

# The Scientist's Guide to Smarter Lab Workflows

## A Practical Toolkit for Lab Digitalization



- Real-world examples from active research labs
- Ready-to-use templates, checklists, and planning tools
- Actionable insights for streamlining scientific workflows
- 30-Day Quick-Start Plan for digital transformation - no system overhaul required



2025 EDITION



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## Welcome to the Scientist's Workflow Optimization Guide!

*If you're working in research or analytical science, you're not looking for another rigid system. You're already managing shifting priorities, experiments in progress, and time-consuming data entry. All while trying to keep work reusable and findable for collaborators.*

*This guide is designed to be a working resource. You'll find practical insights and tools to help reduce friction in your workflows and move from scattered notes to shared clarity without adding complexity.*

*Think of it as a working session in writing: focused, tested, and based on how scientists actually work. It reflects real lab dynamics, where the pressure to move fast often outpaces the systems meant to support you.*

*We'll highlight patterns that scale, process improvements that don't burn your team out.*

*Here and there we will show practical examples of how Scifeon helps labs go from dashboard*

*chaos and review delays to real-time visibility, alignment, and trust across QA, scientists, and stakeholders.*

*We address what is rarely found on public roadmaps: decisions take too long, reporting isn't connected, and the same updates get repeated in three different formats. That's not a software issue: it's a structure issue.*

*What's needed isn't reinvention, it's modular clarity. Tools that adapt instead of disrupt. Dashboards that show what matters. And digital workflows that let lab leaders see further, act faster, and scale smarter.*

*We'll show you how to introduce traceable, modular structure into your work, so you can focus on the science, not the admin.*

*Have a nice read!*

*the Scifeon Team*

### About Scifeon

Scifeon ApS  
Vandtårnsvej 62A, 1st floor, Section E  
DK-2860 Søborg, Denmark

Contact Us  
Phone: +45 4541 0000  
Email: [scifeon@scifeon.com](mailto:scifeon@scifeon.com)  
Support: [support@scifeon.com](mailto:support@scifeon.com)



## What Happens When Notes, Results, and Context Drift Apart

As a scientist, you need to focus on progress, but often your data lives across disconnected notebooks, spreadsheets, or team folders. Results are hard to find later. Notes lose context. Reporting slows down momentum.

Even in high-performing labs, collaboration becomes fragile when documentation is inconsistent or spread across systems.

You don't need more disconnected tools: you need one system that brings context, data, and documentation together. fewer manual steps, fewer copy-paste routines, and one place where your work, results, and notes stay linked.

### What Strategic Visibility Looks Like

- Teams can access the same experiment details without duplication
- Results update in real time across collaborators
- Delays or missing data are flagged automatically
- You can retrieve key insights or raw data without redoing work

This isn't a theory, it's already in practice. One R&D

### Signs It's Time for Strategic Lab Insight

- Results are still collected and shared in Excel
- Teams ask "Where's that data?" more than once
- Experiment status isn't clear until someone manually checks in

**If this sounds familiar, your lab may benefit from operational transparency tools.**

group used Scifeon to unify experiment notes, results, and timelines, reducing rework by 40% and eliminating version mismatch across collaborators.

### Diagnosing Where Research Gets Stuck

Before improving your scientific workflows, ask:

1. **Where are results or experiment data copied manually across tools or files?**
2. **Where do team members struggle to access what's already been done?**
3. **Where are decisions or observations buried in notebooks, emails, or folders?**

Mapping these pain points gives you the blueprint for modularization.

### How to Start Modularizing

<b>Spot the Repetition</b>	Identify tasks or results that get copied across files or manually sent in updates
<b>Unify the Context</b>	Link experiments, metadata, and outcomes in one view, without rewriting your process
<b>Create Shared Dashboards</b>	Design ELNs and dashboards for what each role needs : scientists, team leads, collaborators
<b>Refine and Reuse</b>	Use feedback to evolve your modules. What works in one project can scale to the next





## Make Transparency Part of the Workflow

Transparency isn't just for compliance: it's about understanding what's happening in your research, without chasing it down.

But in many labs, visibility is reactive. Updates come through scattered notes, Slack messages, or weekly meetings. Experiments stall without clear owners, and results don't get reused because no one knows where they are.

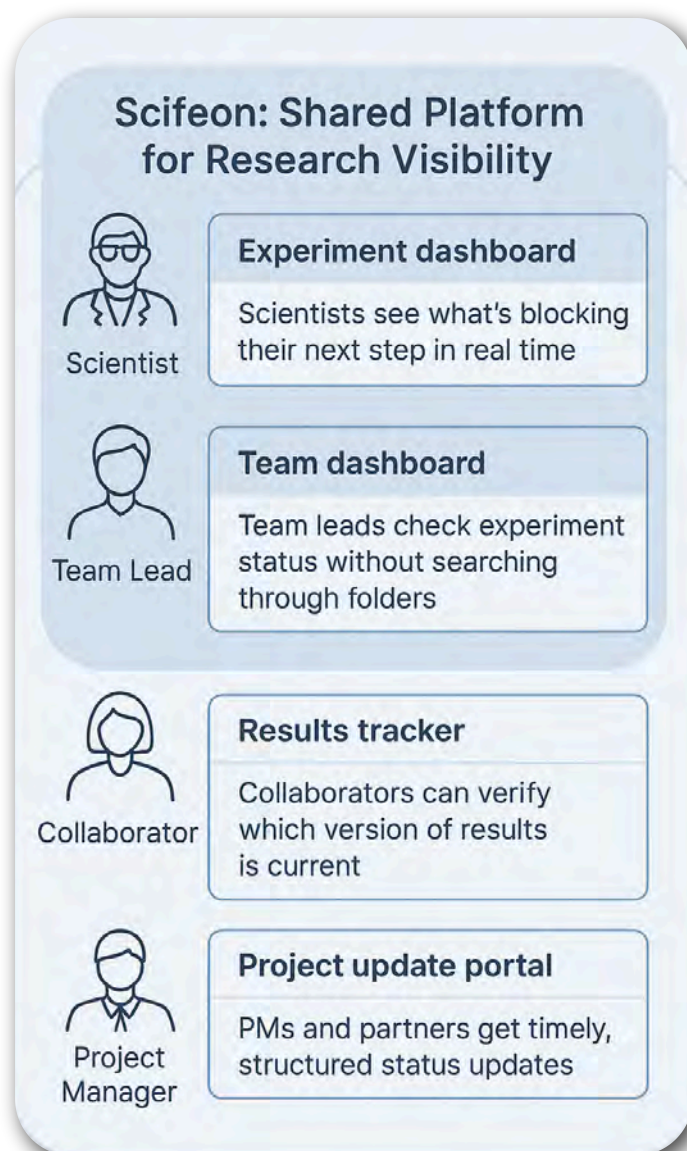
Scifeon helps make visibility a built-in part of your research process: connecting what you already track and showing it to the right people, in the right format.

