

geographic & open data in Switzerland - understanding the flow of metadata -

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Abstract

Forces are joined (geocat.ch, opendata.swiss, I14Y) to optimize the **flow of geographic and open metadata in Switzerland**. Through the example of geometadata, get the latest developments in metadata management. Following the presentation, a workshop will provide opportunity to dive into the dedicated portals and their functionalities, illustrated by a cantonal usecase (Canton of Fribourg).



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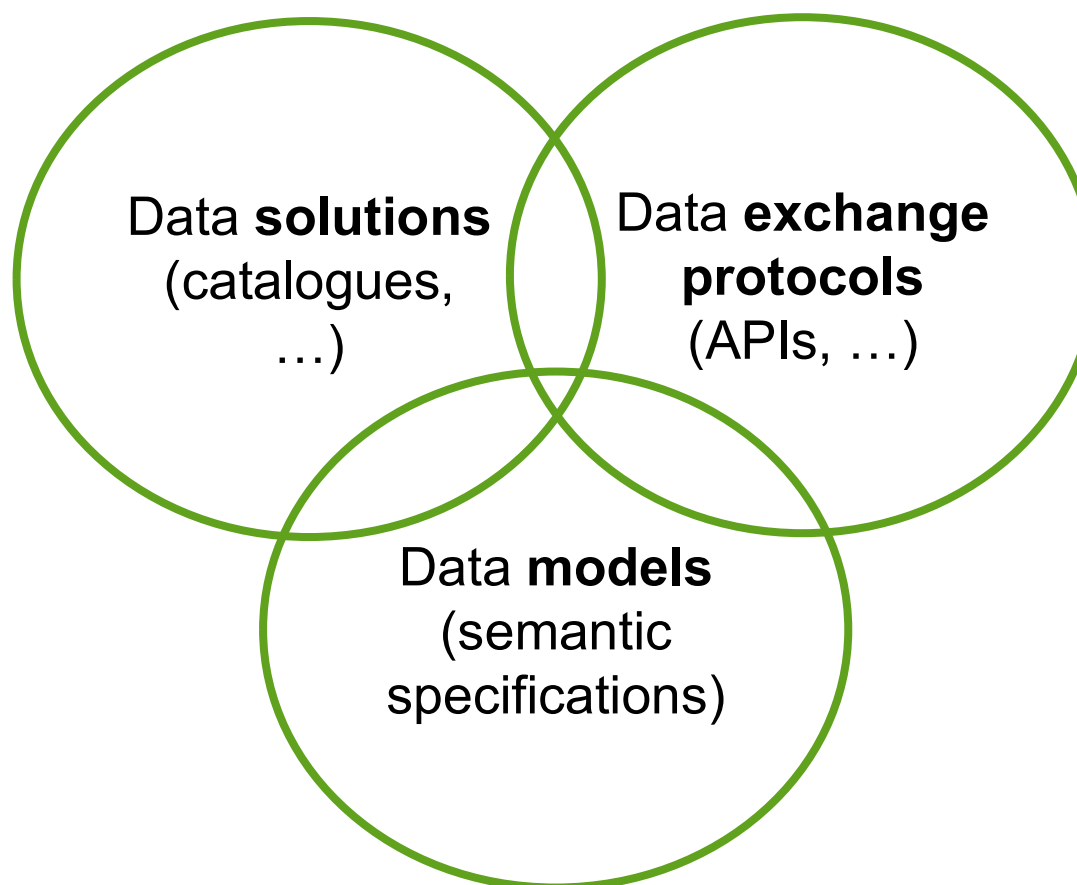


Agenda

- Discovering data
- Discovering geodata
- What about geometadata
- Metadata flow
- Questions

