

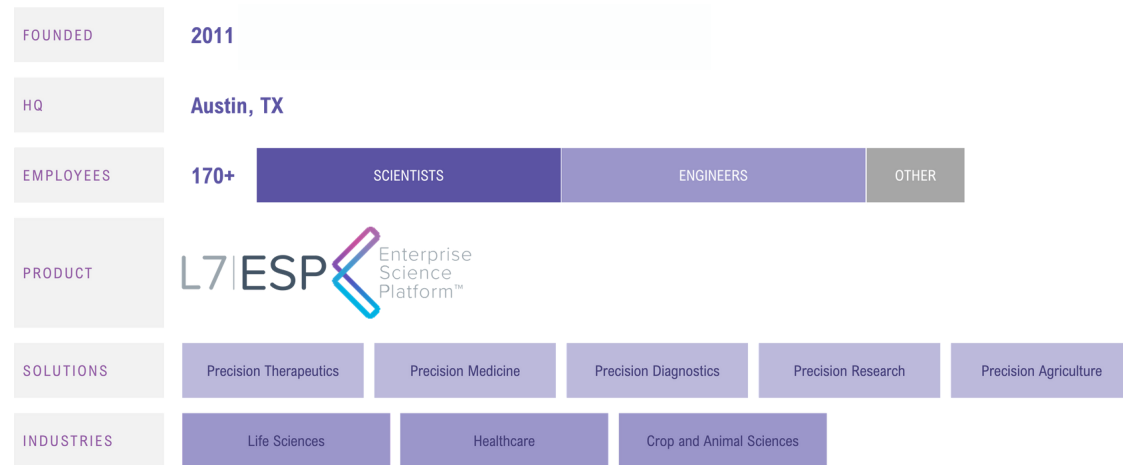
EBOOK

L7 | PRECISION AGRICULTURE

improve overall velocity and efficiency by
digitalizing sample-to-report

About L7

L7 Informatics, Inc. is a leading provider of integrated scientific data and analytics solutions. The company offers a comprehensive platform that enables seamless data integration, advanced analytics, and collaborative workflows, empowering scientists and researchers to accelerate discoveries, improve operational efficiencies, and drive innovation. L7's mission is to revolutionize how scientific data is managed, analyzed, and utilized, facilitating breakthroughs in research, drug discovery, development, and manufacturing.



Gartner 'Cool Vendor' 2020

In 2020, L7 was one of only five companies recognized in the Gartner Cool Vendors in Life Sciences report that technology leaders should watch to help accelerate life science business results.

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Deloitte Technology 'FAST 500' 2021

With a 3-year growth of 8,288%, L7 Informatics is ranked #26 and #1 Life Sciences Software.



Deloitte Technology 'FAST 500' 2022

Honored that L7 Informatics made the list again with another impressive 3-year growth of 1,543%.



Deloitte Technology 'FAST 500' 2023

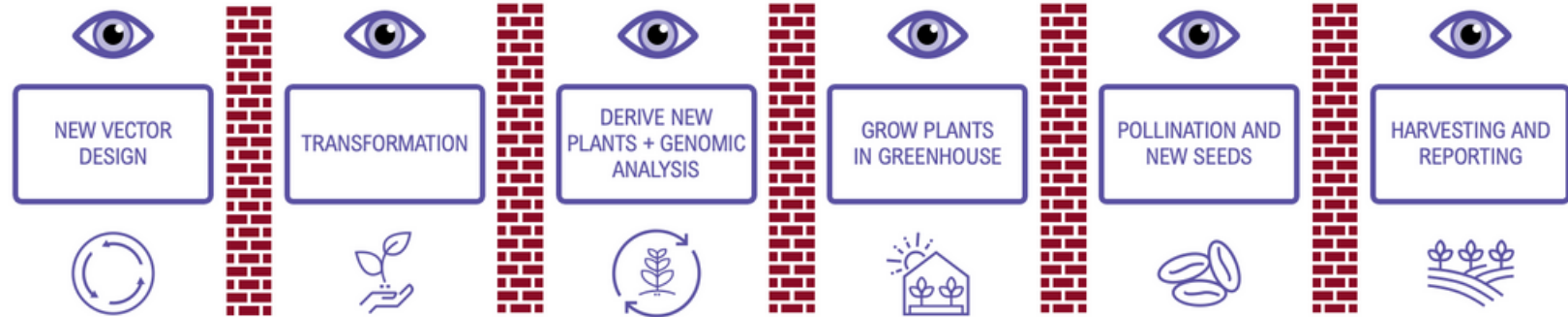
For a third consecutive year, we made the list again, and celebrate a significant 3-year revenue growth of 2047%.

