

Metadata Matters

Jonathan Holmes – Data Management Lead

6th September 2023

Metadata matters – what does it mean?

1. Of or concerning matters to do with metadata

Or

2. Is it asking a question as in “Metadata matters?”

Why Metadata Matters

Jonathan Holmes – Data Management Lead

6th September 2023

What is metadata

Quite simply it is “Data about data”

It provides context with details such as the source, type, owner, and relationships to other data sets but can also convey a whole host of other information.

Why is metadata so important?

Each serving (150g) contains

Energy 1046kJ 250kcal	Fat 3.0g LOW	Saturates 1.3g LOW	Sugars 34g HIGH	Salt 0.9g MED
13%	4%	7%	38%	15%

of an adult's reference intake

Typical values (as sold) per 100g: 697kJ/167kcal

WASMACHINE ENERGIELABEL

UITLEG

NIEUW VANAF MAART 2021

Annotations:

- QR code
- Verbruik bij / aantal wasbeurten
- Vulgewicht
- Waterverbruik
- Programmaduur
- Geluidsniveau
- Centrifugeresultaat

How does this apply to Geospatial Data?



dataset of windmills in the netherlands



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Database of Dutch Windmills and Watermills | Windmills in the ...

The **Dutch Windmill and Watermill Database** is the complete collection of working wind- and watermills in the Netherlands. The database is mainly based on ...



Open Data Stack Exchange

[https://opendata.stackexchange.com/questions/wind...](https://opendata.stackexchange.com/questions/windmill-dataset-in-the-netherlands)

windmill dataset in the Netherlands

10 Apr 2020 — A traditional **windmill**, historically used to mill grain with **wind power**. enter image description here. This Overpass Turbo link will give you ...

1 answer · Top answer: Why not use OpenStreetMap data? You can use the man_made=wind...



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Windmill dataset in the Netherlands - GeoForum

10 Apr 2020 — Few people seem to be aware that the locations of all windmills are available in the **official Dutch Topography Registration** (BRT: ...




Dutch Windmill and Watermill Database

Working Historic Windmills and Watermills of the Netherlands

Nederlandstalige versie

NEW

Latest addition: [Friday 1 September 2023](#) 56 mills changed.

 Find working Dutch mills **fast** on

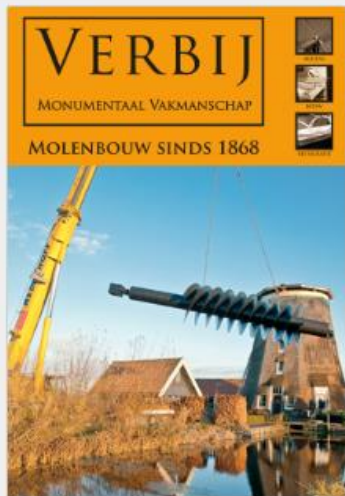




tabel kaart 

 [Advanced search for mills in the Netherlands](#)

Tip: Find Dutch mills on a map [per province](#)



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windmill dataset in the Netherlands

Ask Question

Asked 3 years, 4 months ago Modified 3 years, 4 months ago Viewed 50 times

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Since the Netherlands is famous with the windmill, how come I can't find the spatial dataset of it? I tried to look at :

```

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https://data.overheid.nl/
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https://utrecht.dataplatform.nl/
http://rotterdamopendata.nl/
https://denhaag.dataplatform.nl/
  
```

Anyone knows where can I find it?

data-request geospatial europe

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edited Apr 10, 2020 at 11:38
 philshem
 17.5k ● 7 ● 67 ● 169

asked Apr 10, 2020 at 10:28
 Jack Zaki Zakou Fahmi
 Jallani
 143 ● 3

Add a comment

1 Answer Sorted by: Highest score (default)

Why not use OpenStreetMap data? You can use the man:made=windmill tag

A traditional windmill, historically used to mill grain with wind power.



This Overpass Turbo link will give you all windmills in the Netherlands. Note that this will include a fair amount of insignificant tiny windmills used to hose water from a canal in a polder, not the typical "picture post card" type big ones that you can enter and may even have living quarters

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Windmill dataset in the Netherlands

Datasets



zakiul_fahmi


apr. '20

Since the Netherlands is famous with the windmill, how come I can't find the spatial dataset of it? I tried to look at :

 pdok.nl


Home - PDOK 5

Bij PDOK vind je open datasets van de overheid met actuele geo-informatie. Deze datasets zijn benaderbaar via geo webservices, RESTful API's en beschikbaar als downloads en linked data.

 data.overheid.nl

Overheid.nl
Open data van de Overheid

Dataregister van de Nederlandse Overheid 5

 data.amsterdam.nl



Data en informatie 1

Data en informatie is dé website voor iedereen die op zoek is naar objectieve, betrouwbare en actuele data over Amsterdam.

