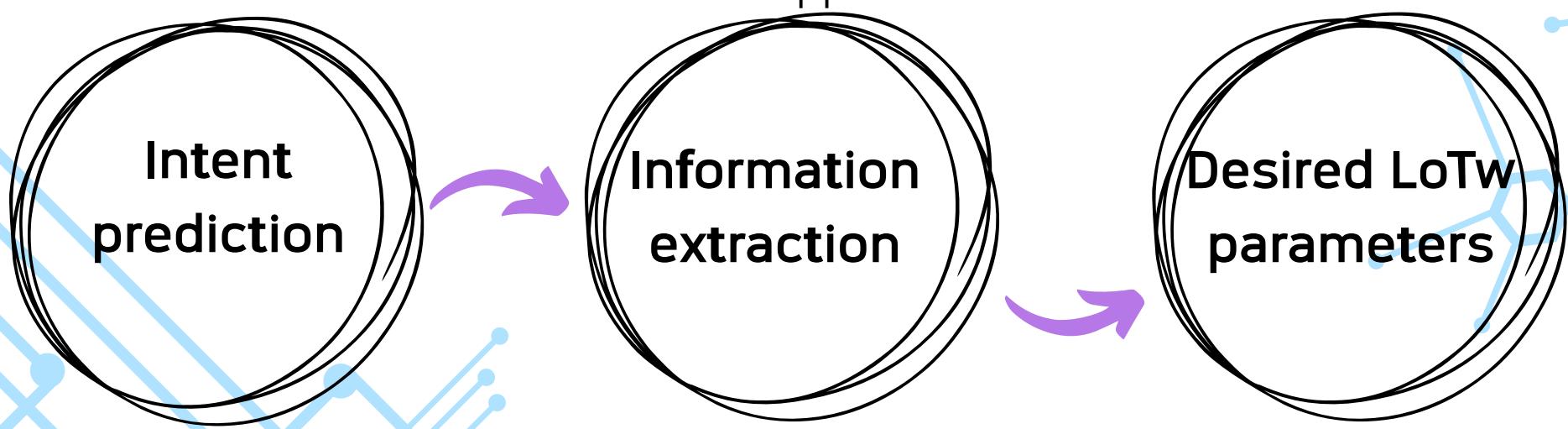


Chatbot

What is it?

The SAFE-6G Chatbot captures the user's intent and translates free-text requests into structured Levels-of-Trustworthiness (LoTw) parameters for the network application.



It offers a natural language based interface so that non-experts can request advanced network services without the need of learning technical details.



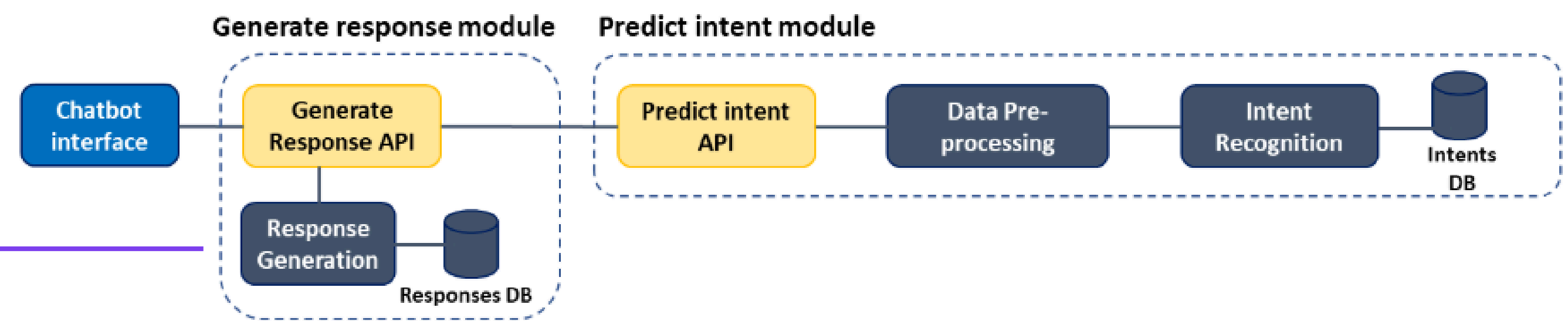
OBJECTIVES

- NATURAL LANGUAGE ACCESS**
Enable non-experts to request network services via natural speech.
- DIALOGUE CLARIFICATION**
Ask follow-up questions for further clarification and LoTw parameters extraction
- SEAMLESS ORCHESTRATION**
Deliver the LoTw JSON directly to the Cognitive Coordinator

