

## WELCOME - WORKSHOP # 3

### Challenges in schema creation and transformation processes

Data Modelling?

Semantics?

Harmonization?



Ideas

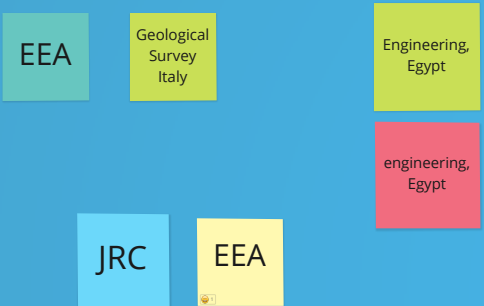
Challenges

Networks

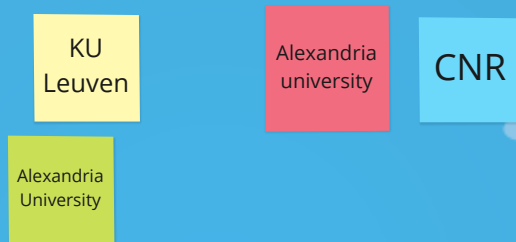
Experiences

# First time in MIRO

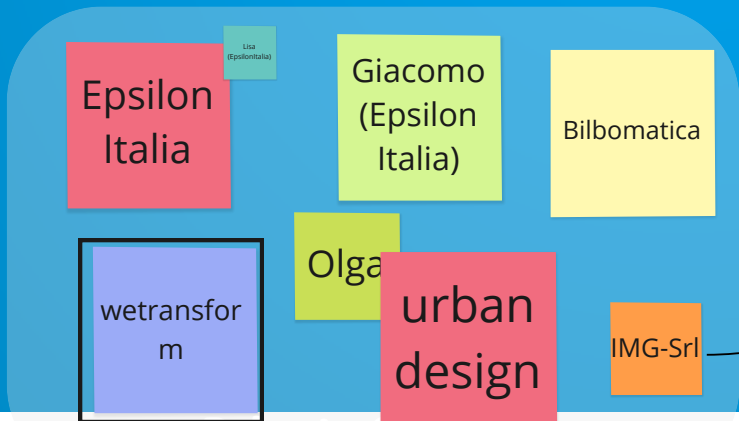
## Public Sector



## Academia



## In which sector do you work?



Private Sector

THERE ARE TWO WAYS TO ADD A POST-IT:

IN THE LEFTBAR CLICK ON THE  
ICON AND SELECT A COLOR



THEN CLICK WHERE YOU WANT  
TO PLACE YOUR POST-IT

OR SELECT, COPY AND PASTE ANY EMPTY POST-IT

TO COMMENT CLICK ON THE ICON AND THEN CLICK  
WHERE YOU WANT TO DROP YOUR COMMENT

# Interoperability Challenges

Data Modelling?

Harmonization?

Semantics?

Common data sharing policies/open licences

Not clear legal processes

Linking thematic information to spatial data

Cope with high volume of changing data

Differences in data types

INSPIRE-extended models for Geologic Units and Faults

INSPIRE Alternative encoding

Exact meaning of classes and codelists

Quality of the data between different countries/regions

Connection between networks

Which schema language fits to the encoding?

Integration of OpenStreetMap and authoritative data

Integration of crowd-sourced and authoritative data (also idea)

Lack of metadata - not INSPIRE aligned

Creating encoding-specific model

Build a common understanding (domain expertise / technical expertise)

Agreement on the exact meaning of classes, types, codelists

OSM pro:  
Fast modeling, partly automatic retrieved from satellite imagery  
OSM disadvantage:  
Missing data in rural areas

Semantic harmonisation, underlying methodology for COVID-19 data

Handling Mismatches

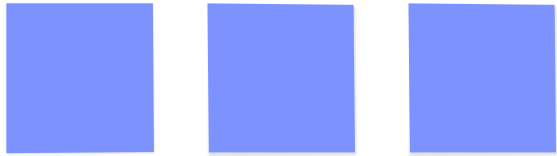
When is the conceptual model "good enough" to be released?

Building a common understanding

Spatial resolution

Including different data sources into the model

# Questions?



Which ETL Tool are you using for your mapping and transformation tasks ?

Marco: thanks a lot Stefania, great work! Can you point us to the Covid-19 dataset shared using GeoServer?

Marco: when integrating datasets in GO-PEG, did you also look at the legal interoperability (i.e. compatibility between data licenses)? any lessons learnt to share?