



wissen wohin
savoir où
sapere dove
knowing where

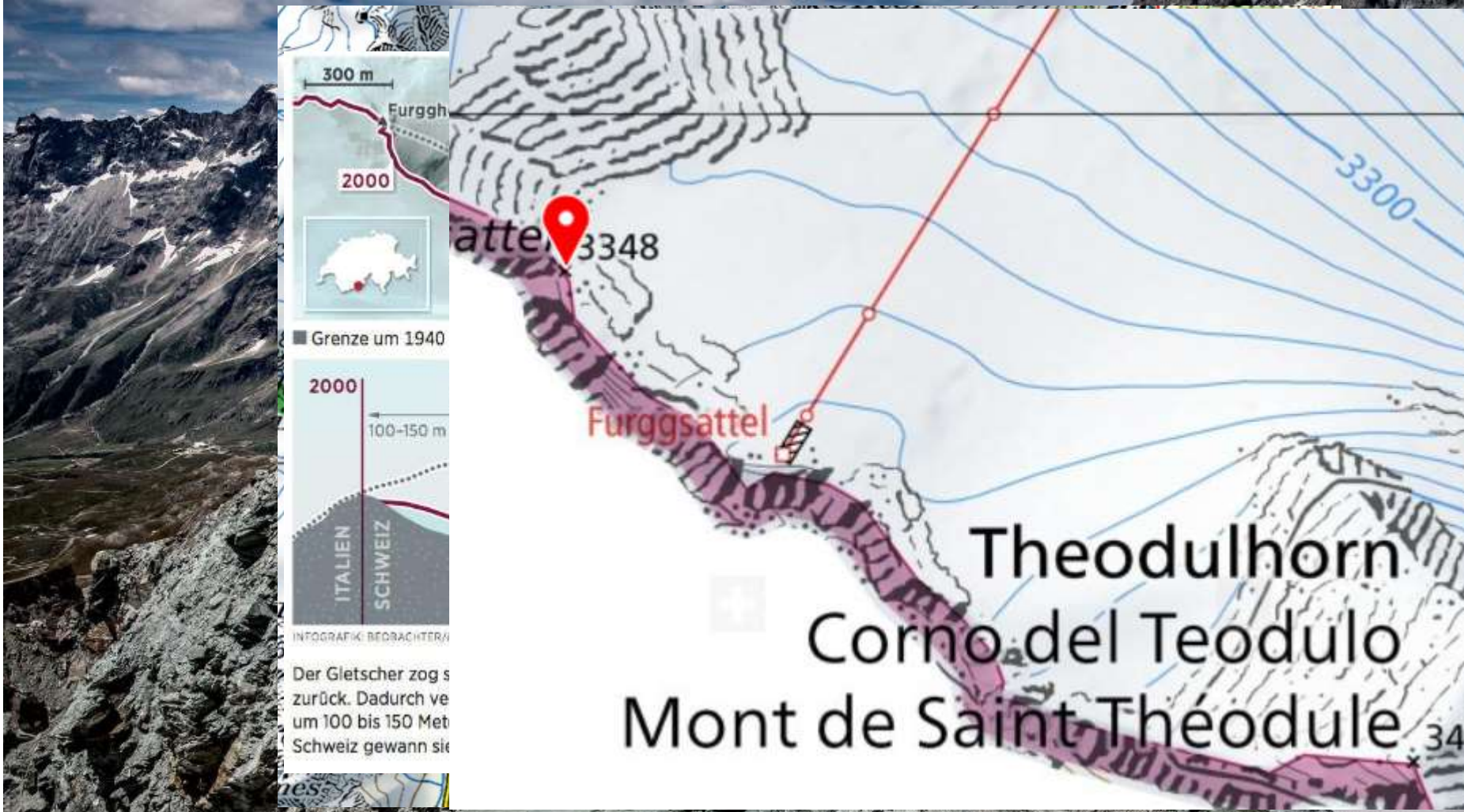
Switzerland- A special Use Case for INSPIRE?

November, 27th 2018

Dr. Christine Najar



Cross-Border Issues





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- 1. Switzerland and swisstopo**

- 2. INSPIRE @ swisstopo**

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 - General Examples
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swisstopo-Switzerland



