

NegotiateAI

**AI-Powered Insights and
Smart Document Access to
Support UN Plastic Treaty
Negotiations**

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Who are we?

The GIZ is a **German federal enterprise** that promotes **international cooperation for sustainable development**. Active in over 120 countries, GIZ partners with governments, private sector organizations, and civil society to address global challenges such as poverty, climate crisis, and social inequality.

The GIZ Data Lab focuses on Data4Development, advancing practical solutions for international cooperation.

Since 2023, we have been working together with GIZ and &effect on the “NegotiateAI” pilot.



What is NegotiateAI?

The Global Challenge

The United Nations is negotiating a legally binding agreement to address the global plastic pollution crisis.

NegotiateAI

A prototype AI-driven app that provides AI-powered insights and smart document access, designed to support policy advisors, negotiators, and observers during negotiations and in the implementation of the treaty

Implementation Partners

The *GIZ Data Lab* together with two projects, commissioned by the German government and implemented by GIZ: *Support Project on Marine Litter Prevention* and *Go Circular* and the data service provider *&effect*

Status Quo

Complex Negotiation Process

- Involves multiple stakeholders with evolving agendas and diverse viewpoints across sessions

Overwhelming amount of unstructured Text Data

- Large volume of text data from various sources (e.g. member statements, official documents, observer inputs).
- Lack of structure makes filtering and analysis challenging

Limited Access to Supplementary Knowledge

- Relevant reports, briefs, and scientific insights from research organizations, NGOs, foundations etc. are scattered
- No centralized repository for quick, in-depth access

- **Finding relevant information is time-consuming and error-prone**

Goal



- ✓ **AI-driven app** that uses **Retrieval-Augmented Generation (RAG)** for **natural language queries**, combining strengths of query-based and generative AI models
- ✓ **Supports targeted, precise searches through semantic queries** and offers **advanced filters** (e.g., by member, negotiation round, thematic section) for relevant information retrieval
- ✓ **Improves transparency and accessibility** by linking directly to document references and supplementary resources, aiding informed decision-making for all stakeholders
- ✓ **User-friendly front-end design** and **open source** for collaboration and continuous improvement

Target Group

- **Primary users:** Policy advisors, negotiators, and observers involved in UN plastic pollution treaty negotiations
- **Particular focus:** Smaller country delegations and developing nations with limited resources for document analysis
- **Broader Inclusion:** Non-governmental and civil society observers

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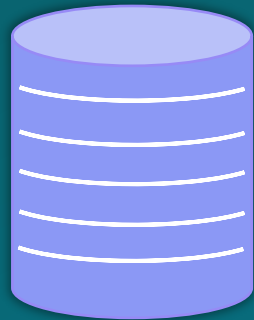
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Process – what has been done

Knowledge & Data Collection

In-session Submissions from Members		
14/11/2023	Egypt	Objective and Primary Plastic Polymers
14/11/2023	Japan	Financing
15/11/2023	Palau	Objective
15/11/2023	Japan	Primary Plastic Polymers

Vector-Database
with Meta Data
Filter



Data Cleansing,
Fine-Tuning &
Identification of
Sample Questions

App Design & User-Centered Co-Creation

The screenshot shows a three-step user interface:

- 1 Select countries**: A dropdown menu labeled "Select country/countries" with a downward arrow.
- 2 Select parts of the negotiation draft**: A dropdown menu labeled "Select draft category/draft categor..." with a downward arrow.
- 3 Ask a question or show documents based on selected filters**: A section with two tabs: "Ask a question" (active) and "Filter documents". Below the tabs is a text input field with a placeholder: "Ask a question, noting that the database has been restricted by filters and that your question should pertain to the selected data." Below the input field is a button labeled "Ask".

At the bottom of the interface, there is a section labeled "Examples".

Testing

Improvement &
Fetaures
Development
based on user
feedback

INC Plastic Pollution Country Profile Analysis

⚠ The app is a beta version that serves as a basis for further development. We are aware that the performance is not yet sufficient and that the data basis is not yet complete. We are grateful for any feedback that contributes to the further development and improvement of the app!

Send feedback

The app is tailored to enhance the efficiency of finding and accessing information on the UN Plastics Treaty Negotiations. It hosts a comprehensive database of relevant documents submitted by the members available [here](#), which users can explore through an intuitive chatbot interface as well as simple filtering options. The app excels in querying specific information about countries and their positions in the negotiations, providing targeted and precise answers. However, it can process only up to 8 relevant documents at a time, which may limit responses to more complex inquiries. Filter options by authors and sections of the negotiation draft ensure the accuracy of the answers. Each document found via these filters is also directly accessible via a link, ensuring complete and easy access to the desired information.

1 Select countries

Please select the countries of interest. Your selection will refine the database to include documents submitted by these countries or recognized groupings such as Small Developing States, the African States Group, etc.

Select country/countries

2 Select parts of the negotiation draft

Please select the parts of the negotiation draft of interest. The negotiation draft can be accessed [here](#).

Select draft category/draft categor...

Next Steps & Vision

- **INC-5:**
 - Exchange with Delegates, Observers and interested parties
 - User Testing and Feedback Collection for further development
 - Please contact: Teresa.Kroesen@giz.de
- **App-Improvement & Features Development**
- **Development of Treaty Implementation Assistant**
 - Tailored **recommendations for implementation** plans aligned with the treaty
 - Supports the **creation of national action** plans aligned with treaty requirement
 - Assists in **tracking progress and identifying gaps** in national action plans

**We value your insights—help us
improve our app and co-create a
tool to support the treaty
implementation**



Thank You!