

Geo-Enabling the Global Village: No one should be left behind

International Standardization is International Collaboration part of

2nd UN World Geospatial Information Congress October 10th - 14th, 2022

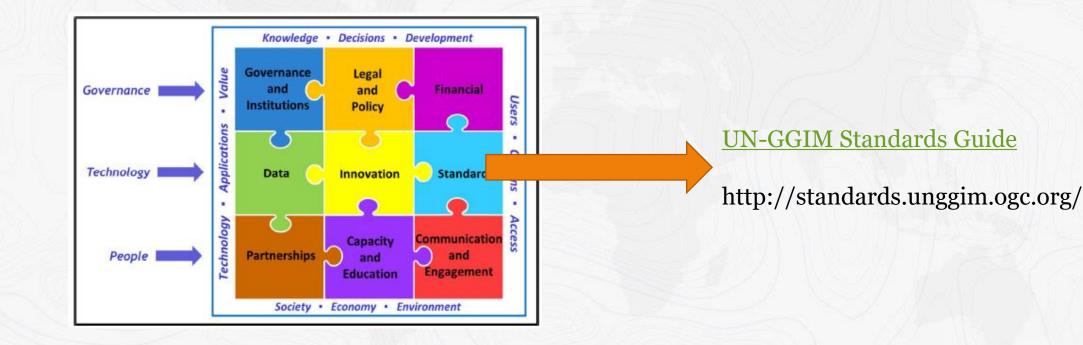
Standardization in the field of digital geographic information.



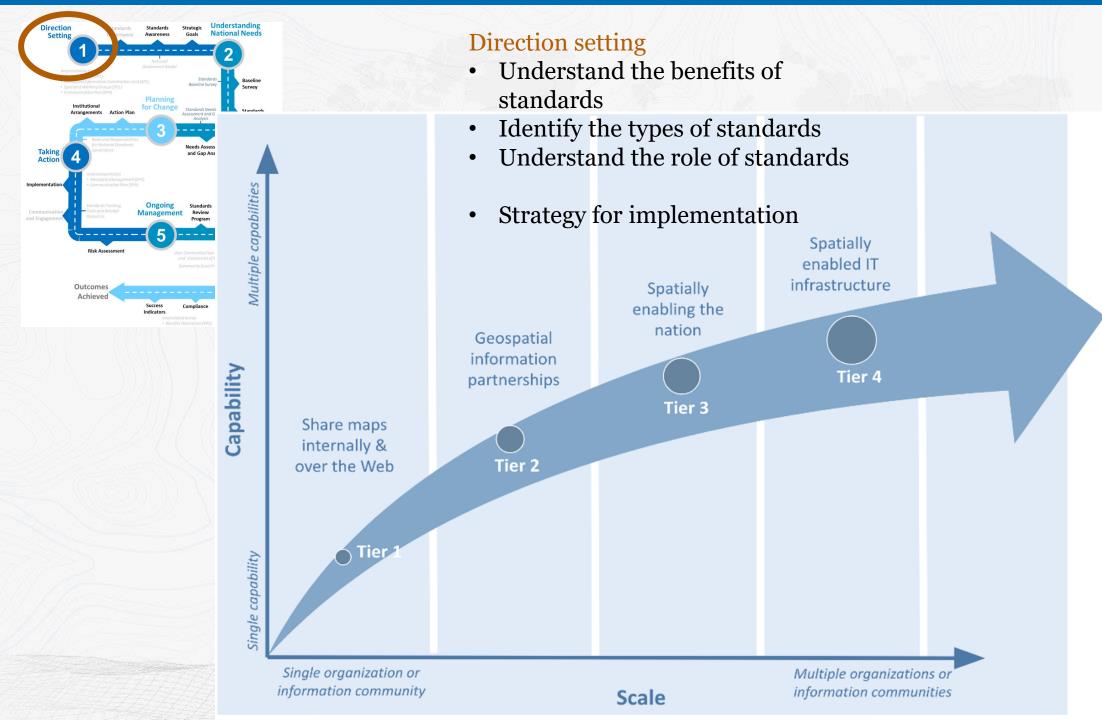
International TC 211 Organization for Standardization



