

Complying with administrative datamodel requirements

A Swiss perspective

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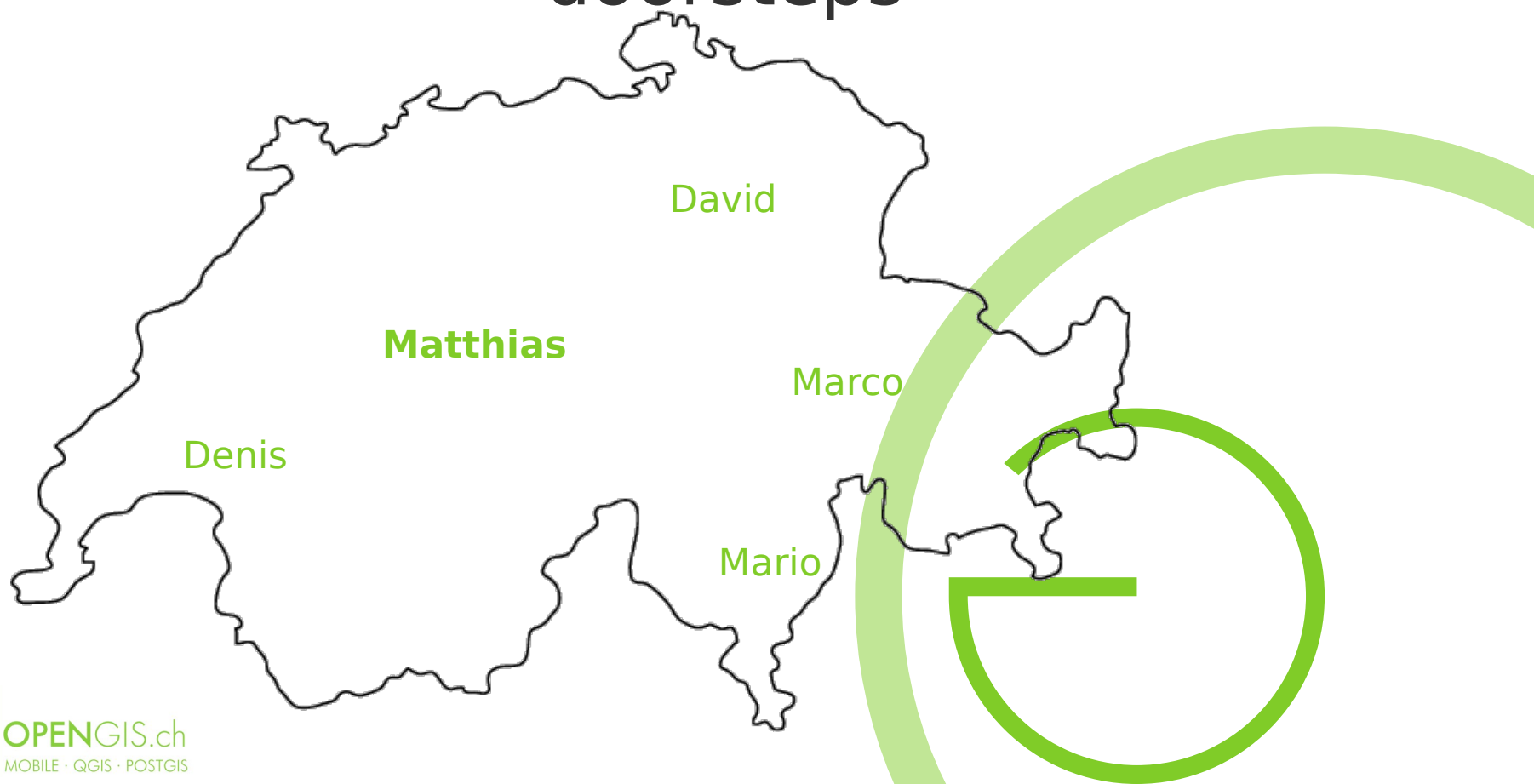
A grayscale portrait of a man with a beard and mustache, looking directly at the camera. The image is semi-transparent, allowing text and graphics to be overlaid.

