

GENAI INCUBATOR

What's the idea behind it?

Prof. (adj.) Dr. -Ing. Laban Asmar



Fraunhofer IEM's GenAI Incubator turns real-world challenges into practical AI solutions — and sometimes also new startups.

#Tommy Falkowski, Head of GenAI Incubator





YOUR GENAI CHALLENGE WITH A FOCUSED TEAM



*All of this for a fixed price
of 80.000 €!*

1

TEAM

6

MONTH

1

USE CASE



AND SOMETIMES ALSO NEW

STARTUPS



1

TEAM

Experienced Fraunhofer IEM Coaches

Guidance from GenAI experts at Fraunhofer IEM – combining deep research knowledge with practical experience in applying generative AI in industry.



Three GenAI Talents

Carefully selected students in Computer Science, Business Informatics or Business – trained and supported by Fraunhofer IEM.

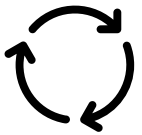


In Collaboration with Your Team

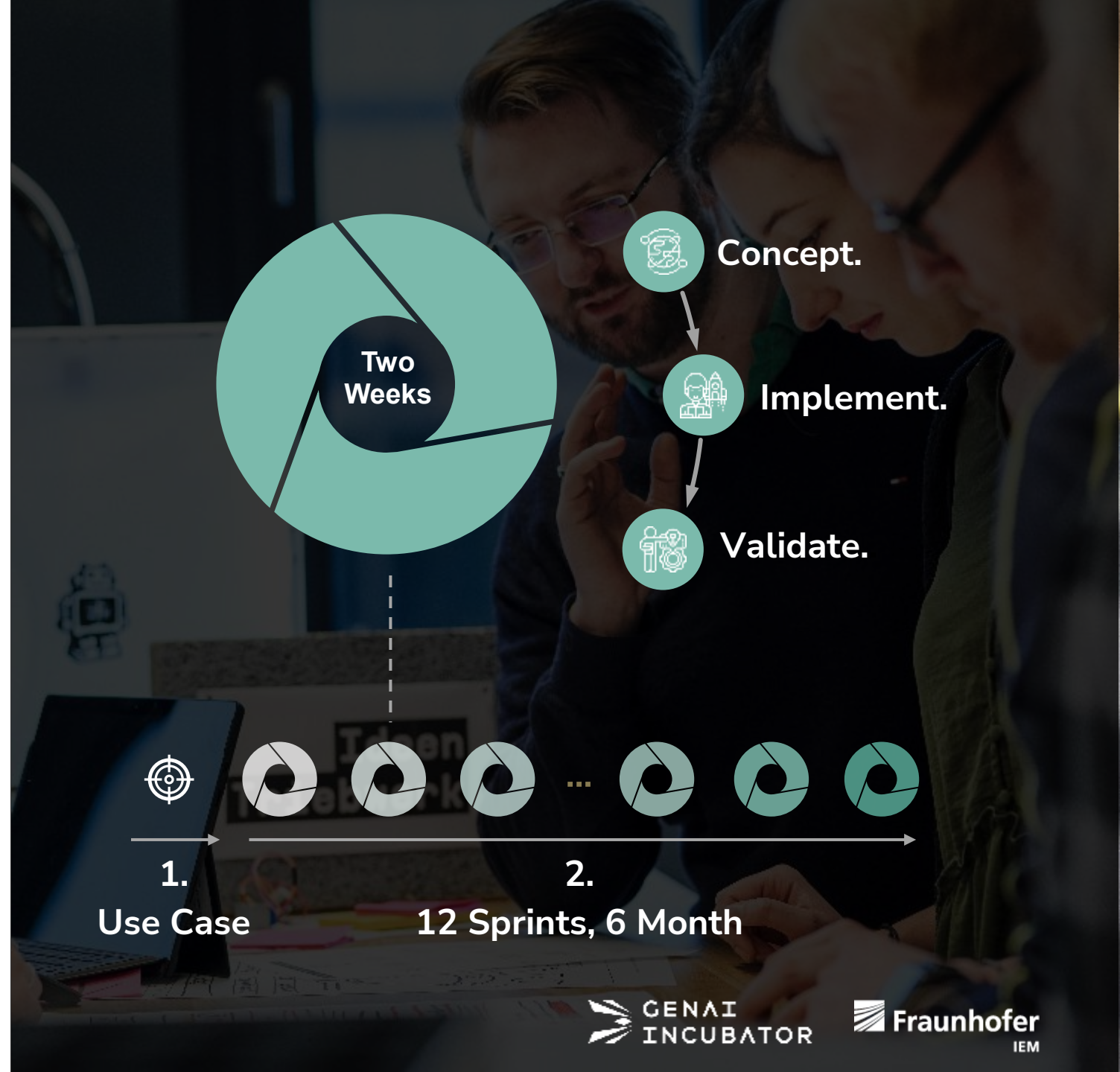
Regular reviews with your team to ensure user-centric solutions tailored to your specific needs and challenges.



