

Interoperability between metadata standards

Towards a reference implementation for metadata catalogues

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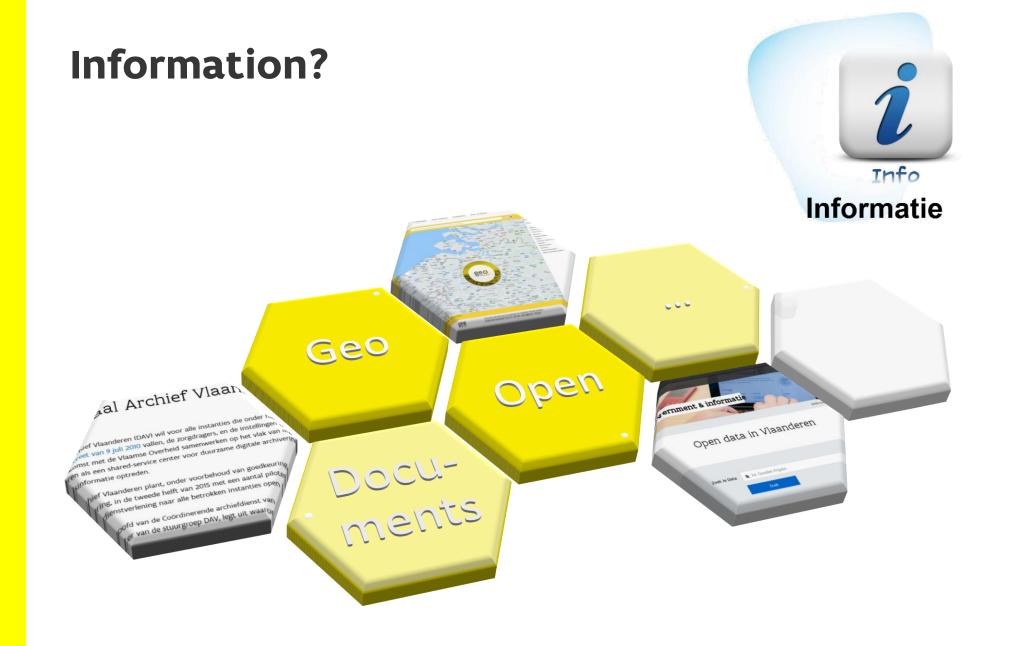




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Introduction

- > How can **data providers**
- > keep it simple to describe and publish their data,
- > with the 'once only' principle in mind,
- > reaching the widest possible audience, and
- > being at the same time in line with all regulations applicable to their data domain?