Let's break this down:

- **Scientists need to know what's blocking their next step**
- **Team leads want to check experiment status without digging through folders**
- **Collaborators should see which version of results is current**
- **Project managers or external partners need timely, structured updates**

If your lab only surfaces this information in shared drives or status meetings, you're already losing time and risking version mismatch.

Here's what it looks like in a modernized, insight-ready lab:



## Three Signs You're Ready to Clean Up Your Workflow

- You're copying results into and from Excel just to share them and doing it more than once
- You've lost time because a colleague used the wrong version of an experiment
- People keep asking for updates on things you've already done, because they can't see it themselves

If you're seeing any of those, your lab is likely already paying the cost of not acting.

### What to Do in the Next 30 Days

#### 1. Pick one recurring frustration.

e.g., Data entry copied across tools, approval delays, or scattered files

#### 2. Describe the ideal state.

One live view showing experiment status, metadata, and owner

#### 3. Prototype it.

Use Scifeon's visual builder to test a clean, reusable workflow. No coding needed

#### 4. Deploy it to one pilot team.

Run the new setup with one project or team. Measure how much time and back-and-forth it saves

#### 5. Decide to expand , or iterate.

If it works, reuse it in other workflows. If not, tweak it with your team and try again

### Final Word

You don't need to rebuild your research workflows. You just need one working setup that reduces friction and makes progress visible.

Scifeon helps scientists link results, notes, and tasks into traceable, flexible flows without disrupting how science actually happens.

Visit [www.scifeon.com](http://www.scifeon.com) or book a [working session](#) with our lab systems team to find out more.

# How Scientists Can Build Better Visibility

Scientific clarity starts with small improvements, not big overhauls. You don't need to revamp everything. You need one clean process that shows what better looks like.

This 4-step plan helps you turn repeated manual effort into a live, connected research view, without changing the way you think or work. On the right side, you can read how it played out in a real-world Biotech Lab Scenario.



***In a mid-sized biotech R&D team, fermentation data for strain development was spread across handwritten notebooks, Excel sheets on shared drives, and separate pH/DO readouts exported from instrument software.***

## **Issues they faced:**

- Researchers spent 20–30 minutes per run copying time-series data manually into templates
- Metadata like strain ID, medium composition, and operator notes were stored in separate formats
- Deviations (e.g. foam-over events, sensor drift) were inconsistently documented or lost entirely
- Team members had to ask the primary operator to clarify conditions, even days after the experiment

## **How the shared workflow improved the process:**

- A simple Scifeon instance was configured to link experiment setup, run data, and metadata in one dashboard
- Instrument exports were attached directly to the run and auto-tagged by batch and strain
- Technicians added real-time observations (e.g., “adjusted antifoam at 4h mark”) directly into a traceable entry
- The team lead had a live view of all active fermentations, including status, assigned user, and quality notes

## **Outcome:**

- Average documentation time was reduced by ~40%
- Cross-team questions about conditions or results dropped significantly
- A deviation trend was identified across three runs — something previously missed due to scattered records

# Modular Lab Starter Planner

Use this planner to break one messy, manual process into a modular structure. It's not about complexity. It's about making research steps easier to follow, reuse, and improve.

## Identify a Candidate Workflow

- Think of a recurring process in your lab that causes rework or slows things down.
- **What's the task?** (e.g., Sample setup for new fermentation runs)
- **What triggers it?** (e.g., New client request or experimental condition)
- **Why is it painful?** (e.g., Parameters vary by user, data captured inconsistently, unclear file versioning)

List the key steps, people involved, and tools used today.

Step	Responsible	Tools Used	Notes
Inoculum prep	Technician	SOP printout, Excel log	Batch info added manually
Fermentation start	Scientist	Notebook, CSV file	Parameters copied from last run

## Map the Current Flow

## Spot the Repetition or Variation

- **Where does this workflow break down?**
  - Input data changes often?
  - Approval steps vary by team or project?
  - Output formats inconsistent?
  - Communication unclear?
  - Other pain points?
- .....

Focus on one part of the process that can be made repeatable, traceable, and flexible. What would it look like if this step worked smoothly every time?

Ask:

- What should be consistent across every run?  
(e.g., required metadata, approvers, report format)
- What needs to remain configurable?  
(e.g., strain ID, sample volume, analysis type)

## Define the Modular Future State

## Plan Your First Modular Prototype

Choose one part of the workflow to digitize or modularize this month.

Module to build:	Owner	Tools needed:	Target Launch Date	Review Check in Date:
(e.g., sample intake form with dynamic fields)	(e.g., QA Lead, LabOps Manager)	(e.g., Scifeon Workflow Builder)		



# Assess Your Lab's Readiness: A Mini Framework



Self-assessment only matters if it leads to progress. Most scientific teams already know where the bottlenecks are, they just don't have time or structure to fix them.

This framework is built to help scientists start small: by identifying one low-performing area and improving it with a light, flexible prototype. Not to judge, but to move forward, one step at a time.

## Step 1: Take the Assessment

Score your lab 1–5 in each of the categories below:

Category	Questions to Ask	Score (1–5)
<b>Workflow Agility</b>	Can we adapt an experiment workflow or template in under a week?	.....
<b>Traceability</b>	Can we link key results to original inputs, metadata, and notes?	.....
<b>Collaboration</b>	Can other team members find and reuse data without having to ask for context?	.....
<b>Data Consistency</b>	Are results, observations, and protocols stored in one reliable format?	.....
<b>Experiment Handover</b>	Can another scientist resume or build on this work without gaps or guessing?	.....

## Step 2: Choose a Focus Area

Pick the lowest-scoring item above. This becomes your starting point for change.

Examples:

- **If Traceability scored lowest:** your first goal might be to standardize how metadata is captured and linked to results
- **If Experiment Handover scored lowest:** map where critical details go missing between collaborators

# Assess Your Lab's Readiness: A Mini Framework



## Step 3: Draft a 30-Day Plan

Use this worksheet with your team to improve one key area of your workflow

Focus Area	Pain Point	First Fix	Who Owns It	Check-In Date
Traceability	Can't track test-to-result lineage	Istructured metadata fields to ELN input forms	QA Lead	[Date]
Experiment Handover	Colleagues repeat steps due to unclear context	Create a shared dashboard with sample status	Project Manager	[Date]

*Tool Tip:* Scifeon's modular setup allows most of these fixes to be tested within days , without touching your core systems.

## Step 4: Follow Up and Refine

In 30 days:

- *Measure:* Did the issue improve? Can you show impact?
- *Adjust:* If not, does the fix need refinement, or is the root cause deeper?

## What Success Looks Like

By working through one category at a time, you build momentum. Within 90 days, teams often see:

- 30–50% less time spent locating or re-documenting data
- Fewer clarification emails between colleagues
- Reduced duplication across experiments
- Faster onboarding of new team members into workflows

Digital maturity isn't a checkbox. It's a system that adapts with you. This framework gives you a way to build that system , starting right where you are.

