

The background of the slide is a composite image. On the right side, there is a close-up of a white, metallic-looking robotic head with two glowing blue eyes. Below the head, a robotic arm in a blue glove is visible, holding a white pipette tip. The background is a blurred laboratory setting with various equipment. A large blue diagonal shape covers the left side of the slide, serving as a background for the text.

LAB THUNDER

Preserve Knowledge.
Unlock Efficiency.

Customer Testimonial · Case Study
Central Laboratory Witowski

**(Zentrallabor Witowski
GmbH & Co. KG)**

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LabThunder Case Study: Zentrallabor Witowski

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From Excel and paper to clear laboratory documentation



How a small laboratory minimizes documentation efforts, enhances traceability, and realizes quantifiable annual benefits with LabThunder.

Zentrallabor Witowski
Analytical contract laboratory accredited under **ISO 17025** since **2008**.

70%	90%	96%	107	10 weeks.
reduction in documentation time	reduction in Excel worksheets	customer satisfaction	paper logbooks replaced	to full implementation

Company profile

Zentrallabor Witowski GmbH & Co. KG

The Zentrallabor Witowski GmbH & Co. KG is an officially recognized and accredited wine laboratory with facilities in Alzey and Bechtheim, in the Rheinhessen wine region. Since its establishment in 1973, the company has provided winegrowers, wineries, and food retailers with extensive analytical and sensory services for wine, sparkling wine, spirits, and fresh must.



The laboratory's services include wine analysis, microbiological monitoring of fermentation processes, sensory assessments, labeling checks, and regulatory testing for national and international markets. Leveraging advanced laboratory technology, extensive experience, and dedicated customer support, Zentrallabor Witowski has established itself as a trusted partner for the wine and food industries.

For additional information about the company, please visit: www.zentrallabor-witowski.de

Starting point

A documentation weakness that consumed resources every day

The laboratory has operated under ISO 17025 requirements since 2008, where comprehensive documentation and traceability are mandatory rather than optional. However, for many years, the quality management department relied on internally created Excel spreadsheets, analog forms, and paper logbooks.

The issue:

Excel entries could be modified retroactively. For a laboratory accredited under ISO 17025, this posed both a risk and an obstacle to efficiency.

Furthermore, additional vulnerabilities were identified:

- Documentation effort of five minutes per entry
- Manual and error-prone validation in Excel
- Restricted traceability of processes
- Elevated expenses related to audits and inspections
- Information silos among various systems
- Limited acceptance of documentation in daily life
- Intricate management of testing and calibration intervals

Overall, administrative tasks occupied valuable time that was subsequently unavailable for analytical and value-adding activities.

Why choose LabThunder?

Our challenge was not the lack of a system; it was getting people to document information consistently.

LabThunder is remarkably easy to adopt, resulting in a significant increase in usage without the need for persuasion. Additionally, we were impressed by how our requirements as an ISO 17025-accredited laboratory were taken seriously and directly integrated into the development process. Furthermore, LabThunder does not replace our laboratory information management system (LIMS); rather, it enhances its functionality in areas where it previously lacked.

Results:



More time for value-adding work

Reduced time for administration and documentation



Enhanced compliance

Comprehensive traceability of devices and processes



Single Source of Truth

One platform. One data source. Complete transparency.



Preserve Knowledge

Find past cases instantly. Resolve problems faster.

LabThunder in practice

Complaint resolved.

All information readily accessible

When a chemical was suspected of lacking dimensional accuracy, the root cause analysis would have previously entailed a laborious search through multiple systems and folders.

LabThunder provided immediate access to the complete history, including records, device status information, and event logs, enabling the team to understand the full context. The subsequent process interruption was addressed and resolved in a remarkably brief period.

Future security as a strategic objective

Growth in the analytical services market is driven not by increased prices, but by enhanced efficiency. Zentrallabor Witowski uses LabThunder as a cornerstone of its strategy to increase analytical throughput without increasing headcount. Additionally, they intend to leverage the integrated Thunder AI, utilizing their own laboratory data, to facilitate more accessible information and yield even greater time savings for all users.



