

Learning across the network

Training, AI models and automation
grounded in verified production
improvements



Training at the workbench

An operator learns an operation through a clear protocol, hands-on practice and a checked result.

Training covers culture handling, hygiene and quality observations as part of daily production.

Useful data carries context

A count alone cannot explain a batch. The record also needs the culture, conditions, operation and sample method.

Comparable records give a team a stronger basis for testing a change.



Archive footage frame

AI models with a defined task

Counting organisms, flagging unusual patterns and supporting production planning are concrete model tasks.

Labeled examples and independent checks come first. Uncertain results stay with a trained person.



Conceptual visualization

Automation one operation at a time

A repeatable operation can connect measurement, a machine action and a check of the result.

Manual control and clear stop conditions remain part of the process while it is validated.



Conceptual visualization

An improvement needs evidence

Compare a proposed change with the existing process over repeated batches, using the same quality measures.

Record the conditions in which it works. A promising trial is not yet a rule for every site.

A checked version for each site

An approved protocol or model version moves into a local pilot, team training and a reviewed rollout.



Feedback and the ability to return to the previous version keep the network's learning usable.

A shared development programme

Training and operating records support the programme. AI and robotic operations are introduced through defined trials.

Automatic distribution of improvements is the target operating model; it is not presented as an already connected service at every site.

Sources and project scope

BioLab · Bioprotection

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Conceptual visualization