

Agri-Tech Digital HUB

PROJECT PARTNERS



POTENTIAL PARTNERS



Agri-Tech Digital HUB

- Education–Innovation–Enterprise Alliance for Digital Quality, Safety and Process Management.
- This is an education-driven Erasmus+ project that connects laboratories, education institutions and food companies to develop digital skills needed in the modern food sector.

Background & Context

- The food sector is rapidly changing due to EU regulations, digitalisation and sustainability demands.
- Many laboratories already use advanced analytical instruments with digital software, but education systems often do not reflect real laboratory and industry practices.

Core Educational Problem

- Digital tools exist, but digitalisation is often limited only to the instrument level.
- Students learn how to operate instruments, but they are not trained to understand or design complete digital workflows from sample reception to final reporting.

Why This Is a Problem for Education

- Because of this gap, graduates often enter the labour market without system-level digital skills.
- This limits their ability to work effectively in accredited laboratories and food enterprises.

Project Rationale – Education First

- This project is focused on education, not on purchasing technology.
- Accredited laboratories and food companies are used as real learning environments where students learn from real data, real workflows and real limitations.

Educational Pillar 1: Digital Laboratory Education

- Students work in an ISO/IEC 17025 accredited laboratory.
- They use real analytical instruments, manufacturer software and digital data export, and observe partially digitalised laboratory workflows.

Educational Value of Partial Digitalisation

- Partial digitalisation is not a weakness, but a strong educational advantage.
- Students can clearly identify where digital processes stop and where improvements are needed.

Educational Pillar 2: Full Process Digitalisation Skills

- Based on this understanding, students learn how to design full digital workflows.
- This includes sample reception, traceability, data management, interpretation and digital reporting in line with ISO standards.

Industry as a Learning Environment

- A real food company participates as a model learning environment.
- Selected production and quality processes are digitally monitored only for education and training purposes.

Learning Outcomes for Students

- Students develop digital thinking, system design skills and a clear understanding of quality and safety management.
- They are better prepared for the labour market and modern food enterprises.

Role of the Accredited Laboratory

- The ISO/IEC 17025 accredited laboratory functions as a living classroom.
- All learning activities are based on validated, reliable and legally compliant data.

Expected Educational Impact

- Better alignment between education and industry needs.
- Improved employability of graduates and stronger digital skills across the food sector.

Conclusion

- The Digital Food-Lab Skills Alliance connects education with real laboratory and industry environments.
- It builds digital skills for the future of the food sector in a practical and sustainable way.

Thank You

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