The Problem

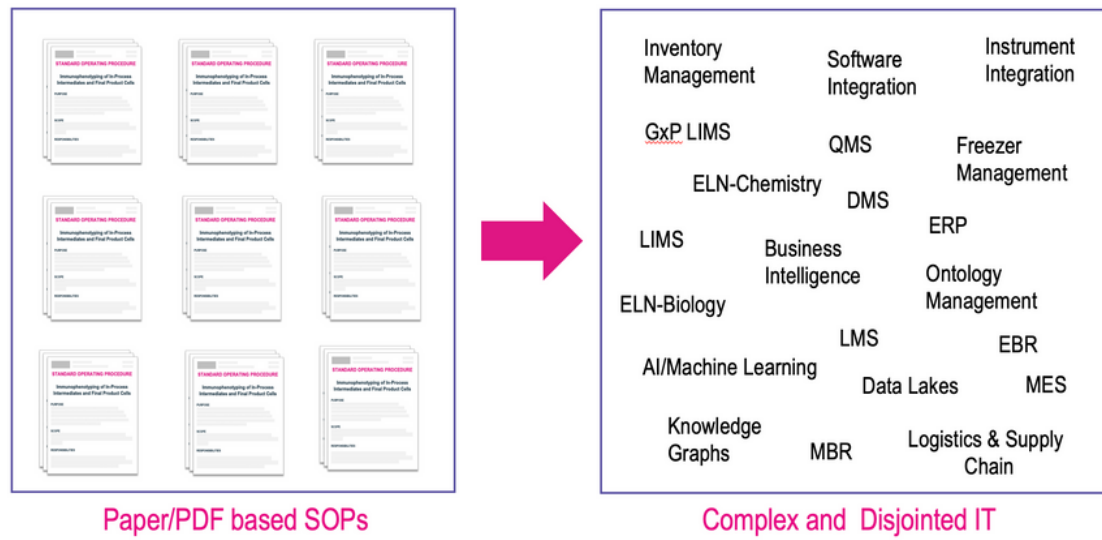
Legacy data and process silos reduces velocity, efficiency, and science and increases business risk & cost