<https://utrecht.dataplatform.nl/> 1

<http://rotterdamopendata.nl/> 2

<https://denhaag.dataplatform.nl/> 1

Anyone knows where can I find it?



John_Schaap PDOK

1 apr. '20

You can find datasets via:

nationalegeoregister.nl

Nationaal georegister 29

INSPIRE discovery service (CSW) van het Nationaal Georegister.

nationalegeoregister.nl

Nationaal georegister 27

INSPIRE discovery service (CSW) van het Nationaal Georegister.

Welk onderwerp? Op welke locatie?

[Geavanceerd zoeken](#) [Toon resultaten](#) [Reset](#)

4 resultaten gevonden

Sortering: relevantie

windmolen

Filter

Uitklappen Inklappen

ORGANISATIES

- Provincie Drenthe (1)
- Deltares (1)

TREFWOORDEN

- Locaties (1)
- Windenergie windmolen win... (1)

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BRONTYPE

- Feature catalogus (2)
- Dataset (1)

ONLINE BRONNEN

- OGC:WMS (1)
- OGC:WFS (1)
- Download (1)

JAAR (AANGEMAAKT)

- 2022 (1)
- 2014 (1)

[EAZ windmolens 2022 \(historie\)](#)

provincie Drenthe

Organisatie: Provincie Drenthe
Datum van de bron (laatste wijziging): 2023-01-01
 Ligging van EAZ molens in Drenthe. De windmolen van E.A.Z. Wind is 15 meter hoog (ashoogte) en levert stroom voor 10 huishoudens of voor een boerderij met 80 koeien. De EAZ molens worden ook meegenomen bij de RES opgave en derhalve wordt het aantal...

[Omgevingsbeleid - ERFGOED___BELEVEN_ feature catalogus](#)



[DANK -Windenergie](#)



Organisatie: Deltares
Datum van de bron (aangemaakt): 2014-11-05
Onderwerp(en): [Geo wetenschappelijke data](#)

Het betreft hier wind als duurzame bron voor energieopwekking. In 2012 nemen hernieuwbare energiedragers 11 procent van de totale inzet voor de elektriciteitsproductie voor hun rekening. Vooral windenergie draagt bij aan de productie van...

[Feature catalogus gemaal](#)



Belgium



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List of windmills in Belgium

2 languages

Contents [hide]

(Top)

Brussels-Capital Region

▼ Flemish Region

Antwerp

East Flanders

Flemish Brabant

Limburg

West Flanders

▼ French-speaking Region

Hainaut

Liège

Belgian Luxembourg

Namur

Walloon Brabant

Notes

References

Article Talk

Read Edit View history Tools

From Wikipedia, the free encyclopedia

This is a **list of windmills in Belgium**.

Belgium is divided into three regions, two of which are subdivided into five provinces each.

Brussels-Capital Region [edit]

Location	Name of mill	Type	Built	Notes	Photograph
Anderlecht	Luizenmolen	Staakmolen	1996	Molenechos [?] (in Dutch)	
Evere	Molen van Evere	Stellingmolen	1841	Molenechos [?] (in Dutch)	
Woluwe-Saint-Lambert	Verbrande Molen	Staakmolen	1988	Molenechos [?] (in Dutch)	



Example of a Belgian windmill (Stenen Molen Klockemolen in Zwevegem)

Flemish Region [edit]

Antwerp [edit]

Further information: List of windmills in Antwerp (province)

East Flanders [edit]

Further information: List of windmills in East Flanders


Flemish Brabant [edit]

Further information: List of windmills in Flemish Brabant

Limburg [edit]

Further information: List of windmills in Limburg (Belgium)

Great Britain




photograph every grid square!

You are

Windmills

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Images also und

A brief description of different types and list of remaining windmills in Britain and Ireland.


Types

Post Mill

A small wooden mill based on a central pivot, turned manually by a tiller.




The remains of this mill show the central post that the whole structure would pivot on.