Discovering data

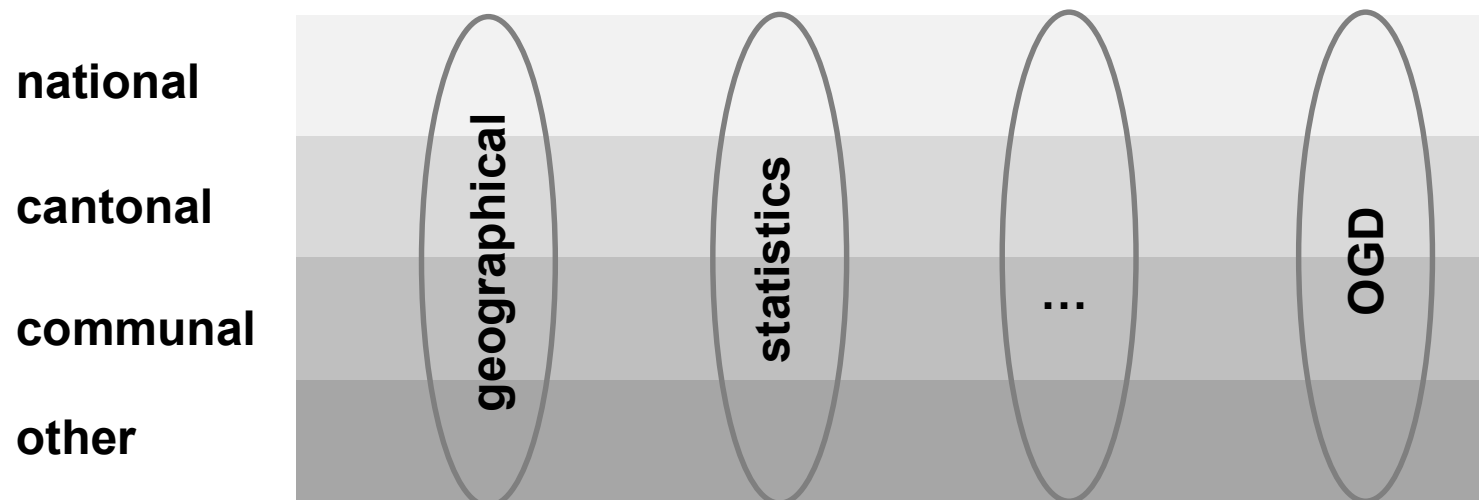
How to make data more accessible?



Discovering data

Data solutions / Data models / Data exchange protocols

- clear objective
- domain specific
- level specific
- provider specific



Discovering data

Exemples of **national** data solutions
(data, metadata, services)

- **Geography:** *geo.admin.ch
geocat.ch, geodienste.ch
- **Transport:** opentransportdata.swiss
- **Statistics:** STAT-TAB, chstat.ch
- ...
- **OGD:** opendata.swiss
- **Public administration:**
LINDAS, I14Y.ch
- ...

Discovering geodata

Strategie Geoinformation Schweiz
Stratégie suisse pour la géoinformation



Together with all stakeholders (Confederation/federal offices, cantons, municipalities, ...), the «Swiss Geoinformation Strategy» aims to:

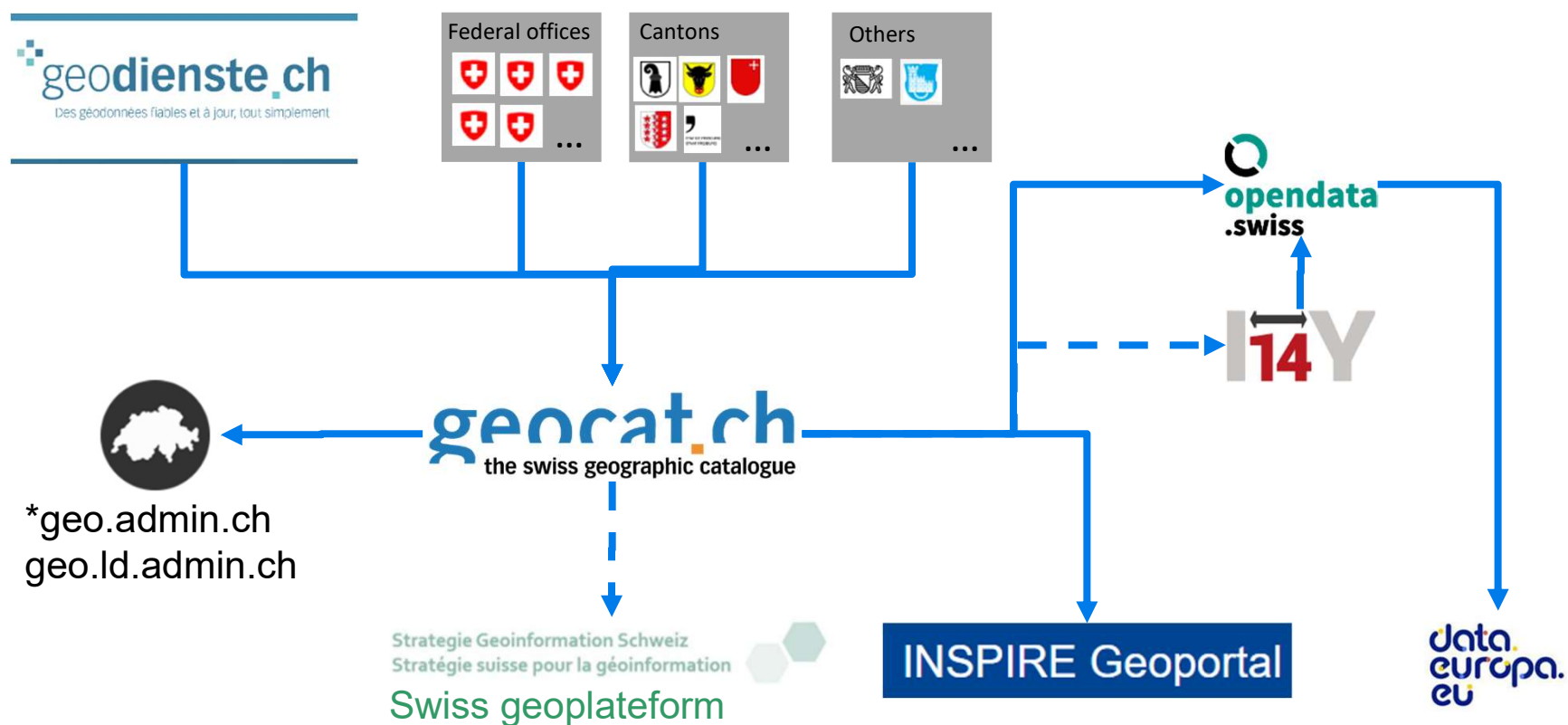
- make **reliable, detailed, up-to-date and interoperable geoinformation accessible**
- make geodata available to all users in a **simple, interlinked manner and, where appropriate, in real time**
- ensure **standardized documentation** of data using **metadata** (since 2007 in the *Geoinformation Act / swiss geoinformation strategy - partial objective 2.3 - Action Plan 2024, 2024.01.10*)

What about geometadata

High-quality and standardized geometadata

- **once-only** principle
- **FAIR** data principle (Findable, Accessible, Interoperable, Reusable)
- **standardized** geometadata: since 2007 in the *Geoinformation Act* - GM03 (2005) – eCH-0271 (2024-25)
- **domain** specific
- **legislation** specific
- **open & non open** data
- **long-term** management and maintenance