THROUGHPUT ↓ QUALITY ↓ TIME & COST ↑ DATA INTEGRITY ↓ TIME TO MARKET ↑

TODAY: SILOS of APPS+DATA → NO VISIBILITY, NO CONTEXT



Paper-based “Standard Operating Procedures” implemented across siloed IT systems

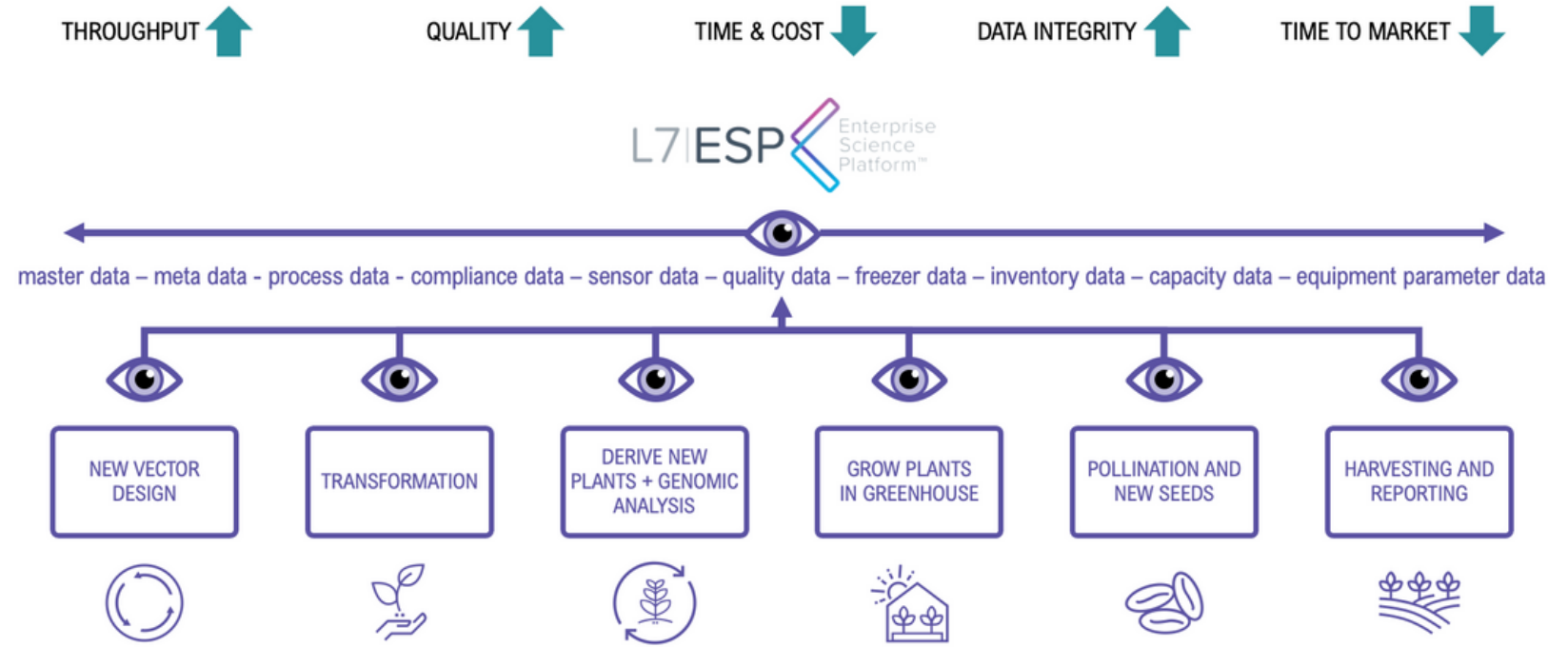


Paper/PDF based SOPs

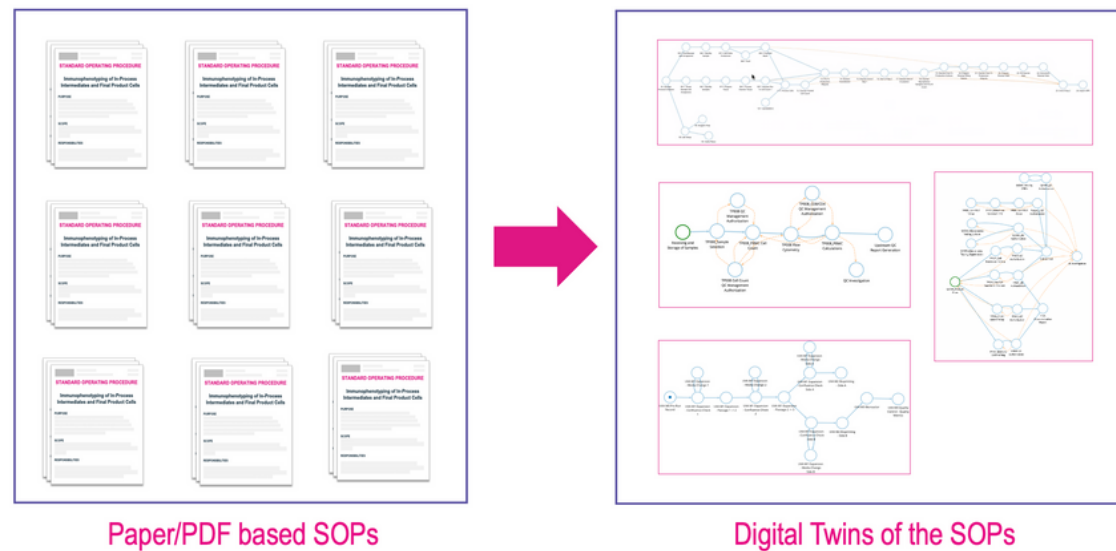
Complex and Disjointed IT

The Solution

Data and Process Automation increases business velocity & quality and reduces business risk & costs