Smock Mill

Varying in size, a timber weatherboarded structure on a brick base. The top section with sails pivots automatically with the wind with a tail sail.




Cranbrook windmill is the tallest smock mill, with eight storeys.



Tower Mill

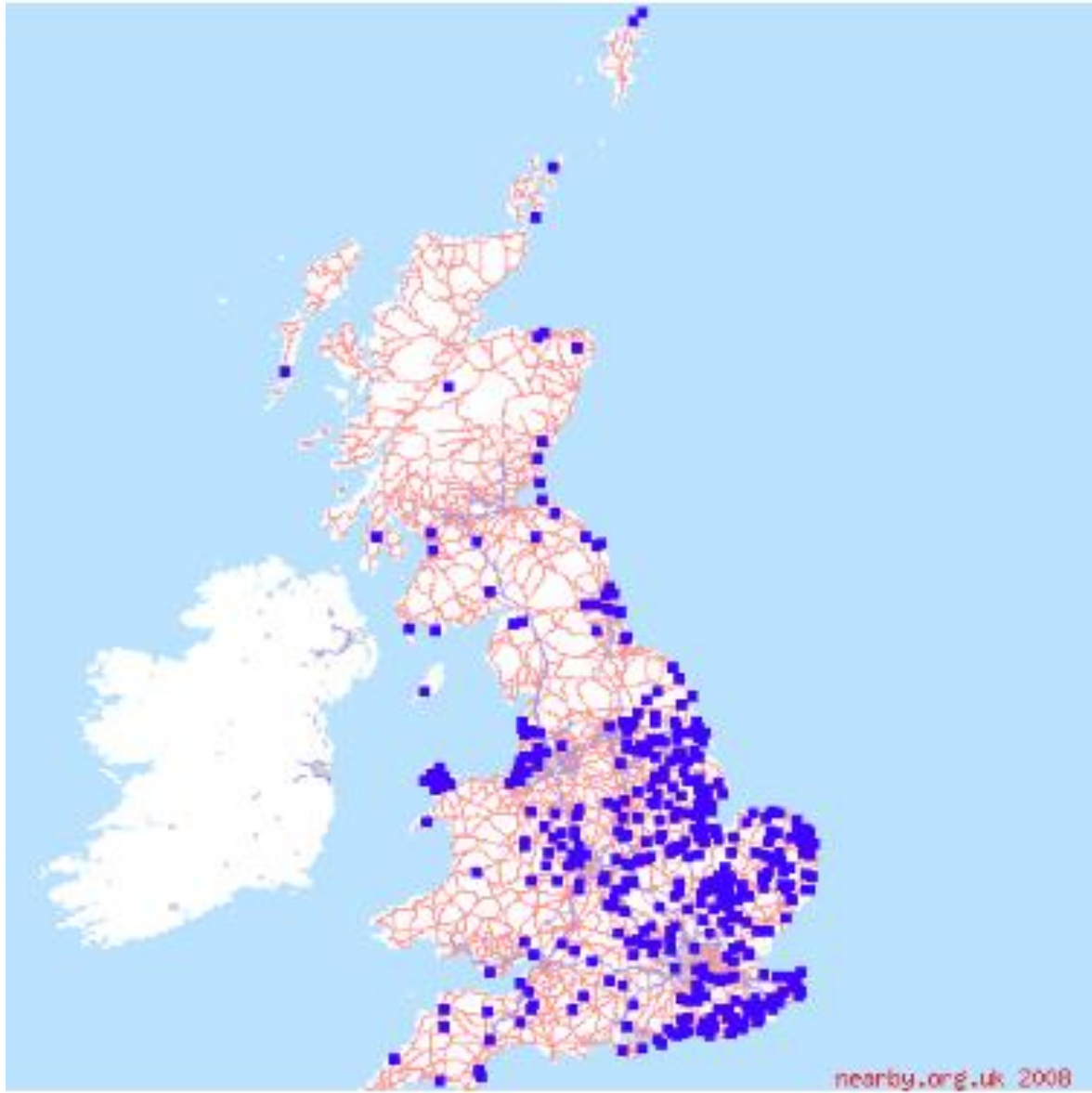
A substantial larger structure, typically built of brick. A timber built roof cap (sometimes called an 'onion cap') with attached sails allows it to pivot independently from the main tower to face the wind, this is controlled by a fan tail sail.



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What customers need.

