

# ISO/TC 211 & EU Data Spaces

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# What is a “data space”?



# Data spaces

## International Data Space Association

“is on a mission to create a digital future, across Europe and around the world; in which all players can realize the full value of their data through equal access to **secure** and **sovereign** data exchange among **trusted** partners.”

## UN GGIM IGIF “Tier 4”

- Spatial Data Integrated with Global Data Ecosystem
- Towards “Spatially enabled IT infrastructure”?

# Data spaces

## European strategy for data:

- To “ensure that more data becomes available for use in the economy and society, while keeping the companies and individuals who generate the data in control.”
- To include public sector data, personal data and sensitive business data
- Nine “common data spaces”:
  - Health, Industrial, Agriculture, Finance, Mobility, Green Deal, Energy, Public Administration, and Skills
- All using the same approach / common European rules: governance, infrastructure/technology
- “High value datasets”

# Data spaces

## China

- Global Initiative on Data Security,
- draft Personal Information Protection Law,
- International Data Space Association competence centre

## USA

- private sector implementation(s)



# ISO/TC 211

## “Ad hoc group 10” on Input to EU Data Spaces

to prepare a document describing the use of standards to enable the publication of high-value datasets in accordance with the upcoming implementation regulation based on the Open Data Directive, and the implementation in the “data spaces” in accordance with the European Strategy for data

- Led from Finland, team from
  - European Commission (JRC)
  - Norway, Netherlands, Austria, Spain, Denmark, France, Germany
  - United Kingdom, United States of America (New Zealand)

# Early draft report: what have we already got?

Existing geo standards that should enable geo data to contribute to (EU) data spaces:

- **Semantics:** for EU, INSPIRE feature concepts?
- **Syntax:** GeoJSON, OGC Geopackage, GeoTIFF / COG
- **APIs**
  - OGC API – Features (ISO 19168)
  - OGC API – Coverages
  - OGC API – EDR (Environmental Data Retrieval)
  - OGC API – Processes
  - OGC API – Records
  - OGC API – Tiles (ISO 19177 under development)

# Aim: be ready

- EU high value datasets list defined January 2023
- Includes:
  - Administrative & postal geography
  - Building footprints+
  - Cadastre
  - Land cover
  - Land use
- All are already defined in INSPIRE
- Data to be published by April 2024

*Therefore, EU states need guidance by late 2023!*



# References and links

<https://internationaldataspaces.org/>

European Union:

- [A European Strategy for data | Shaping Europe's digital future \(europa.eu\)](https://europa.eu)
- [Verkenning dataspaces \(docs-geostandaarden-nl.translate.goog\)](https://docs-geostandaarden-nl.translate.goog) – Geonovum report
- [Common European Data Spaces – Real-time Linked Dataspaces](#)

China:

- [China Has a New Plan to Strengthen its Data Economy \(china-briefing.com\)](https://china-briefing.com)

[UNGGIM Standards Guide \(ogc.org\)](https://ogc.org)

[ISO/TC 211](#)

# Questions & contact

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