Technology selection services
Expert technology selection for laboratory informatics systems

What are lab informatics systems?

Lab informatics systems are specialized digital platforms designed to manage, track, and store vast amounts of laboratory data. They automate processes, enhance data integrity, and foster collaboration, improving overall lab efficiency. Key systems include:

LIMS: Manages samples, workflows, and data, enabling efficient tracking and reporting.

ELN: Digital lab notebooks for documenting experiments and collaboration.

SDMS: Centralizes scientific data management for easy retrieval and sharing.

CDS: Manages and analyzes chromatography data.

LES: Guides lab personnel through standardized workflows for consistency and compliance.

Instrument integration and middleware: Integrates lab instruments for seamless data flow and real-time monitoring.

These systems are crucial for modern labs, providing tools to manage complex data, automate tasks, and maintain regulatory compliance, ultimately boosting productivity and reliability.

The challenge

Navigating the vast array of informatics solutions can be overwhelming. New systems emerge constantly, making it difficult to select the best fit for your lab's needs. Most organizations struggle to stay updated and make informed decisions.

Our unique approach

Excelra combines deep scientific knowledge, extensive lab experience, and technology expertise across hundreds of platforms, from COTS solutions to custom applications. Unlike traditional consulting firms, our services are tailored to meet the specific demands of the scientific research.

Deliverables provided to you during evaluation and selection include

- "As Is" workflow process maps
- "To Be" workflow process maps
- Gap assessment report
- Initial vendor evaluation matrix
- User Requirements Specification
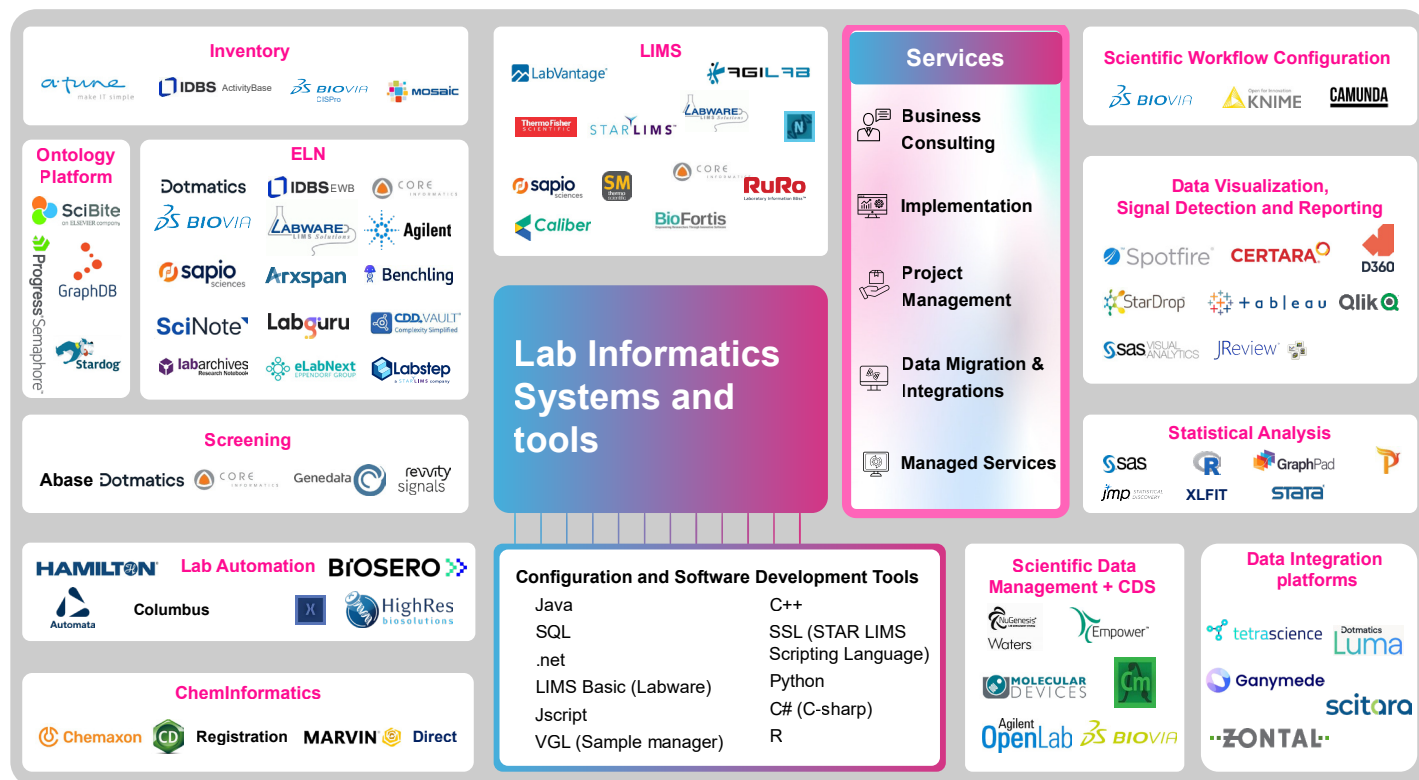- Request For Proposal – RFP
- Evaluation and Selection Plan
- Market assessment and industry trend report
- Strengths, Weaknesses, Opportunities and Threat assessment
- Final Vendor Selection Recommendation

