

SDMX Metadata Al Assistant

Your AI-powered assistant for metadata in SDMX

At a glance

The SDMX Metadata Al Assistant (SDMX MAIA) is a open source, Python-based tool leveraging Large Language Models (LLMs). It simplifies metadata editing in SDMX by executing custom instructions, such as grammar checks and formatting.

Key benefits

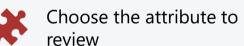
- ✓ Saves time by automating repetitive tasks
- ✓ Ensures high-quality, standardised metadata
- ✓ Provides an interactive and user-friendly interface

How it works

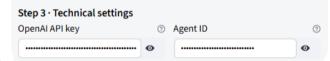
Input: three steps

Upload your **SDMX file** and a data structure definition





Select tile i	anie of the attribute you want to theth using A	0
TITLE		~
→	Set your OpenAl Assistant and API key	



Process metadata

Metadata Al Assistant (MAIA) can:

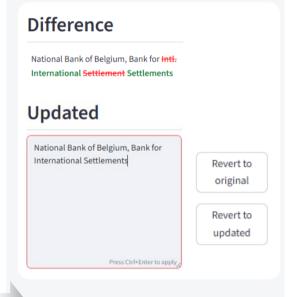
- ► Fix grammar, syntax, formatting
- ► Ensure consistency eg:
 - names
 - date formats
- ▶ Shorten text to fit length limits
- ▶ Generate additional metadata
- ▶ Follow institutional standards



Review & export



Human-in-the-loop: compare changes, accept or revert edits, modify





Output: updated **SDMX file** for integration

Features

Step 2 · Choose attribute

- Metadata editing: grammar, syntax, formatting
- Customisable Al Assistant
- End-to-end SDMX integration
- Interactive comparison of changes
- Streamlit interface (UI) + Command Line (CLI)
- Performance metrics

Technical

- Pvthon 3.11.9+
- OpenAI API key
- Streamlit
- Pysdmx

Part of the **sdmx.io** ecosystem



