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# Geopol.ch, a Cloud-based platform to check and transform Geodata

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CONNECT. TRANSFORM. AUTOMATE.

# About INSER



INSER is a GIS Consulting company

- Based in Lausanne, Switzerland
- Founded in 1974 (!)
- 16 employees
- Safe Software partner since 2003
- 2 Certified Professionals, 1 Certified trainer



# Geopol.ch – The Story



When geodata is exchanged between stakeholders, the delivered data never seems to come in the right

- Format
- Coordinate system
- Data model
- Quality
- All of the above

# Geopol.ch – The Story



This means that these exchanges usually require processing...

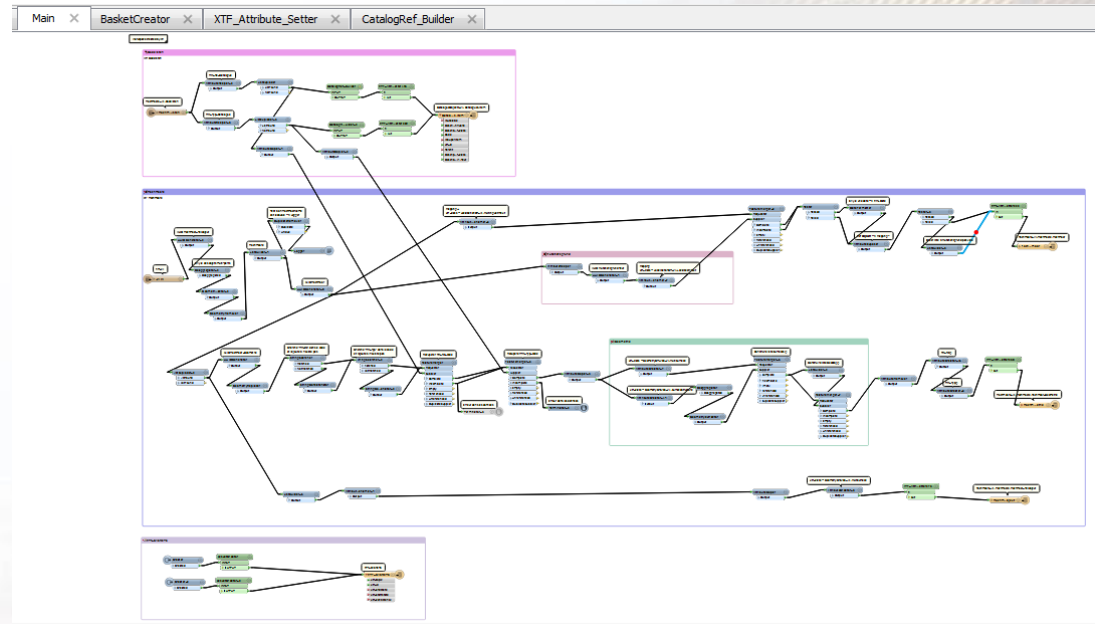
We all know at least one great tool for data processing...

... but the average user is very often lost in the process.

# Geopol.ch – The Story



Even the apparently simple translations can be a headache



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# Geopol.ch – The Solution



As we felt that the users needed an easier way to support them in their daily work, INSER launched a BPaaS platform called **geopol.ch.**,

Main goal of the system:

***Make complicated processes easily accessible***

# Geopol.ch – The Solution



That means that the system must be:

- ✓ “Business focused”
- ✓ User-friendly
- ✓ Easy on resources
- ✓ Highly available

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# Geopol.ch – The Solution



FME Cloud provides the right technological framework for such a portal, but it had to be customized to guarantee

✓ Process documentation



✓ User-management



✓ Multi-lingual GUI





# Geopol.ch – The Solution



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# Geopol.ch – The Solution



The user...

- ... logs in on Geopol.ch (if required registers)
- ... Searches for the required process
- ... Reads the documentation
- ... uploads the data
- ... gets an E-Mail containing the download link
- ... Downloads the transformed data

# Geopol.ch – The Solution



The processes are presented in a way that the user can focus on his business process.

They can be developed by INSER or by 3<sup>rd</sup> parties.

The screenshot displays the Geopol.ch web application interface. At the top, there is a navigation bar with the logo and menu items: Géotraitements, Information facturation, Rails Admin, and the user profile jlm@inser.ch. The main content area is divided into several sections:

- Description:** A text box containing the process name and details: "Ce processus exporte des données d'une GDB (modèle interne de l'OFEV) vers le modèle minimum interlis 'Hochmoore\_V1.ill'...".
- Description complète:** A link labeled "Retour aux informations".
- Prix:** A text box showing "50.00 CHF".
- Nb objets gratuits:** A text box showing "5000".
- E-Mail pour le résultat:** A section with the label "E-Mail (à saisir si différent du login)" and a text input field containing "jlm@inser.ch".
- Liste des paramètres pour le géotraitements:** A section with the label "Fichier de données (\*.gdb.zip)\*" and a file selection button labeled "Choisissez un fichier" with the text "Aucun fichier choisi".
- Type à lire:** A text input field.
- Veillez choisir si le traitement est gratuit ou payant:** A section with two radio button options: "5000 Objets GRATUIT" (selected) and "Objets illimités PAYANT (50.00 CHF)".
- Conditions générales:** A section with a checkbox labeled "J'ai lu et accepté les conditions générales de geopol.ch" and a link labeled "Lire les conditions".
- Exécuter:** A blue button at the bottom of the form.

# Geopol.ch – Use cases



## Use case 1 – Data validation

A public administration requires that all data delivered by contractors must be checked by Geopol.ch



# Geopol.ch – Use cases



## Use case 2 – Compliance to a standard

A law or a standard defines how the data must be structured (typically INSPIRE).

Geopol.ch provides the transformation from business tools to the standard.



# Geopol.ch – Use cases



## Use case 3 – Provide tools to non specialists

As part of a project, a contractor must produce results in a certain form, but has neither the skills nor the tools to do so.



# Geopol.ch – Business model



Geopol works as a **freemium** service.

All processes can be used at no cost, with a limit on the number of objects to be processed.

Premium service is offered as subscription or “pay-per-use”.

No credit-card based payment.

# Thank You!



- Questions?
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