# Transparency Sprint Canvas



Use this 1-week sprint to test whether a shared, live view can reduce uncertainty, duplication, and confusion in your research workflow.

Sprint Timeframe	
Start Date	
End Date	
Owner	

## 1. Define the Visibility Problem

What status questions does your team answer manually , over and over?

<p><b>Repeated questions or delays:</b></p> <div><div>1. "Has the culture been harvested?"</div><div><input type="radio"/></div></div> <div><div>2. "Did QA finish the review?"</div><div><input type="radio"/></div></div> <div><div>3. "Where are the files from Run 3?"</div><div><input type="radio"/></div></div> <div><div>4. "Which version of the experiment is current?"</div><div><input type="radio"/></div></div> <div><div>5. "Did anyone annotate the deviation at hour 5?"</div><div><input type="radio"/></div></div>
---

**Other examples:**

## 2. Choose One Pilot Workflow

Focus on one process where live status could make an immediate difference.	
Pilot Workflow:	(e.g., sample approval, release testing, deviation review)
Why this one?	(e.g., high volume, high risk, lots of email churn)

# Transparency Sprint Canvas



## 3. Build a Shared View

Design what this live status view should include for you and your team.

### What info should be visible at a glance?

- Sample/test status ☐
- Approval step progress ☐
- Assigned owners ☐
- Timestamps ☐
- Flags for delays or missing data ☐

### Where will it live?

- A dynamic view inside your ELN with live status fields
- A read-only tracker embedded in Microsoft Teams or SharePoint
- A structured view generated from metadata tags (e.g., experiment status + user + timestamp)
- A hybrid view linking Scifeon and existing Excel tracking sheets for gradual transition ...

### Who needs access?

- Scientists ☐
- Lab Ops ☐
- PM ☐
- QA ☐

### Other Requirements?

## 4. Go Live and Observe

### Commit to running the pilot dashboard or visibility tool for one week.

What worked well?	
What feedback did you receive?	
What was clearer or faster than before?	



# Collaboration Clarity Tracker

## Where visibility breaks down — and how to fix it.



Use this tracker to uncover where your work becomes unclear to others, and where shared views or structured data can reduce questions, delays, and rework.

### 1. What Are People Asking You Again and Again?

Question Type	Example	How Often?	Manual Effort Involved to answer?
<b>Status Request</b>	<i>"Is the latest run complete?"</i>	Daily / Weekly / Occasionally	Low / Medium / High
<b>Data location</b>	<i>"Where are the latest results from batch 42?"</i>		
<b>Conditions used</b>	<i>"Was this strain grown in M9 or LB?"</i>		
<b>Ownership</b>	<i>"Who annotated this deviation?"</i>		
<b>Version tracking</b>	<i>"Which protocol did you use for this one?"</i>		

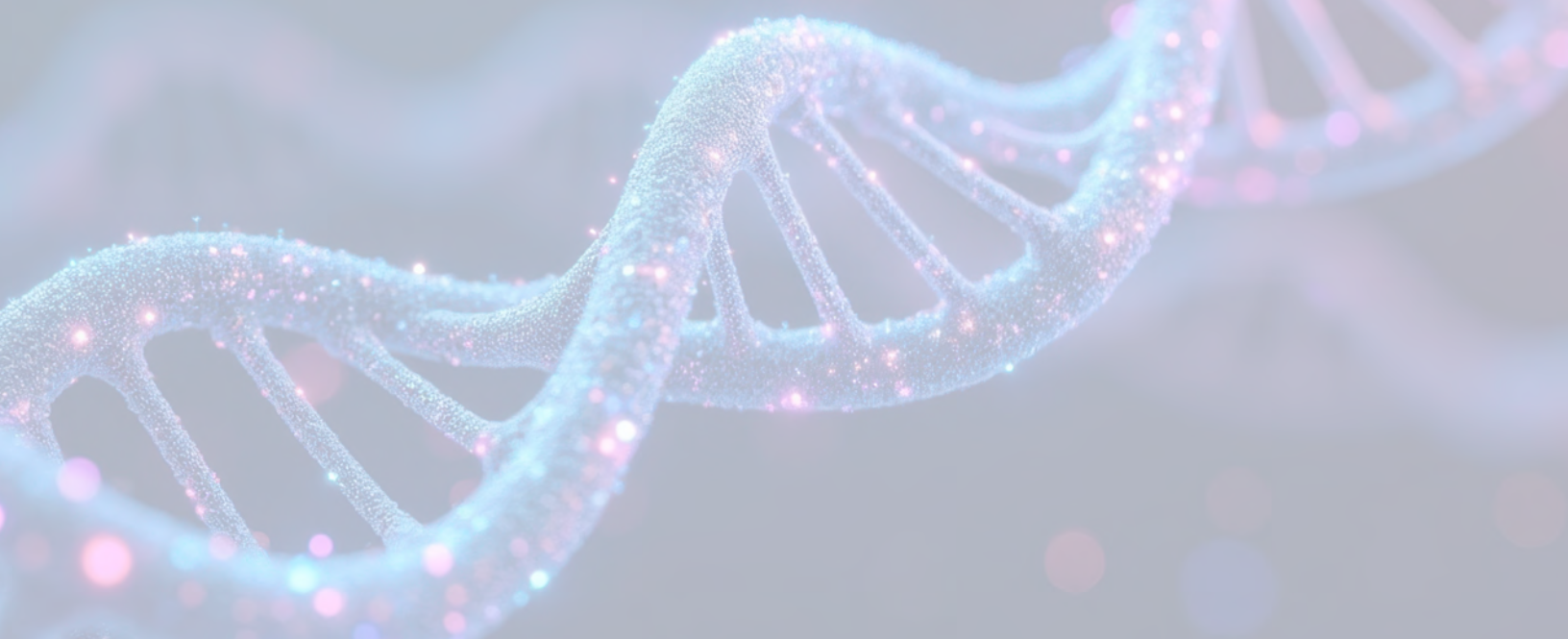
### 2. Where Is This Information Stored Today?

Information Type	Tool or Format	Is it shared?	Updated How Often?
<b>Sample Status</b>	<i>ELN / Excel / Notebook</i>	Daily / Weekly / Occasionally	Low / Medium / High
<b>Raw results</b>	<i>Instrument exports / CSV</i>		
<b>Observations &amp; notes</b>	<i>Paper / Post-its / Email</i>		
<b>Versions / templates</b>	<i>Not standardized / Local files</i>		

### 3. Friction Points You Can Eliminate

These are high-effort tasks that drain team time and affect client trust. Fixing them creates instant ROI.

Friction	Impact	Potential Fix	Time to Implement
<b>Sample Status / QA review updates via email</b>	<i>Slows reuse, causes errors</i>	Share a Scifeon dashboard link	1–2 days
<b>Conditions recorded inconsistently</b>	<i>Invalidates comparisons</i>	Use parameter templates	1 week
<b>Observations not linked to data</b>	<i>Context is lost</i>	Add structured comment fields in ELN	2–3 days



#### 4. Build a Scifeon- Enabled Visibility Plan

Choose what to improve, how to make it visible, and what to monitor.

Once you’ve identified a repeated question, missing handover, or misaligned status , use this mini plan to implement a practical visibility upgrade that reduces effort for everyone.

What You Want to Make Visible	To Whom	How Will It Be Shared?	Check-In Date
Run status (e.g., in progress, done)	Team members / LabOps	Scifeon dashboard or shared tracker view	
Notes & deviations with context	QA / Scientists	Live comments in ELN	
Sample-to-result lineage	Project Manager / Analyst	Linked record with metadata path	

**How to Use It:**

Start with one row. Build a basic shared view or linked field that answers the repeated question at a glance. After 2–3 cycles, assess:

- Are people still asking?
- Did you reduce handovers or clarification loops?
- What could be structured better next time?

This builds confidence that your work is not just stored : it’s accessible and understood.



# Scientific Traceability Scorecard

This scorecard helps identify weak points in your scientific documentation: the kind that slow down reviews, cause questions, or create confusion during audits, internal reviews, or collaborations.

Whether you're GLP, ISO, or just trying to keep things defensible:  
good science needs good traceability.

## 1. Can someone else understand and reuse your work?

Rate each area on a scale of 1–5. Be honest: this is for improvement, not judgment.

Area	Questions to Ask	Score (1–5)
<b>Sample-to-result traceability</b>	<i>Can we trace results back to the raw sample and batch setup?</i>	
<b>Parameter tracking</b>	<i>Are all key parameters recorded consistently (not just in free text)?</i>	
<b>Protocol versioning</b>	<i>Do we know which version of the protocol was used in each run?</i>	
<b>Observation capture</b>	<i>Are real-time notes and deviations documented and linked to the correct step/result?</i>	
<b>Data storage format</b>	<i>Are raw data files archived in a format that allows retrieval + interpretation later?</i>	
<b>Handover continuity</b>	<i>Can another scientist resume this work without asking for clarification?</i>	
<b>Notes completeness</b>	<i>Are your notes complete enough that a reviewer could understand what happened?</i>	

### What to Do With It

- Low scores (1–2) = start small: standardize just one input form or output step
- Mid scores (3) = test a shared workflow or tracking template
- High scores (4–5) = document what's working and reuse it elsewhere

You don't need to be audit-certified to think like a reviewer.

You just need to make your science easy to follow for yourself and others.

## Traceability Scorecard



### 2. Is your experiment traceable and reproducible?

Traceability isn't just about good documentation. It's about preserving scientific intent. Reproducibility means more than repeating a protocol; it requires clarity of assumptions, decisions, and conditions.

Use this as a self-check on the structural integrity of your experimental records:

Traceability Criteria	Yes	No	Partial
Is metadata consistently captured using controlled fields (e.g., strain, batch, operator)?			
Can the sequence of actions be reconstructed, including the rationale for changes?			
Are deviations systematically logged with timestamps, impact, and contextual notes?			
Are procedural steps, results, and annotations linked, not scattered across systems?			
Could another scientist replicate your work without asking you to explain what happened?			

#### Interpretation:

If you're answering "Partial" more than once, you're not alone: most labs improvise context daily.

But reproducibility starts with reducing the need for memory or clarification. That's where structured workflows help.





## 5. Decide Next Steps

At the end of the sprint, use this to make your next move.

**Should we scale this dashboard/workflow to...**

- More teams ☐
- More projects ☐
- Additional workflows ☐
- Other systems ☐

(e.g., QA tracking, reporting)

### Or improve before scaling?

*Document feedback, blockers, and quick wins — and make a decision.*

## Final Note:

Clarity in the lab isn't just about data. It's about reducing hesitation and repetition. One shared view can save hours of backtracking.

This sprint gives your lab a way to test and prove that , in one focused, fast cycle.

# Audit Readiness



## From Scientific Friction to Clean Fixes – One Module at a Time

Even experienced labs rely on workarounds: copy-paste routines, repeated explanations, version mismatches. But small, modular fixes drawn from real-world labs can significantly reduce that friction.

Use this planner to identify a high-impact weak point and choose a proven corrective pattern that can be implemented in **days, not months**.

### 3. High-Impact Fixes Labs Can Apply This Month

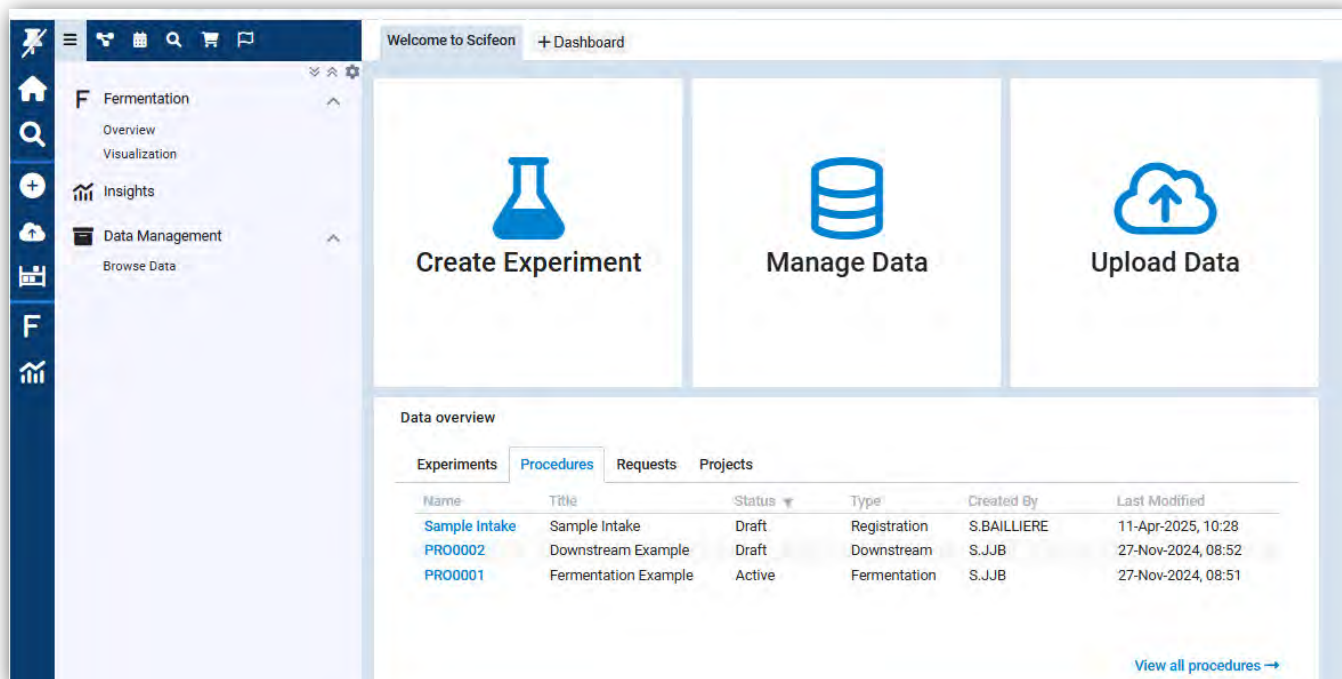
What's Missing or Risky	Best Practice Fix	Owner
<b>Protocol version confusion</b>	<i>Implement version-controlled templates in Scifeon ELN</i>	<i>[Name]</i>
<b>Sample metadata varies across team members</b>	<i>Use structured intake forms with controlled vocabularies</i>	<i>[Name]</i>
<b>Observations stored in notebooks or email</b>	<i>Enable real-time notes entry directly in experiment run dashboards</i>	<i>[Name]</i>
<b>Data stored separately from experiment context</b>	<i>Link raw data to method + outcome using sample-to-result relationship mapping</i>	<i>[Name]</i>
<b>Deviations only noted if asked</b>	<i>Trigger auto-deviation prompts when thresholds are exceeded</i>	<i>[Name]</i>