@_mkuhn?

- Application Engineer
- Geographer
- QGIS Core Developer
- OPENGIS.ch director

OPENGIS.ch LLC

Opensource geospatial experts at your
doorsteps



@_edigonzales?

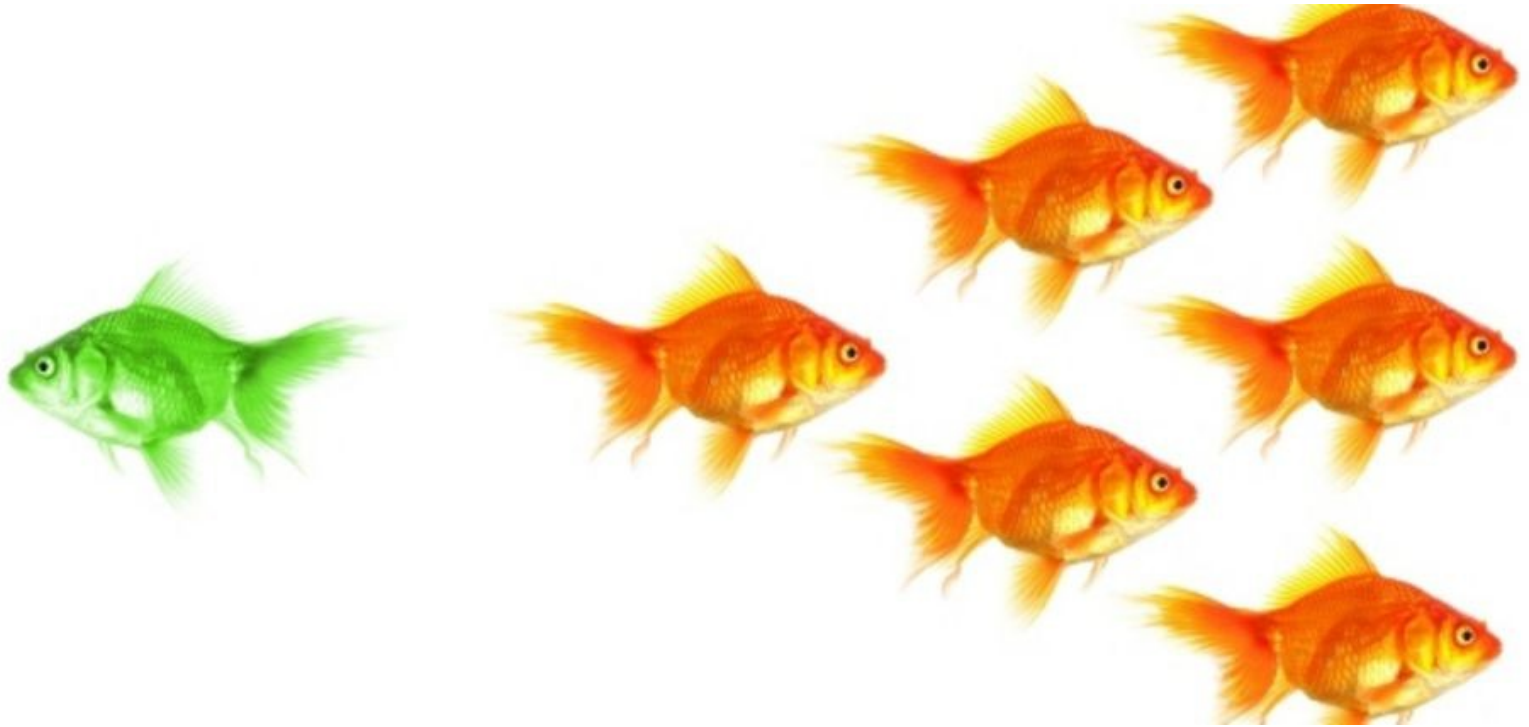
- Surveyor
- Interlis mastermind
- Canton of Solothurn
- Cycling enthusiast

Why harmonize data?