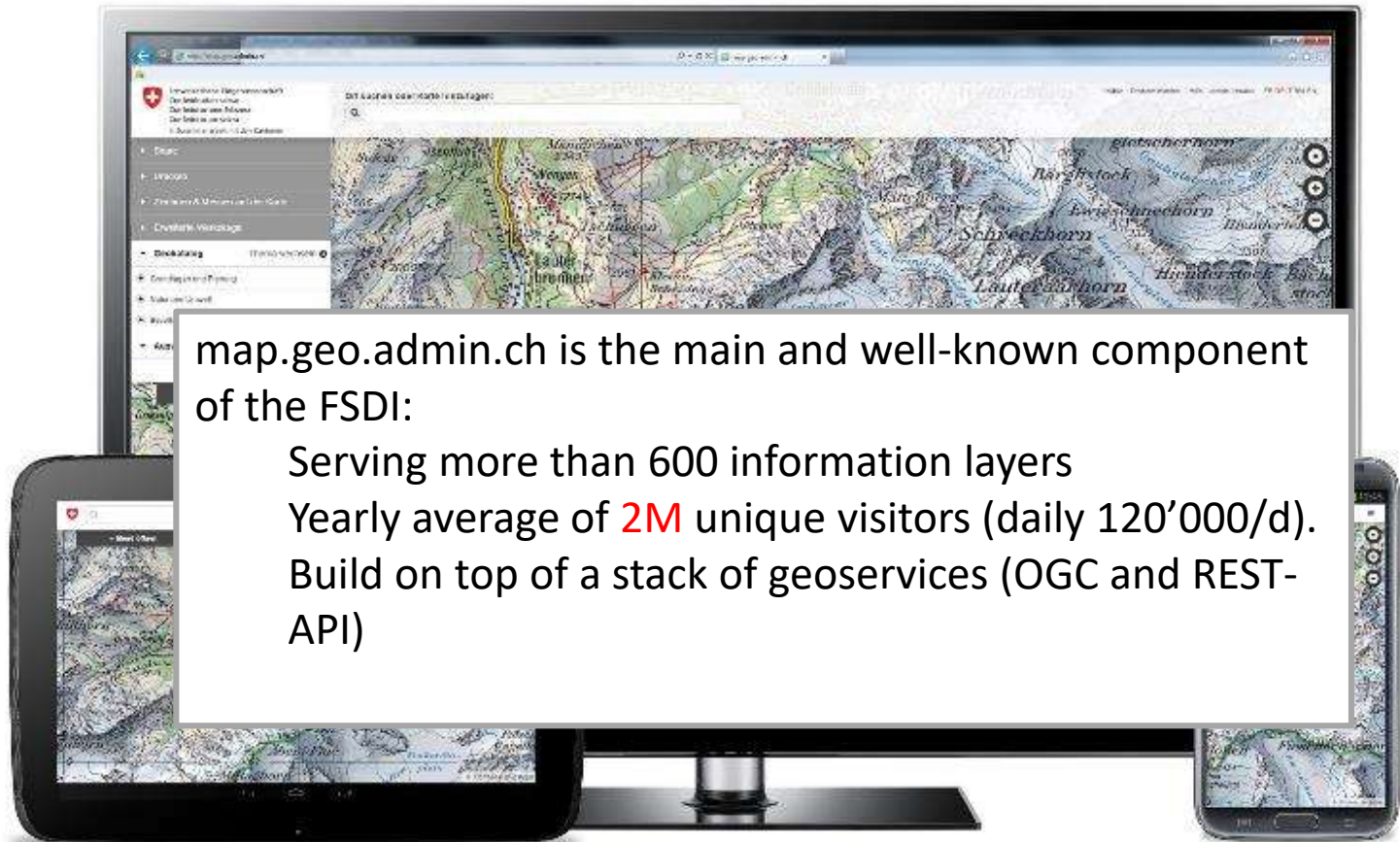
- Federal Office of Topography of Switzerland swisstopo (Swiss NMA).
- Legal mandate for developing, coordinating, and operating the Federal Spatial Data Infrastructure:
 - Geoinformation Act of 5th October 2007:
 - ... enable the **easy exchange and wide use** of the geodata and defines 354 basic geodata sets.

The legal framework commits to:

- Create at least one **conceptual model** for each basic geodata set.
- Describe the data with a set of **standardized metadata**.
- Provide **view** and **download services**.



Federal geoportal with map viewer: map.geo.admin.ch





INSPIRE in Switzerland



General

- swisstopo participates as an **observer in INSPIRE** since the beginning and provides the **NPOC for Switzerland**.
- The **strategic necessity** of participating and contributing to an international GeoWorld is self-evident.

Legal Situation

- Switzerland is **not member of EU** or EEA (European Economic Area).



swisstopo strategy



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Usability



swisstopo enhances the usability of its data and products.



swisstopo Strategy 2020

Improved, future-proof usability

swisstopo will improve the usability of its data and products.

... will provide data and products that meet international requirements;

...