Frederick Langenwaller

Laboratory Manager and Quality Manager, Zentrallabor Witowski

LabThunder: A Lab Manager's Perspective

LabThunder has addressed one of our most significant challenges: Consistent documentation in daily laboratory operations has been achieved. Due to the streamlined data capture process, our employees now record information more comprehensively and effectively than previously. This enhancement fosters improved traceability, knowledge retention, and quality without requiring any additional effort.

Modules utilized

The documentation effort was reduced by over 70%, leading to rapid implementation within the team and enhanced audit security, all resulting from a systematic digitization strategy.

The following LabThunder modules were instrumental in achieving these results:



Digital logbooks

Challenge
Excel spreadsheets and paper forms, editable afterwards

Solution
Device events are documented directly in the digital logbook.

Audit-ready documentation
Faster data entry
Comprehensive history



Equipment and Asset Management

Challenge
Device information disseminated across multiple systems

Solution
Centralized management of all devices, locations, and histories

Reduced search effort
Immediate access
Support for ISO 17025



Maintenance and Calibration Management

Challenge
Appointments required manual monitoring and tracking.

Solution
Automated surveillance of all intervals

No overlooked appointments
Improved compliance
Increased availability



Document administration

Challenge
Instructions and technical documents disseminated throughout folder structures.

Solution
Documents are stored in the corresponding device record

Accelerated information retrieval
No interruptions in media
Single Source of Truth



Knowledge Management

Challenge
Experiences and solutions to problems are known only to a select few – knowledge is not scalable.

Solution
Knowledge is recorded in the relevant device record and made permanently accessible to the entire team.

Faster Onboarding
Less Dependency on Individuals
Higher Availability
Make Expert Knowledge Usable

Conclusion

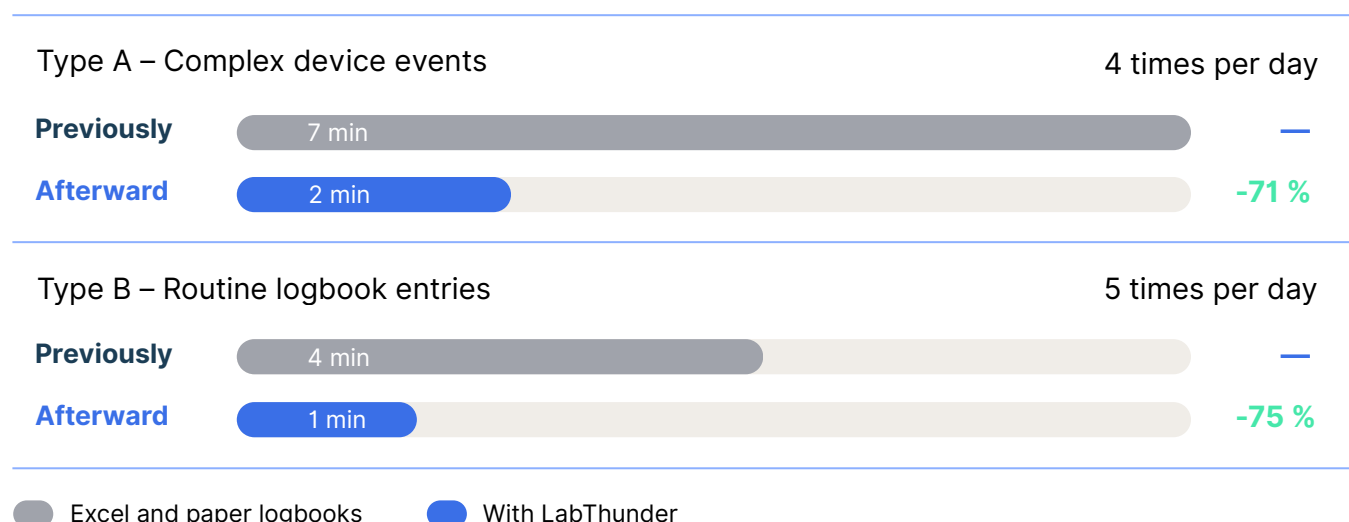
Together, these modules enabled the laboratory to reduce documentation effort by more than 70%, centralize access to information, and strengthen long-term audit readiness.

