

Challenges in the digital age

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EURACHEM WEEK – 2025-05-26

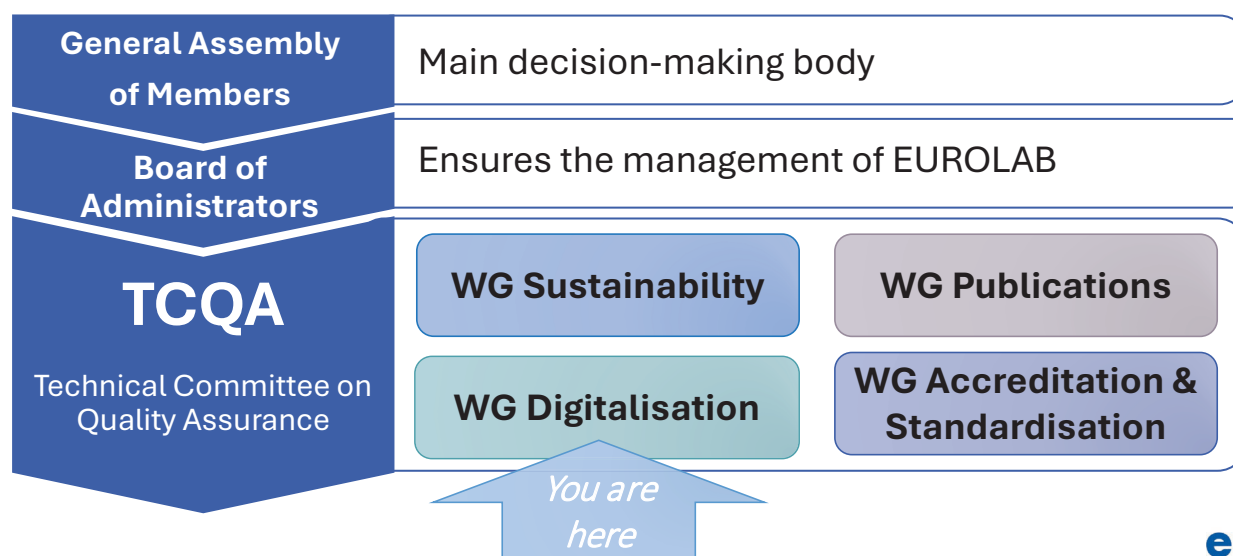
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EUROLAB structure



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EUROLAB WGD

MISSION

- Support laboratories in their **digital transformation**

HOW ?

- ✓ Cookbooks, reports and guidelines
 - ✓ Webinars
 - ✓ Projects with other stakeholders
- } **Online training platform**
–
Mutualise efforts

Technical topics

- ⚙ Cloud computing
- ⚙ Laboratory Information Management Systems (LIMS)
- ⚙ Internet of Things (IoT)
- ⚙ Interoperability of data and systems
- ⚙ Robotics
- ⚙ Blockchain
- ⚙ Digital calibration/testing certificates (DCC/DTC)
- ⚙ ...



Data integrity
Cybersecurity
Compliance

Regulatory context

- **GDPR** (entry into force: 2018)
([Regulation \(EU\) 2016/679](#))
- **NIS 2** on cybersecurity (entry into force: 2024)
([Directive \(EU\) 2022/2555](#))
- **AI Act** on AI development and deployment (entry into force: 2024)
([Regulation \(EU\) 2024/1689](#))
- ...



Survey on « Daily Pains »

Based on:

- ❖ Surveys conducted by EUROLAB
- ❖ Surveys conducted by the German BAM
- ❖ Survey and discussion within WGD



Survey on « Daily Pains »

- | | |
|---------------------------------------|---|
| 1) Complex Data Handling Requirements | 6) Information Security Threats |
| 2) Lack of Change Management Strategy | 7) Financial Constraints |
| 3) Lack of Technology Expertise | 8) Cultural Resistance to Change |
| 4) Interoperability Issues | 9) Ressource Management |
| 5) Regulatory Compliance & Privacy | 10) Continuous Evolution of Customer Need |

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Technical Report
No. 1/ 2024

Published!