Feasibility Study

- **Feasibility study:** Aug 2016-Aug 2017
- Selected test data sets: **Administrative Units, Geographical Names and Buildings**

Goals:

- Compare requirements Switzerland and INSPIRE/ELF.
- Determine and quantify time and costs.
- Define architecture and verify processes

Results:

- ⇒ The **technical, organizational feasibility** as well as the **know-how can be provided by swisstopo.**
- ⇒ Some **organizational issues** have to be clarified with the other Federal Offices.



INSPIRE step-by-step = Lean?


Principles swisstopo:

- Produce **step-by-step** according to **INSPIRE specification** and offer to **other international projects** .
- **Services:** CSW, WMS, ATOM/OS (no WFS!)
- **Monitoring:** If the services are not used, they will be disabled.



Swiss contribution to INSPIRE/ELS (1/3)

- WMS: <https://wms-inspire.geo.admin.ch/?SERVICE=WMS&Request=GetCapabilities>



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra


In Zusammenarbeit mit den Kantonen

Ort suchen oder Karte hinzufügen:

- ▶ Teilen
- ▶ Drucken
- ▶ Zeichnen & Messen auf der Karte
- ▶ Erweiterte Werkzeuge
- ▶ Geokatalog Thema wechseln
- ▼ **Dargestellte Karten**
- ☒ Geographical Names ⚙️
- ☒ Administrative boundary ⚙️
- ☒ Administrative unit ⚙️

Nach weiteren Karten suchen?

▲ Menü schliessen





Swiss contribution to INSPIRE/ELS (2/3)

- ATOM/OS: <https://atom.geo.admin.ch/inspire/service.xml>

The screenshot shows the INSPIRE GEOPORTAL interface. At the top, there are logos for the European Commission and the INSPIRE GEOPORTAL. Below the logos, the text reads "INSPIRE GEOPORTAL" and "Enhancing access to European spatial data". A navigation bar contains links for "Home", "Priority Data Sets Viewer", "INSPIRE Thematic Viewer", and "Harvesting status". A search bar is visible in the top right corner.

Data sets in Switzerland

200 | 2

Countries ▾
Themes ▾

Filters: Downloadable Viewable Show data with national coverage

Title	Properties
Administrative units Switzerland - INSPIRE	
Geographical Names Switzerland - INSPIRE	



CRD Product by EuroGeographics

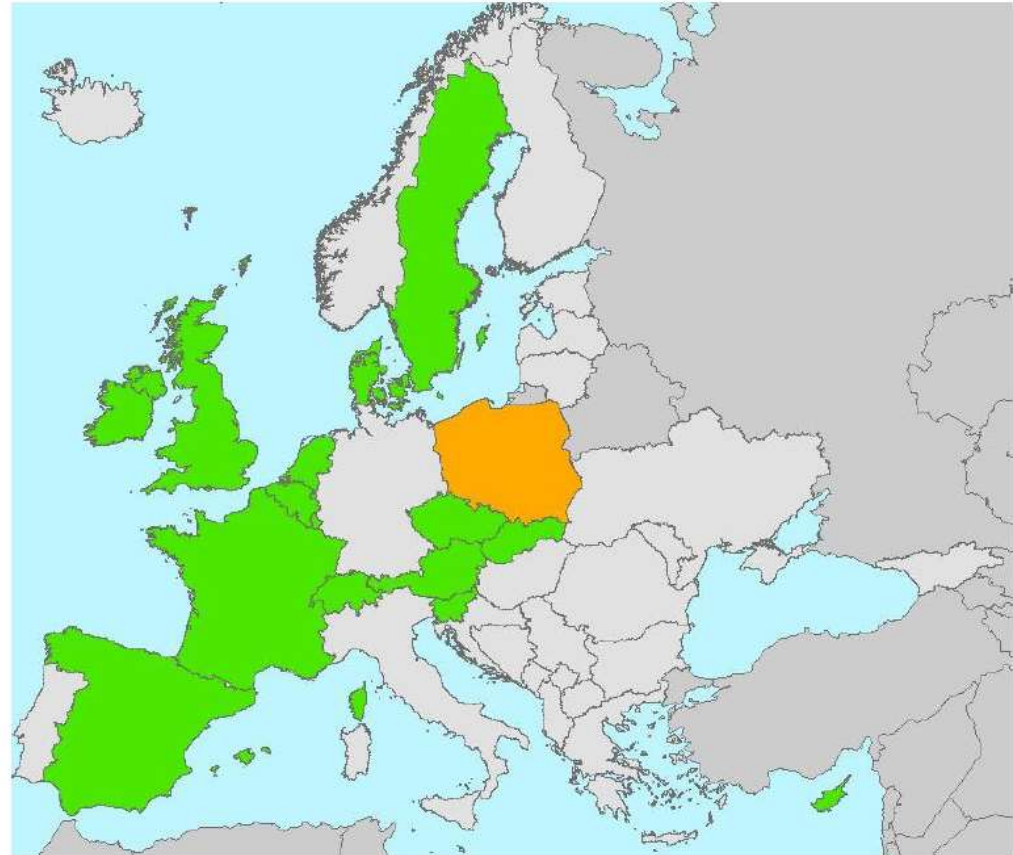
Contributions to date

Status of contributions:

17 countries have delivered data

(green: delivered whole country /
orange: test data)

- HY: 16
- Road: 17
- Rail: 15





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Cross-Border Use-Cases

- Crossboundary Agricultural subsidies



Federal Office of Topography swisstopo

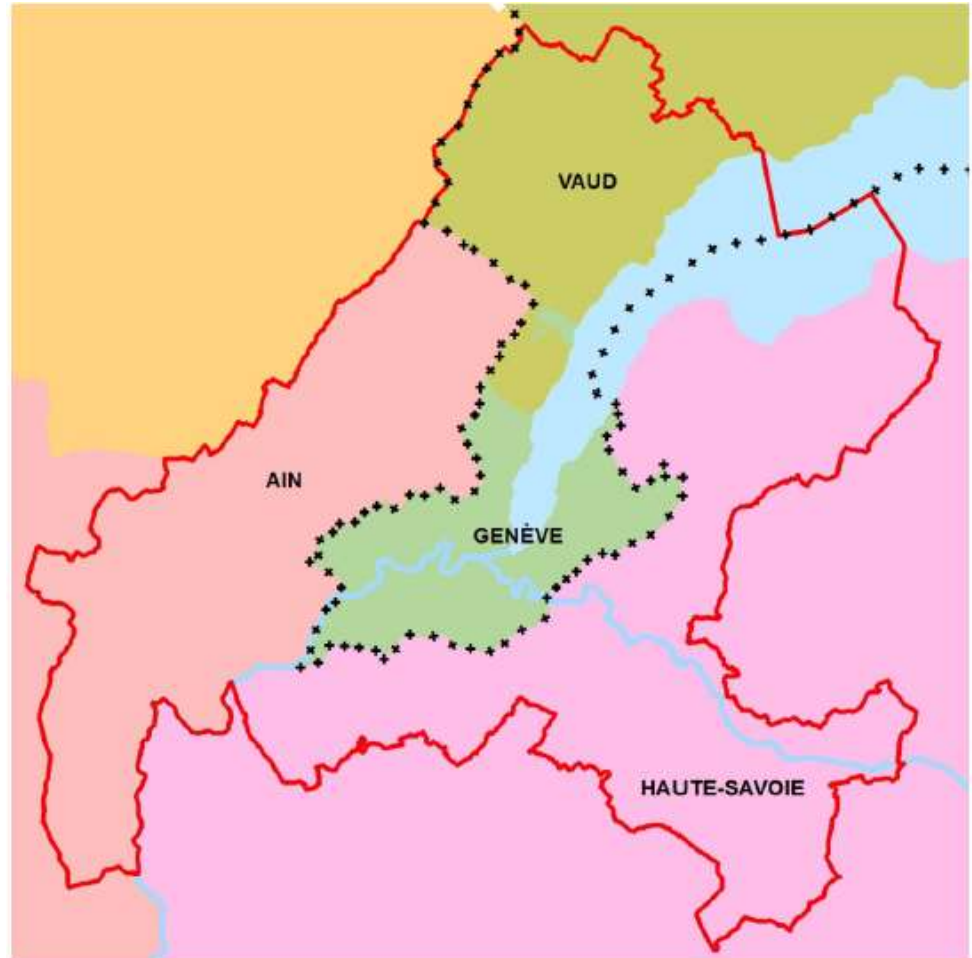
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Cross-Border Use-Cases

- **Geneva: “Grand Genève”** founded SITG (2 Swiss cantons and 2 French départements) & partners
- Defined different themes of reference data for transboundary collaboration.

Source:<https://ge.ch/sitg/calendrier/espace-public/les-geodonnees-transfrontalieres-et-leurs-utilisations-1304>





Cross-Border Use-Cases

AG Bodensee Geodatenpool

- Feasibility study for harmonized INSPIRE vector data



Source: <http://www.bodensee-geodatenpool.net/>



Conclusion of Feasibility Study Lake Constance (Work in progress)



nd agreements

nal model should

lem

ross-border

November, 27th 2018

— _1_Eisenbahn_Kreuzlingen_BW — _1_Eisenbahn_Kreuzlingen_CH

0 5 10 20 Meters



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Conclusion

Is Switzerland a special use case for INSPIRE?

YES: legally always a bit different than rest of Europe

NO: small country with many languages and cross-border questions and discussions.

BUT: we have to make sure INSPIRE is used (in general) and used for the right purposes...