#### PRO Tip:

Each fix above represents a low-barrier module : something that can be scoped, tested, and refined in 1–2 weeks. Most don't require new infrastructure , just smarter use of what you already track.

# What It's Like to Work with Scifeon Built for Real Lab Workflows

Scifeon is designed to support your lab's operations without disrupting existing processes. It's a modular, cloud-based system that brings LabOps, QA, and project teams onto one secure, compliant platform fully adapted to the realities of CDMO and GxP environments.



The screenshot displays the Scifeon software interface. On the left is a vertical navigation menu with icons for home, search, and various data management functions. The main dashboard area features three large buttons: 'Create Experiment' (with a flask icon), 'Manage Data' (with a database icon), and 'Upload Data' (with a cloud and upload icon). Below these is a 'Data overview' section with tabs for 'Experiments', 'Procedures' (selected), 'Requests', and 'Projects'. A table lists data entries with columns for Name, Title, Status, Type, Created By, and Last Modified.

Name	Title	Status	Type	Created By	Last Modified
Sample Intake	Sample Intake	Draft	Registration	S.BAILLIERE	11-Apr-2025, 10:28
PRO0002	Downstream Example	Draft	Downstream	S.JJB	27-Nov-2024, 08:52
PRO0001	Fermentation Example	Active	Fermentation	S.JJB	27-Nov-2024, 08:51

The interface is intuitive and tailored to roles: whether you're in the lab, in QA, or managing projects, you see exactly what you need: nothing more, nothing less.

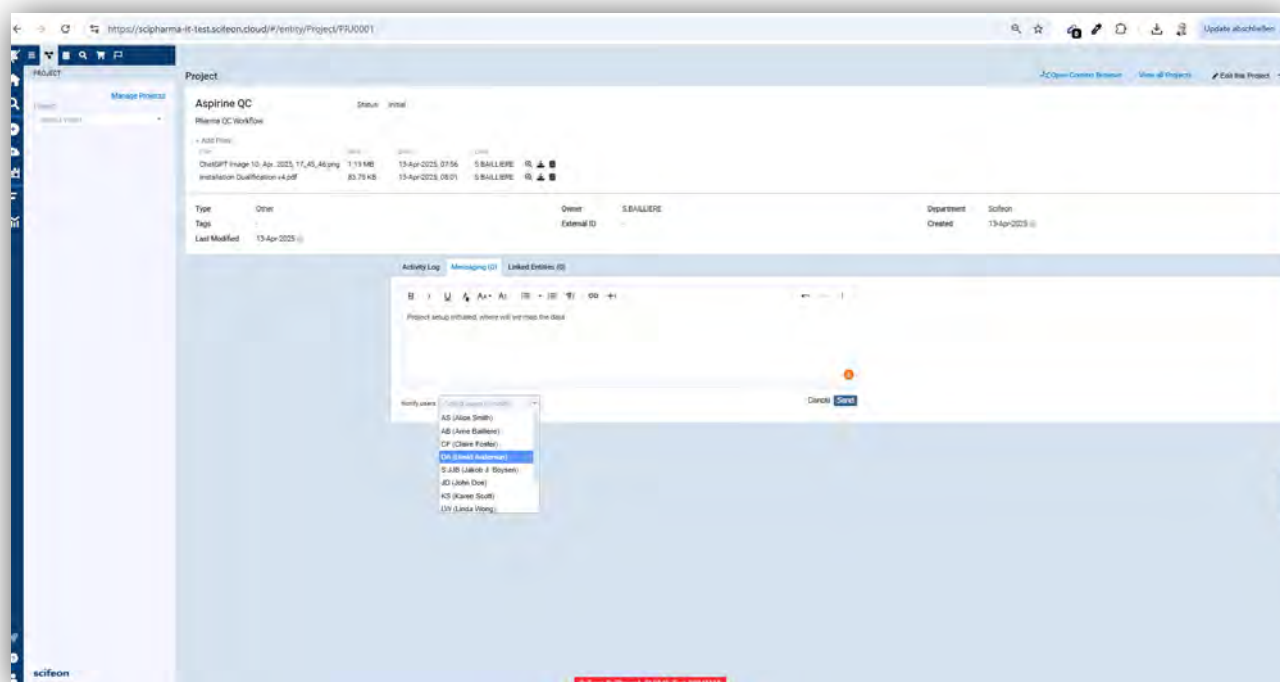


## Scifeon: Your Reliable Digital Lab Platform for R&D and Compliance

Scifeon is a secure, scalable, and configurable platform built for the demands of R&D labs in biotech, pharma, CROs, and CDMOs. It enables organizations to standardize lab workflows, digitize documentation, and ensure data integrity and compliance from day one.

Developed by scientists, proven in regulated environments, and trusted by growing and global companies alike, Scifeon combines technical flexibility with operational control without long implementation times or complex IT dependencies.

### Core Platform Features for Modern Labs



### Electronic Lab Notebook (ELN)

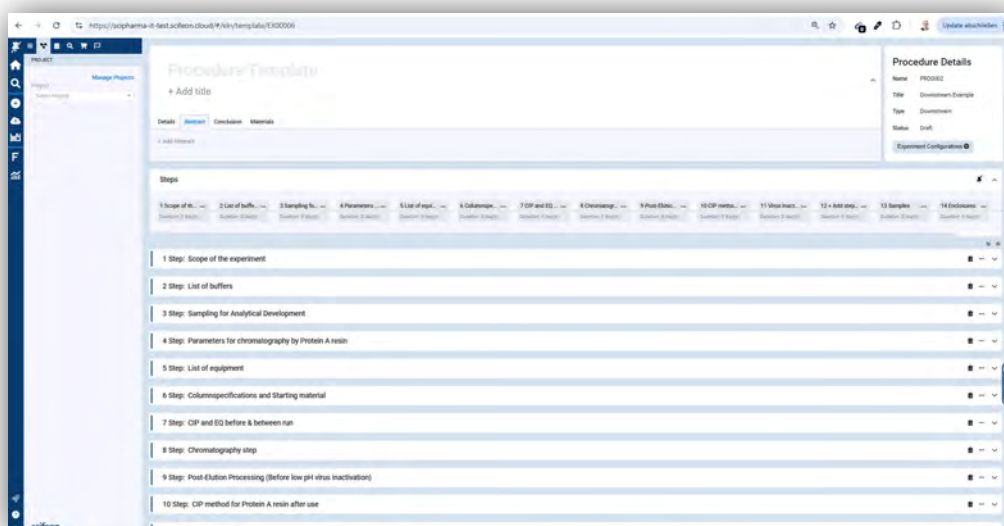
Record experiments using structured workflows, templates, and traceable results. Built-in version control, calculations, and sample links ensure complete documentation.