What about geometadata



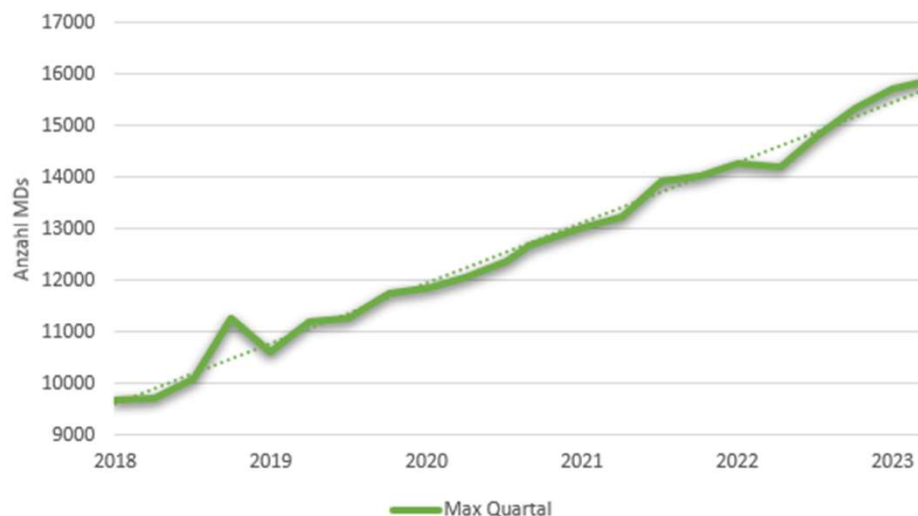
What about geometadata

15999 published metadata records (geodata, geoservice, models, documentation)

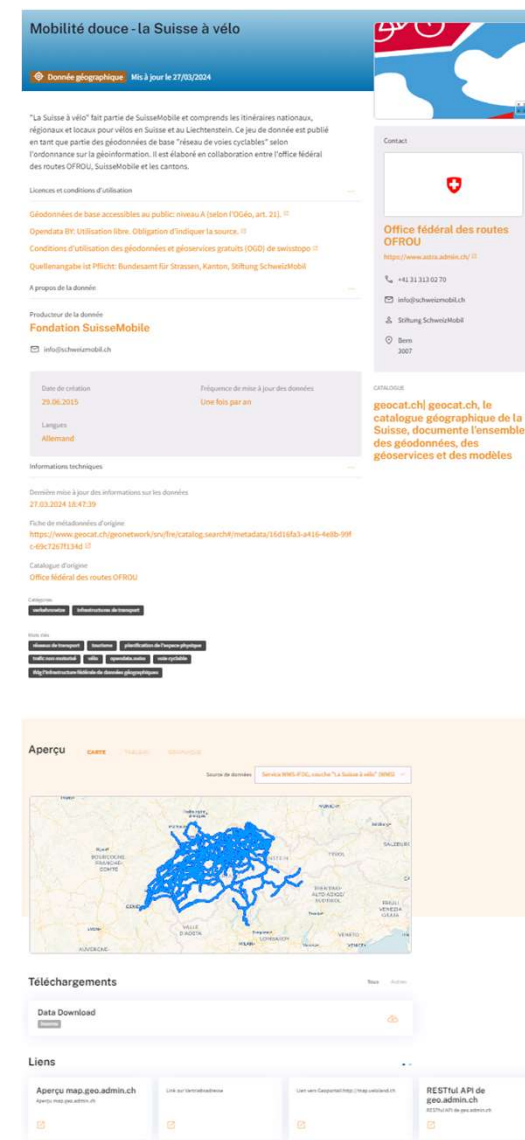
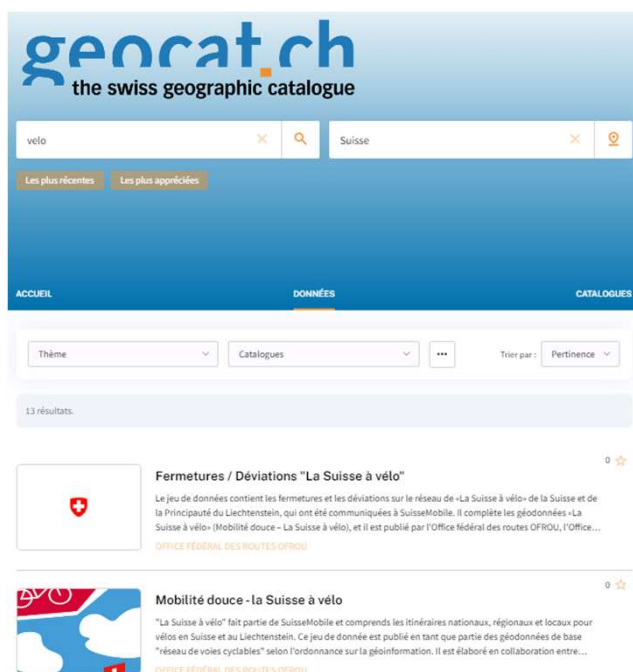
6235 from **direct** partner **9764** from **harvesting** partner

