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Item 15 of the provisional agenda*

Implementation and adoption of standards for the global geospatial information community

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Note by the Secretariat

The Secretariat has the honour to bring to the attention of the Committee of Experts on Global Geospatial Information Management the report prepared jointly by the Open Geospatial Consortium, technical committee 211 of the International Organization for Standardization (ISO) and the International Hydrographic Organization, which will be available in the language of submission only from the relevant web page of the Committee of Experts (<http://ggim.un.org/meetings/GGIM-committee/12th-Session>). The Committee is invited to take note of the report and to express its views on the ongoing work of the three standards development organizations.

Summary of the report

At its eleventh session, held virtually on 23, 24 and 27 August 2021, the Committee of Experts adopted decision 11/111, in which it expressed its appreciation for the collaborative efforts and work of the standards development organizations in developing and preparing standards for the measurement and monitoring of the Sustainable Development Goals, advancing data access and data sharing, including towards the ongoing response to the coronavirus disease (COVID-19) pandemic, disaster risk reduction and management, and the continuing development of the open application programming interface standards, the ISO 19152 Land Administration Domain Model and the S-100 suite of marine data product specifications. The Committee also welcomed and endorsed the third edition of the “Guide to the role of standards in geospatial information management”, the purpose of which was to promote the recommendations regarding the use of standards for geospatial information management. In this regard, the Committee urged Member States and relevant stakeholders to continue with the broad review and refinement of the guide

* [E/C.20/2022/1](http://www.un.org/Depts/under20/2022/1).



as a living online resource aligned with the Integrated Geospatial Information Framework and to actively use the guide for standards-based geospatial solutions.

In the report, the three organizations elaborate on their collective efforts to advance the uptake and use of geospatial standards. They provide details of the work of the Open Geospatial Consortium on the development of modernized open application programming interface standards and the integration of geospatial information, statistics and other data to address the access to and integration of location information related to Earth observations, disaster preparedness and response, health, marine spatial data interoperability, the environment and climate change. The work of Consortium's community includes a strong focus on improving connections with Consortium standards (e.g. the Features and Environmental Data Retrieval application programming interfaces), International Hydrographic Organization standards (e.g. S-122) and International Organization for Standardization standards (e.g. ISO 19152, including the proposed marine part).

They also describe the work of technical committee 211 and its continued progress in the development of the multi-part standards ISO 19152 Land Administration Domain Model, the ISO 19144 series on land cover and ISO 19160 on addressing, and discusses the increased use of the ISO Geodetic Registry. Lastly, they present the advances made by the International Hydrographic Organization on the S-100 Universal Hydrographic Data Model to support the creation and maintenance of interoperable maritime data product services that are compliant with the ISO 19100 series of geographic information standards. This includes the projected work with some littoral states to use the Integrated Geospatial Information Framework Marine Spatial Data Infrastructure maturity road map currently being discussed for real-world Marine Spatial Data Infrastructure development.

The organizations also provide an overview of their work regarding the use of geospatial standards in supporting the measurement and monitoring of the Sustainable Development Goals; discuss the role of standards in the continued response to the global COVID-19 pandemic; present information on how the organizations are working to practically strengthen their interlinkages with the regional committees, functional groups and thematic groups of the Committee of Experts; highlight their continued support to the standards pathway for the Implementation Guide of the Integrated Geospatial Information Framework; detail the activities undertaken to promote and raise awareness of the "Guide to the role of standards in geospatial information management" as a living online resource aligned with the Framework; and discuss practical examples of the implementation of geospatial standards that help further strengthen the guide, as a means to ensure standards accountability and compliance of practice and to demonstrate the benefits of implementing geospatial standards.