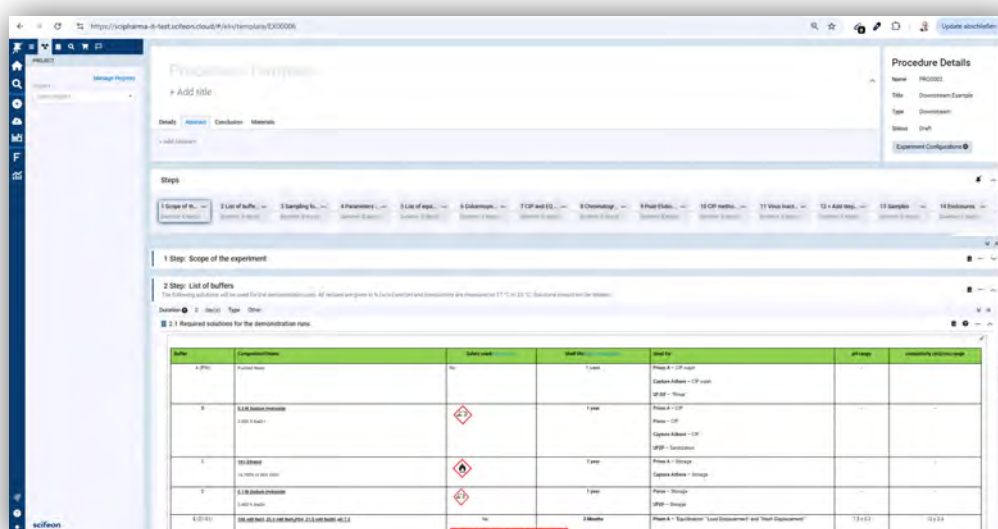


## Workflow Automation & Team Collaboration

Digital SOPs, controlled task assignment, and automated data entry reduce human error and support consistent execution across teams.



**Template Configuration – Tailor workflows to each client or process, without coding.**



**Procedure Templates – Automate SOPs and repeatable processes with full audit trail.**

The screenshot displays the scifera Context Browser interface for the fermentation dataset FRM0009. The browser is set to a hierarchical layout. The main content area shows a tree diagram where 'Fermentation' is the root node, branching into 'Sample' and 'Time Series' nodes. The 'Sample' node further branches into '11' and '12' nodes, which then branch into '1' and '2' nodes. The 'Time Series' node branches into '1' and '2' nodes. The bottom table lists samples with columns for ID, Name, Type, Status, Date, and Value. The table shows 11 samples, all of type 'Fermentation' and status 'Active', with values ranging from 1.0 to 1.0.

ID	Name	Type	Status	Date	Value
500081	500081	Fermentation	Active	12-Aug-2021	1.0
500090	500090	Fermentation	Active	13-Aug-2021	1.0
500091	500091	Fermentation	Active	13-Aug-2021	1.0
500092	500092	Fermentation	Active	13-Aug-2021	1.0
500093	500093	Fermentation	Active	14-Aug-2021	1.0
500094	500094	Fermentation	Active	14-Aug-2021	1.0
500095	500095	Fermentation	Active	15-Aug-2021	1.0

The screenshot displays the Scifarma IT test cloud environment interface. The browser address bar shows the URL: <https://scifarma-it-test.scfcloud.it/vm/template/EX00005>. The interface is divided into several sections:

- Header:** Includes a navigation bar with icons and a "Update attachment" button.
- Main Content Area:**
  - Enter Title of Fermentation here:** A large text input field for entering the fermentation title.
  - Steps:** A section with a "1 Step: Registration & Details" step selected. Below this, there are sections for "Plasmids" and "Devices" with associated data tables.
- Procedure Details Sidebar:** Located on the right, it contains a "Procedure Details" section with a "Details" button and a "Details" table.

The "Plasmids" section contains a table with the following data:

Plasmid	Size	Sequence	Host	Transformation
Plasmid 1	3.0	100	10	10
Plasmid 2	3.0	100	10	10
Plasmid 3	3.0	100	10	10

The "Devices" section contains a table with the following data:

Device	Manufacturer	Type	Serial Number	Address
Device 1	Manufacturer 1	Device Type 1	Serial Number 1	Address 1
Device 2	Manufacturer 2	Device Type 2	Serial Number 2	Address 2
Device 3	Manufacturer 3	Device Type 3	Serial Number 3	Address 3

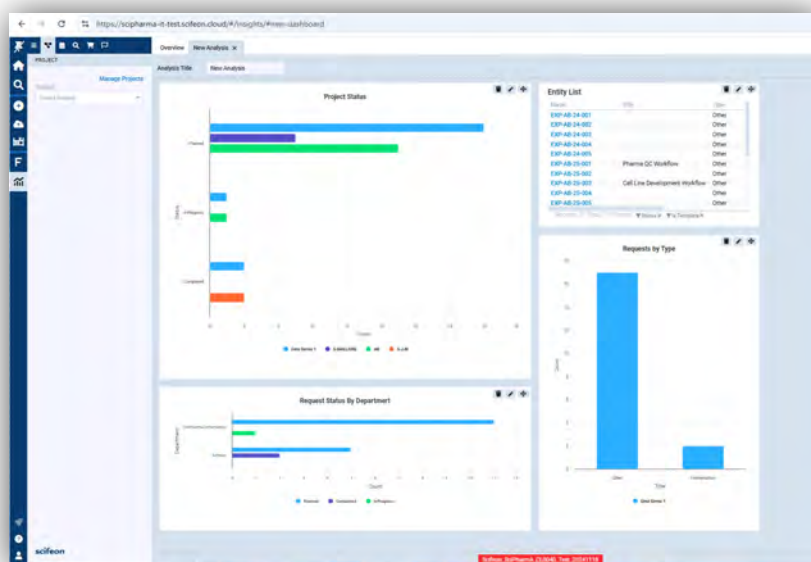
The "Software" section contains a table with the following data:

Software	Version	License
Software 1	Version 1.0	License 1
Software 2	Version 2.0	License 2