4717 opendata records

73 partners (federal offices, cantons, municipalities, universities, ...)



What about geometadata





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14Y

What about geometadata

geodienste.ch
Des géodonnées fiables et à jour, tout simplement

Rechercher [Essayer le nouveau geocat.ch](#) S'identifier - Français -

geocat.ch
the swiss geographic catalogue

Rechercher ...

Rechercher parmi 15887 jeux de données, services et cartes, ...

Recherche d'adresse, parcelles ou c

- Partager
- Imprimer
- Dessiner & Mesurer sur la carte
- Outils avancés
- Géocatalogue [Changer thème](#)
- Cartes affichées



swiss
geoplatform



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geonrat.ch
the swiss geographic catalogue

opendata
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I14Y
i14y.admin.ch

Metadata flow

geographic

OGD

public administration

the swiss geographic catalogue

- documents all the **geodata, geoservices and models** of Switzerland
- geodata from **federal offices, cantons, municipalities, research institutes, private companies...**
- geometadata are conform to **swiss standard for geometadata GM03 (will be replaced by eCH-0271)**
- Interface** to other platforms, such as *geo.admin.ch, opendata.swiss, I14Y, INSPIRE, cantonal and specialised data portals

Catalogue

API

Newsletter

15 999 published Metadata

73 partner

14.05.2024

RESOURCE TYPE

ADMINISTRATIVE LEVEL

ACCESS

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Federal Office of Topography swisstopo
www.swisstopo.ch

Find Swiss Open Government data

Currently, over 130 organisations, publish their data on the portal in an open, machine-readable format. This includes data from all areas of the administration, e.g. health insurance premiums, demographic statistics, current weather and mobility.

Our Goals

- Increase the visibility of open government data
- Promote the reuse of datasets
- Help build the open data community

Portal

Begin your data quest!

Over **10,000** datasets are available on opendata.swiss

Handbook

Do you wish to publish or use data?

handbook.opendata.swiss is an online manual aiming at providing support to publish or use open government data.

Showcases

Have you developed a project **reusing data** referenced on our portal? Share it with us!

Follow us

Email: opendata@i14y.admin.ch
 Newsletter: www.news.i14y.admin.ch
 More information: www.i14y.admin.ch/itog/

The I14Y Platform

The I14Y platform publicly describes datasets that are suitable for reuse. The platform can also be used to create an internal inventory of one's own data collections and data concepts. Data concepts published on the I14Y can be reused, regardless of whether the actual data is freely accessible. All content can also be retrieved automatically. This makes the platform a central tool for data harmonisation and standardisation.

Metadata catalogue

The metadata catalogue documents which public authority holds which data collection, how that data is structured, how it may be accessed and reused. In addition, a directory of electronic interfaces (APIs) facilitates access to the actual data.

Data Concepts

Concepts describe a data element clearly and completely. Concepts published on I14Y can be reused. This is a key feature of the platform as it leads to a gradual semantic harmonisation of data. In the future, it will be easier to exchange data between different authorities, where this is allowed and desired.

