

# Hydrographic Services and Standards Committee

## Report on ISO/TC211



# Background

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ISO - Technical Committee 211 (ISO TC211) **deals with the development of standards and specifications for the geospatial domain.**

The IHO is a **Class A liaison member** of ISO/TC211 and **participates in its standards development and maintenance Working Groups.**

The ISO/TC211 **19100 series of standards and specifications have been used for the development of the IHO S-100 Universal Hydrographic Data Model.**



# Background

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79 - published ISO standards

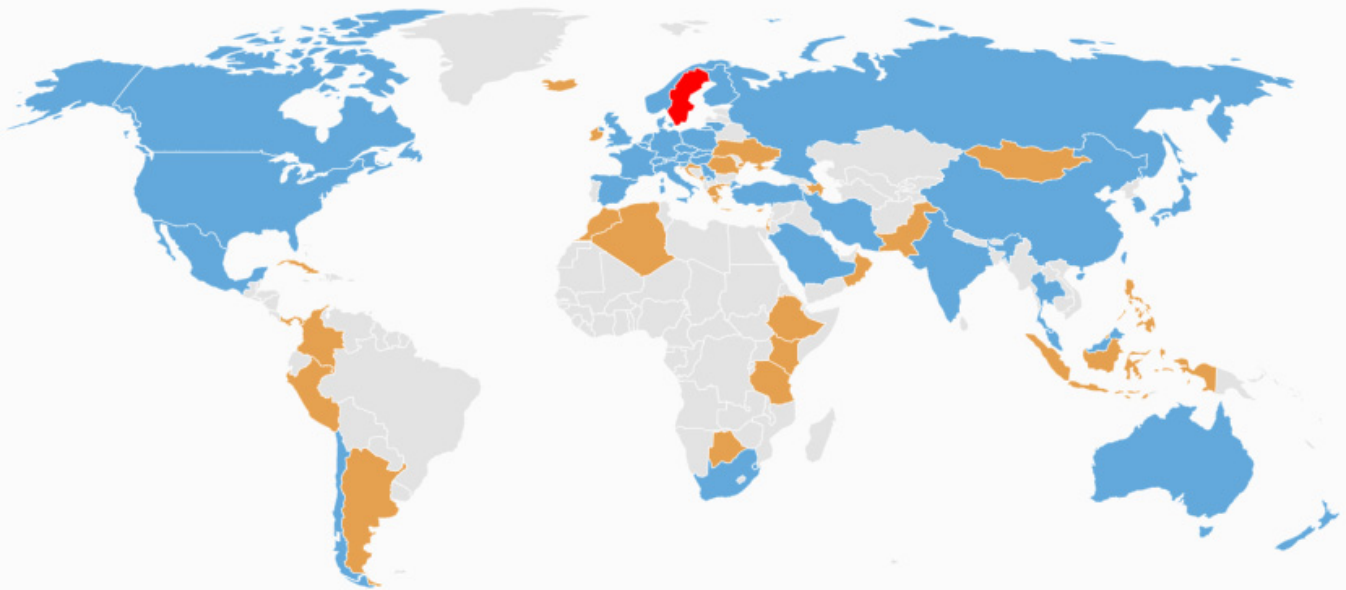
21 - ISO standards under development

Secretariat - Swedish Standards Institute (SIS)

Agneta Engberg our new ISO/TC 211 Chair



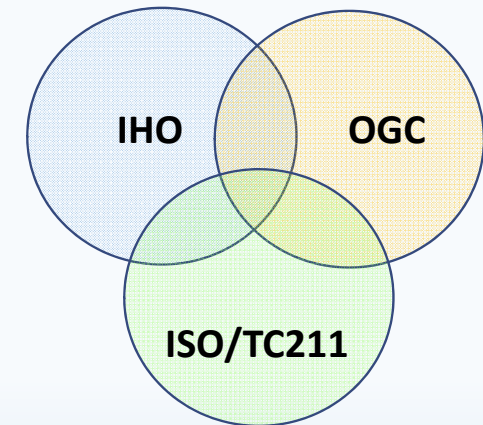
# ISO/TC211 Membership



Eswatini accepted as a new P-member at the last meeting.

## TC211 Membership

- 38 - Participating Members
- 31 - Observing Members
- 37 - External liaisons
- 26 - Internal liaisons



MoU's between  
IHO – OGC's – ISOTC211



# Background

Types of deliverables developed by ISO.