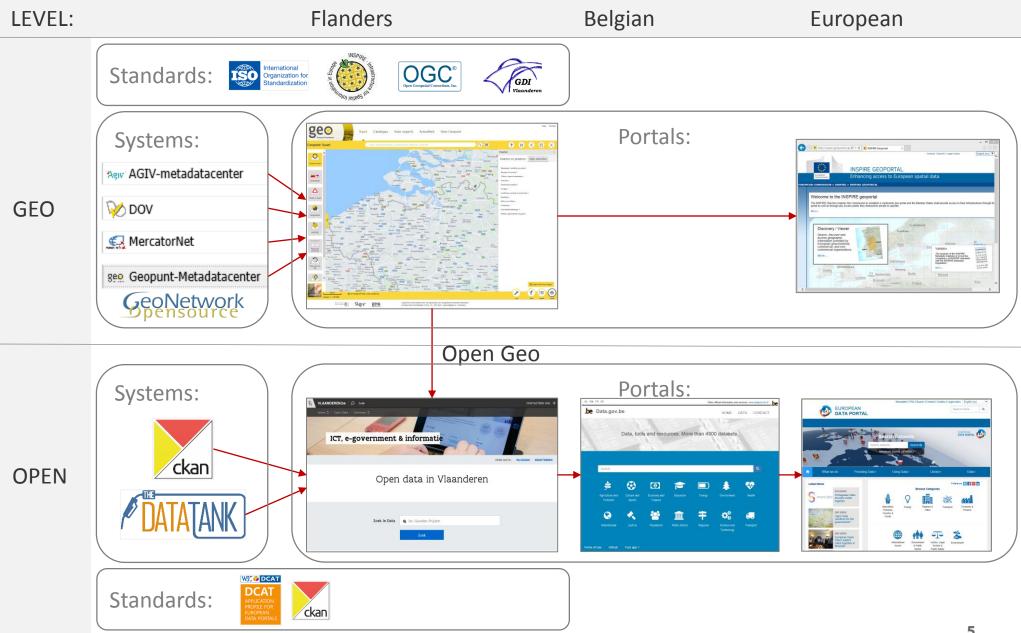


Solutions?

- > On **short** terms:
- > Mappings, translations from one metadata profile into another
 - In general, the mapping is uni-directional from the more specific niche metadata profile into the more basic / core metadata standard.

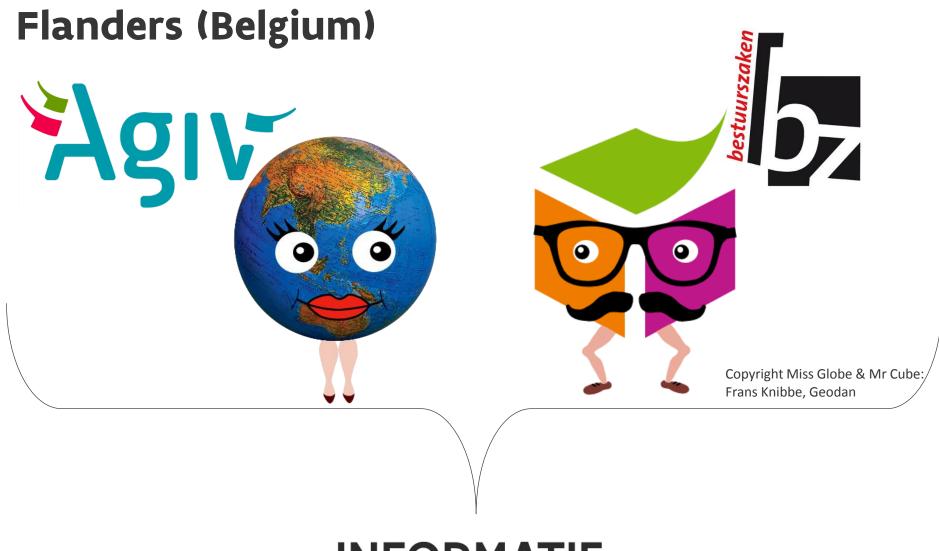
Taking into account the **loss of metadata** elements by adding the core elements of the niche profile, translated into the language of the simple profile, in its storage format, ...

AS IS: METADATA STANDARDS, SYSTEMS, PORTALS



Solutions?

- > On **long** terms:
- > The better solution would be to reconsider, possibly even reshape one (or both) standards, so that the differences which data providers encounter are converging one another.
 - But therefore the standardisation organisations / regulatory bodies have to come together, each with the experts in its niche, and try to gather shared insights on semantics and standardisation.
 - To come to a loosely coupled but harmonized strategy on metadata standards & catalogues