6 MONTH



**THE TEAM WORKS
IN 12 TWO-WEEK
SPRINTS!**



Potential Use Cases – just a few examples



Strategic & Innovation Management

Report Summaries,
Whitespot Analysis,
Market Crawling
...



Enterprise Support

Chat driven Workflows,
interactive employee
onboarding, AI-based
ERP ...

Customer Relations

Interactive User Manuals
& Reports, Customer
support bots, Guided
Selling ...



Product & Service Engineering

Code Generation &
Analysis, Requirement
Generation, AI Personas,
Ideation ...



A glimpse into some of the current use cases

Completed & in progress use cases at a glance

#	Use-case (your wording)	Business Function (Value-Chain spine)	Lifecycle Phase (V-Model)	AI-Capability Tags	Technology Readiness
1	LLM + RAG product-support bot	Service & After-Sales	Operation & Maintenance	Knowledge & Retrieval, Conversational	7
2	Smart Assistant for Manufacturing Planners (drawing extraction, slide generator)	Production / Operations → Planning	System / Sub-system Design → Manufacturing Planning	Generative Design & Visual, Conversational	7
3	GenAI in Manufacturing Automation Engineering (code generation)	R&D / Engineering	Implementation	Generative Text & Code, Optimisation	6
4	Smart Document Automation (any docs + agentic decisions)	Support (HR/Finance/IT) or Quality & Compliance (depends on target users)	Operation & Maintenance	Knowledge & Retrieval, Agentic Workflow	6
5	Semantic info extraction from technical drawings (P&IDs)	R&D / Engineering and Quality	System / Sub-system Design	Generative Design & Visual, Knowledge	5
6	GenAI-driven data preparation for ML tasks	R&D / Engineering or IT /Data-Ops	Implementation	Generative Text & Code, Optimisation	7
7	Flexible & fast training of classification models for corporate apps	R&D / Engineering and Quality	Integration & Verification → Validation	Predictive / Classification, Optimisation	7

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How can we create a partial
Automation of Technology-Scouting?

Three core components of the IEM Scout

1

Create search strategy



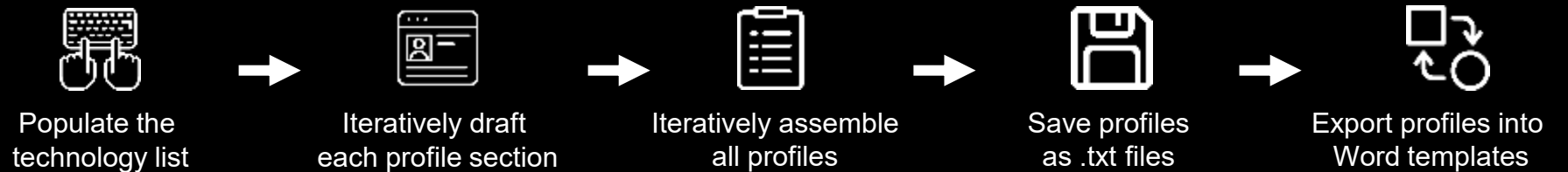
2

Enrich knowledge



3

Automated profile generation



Data sources



LLM knowledge



FineWeb database



OpenAlex



Google Search



Documents



Other APIs



Start



Trendsuche



Gesamt





AND SOMETIMES ALSO NEW
STARTUPS



<https://www.veilix.ai/>



<https://www.optimaite.eu/>



A glimpse into some of the current use cases



How can we make use out of P&ID and other Engineering schematics?

- Home
- Search
- Data Pre-processing

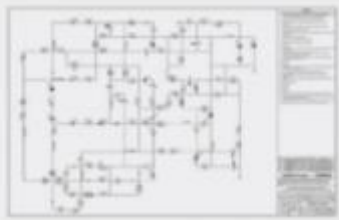
+ New

Start with fresh chat

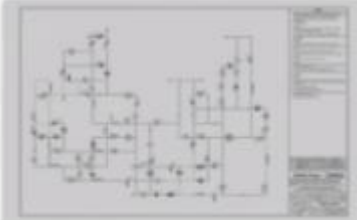
+ Pre-process data

Pre-process data by uploading all the files

History



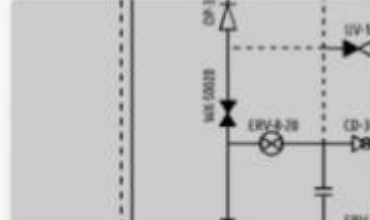
Water Distribution Schematics
2.10.2024



[PROVIDE-NAME]
12.10.2024



Water Distribution Schematic
15.10.2024



example schematic
21.11.2024

A glimpse into some of the current use cases

**How can businesses automate
document chaos locally?**

AI-Driven Document Management



One central inbox for all your documents



Automatically sorts documents into predefined categories



Extraction of relevant entities set by the user



Intelligent semantic embedding: A system that can answer any question about your documents



Built around cutting-edge Multi-AI-Agent architecture