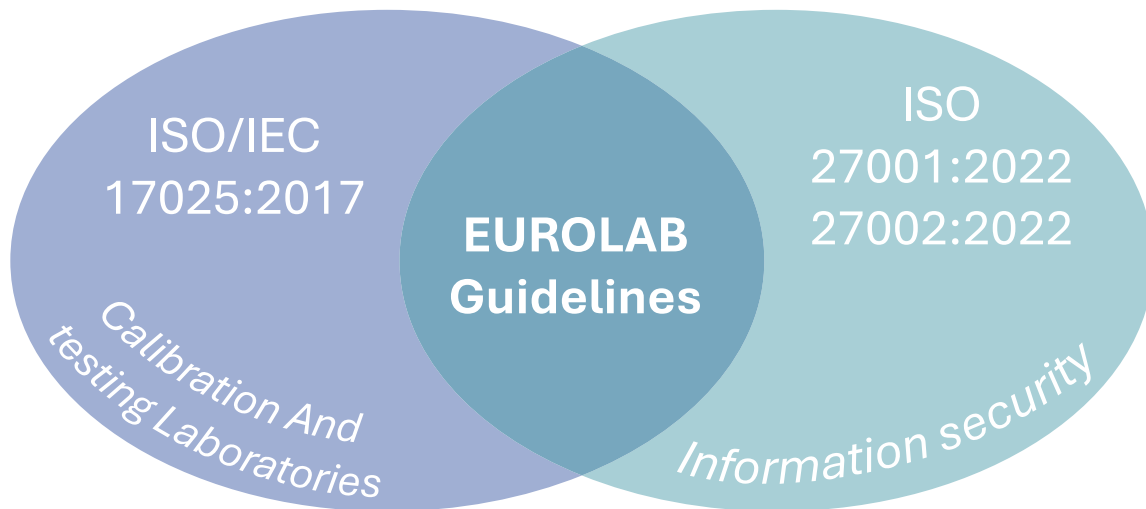
**GUIDELINES FOR
THE MANAGEMENT OF
DIGITALISED SYSTEMS
IN LABORATORIES
ACCREDITED TO
ISO/IEC 17025**

Acknowledgements

- **Anton Blöth**
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Mettler-Toledo

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EUROLAB 2024 Guidelines



EUROLAB 2024 Guidelines



1. Introduction
2. Normative references
3. **Definitions**
4. **Risk assessment**
 - Risk-based classification
5. **Identified risks**
6. **Controls** (*preventive and corrective actions*)

Cookbooks update

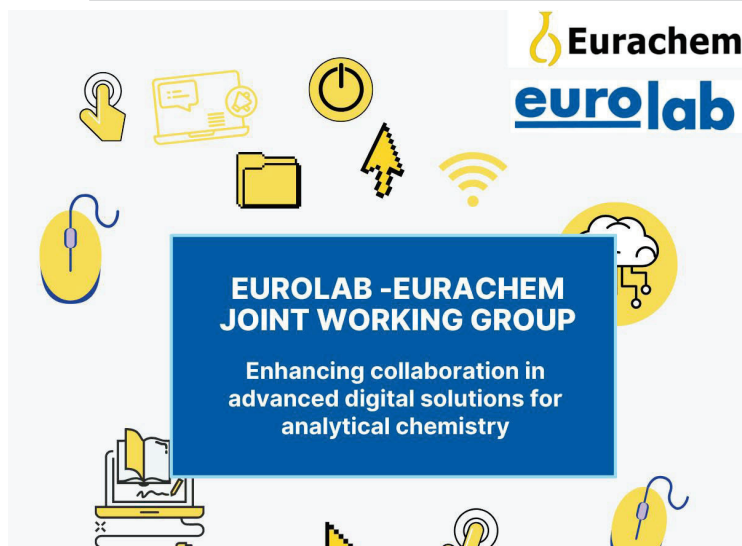
- *Use and handling of spreadsheets*
- *Classification and Handling of Information in a Laboratory*
- *GDPR – General Data Protection Regulation*
- *Position Paper on Artificial Intelligence in Conformity Assessment*

Joint EUROLAB-EURACHEM WG



First topic
*System and Software
qualification*

Joint EUROLAB-EURACHEM WG



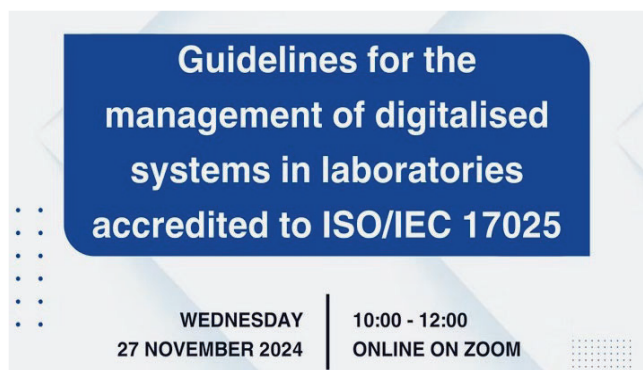
Interested in participating ?

Send an email to either

- info@eurolab.org
- secretariat@eurachem.org

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Webinars



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Collaboration with other stakeholders

- ❖ European Quality Infrastructure Network
- ❖ AIQI
- ❖ QI-Digital Forum
- ❖ EURACHEM
- ❖ CECIP
- ❖ PTB
- ❖ ...



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THANK YOU!



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