

Shape the
Future!

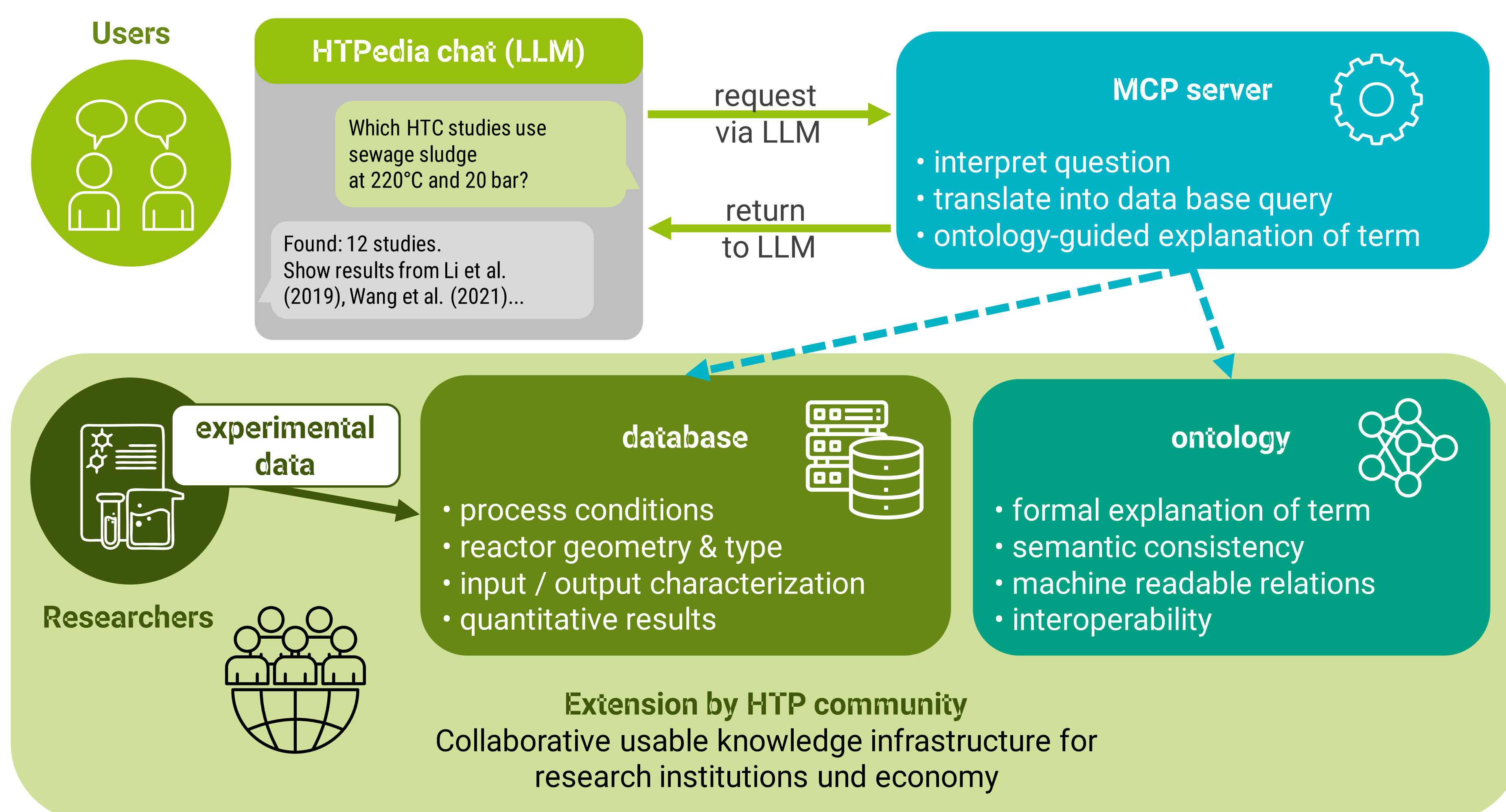
HTPedia

An Open-Source and Community-Driven Knowledge Management System for Hydrothermal Process Data

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Challenge: - HTP research data are decentralized, heterogeneous, and lacking semantic interoperability.
- Insufficient data quantity & quality limit AI integration, systematic benchmarking, and industrial scale-up.

Vision: HTPedia - making HTP research data **FAIR**, **connected**, and **AI-ready**!



We propose a community-driven, open-source platform that:

- **centralizes** HTP experimental data,
- **structures** it in a database,
- is **FAIR** (findable, accessible, interoperable, reusable)
- makes it semantically interoperable with **standardized** vocabularies (domain specific ontology),
- makes it usable through a natural language interface (LLM),
- and **grows** over time.

HTPedia will eliminate barriers for researchers and industry to build on existing and reliable knowledge.

Features: - **Gap detection:** identify missing data and prioritize future research systematically
- **Feedstock exploration:** discover alternative input materials via our biogenic residue ontology
- **Natural language search:** query experimental data without programming expertise

Join us now with your Letter of Intent!

Your **benefits**:

- Systematic overview of your own data
- Priority access to all HTPedia data
- Inform and shape the development
- Visibility and networking within the community

Your Lol should include:

- Name of institution, research group, and contact person
- Brief description and amount of available data