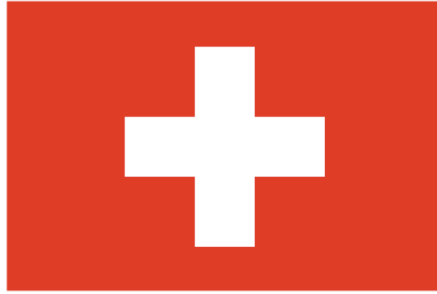
- Decision making based on well-defined data
- Emergencies don't respect political borders
- Interoperability
- Top Down Approach



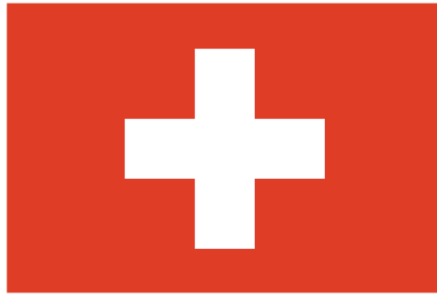
Harmonizing data



Who needs it?



Who does it?



Concept meets reality



How to get there

- Two approaches
 - Record and transform
 - Record into the model



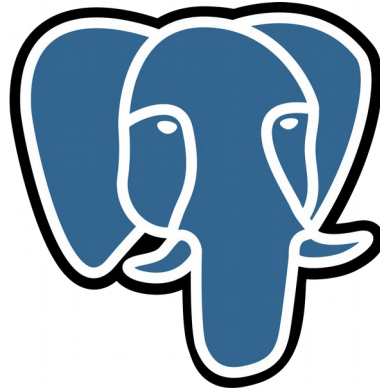
Record and Transform

- Purpose specific tool and datamodel
- ETL
 - + Already existing data
 - + Very specific use cases and workflows
 - Continuous maintenance on tool upgrade
 - Fuzzy matching between tool and data model

Record into the model

- Directly digitize into the data model
 - + Lower initial costs
 - + Data and model match 100%
 - Models need to be “recording friendly”
 - Customized workflows need special attention

Tools



ili2db



QGIS Model Baker



From model to form

INTERLIS 2.3;

MODEL Lebewesen_LV95_V1_0 (de)
AT "http://geo.sh.ch" VERSION "2018-05-13" =
IMPORTS GeometryCHLV95_V1;
TOPIC Mensch =
 DOMAIN
 HaarfarbeTyp = (
 Blond,
 Braun,
 Schwarz,
 Rot
);
 CLASS Person =
 AHV: **MANDATORY** TEXT*50;
 Name : **MANDATORY** TEXT*50;
 Vorname : TEXT*50;
 lebendig : **MANDATORY** BOOLEAN;
 Geburtsdatum: INTERLIS.XMLDate;
 Geburtsort: GeometryCHLV95_V1.Coord2;
 UNIQUE AHV;
 END Person;
END Mensch;
END Lebewesen_LV95_V1_0.

Layer

- person
- Domains
 - haarfarbeTyp

person - Objektattribute

Aktionen

Allgemein

AHV: NULL

Name: NULL

Vorname: NULL

lebendig: ☐

Geburtsdatum: 17.05.18

Geburtsort:

Haarfarbe: Blond
Braun
Schwarz

OK Abbrechen

Model complexity



may be suitable

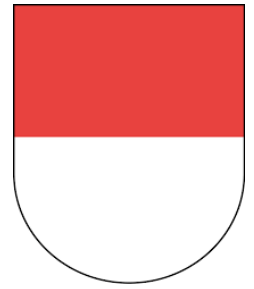


very suitable

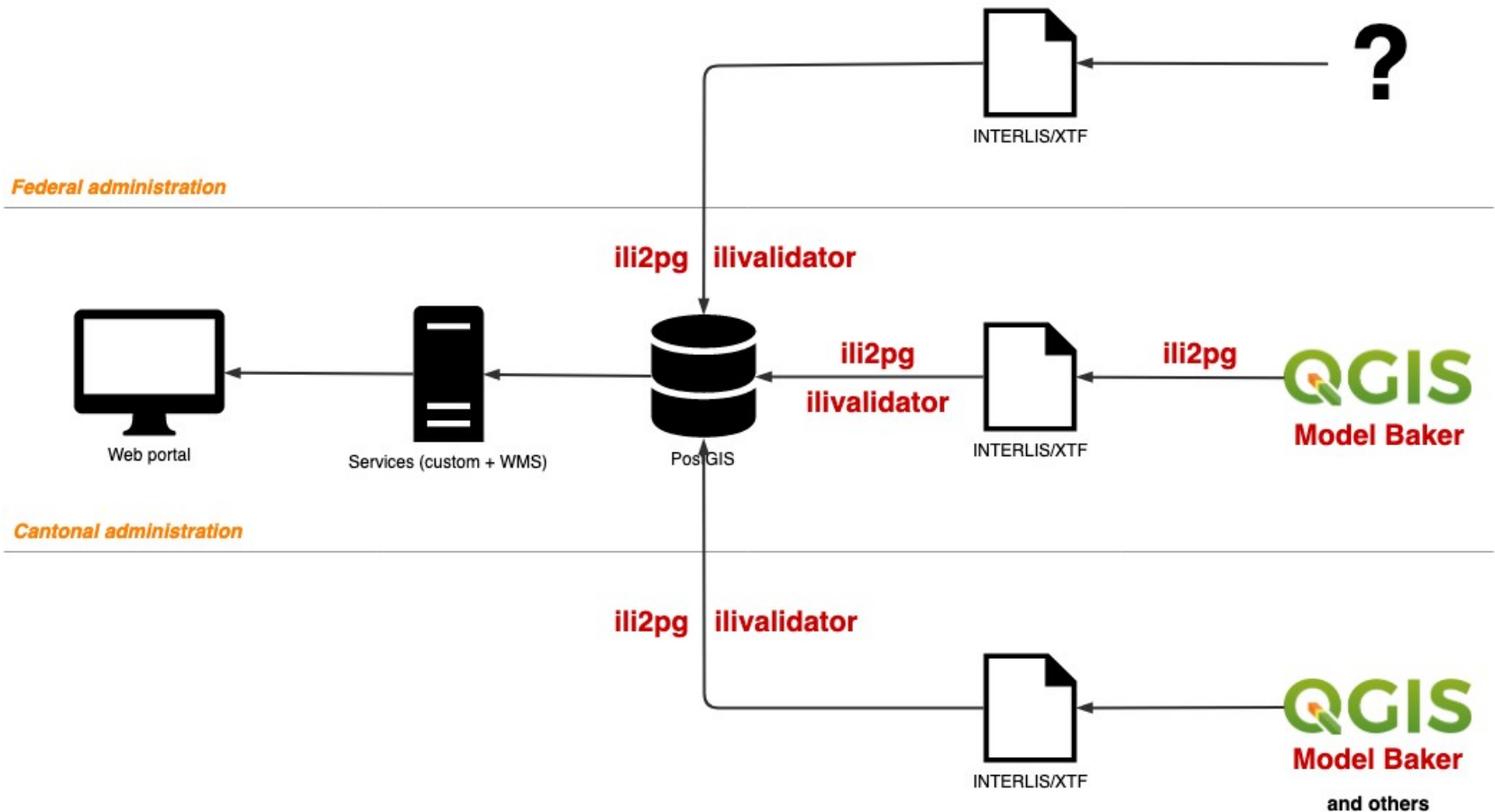
basis for a
module



Reality in the Canton of Solothurn



17 different topics



Mulțumesc

Questions?



One final thing...

QGIS On The Road

30. AUGUST 2019

2 PM - BOLERO ROOM



FOSS4G
BUCHAREST 2019

44.43555, 26.102347



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