Connecting the Dots with CURA

A Design Science Research study rewiring Chemical Regulations with Knowledge Graphs & Artificial Intelligence

CBS COPENHAGEN BUSINESS SCHOOL
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Using AI to structure Chemical Regulation Data

A research project exploring how AI can support the implementation of Strategic Objective B

Today's Reality
Data access & format is found to be a key challenges in the domain

Fragmented Data Sources
Regulatory information is scattered across sources in multiple *platforms*, *formats* and *languages*.

Inconsistent & Complex Data
Various data formats and lack of a standard framework (identifiers, chemical names etc.) makes it challenging to compare and connect data across regions and countries
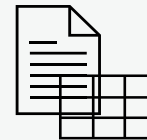
Time Consuming & Resource Demanding
Data complexity in the chemical domain constrain effective analysis and management of chemical regulatory data

➡ **Hinder effective implementation of GFC**

CURA Prototype – a reliable AI solution
Chemical Unified Regulatory Atlas is a Proof of Concept demonstrating how AI can be used to efficiently extract & structure data
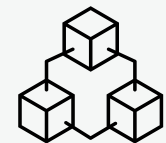
Automated Data Extraction
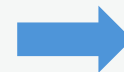Get data from text & builds a Knowledge Graph

Advanced Database
Using Knowledge Graph to store & connect the data

Reliable Applications
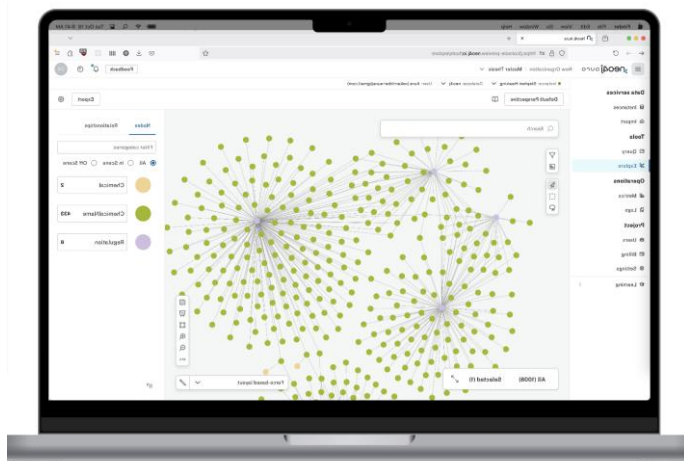Flexibility to build new applications upon the database

➡ **CURA has the potential for wide range of use cases within the chemical regulatory domain**
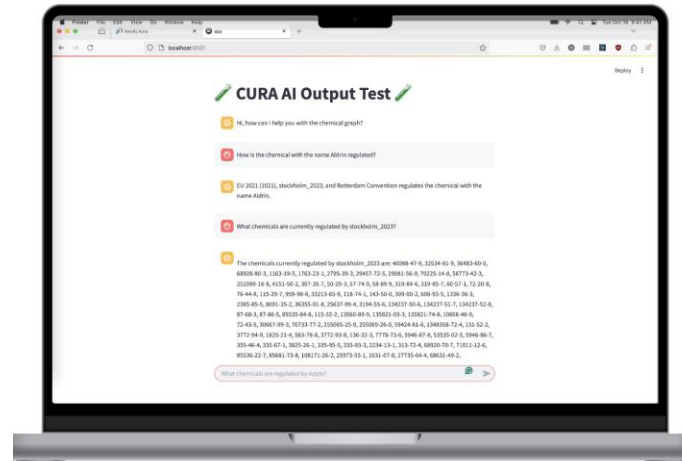
CURA – an Interactive & Reliable AI Tool

CURA enable more efficient and interactive exploration of regulatory data
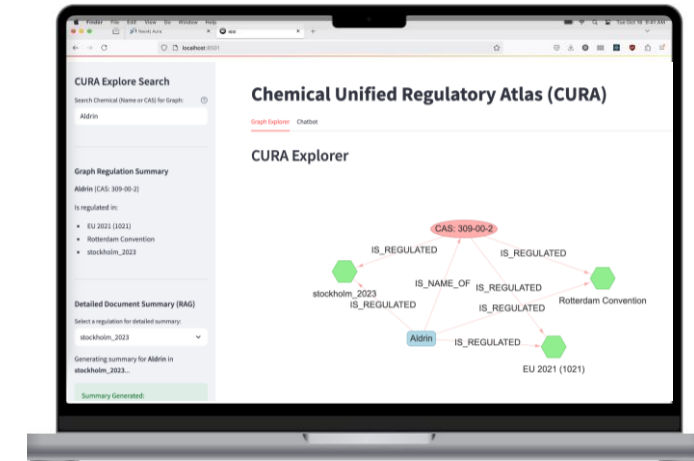
CURA User Interfaces

Direct Interaction with the Knowledge Graph

Chatbot Interface using Knowledge Graph to answer questions

CURA's Chemical Explorer enabling deep dive into the data

Still limited scope & in prototype state of development

We want your feedback!
If you are interested to partake in the next open feedback session where you get to test CURA **sign up** via the **link** or scan the QR code.

Link to Sign-Up