



# Rapid Energy Profiling for Industrial Processes

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## Goals

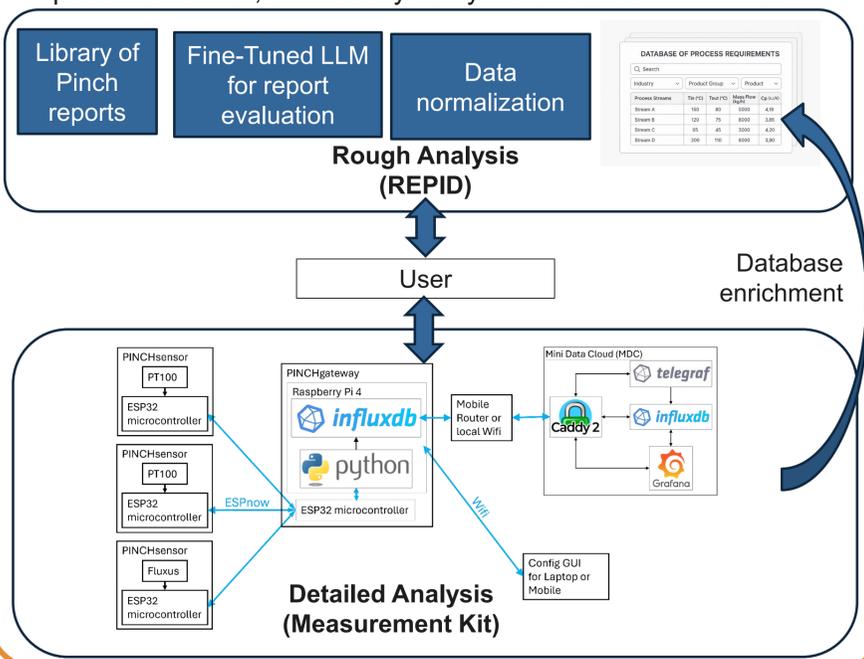
- To accelerate the data extraction process and develop **Rapid Energy Profiling pipeline for Industrial Processes**.
- Develop **exemplar energy demand profiles** based on **normalized process stream data** at the process or product level.
- Target group: **SMEs, Engineering consultancies, Researchers**

## Problem

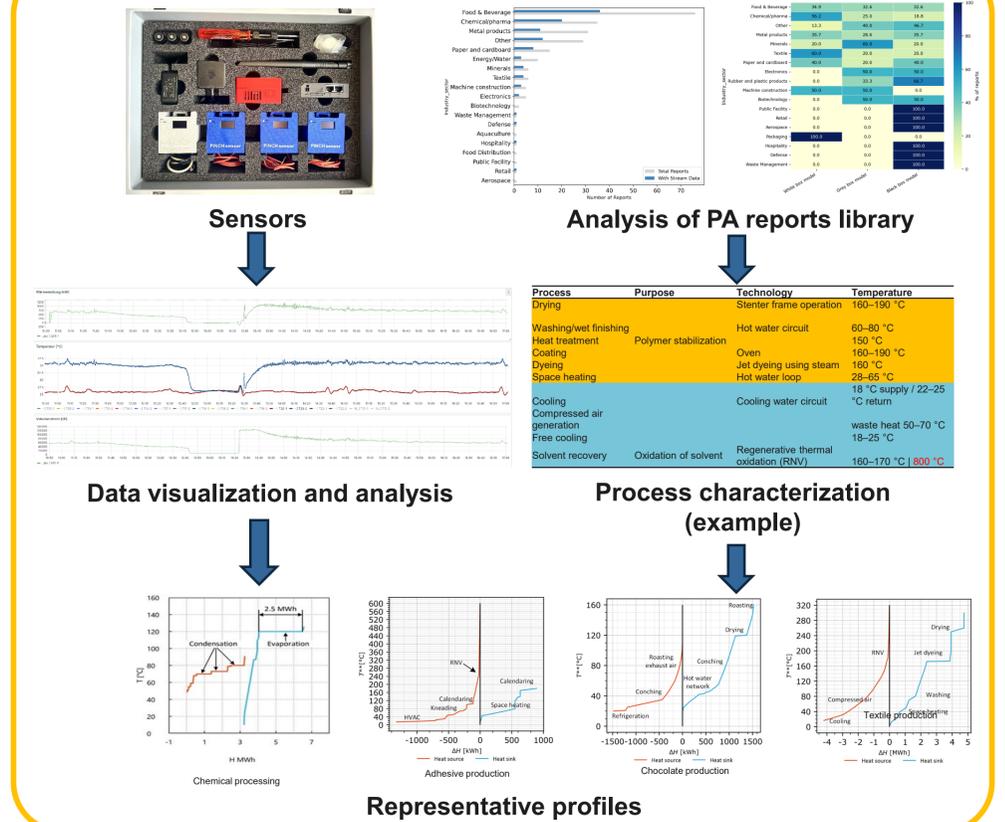
- Pinch analysis is **data-intensive**
- Approximately **70% of the total project time** has to be spent on **data extraction**
- Creates a big hurdle, especially for **SMEs**

## Method

- PA reports based on normalized data provide a quick estimation of energy demand and potential for process integration for a given process.
- Measuring kit enables detailed and seamless measurements of process streams, followed by analysis and live visualization.



## Results



## Conclusions

- Measurement Kit offers **higher data quality (resolution of 10 seconds)**, a **simple, modular setup, wireless transmission, and live online visualization**.
- Collected data can be further used to **improve data quality** in the database of process stream requirements and the **development of digital twins**.
- Rapid energy profiling can thus **reduce the effort required for data collection by over 30%**.



### Core partners



### Associate partners



### Cooperative partners:

