

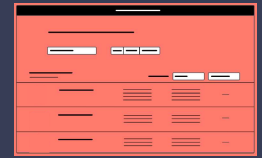
# LEPFLOW™

## Enhancing Process Efficiency through AI and Automation: From Supplier Qualification to Inventory Management

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### BACKGROUND

In today's world, individuals and organizations are overwhelmed with both useful and irrelevant data. Organizing this data is crucial to ensure it serves us efficiently. The transition from paper to digital records allows for quick access to well-organized information, enabling faster decisions and data comparisons. By standardizing processes and gathering the right data, it becomes possible to automate data analysis, helping filter the vast amount of information we face today. This allows us to make faster decisions or dedicate more time to other tasks that require greater attention to detail, ultimately improving the quality of patient care and decision-making. The goal is to analyze and optimize workflows to streamline processes, reducing time, increasing accuracy, and enhancing overall efficiency. Tasks that previously took hours or days, such as supplier qualification, can now be automated. For example, Swissmedic's structured data can be leveraged through Excel VBA scripts to automatically match purchased products with supplier permits. Additionally, the drug shortage list can be customized to align with specific inventory needs. This work will explore these two automation examples: A and B with the web product C LEPFLOW™ tool.

LEPFLOW™ E-Tool



### AIMS→

- ✓ Reduce work/solution time while enhancing overall efficiency
- ✓ Eliminating repetitive tasks, human error, and lost of data
- ✓ Communicate precise information evenly and clear
- ✓ Boosting quality and productivity

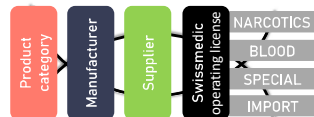
### METHODS

The process involves studying workflows, identifying necessary data, and organizing it into clear rules. Basic programming knowledge is required to define and apply these rules. With this foundation, AI can accelerate programming, allowing the creation of tools within minutes and enabling rapid adjustments and feedback.



Contact module

### RESULTS



#### AAutomatic Supplier

##### Qualification:

This program significantly streamlines and accelerates the supplier qualification process. Tasks that would typically take weeks to complete can now be handled in just a few hours. By automating the evaluation of over 100 suppliers, the system identifies and highlights only those areas where manual checks or further investigation are necessary. This dramatically reduces the overall workload and allows non-expert employees guided by standard operating procedures (SOPs), to efficiently complete the task. In fact, what would traditionally require 1 week of full-time effort can now be accomplished in as little as 4 hours (~90%), ensuring both speed, accuracy, and less human errors.

#### BAutomatic stock reports:

Managing supply chain issues currently requires an average of 3-5 hours of daily work, not including the ripple effect on other team members who must stay constantly updated and quickly secure alternative products for hospital stations. The increased number of stocked items, intended to prevent shortages, also raises the risk of expired products and confusion between similar items, ultimately compromising patient safety. The software addresses these challenges by automatically updating data and cross-checking stock levels with external sources (e.g., Drugshortage.ch). It generates reports highlighting medications that require attention, eliminating the need for manual monitoring of emails or delayed feedback from manufacturers about product unavailability. The system can be further automated to exclude items with sufficient stock to cover delays, ensuring that only critical products are flagged. With this solution, the workload is reduced to just one click to generate the report, followed by a quick 30-minute review phase (~80%). This drastically minimizes effort, reduces errors, and enhances both operational efficiency and patient safety.

#### CLEPFLOW Input/Output

Drug Supply Management Process for "LEP" (Lieferengpässe, or Supply Shortages) initiative focuses on streamlining both the input and output aspects of managing drug shortages. On the input side, the system leverages automation to identify and flag out-of-stock products in real time, tailored to the specific inventory of each pharmacy. By doing so, it eliminates the need for manual tracking and ensures that critical shortages are immediately brought to attention. On the output side, the software generates comprehensive, customized reports. These reports are tailored for both internal and external stakeholders: they provide logistics teams with precise stock levels and alternative product options, while offering medical teams actionable insights on product availability and substitutions. Overall, this digitized process not only reduces the manual workload but also reduce the risk of miscommunication and delays, ensuring a smoother supply chain operation and ultimately safeguarding patient care. This tool can also significantly reduce FTE (-1 APO/-1 PHA) and related supply inefficiencies, leading to a prospected minimum savings of ~250'000 CHF/Year for a little/medium hospital.

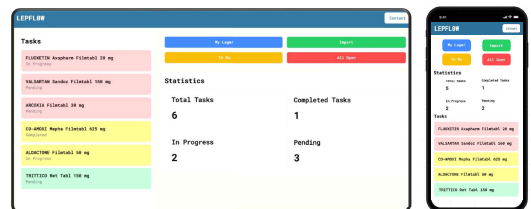


Fig. 3: Beta Preview Homepage PC/Tablet (left image) and Mobile (right image)

### CONCLUSIONS

Automating data processes enhances efficiency and precision. The examples of supplier qualification and stock reports show how well-organized data can reduce manual work and speed up decisions. These tools allow companies to focus on high-value tasks requiring human expertise, improving operational speed and quality. With AI integration and rapid feedback, scalability and continuous improvement become more accessible, making these systems essential in today's data-driven environment

### CONTACT INFORMATION

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