

AI Co-Creation



Dr. Andre Moreira

Discovery Theater - Lubricants 2026





Dr. Andre Moreira

Co-Founder & CEO

- PhD in Theoretical Physics
- International business experience (BASF, Novihum)
- Agents, Data & AI in businesses



Prof. Dr. Peter Lenz

Co-founder

- PhD in Theoretical Physics
- International academic experience (Harvard, Stanford)
- Advanced AI/ML and big data analytics



Founded in January 2024

*Build AI products for
the process industries*

Working with leading
multinationals, SMEs, Startups



What we do

Product co-development

- AI tools for your specific workflows
- Workflows, agents, etc.

Data Projects

- Clean data is the basis: we start there
- Insights from clean data leads to better decisions

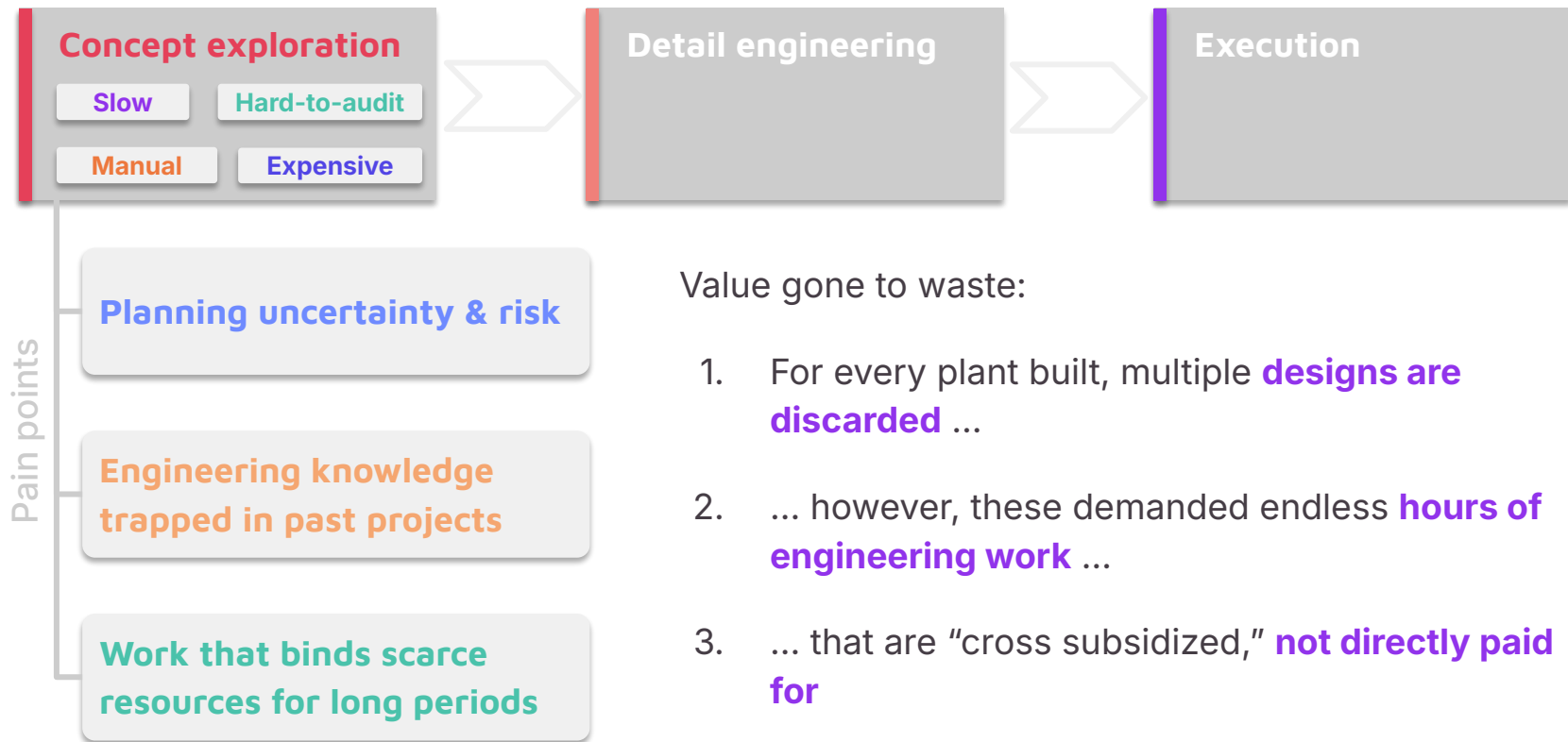
AI Enablement

- Teach how to use AI tools
- Build lasting capabilities

CAPEX Engine

A product co-development
example

Concept exploration in engineering: an underserved market



AutoGraph: AI-native concept phase companion

1

- Reduce manual work
- Evaluate in parallel

2

AI agents that follow norms, specs and priors

3

Auditable deliverables

AutoGraph

PFD Bench *Live*

Upload a Process Flow Diagram, get an accurate process description in minutes

- Validated by K-UTEC Salt Technologies
- Try it: <https://pfdbench.lyfx.ai/>

Concept Bench *Building*

Describe an intent, work in tandem with an AI agent, generate alternatives

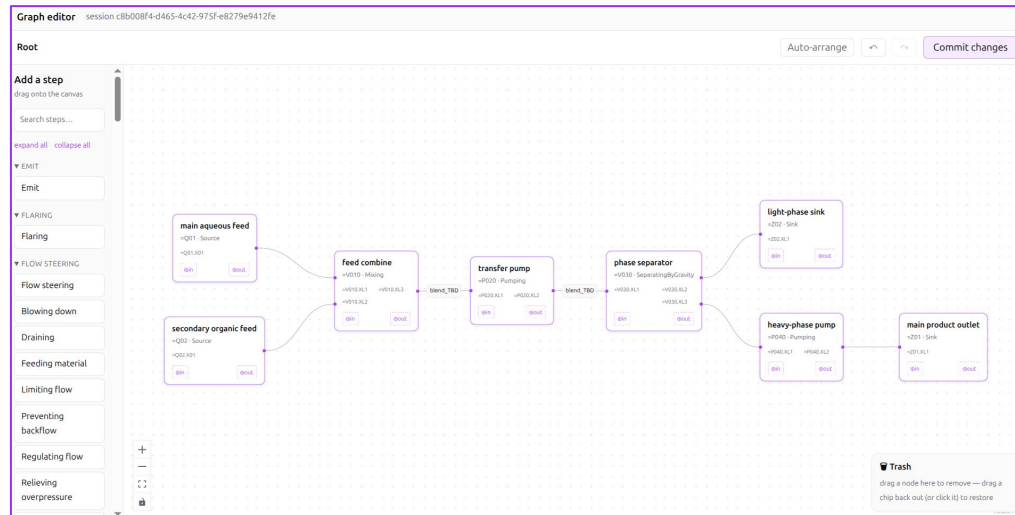
- **CAPEX engine** (proof of concept)
- OPEX and ROI engines (roadmap)

CAPEX Engine

In partnership with **K-UTEC**
SALT TECHNOLOGIES

Co-design with an AI agent that follows engineering norms

- CAPEX estimation via reasoning
- Normed framework for process description
- Proprietary + open-source context
 - Equipment specs, designs, standards



Powered by LangGraph, LLM (Gemini, ChatGPT, Claude, etc.) and a custom-made, DEXPI aware harness

Demo/Beta version in test

Conclusion

- lyfX.ai is AI-native
- Build AI products for the process industries
- Bespoke AI-enablement for organizations: from training to data projects to co-creation
- Co-creation example: CAPEX Engine
 - Early cost estimations using AI as a reliable engineering companion

