NCG
Nederlands Centrum voor Geodesie en Geo-informatica (NCG)

Workshop NCG-GII
Commissie Geo-Informatie Infrastructuur (ncgeo.nl)

FAIR and metadata: conjoined twins!

FAIR cannot exsist without proper metadata, what does proper mean for geospatial metadata across science?

Date: July 7, 2022; afternoon
Location: Wageningen WUR Campus (Omnia)
Building 105: Hoge Steeg 2; 6708 PH Wageningen
You can register for the workshop via this link no later than July 1st 2022.

A workshop to reach a common picture on how FAIR and metadata are connected and what guidance can be given to properly provide metadata in order to claim your (spatial) data are FAIR.

The workshop is for experts from the geospatial and 'near' overlapping domains including amongst others: researchers, data scientists, data providers, application developers, archivists and librarians. The workshop will lead to have a common picture for the participants and will provide raw material for a whitepaper with findings and guidelines.

What is the workshop about?

One of the often neglected properties of data is the metadata. Not that no one is saying it isn't important, but mostly because it's just less exciting compared to the data itself. However, data without metadata is useless. Difficult to find, unclear how to access, unclear to understand its origin and structure and therfore difficult, if not impossible, to re-use. Proper metadata increase the usability of data a lot, but only if it is put together in the right way.

We want to focus on administrative, descriptive and structural components as parts of metadata especially within the geospatial domain. How to put together the full picture of metadata with the aim of being able to create FAIR data. (see figure and table below).
In addition structured management of metadata is also an indication of maturity in data management. For example metadata is already kept in all kinds of places (think of archives, GDPR, within local networks, etc), but having this centrally available is a challenge, standardisation is essential.

In this workshop we want to present the insights and experiences in the field of standardization practices, how metadata are being dealt with across disciplines and the underlying technology from those different perspectives. Next, we want to collect input and ideas from the participants on how to get a common view of FAIR and metadata, specifically for professionals dealing with geospatial information.

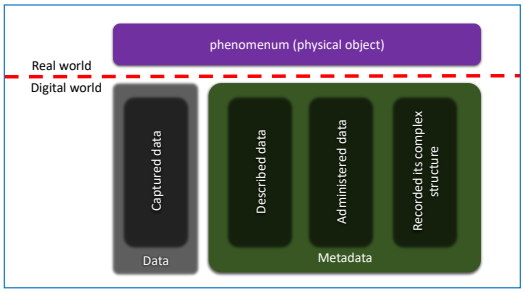

Figure 1 levels/components of metadata

Table 1: Description of categories and subcategories of Metadata

Category	Subcategory	Description
Descriptive	-	Metadata that facilitates the discovery, identification, and selection of data (e.g., creator, date, subject, title, abstract, keywords)
Administrative	-	Metadata that ensures the management of resources, can be subdivided into technical, rights, and preservation
-	Technical	Metadata necessary to open or operate data (e.g., file format; compression; size)
-	Rights	Metadata necessary for data to be compliant with sharing, open access, copyright law, intellectual property rights, and/or ensure the correct users access to sensitive, restricted or paywalled data (licensing).
-	Preservation	Metadata necessary to ensure data remains accessible, viable, and usable (e.g., data treatment; data archiving)
Structural	Content	Metadata necessary to bring together components, the conceptual model or ontology (e.g., the order of pages; the time index of datapoints, relationships, linking objects).

Concept program:

time	what	who	*remarks*
12:30	Come in		
13:00-13:10	Welcome/ program introduction	Jandirk /Cees	
Plenary session			
13:10-13:40	FAIR and Metadata	Bart de Lathouwer	*Cohesion and standardisation*
13:40-14:10	Metadata from old maps as keys to the archives.	Simon C. Kemper	*Humanities*
14:10:14:40	Bring metadata into practice	Paul van Genuchten	*Technology*
Break 20 min			
Group work			
15:00-15:10	Initialise division in groups		*Yellow sticky notes on the 4 letters in FAIR*
15:10-15:40	Discussion in groups		*Discussion on selected topics*
15:40-16:00	summarizing discussions leading to preliminary guidelines		
Plenary session			

16:00-16:30	Reporting of group work	Jandirk/Cees	*Summary by the 2 to 4 most important guidelines (prioritized)*
16:30-16:45	Plenary discussion and summary of findings	Bastiaan	
16:45-17:00	Outlook and closing of the workshop	Jandirk/Cees	
17:00	Drinks		

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Speakers on the workshop

Bart De Lathouwer started his passion for 'location' 25 years ago and took him to Autodesk's geospatial department (Product Manager Server Technologies) and combined with a desire to interoperate to the OGC (Director Innovation Program later President). During that period OGC transitioned from SOAP based services to REST based services that will enabled millions of systems in the years to come. A European Smart City project (Project coordinator) then took him into the realm of Smart Cities and Urban Digital Twins where location and (metadata) standards are the essential enablers for a FAIR city.

Simon C. Kemper is the data scientist of the Services Department at the Nationaal Archief. He specializes in handwritten text recognition, geographic visualization, entity recognition, and other forms of computational linguistics. In the past, he has set up and led several digitisation and data acquisition projects for institutes such as the British Library, the Koninklijke Bibliotheek and the University Library of Delft University of Technology.

Paul van Genuchten , after completing his master's degree in Soil Science, he worked for 20 years in the business world as a software developer at Nieuwland and GeoCat on Geoinformation, in which he mainly supported governments in publishing open data sources according to applicable regulations (INSPIRE). Since September 2021 he has been working at the soil institute ISRIC on the further development and making available of soil-related data products.

Organisation and contact:
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