

# Introducing REGIA: Retrieval Enhanced Generation for International Affairs

REGIA is a custom-built research assistant for the UN and international affairs policy experts.

It leverages:

- a) The latest generative AI models
- b) The UN's vast collection of official documents
- c) A custom approach to provide specific, grounded responses to user queries

REGIA is a step toward solving some of policy experts' biggest challenges:

- a) Overwhelming amount of information on any given file
- b) Limited time to familiarize on a new topic or country context
- c) Lack of tools that consolidate authoritative information generated by the UN

Existing tools include:

- a) AI chatbots: outputs poorly-grounded, and they hallucinate frequently, wasting time
- b) Ask DAG: keyword search only, pointing to resources with limited relevance
- c) ODS: keyword search only; difficult to sort through piles of documents

# REGIA Features

REGIA uses a unique approach to provide specific, grounded responses to user queries.

It combines cutting-edge AI technology...

- a) Using the latest advanced Large Language Models (LLMs), it intelligently understands the user's query and provides a straightforward, precise, and tailored response to the query using the most relevant context.
- b) Over 10 LLMs were compared in an automated test to determine the best performing models along four dimensions: relevance, clarity, and grounding, and use of citations.

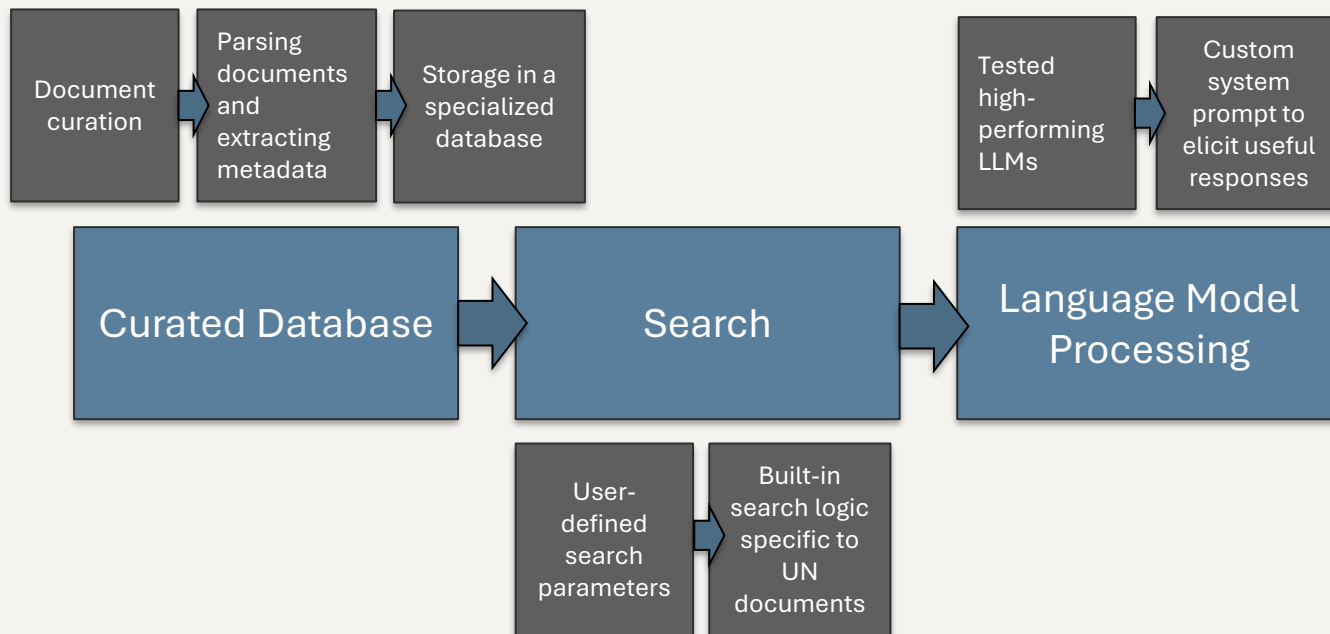
...with a special database of UN documents.

- a) The REGIA database is carefully curated to include the most relevant documents for a given file.
- b) The database uses AI to go beyond “keyword” matching to generate more tailored responses to specific questions.
- c) It's built by UN experts for UN experts.

# REGIA Infrastructure

REGIA works like a specialized research assistant:

- a) Document Database – A curated, structured database of UN and civil society documents.
- b) Smart Search Engine – Retrieves the most relevant documents using semantic similarity, even if exact words don't match.
- c) Language Model Processing – Answers queries and summarizes resources using a custom system prompt and intelligent Large Language Models (LLMs).



# Implementing REGIA

REGIA is in prototype phase with the opportunity to develop into a full-featured application covering dozens of UN files and agenda items.

The current application is a simple web app where users can pose queries and read and use summaries instantly, from any web-connected device.

Potential additional features:

- a) Chat/follow-up function
- b) Secure document upload
- c) Varied output and export formats
- d) Agentic workflows to use multiple tools to respond to user requests

Potential deployment options:

- a) Gated web app with per-user authentication
- b) Public web app supported by Member State(s)
- c) Public web app in partnership with UN (e.g. DPPA)
- d) API server with private apps customized for each organization

Access the prototype app at [regia-prototype.onrender.com](https://regia-prototype.onrender.com)

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