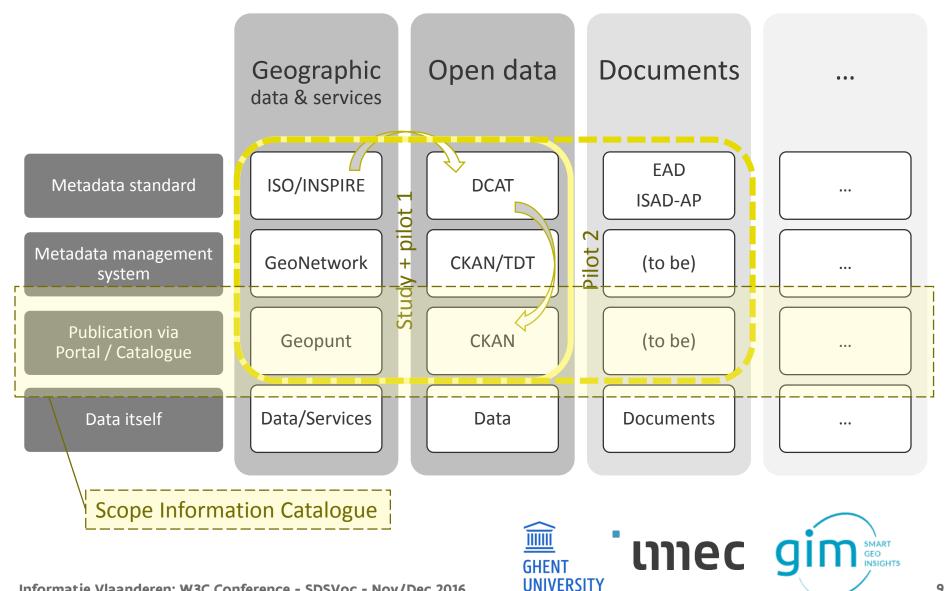
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Initiatives?

How to solve the semantics in transcending the silos

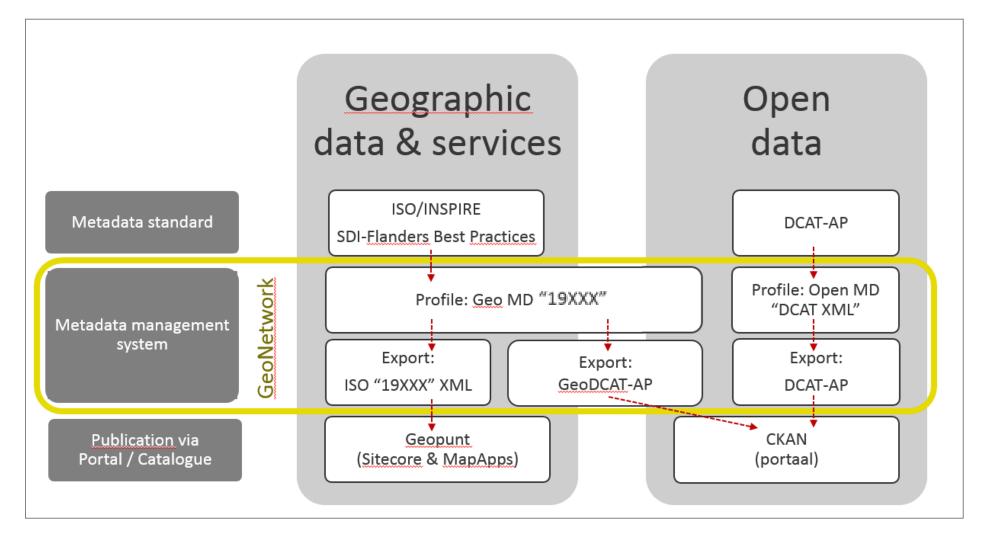
- Comparative study to close the metadata gap between the Geographic and the General Open government data world
- > Implement a **pilot** to prove the effectiveness, automation, ... of the proposed solution
- > Sharing knowledge with other member states
- > Gather **feedback** on the uptake and effectiveness of the implementation
- Continuation of the work in the pilot with other data domains (e.g. Archival information)
- > A **harmonized strategy** on Metadata Catalogues and a reusable reference implementation
- > Publish and promote a Best Practices paper
- Promote the results at meetings and partner events (e.g. INSPIRE/JRC, ISA², OGC, W3C, Semantic Web Conference, ...)