The Movie

How is the reuse of data and the I14Y platform linked? The short video 'Into Switzerland's digital future with the I14Y' explores it in an easy-to-understand way.

Contact us

Email: i14y@i14y.admin.ch
 Homepage: www.i14y.admin.ch
 I14Y Newsletter: www.news.i14y.admin.ch

Metadata flow

Documentation & exchange (geometadata)

Specific standard (data model)

- ISO 19115
- GeoDCAT-AP
- GM03 - eCH-0271

Exchange (not domain-specific)

Common metadata vocabular

- DCAT, ...

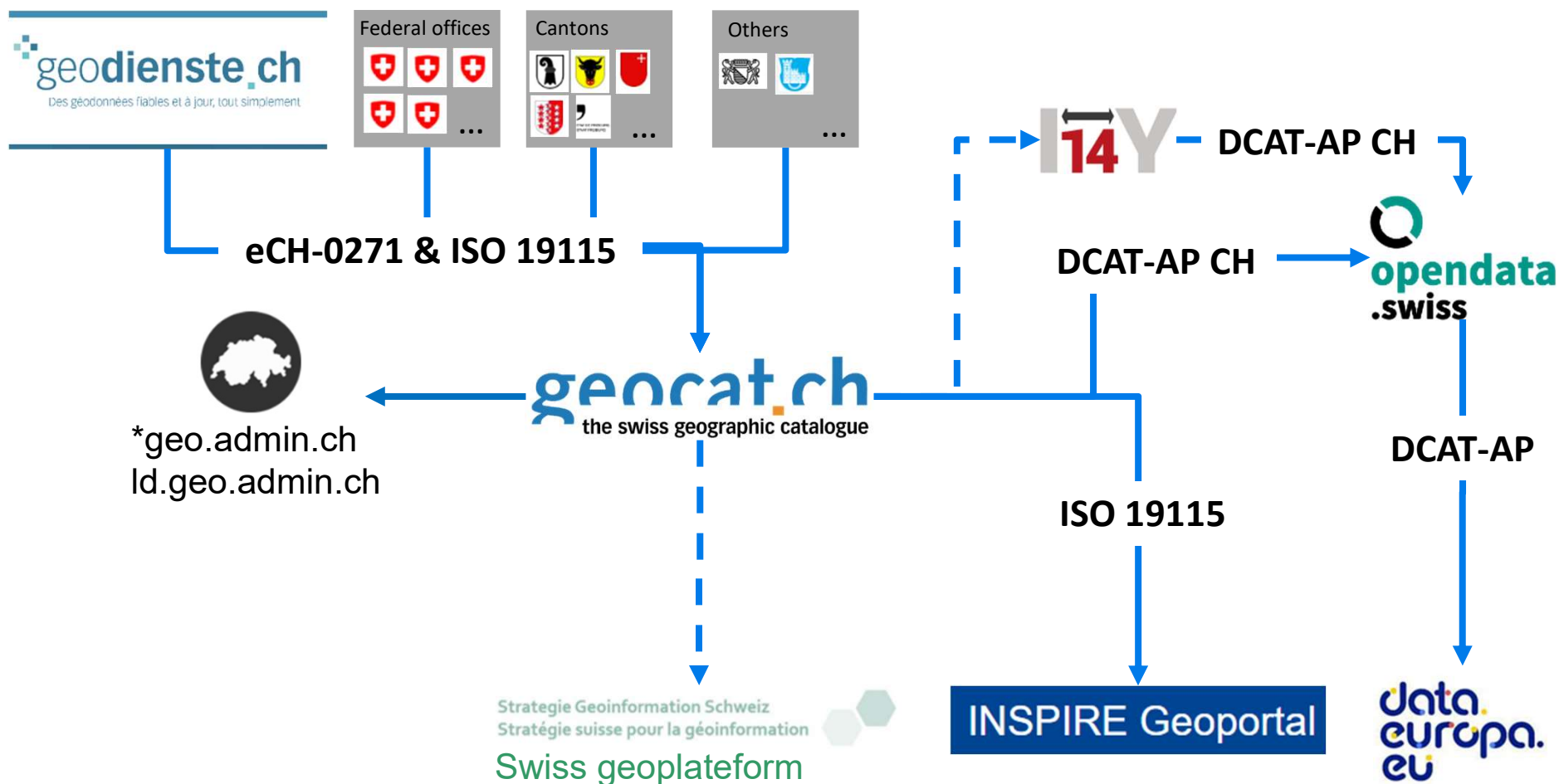
Application profil for exchanges between portals in Europa