Time efficiency in the digital logbook

The time required for each logbook entry was reduced by more than 70%.

This analysis exclusively examines the utilization of the logbook integrated within LabThunder. The implications of AI and other functionalities have not yet been addressed.

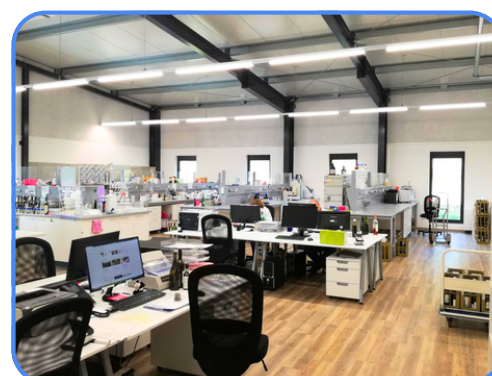
MINUTES PER ENTRY BY DOCUMENTATION TYPE



Expansion beyond the confines of the laboratory

After a brief period, the laboratory resolved to conduct an inventory not only of laboratory equipment but also of all company assets within LabThunder. Currently, all pertinent assets from the HPLC system to the roller door are cataloged there, encompassing manuals, documentation, and internal knowledge regarding each asset.

Consequently, LabThunder supports not only the laboratory sector but also the entire organizational framework.



Zentrallabor Witowski has a wide range of technical equipment, all managed through LabThunder.

Conclusion

The primary motivation for selecting LabThunder was not merely the time savings, but rather the integration of user-friendliness, centralized device storage, and markedly enhanced documentation traceability. Notably, LabThunder's support for regulatory compliance in regulated laboratories provides substantial practical benefits in daily workflows, benefiting both laboratory managers and users alike.

Introduction and Implementation

Implementation in three distinct phases

Phase 1 · Eight weeks

Pilot Operation – Proof of Concept

Two employees evaluated the system in a real-world laboratory environment. They communicated directly with the development team, which incorporated their specific requirements.

Phase 2 · 30 minutes

Team Introduction

Laboratory management delivered a 30-minute presentation to the team, after which all employees began using the system independently.

Phase 3 · Two weeks

Comprehensive implementation

After two weeks, there were no further questions. Employee feedback was consistently positive. The system now runs smoothly and is also used outside the laboratory to manage technology and IT assets.



The team completed the 10-week rollout, while the organization-wide changeover itself took only 14 days.

Comparison: Implementation Duration within the Same Organization

LIMS		12 months
LabThunder		10 weeks



The complete equipment inventory is now managed in LabThunder.

LabThunder from the user's perspective

LabThunder streamlines the documentation process considerably. I consistently save time in my daily tasks and navigate the software with ease. Its intuitive design allows for documentation to be completed seamlessly during work with minimal effort.



Fabian Oberle

State-certified food chemist, officially recognized expert for counter-samples, Zentrallabor Witowski

LAB THUNDER[®]

LabThunder provides greater transparency across device management, knowledge, and compliance. It reduces servicing costs, preserves critical expertise, and improves the efficiency, autonomy, and resilience of laboratories in day-to-day operations.

Experience LabThunder in action:
The digital control center for your laboratory.

- 1 Schedule a demonstration now.
- 2 Discover how LabThunder streamlines your processes, makes knowledge easier to access, improves efficiency, and minimizes downtime.

Preserve Knowledge. Unlock Efficiency.

Scan the QR code
now to schedule
a demonstration.



www.labthunder.com



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