- Q Quality
- F Findable
- A Accessible
- I Interoperable
- R Reusable

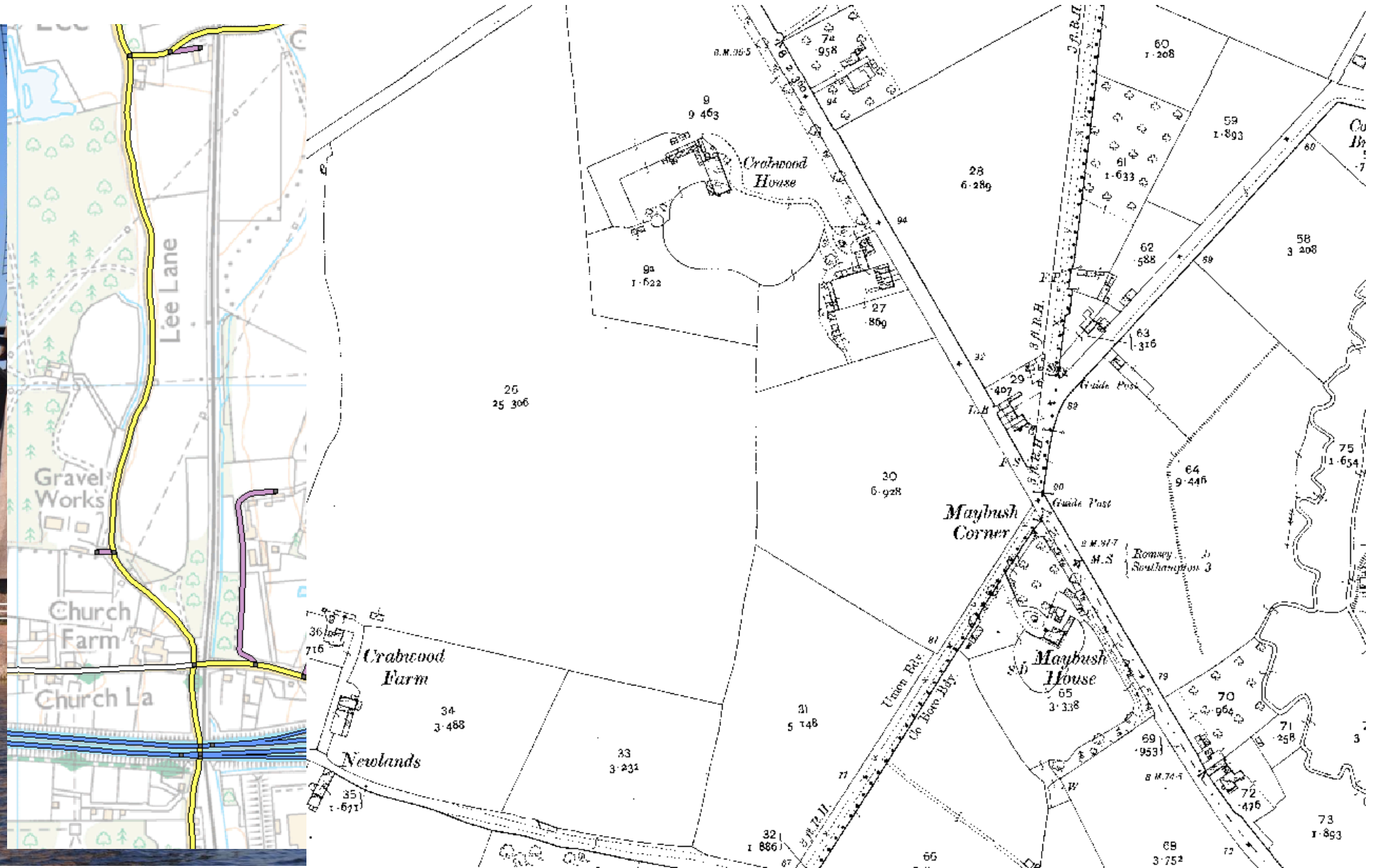
Quality metadata

- Coverage
- Completeness
- Positional Accuracy
- Thematic Accuracy
- Logical Consistency
- Useability

The challenge for Data Producers

We must make data that meets the FAIR principles

But how do we convey the message that data is suitable for a particular use?



The answer is metadata

The real challenge is how

Metadata matters – what does it mean?

1. Of or concerning matters to do with metadata

Or

2. Is it asking a question as in “Metadata matters?”

Of course it matters. Almost as much as the data itself.