- DCAT-AP, ...

Application profil for exchanges between portals in Switzerland

- DCAT-AP CH, ...

Metadata flow





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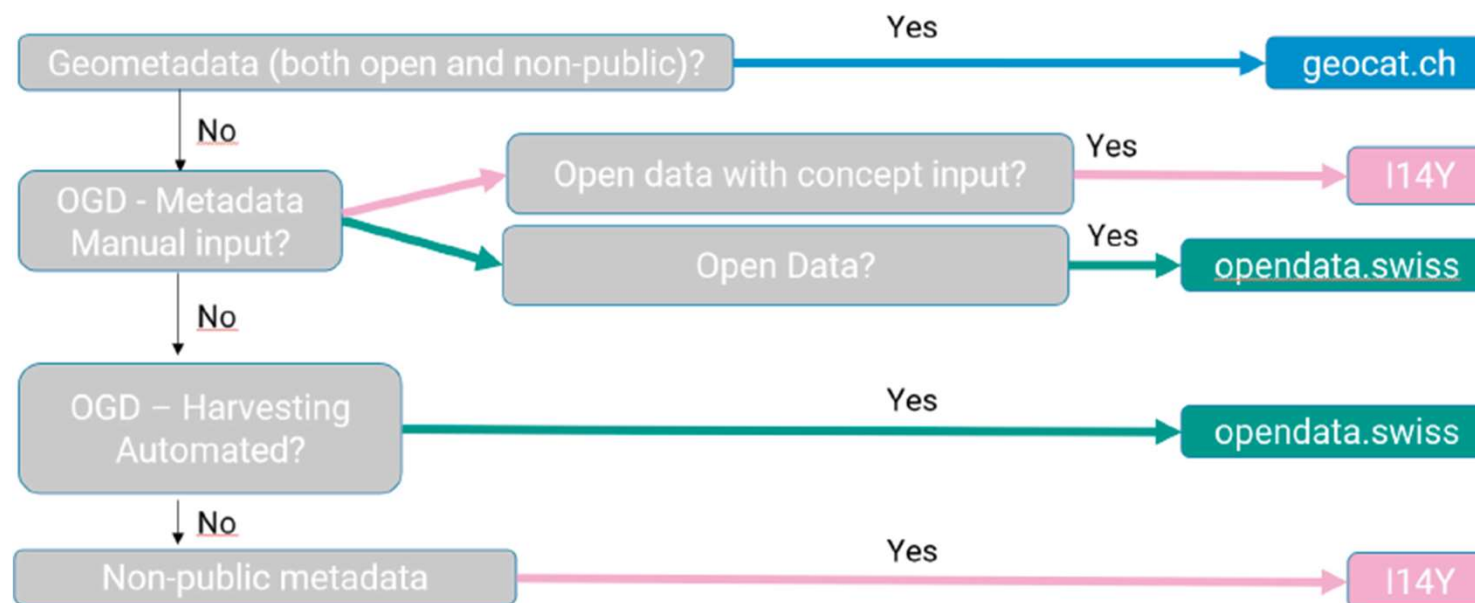
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I14Y

Metadata flow

Metadata flow

First contact to publish metadata





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Questions





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Thank you very much for your attention

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