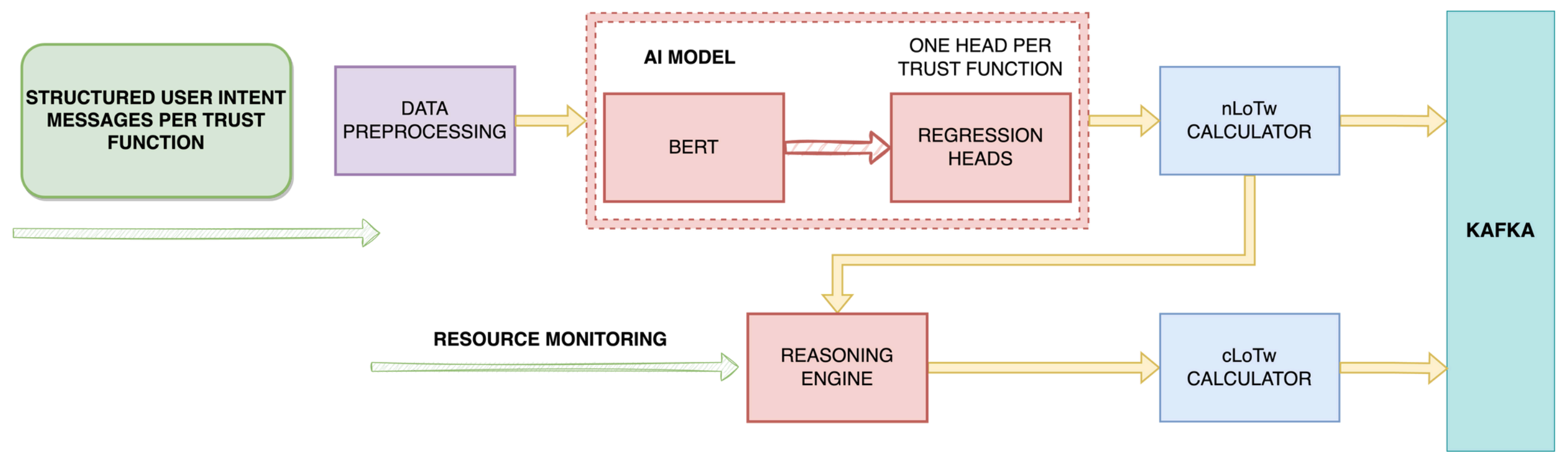
MODULES

- 1 USER INPUT GATEWAY**
Receives text messages and performs basic pre-processing
- 2 PREDICT INTENT**
Uses a Sentence Transformer to classify the user's intent
- 3 GENERATE RESPONSE**
Uses an LLM to generate clarifying questions to the user about their needs and delivers structured parameters to the Cognitive Coordinator for LoTw calculation

CHATBOT



COGNITIVE COORDINATOR



SAFE-6G

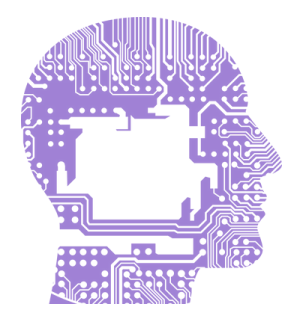
SOCIAL MEDIA

- <https://safe-6g.eu/>
- <https://www.youtube.com/@SAFE-6G>
- <https://www.linkedin.com/company/safe-6g/>



COGNITIVE COORDINATOR

Coordinating the 6G trustworthiness user-centric functions by mapping user/tenant Intents to 6G Level of Trust



PROCESS

INPUT: Structured user intent messages for each trust function.

AI MODEL: AI model predicts the raw trust scores for each sentence using BERT combined with one regression head per trust function.

NON CALIBRATED LEVEL OF TRUSTWORTHINESS: The weighted average of the raw scores for each trust function.

CALIBRATED LEVEL OF TRUSTWORTHINESS: The reasoning engine calibrates the level of trustworthiness based on available resources and the trust function capability.

MESSAGE BROKER: Use kafka for bidirectional communication between CoCo and trust functions.

PARTNERS

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