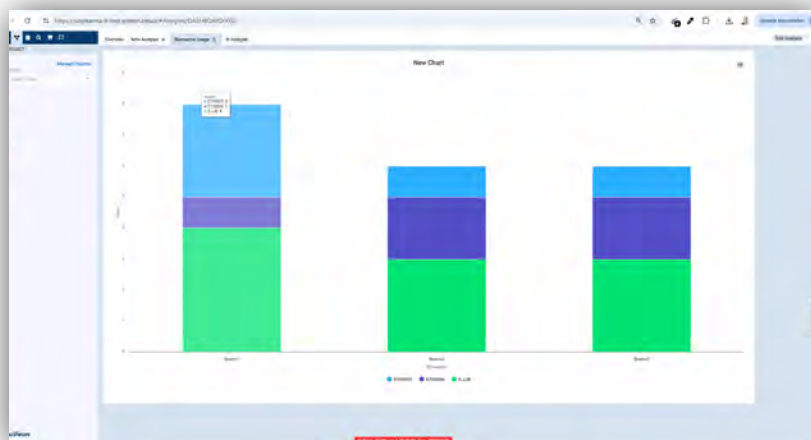


## Dashboards & Reporting

Collect data directly from lab instruments (e.g. FACS, HPLC, bioreactors).  
Visualize key metrics such as assay trends and project progress.



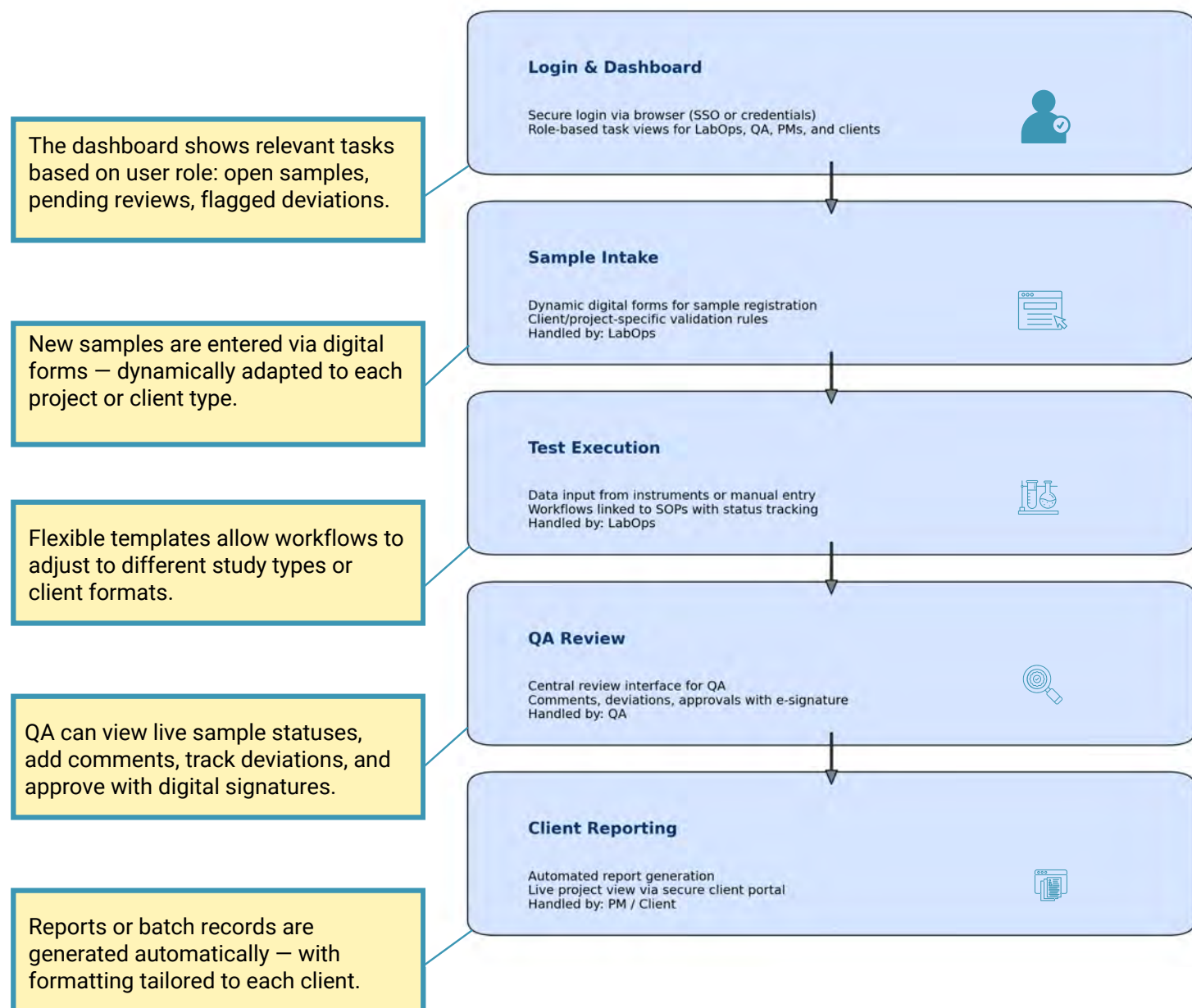
**Build an Run live graphical dashboards on any data points in the system within minutes.**



**Export seamlessly to Excel, Power BI, or Spotfire.**

# A Typical Day with Scifeon: From Sample Intake to Result Approval and Reporting

Scifeon is designed to support your lab's operations without disrupting existing processes. It's a modular, cloud-based system that brings LabOps, QA, and project teams onto one secure, compliant platform — fully adapted to the realities of CDMO and GxP environments.



Our team works closely with yours to map your existing processes, identify points of friction, and co-design a solution that integrates with your current setup. Whether you're looking to streamline QA, improve visibility, or enhance traceability.



## Scifeon's Cloud-Hosted Architecture

Scifeon is delivered as a secure, cloud-based application hosted on Microsoft Azure. Its architecture is based on a three-tier model that separates the user interface, application logic, and data storage. This enables scalability, maintainability, and compliance with regulatory standards.