Excelra offers technical expertise and experience across hundreds of different laboratory informatics platforms, technologies and tools. Some of these are listed below:

Lab Informatics Systems and tools

Inventory
a·tune · IDBS ActivityBase · BIOVIA CISPro · mosaic

Ontology Platform
SciBite on ELSEVIER company · Progress Semaphore · GraphDB · Stardog

ELN
Dotmatics · IDBS EWB · CORE INFORMATICS · BIOVIA · LABWARE LIMS Solutions · Agilent · Sapio sciences · Arxspan · Benchling · SciNote · Labguru · CDD.VAULT Complexity Simplified · labarchives Research Notebook · eLabNext EPPENDORF GROUP · Labstep · STARLIMS company

Screening
Abase Dotmatics · CORE INFORMATICS · Genedata · revvity signals

Lab Automation
HAMILTON · BIOSERO · Automata · Columbus · HighRes biosolutions

ChemInformatics
Chemaxon · CD Registration · MARVIN · Direct

LIMS
LabVantage · AGILAB · Thermo Fisher SCIENTIFIC · STARLIMS · LABWARE LIMS Solution · N · sapio sciences · SM · CORE INFORMATICS · RuRo Laboratory Information Mgt · Caliber · BioFortis

Services
- Business Consulting
- Implementation
- Project Management
- Data Migration & Integrations
- Managed Services

Configuration and Software Development Tools
Java	C++
SQL	SSL (STAR LIMS Scripting Language)
.net	
LIMS Basic (Labware)	Python
Jscript	C# (C-sharp)
VGL (Sample manager)	R

Scientific Workflow Configuration
BIOVIA · KNIME Open for Innovation · CAMUNDA

Data Visualization, Signal Detection and Reporting
Spotfire · CERTARA · D360 · StarDrop · tableau · Qlik · SAS VISUAL ANALYTICS · JReview

Statistical Analysis
SAS · R · GraphPad · jmp Statistical Discovery · XLFIT · stata

Scientific Data Management + CDS
NuGenesis Waters · Empower · MOLECULAR DEVICES · Cm · Agilent OpenLab · BIOVIA

Data Integration platforms
tetrascience · Dotmatics Luma · Ganymede · scitara · ZONTAL
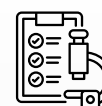
Why choose excelra?

Experienced professionals
Our lab informatics experts have years of experience in managing implementation and consulting projects of varying sizes and complexities

Customized solutions
You have unique needs, so we develop unique solutions. We're platform agnostic and we won't dictate an approach – we'll work with you to find solution that meet your exact requirements

Scientific knowledge
We're scientists like you, so we understand your data and know how to get the most from it. We also know how valuable your time is, so we'll take care of the things that slow you down while you focus on research

Proven success

With over 20 years of experience in laboratory automation and informatics consulting, Excelra has demonstrated success in selecting the best informatics solutions for hundreds of clients across diverse industries.

Put our expertise to work for you

Let Excelra's expert team guide you in finding the right solution for your laboratory. Leverage our extensive domain knowledge and industry best practices to modernize and upgrade your lab environment efficiently and effectively.

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SCHIPHOL • UTRECHT • BASEL • BIELEFELD • HYDERABAD

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