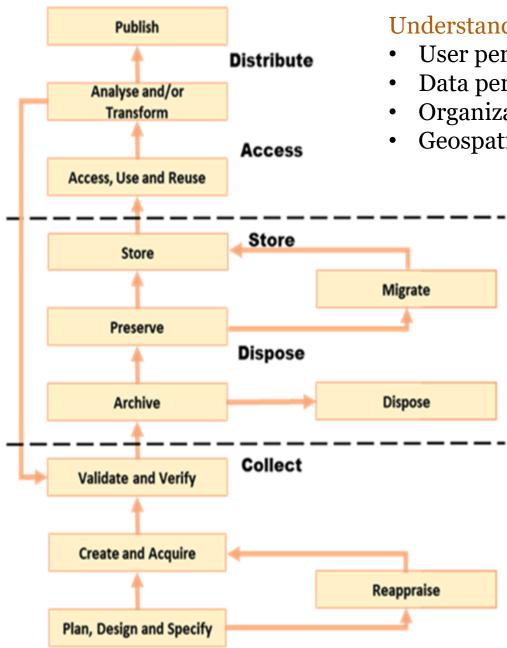












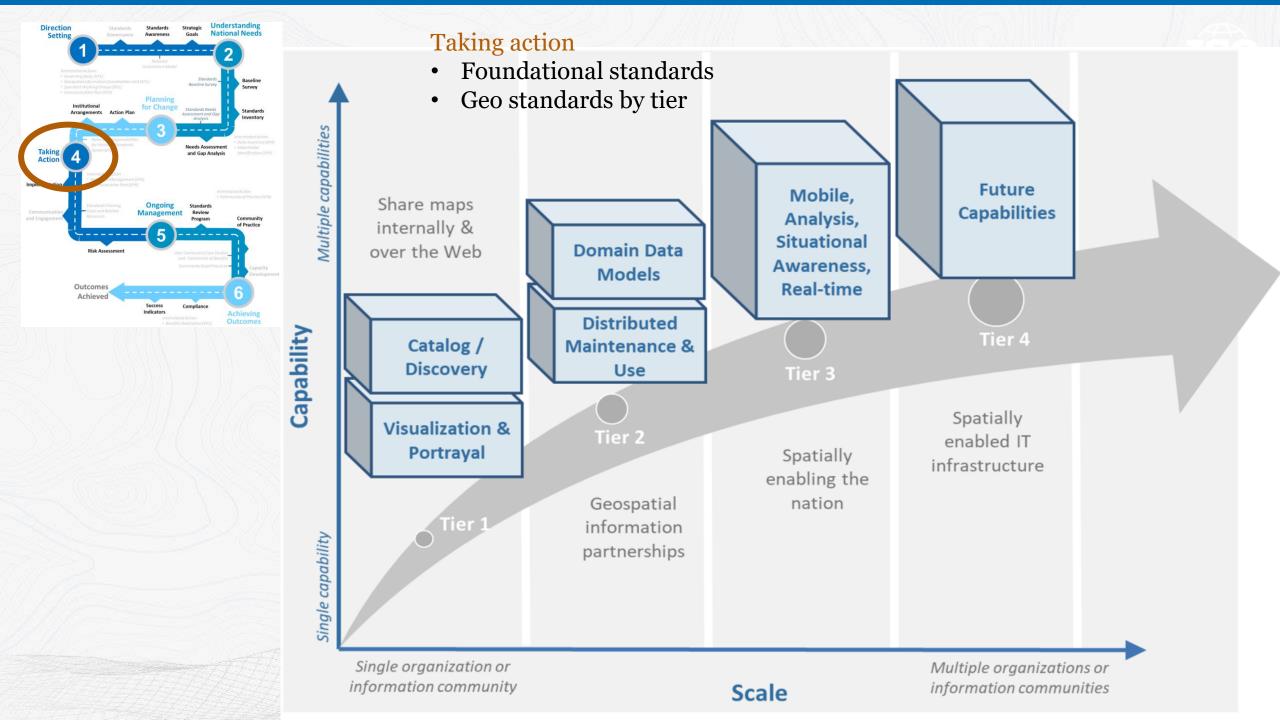
Understanding organizational needs

- User perspective
- Data perspective
- Organizational / institutional perspective
- Geospatial data lifecycle



Planning for change

- Institutional arrangements
 - Governing bodies
 - National standards bodies
 - Standards development organisations
- Influencing adoption
 - Directives
 - Negotiation
 - Certification & compliance
 - Engagement
 - Spend controls
- Action plan: who, what, when
 - Costs & funding





- Ongoing managementReview programmeCommunities of practice



Achieving outcomes

- Compliance
- Success indicators
- Training, tools, and resources
- Strategic goals and planning

Full of line UN-GGIM Standards Guide Open for continuous update

online version

UNGGIM Standards Guide (ogc.org)

http://standards.unggim.ogc.org/





Geo data helps various SDGs



2 ZERO HUNGER Good address data helps:

- recover from disasters (USA / Hurricane Katrina)
- plan & deliver health interventions (South Korea / COVID-19)
- deliver education (South Africa)
- enable voter registration & participation (South Africa)
- Land cover mapping helps:
- Plan & monitor food production





City model for planning (Vienna, Austria; Chongqing, China) Land administration / registration

TC 211 have been collecting examples: https://tinyurl.com/geo-stds-un

Standards help geo data do that

	General examples	Geo examples
APIs	SOAP "REST" / Open API	OGC API Features (ISO 19168) OGC Web Map Service (ISO 19128)
Formats	CSV XML JSON	OGC GML (ISO 19136) GeoJSON OGC GeoPackage
Semantics	Adobe PDF/A Dublin Core metadata	IHO S-100 Hydrographic data model OGC CityGML ISO 19115 Metadata

Standards help no get left behind

- Using standards at interfaces avoids having to buy into the same implementation everywhere
- "Borrowing" proven solutions get a hand up
- Most standards have many implementations, commercial & open source, and communities to support them
- Fledgling software industries can get a 'leg up' implementing agreed specs



Accelerating implementation





International Organization for Standardization

- Geodata helps deliver (and monitor) SDGs
- Open standards help implementation making data "FAIR":
 - Findable
 - Accessible
 - Interoperable
 - Reusable
- Implementations deliver geodata
- Using standardised implementations enables delivering ...

Why are the 3 SDOs presenting today?

- To raise awareness of the importance of standards
- To encourage more feedback on the Standards Guide
- Standards aren't really there for "compliance"
 - Accelerate implementation, reduce costs, enable innovation,...
- And we're here to help!

Contact us: three SDOs



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UN-GGIM Standards Guide





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