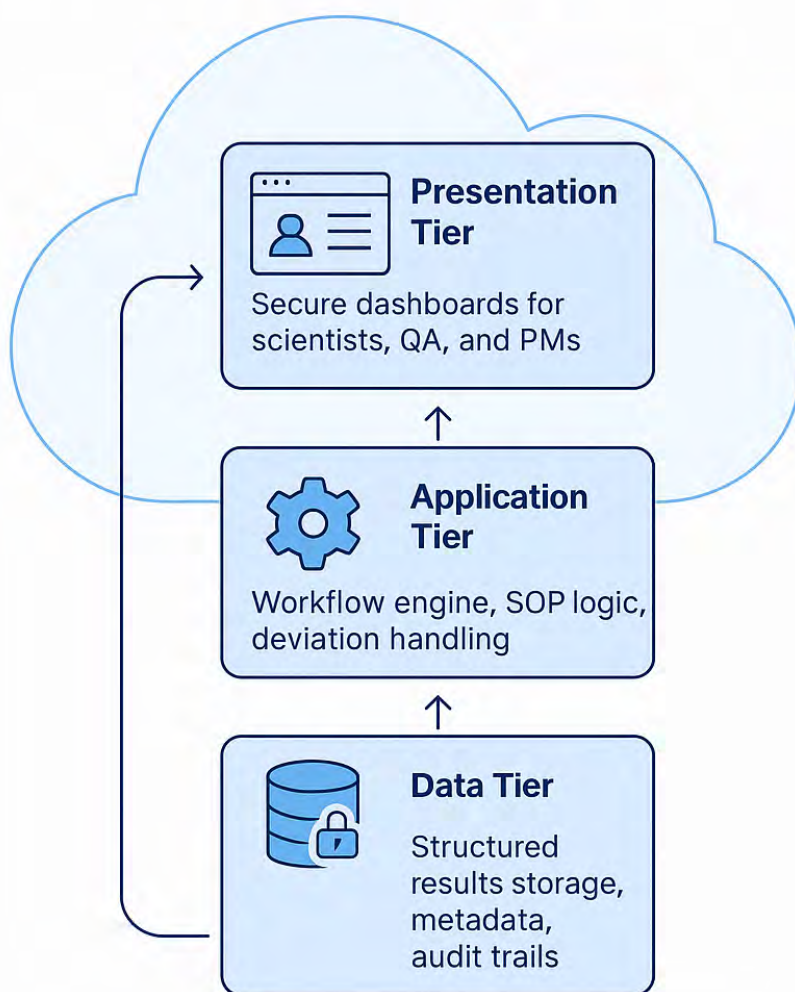
### Security & Compliance

- End-to-end encryption (in transit and at rest)
- Role-based access (RBAC)
- Audit trail with versioning and timestamped user actions
- Hosted in ISO 27001 and GxP-compliant Azure infrastructure

### Integration & Maintenance

- Supports API-based and file-based integration with LIMS, ELNs, MES
- No local installation required
- System updates and maintenance handled by Scifeon

The architecture ensures controlled, secure, and transparent workflows across the lab with minimal disruption to existing systems.



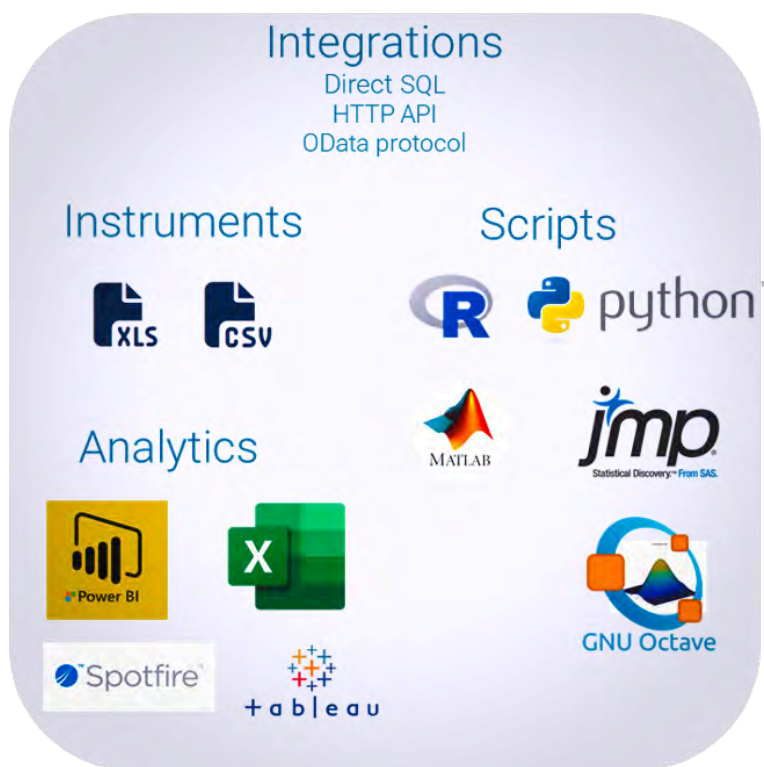
## Instrument & System Integration

Collect data directly from lab instruments (e.g. FACS, HPLC, bioreactors). Use open APIs and prebuilt connectors to integrate with your existing ecosystem.

Secure File Upload – Attach validated protocols, forms, or batch records directly to projects.

Scifeon seamlessly connects with a wide range of Instruments, Scripting Languages, and Analytics Platforms.

This ensures smooth Data Flow across your Lab Ecosystem. Whether through direct SQL, HTTP APIs, or OData Protocols, our Integrations enable Automation, Analysis, and enhanced Decision-making.



## Scifeon Instrument Hub

Scifeon's in-house developed Instrument Hub streamlines data acquisition, management, and instrument connectivity. Designed to eliminate manual data entry and ensure seamless integration with Scifeon LIMS & ELN.



- Automated Data Capture
- Supports balances, pH meters, conductivity meters, and more.
- Error-Free Processing
- Standardized workflows ensure data accuracy.
- Seamless Instrument Integration
- Centralized, real-time data access.
- Live Monitoring & Alerts



# Built for the DACH Market

## Reliable, Compliant, Adaptable

### **Quick Implementation**

Configured and deployed in just a few weeks – cloud-hosted in the EU or installed on-premise. Ideal for teams that need results fast without IT overhead.

### **GxP-Ready from Day One**

Full support for 21 CFR Part 11 and EU GMP: e-signatures, audit trails, access controls, and ALCOA+ data principles.

### **Low-Code Customization**

Adapt data models, workflows, and interfaces using configuration or scripting. Easily evolve with your processes, not against them.

### **Enterprise-Grade Architecture**

Each instance is single-tenant and secure. Built with scalable Microsoft-based technology (SQL Server, ASP.NET Core, TypeScript frontend).

### **Ultra -Responsive Support**

Our dedicated team is reachable through the built- in Feedback functionality directly from within the application. Very fast response and assistance times.



## ***Before You Go...***

### **Where Digital Transformation Becomes Practical**

This guide doesn't aim to cover every detail of a full implementation.

Instead, we hope it has offered a starting point, and perhaps taken away some of the hesitation around lab digitalization.

Scifeon was built to make digital transformation approachable, fast, and grounded in real lab work. With hands-on deliverables, quick implementation, and flexible workflows, we aim to support your team in making real improvements, one step at a time.

Digital lab performance is within reach.  
Let's take the first step together.

[BOOK A DEMO OR GET IN TOUCH](#)

#### About Scifeon

Scifeon ApS  
Vandtårnsvej 62A, 1st floor, Section E  
DK-2860 Søborg, Denmark

#### Contact Us

Phone: +45 4541 0000  
Email: [scifeon@scifeon.com](mailto:scifeon@scifeon.com)  
Support: [support@scifeon.com](mailto:support@scifeon.com)

#### Scifeon DACH:

Arne Bailliere , Head of Market Expansion DACH  
[bailliere@scifeon.com](mailto:bailliere@scifeon.com)  
Phone: + 49 175 979 73 08

