NMS)

Provide any additional comments on the application of Resolution 25

17. If your answer to the previous question was "yes" how can you rank the success of the Resolution 25 in terms of defining a clear data policy

not successfull

some success

highly successfull



22. Is access to NMHS data (observations, forecasts, etc) provided on commercial basis

- Yes
- No
- Other (please specify)

23. If the answer of the preceding question was "yes", specify the category of clients to whom data are provided on commercial basis

- private companies providing meteorological/climatological/hydrological services (providers)
- private companies using meteorological/climatological/hydrological information (users)
- Other (please specify)

24. Do you buy data (observations, forecasts, etc) from private companies

- Yes
- No

If "yes" please specify the types of data

25. If you sell data in accordance with WMO resolutions (40, 25, 60), what is the significance of the revenue generated for your NMHS

- Revenue from selling data has a significant impact on the budget
- Revenue from selling data has a moderate impact on the budget
- Revenue from selling data has a low impact on the budget

Provide comment as appropriate

Section 5: Examples of NMHS working with private sector

This section provides an opportunity to share additional experience in working with private sector

26. Do you provide information to be used by private companies in their internet or mobiles services (e.g., official warnings displayed on private company mobile app)

yes

no

If "yes" please provide additional information

27. Have you worked with private companies in the framework of development/modernization projects

yes, as a donor organization

yes, as a beneficiary organization

no

If "yes" please provide more information

28. Have you worked with the private sector in any other form: cloud computing, data storage, observations, etc.

yes

no

If "yes" please provide more information

Section 6: Public-private sectors dialogue - shaping the future

Participate in prioritizing the future work on key issues related to the public-private engagement and your expectations from the WMO in this regard

29. WMO has organized and participated in several dialogues between public, private and academia sectors as main stakeholders of the international weather enterprise. How will you rank the importance of the following key issues identified through the dialogue?

	5 - highest priority	4	3	2	1 - lowest priority
Need to define clear roles and responsibilities through relevant legal and regulatory frameworks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Need to establish "authoritative voice" or official source of information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sustain the role of NMHS as "authoritative voice" in the provision of services related to safety of life and property	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Establish high-level policy comprising principles of cooperation, collaboration, complementarity and professionalism	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Establish a code of ethics for all stakeholders in the weather enterprise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Need for analyzing all risks from a rapid growth of private sector, in particular, how to sustain the basic systems and infrastructure of WMO/NMHSs as critical to the global, regional and national weather enterprise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	5 - highest priority	4	3	2	1 - lowest priority
WMO regulations and standards need to be enforced and accepted by all stakeholders in the enterprise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
NMHSs shall focus on essential (safety related) public interest functions, while leaving "business-to-business" tailored services to private sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Public sector should cooperate with private sector and academia to accelerate uptake of modern technology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bridging the capacity gap of developing countries should be pursued through public-private partnership solutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cost-effectiveness of M/C/H services need to be improved through public-private partnership solutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Need to establish mechanisms for verification, validation and certification of products and services due to multiple sources of same or similar information; WMO and NMHSs to play primary role in this regard	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

30. For your NMHS, what are the most useful additional activities that WMO could undertake on public-private engagement?

	5 - highest priority	4	3	2	1 - lowest priority
Develop specific guidance for Members on engagement with the private sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify and analyze trends and emerging issues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide global and regional opportunities for regular dialogue with private sector and academia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Institute additional review and quality-assessment practices for private-sector products	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Facilitate identification and exchange of good practices among Members	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop training opportunities for NMHSs' management personnel on "weather economics and market"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Develop and adopt (through Congress) high-level policy on public-private partnership in the context of international weather enterprise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

Thank you very much for participating in the survey!

Don't forget to press the "Done" button below