Overview study & pilots



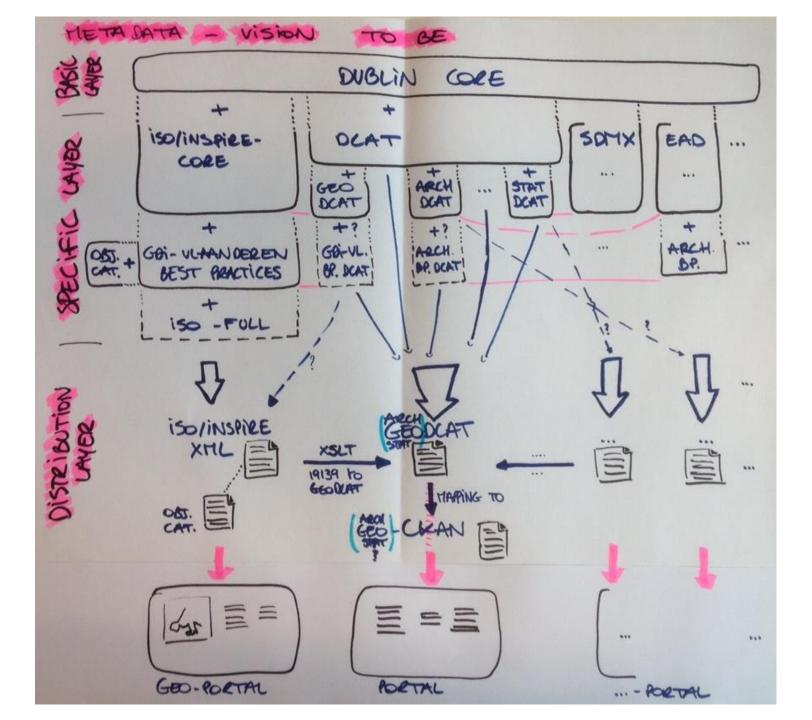
Informatie Vlaanderen: W3C Conference - SDSVoc - Nov/Dec 2016

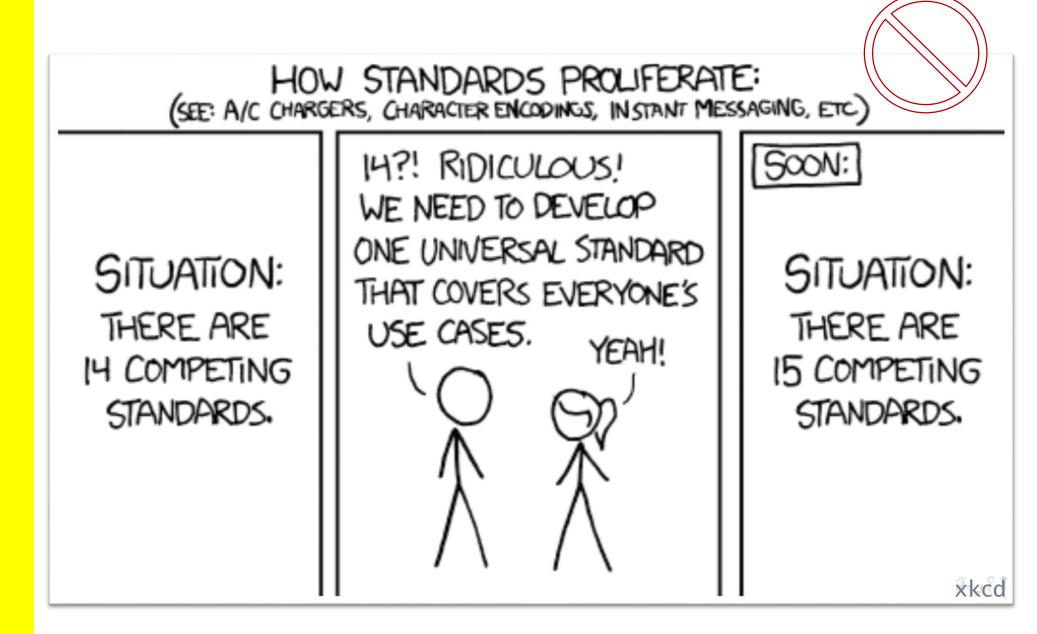
Results on the study between Geo & Open data domains



Conclusion on bridging the gap

- > The study proves the gap between metadata standards and systems can be reduced
 - To improve exchange,
 - Reduce & simplify maintenance,
 - Reach efficiency, consistency, ...
 - And keep it as simple as possible for data providers in describing their data once only, while reaching the widest possible audience
- But to really close the gap, the semantic differences should be picked up to solve by the standardization bodies itself (W3C, OGC, JRC, ISA², ISO)









Questions?

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