**ISO Standards**

**ISO/TS Technical Specifications**

ISO/TR Technical Reports

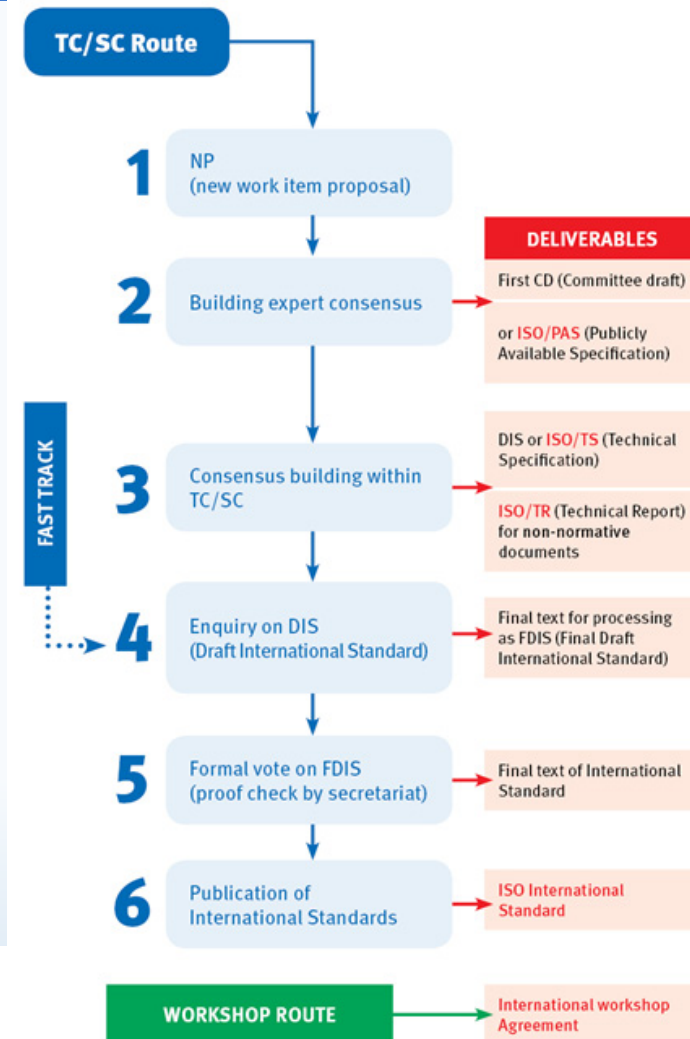
ISO/PAS Publicly Available Specifications

IWA International Workshop Agreements

ISO Guides

**ISO requires that all standards, specifications should be subject to systematic review** to determine whether they are still fit for purpose.

The **maximum elapsed time** before a systematic review for **standards is 5 years** and **technical specifications is 3 years**.



## New standards published since last ISO/TC 211 meeting:

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ISO 19111:2019 Referencing by coordinates

ISO 19112:2019 Spatial referencing by geographic identifiers

**ISO 19115-2:2019 Metadata -- Part 2: Extensions for acquisition and processing**

ISO 19127:2019 Geodetic register

ISO 19130-1:2018 Imagery sensor models for geopositioning --Part 1: Fundamentals

ISO 19150-2:2015/Amd 1: 2019 Ontology --Part 2: Rules for developing ontologies in the Web Ontology Language (OWL) –Amendment1



# Resolution from the last TC211 Meeting

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## *Documents for Systematic Reviews*

**19157:2013 – Data quality (SR)**

**19135-2:2012 - Procedures for item registration -- Part 2: XML schema Implementation**

19129:2009 - Imagery, gridded and coverage data framework:

19163-1:2016 - Content components and encoding rules for imagery and gridded data -- Part 1: Content model:

19153:2014, Geospatial Digital Rights Management Reference Model (GeoDRM RM)

**19115-1:2014 - Metadata -- Part 1: Fundamentals**

## *Document to be registered as Draft International Standard*

**19170 - Discrete global grid systems (DGGS)**



# ISO/TC211 Resources <https://committee.iso.org/home/tc211>

## UML Models (HMMG)

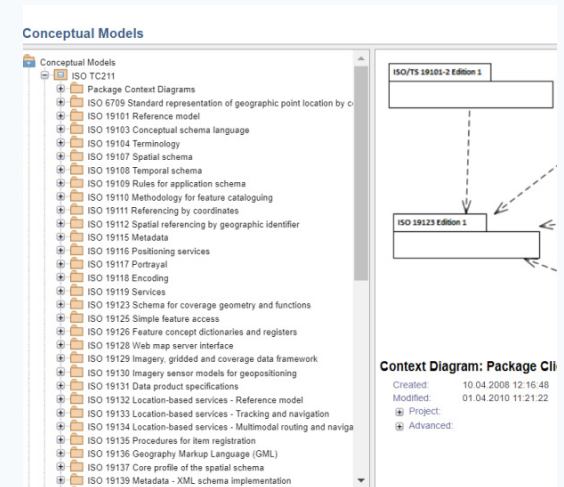
HTML view of the **Harmonized UML Model** is available for Conceptual models and Implementation Models. (<https://www.isotc211.org/hmmg/HTML/ConceptualModels/>)

## XML Schemas (XMG)

The ISO TC211 **XML Schema repository** is located at <http://schemas.isotc211.org>

## ISO Geodetic Registry

The ISO Geodetic Registry is a structured database of coordinate reference systems and transformations.





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## **Geospatial Standardization Wiki**

The wiki **provides background information on geospatial standardization:** describes different types of standards; the development and implementation of standards; key standards bodies ....

## **Multi-Lingual Glossary of Terms**

Its **purpose is to encourage consistency in the use and interpretation of geospatial terms.**

**ISO/TC211 Github (<https://github.com/ISO-TC211>)**



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***Thank You***



International Hydrographic Organization  
*Organisation Hydrographique Internationale*

HSSC-11, Capetown, South Africa 6-9 May 2019