L7|ESP creates digitalized twins of the paper/PDF SOPs



L7|ESP - A Unified Platform Built on Industry 4.0 Principles

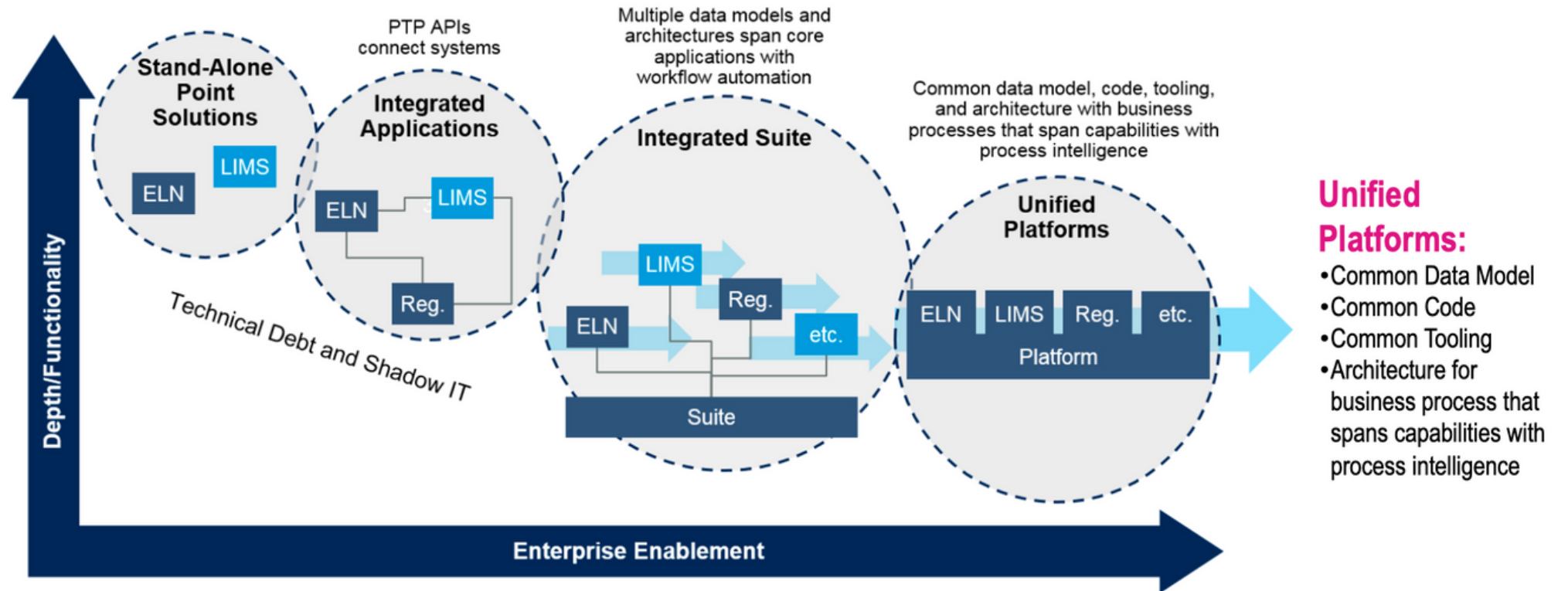
Industry 4.0 Principles



L7|ESP - A Unified Platform for Life Sciences



"Life Science Lab Informatics Digital Criteria"
Published 20 December 2018
- Source: © Gartner, Inc 2018



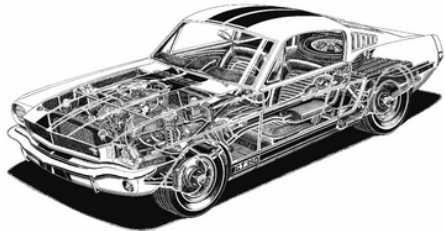
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Composable Platforms Built of 'Primitives'

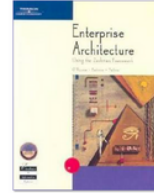
COMPOSITE MODELS vs PRIMITIVE MODELS

Composite models are fixed functionality and difficult to modify



Reference: Enterprise Architecture - using the Zachman Framework, ©Riisanka, Fishman, L7Hub

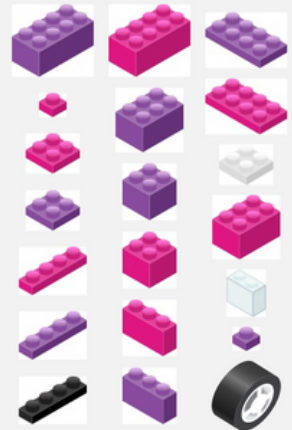
Primitive models provide quick assembly, modification, and reusability



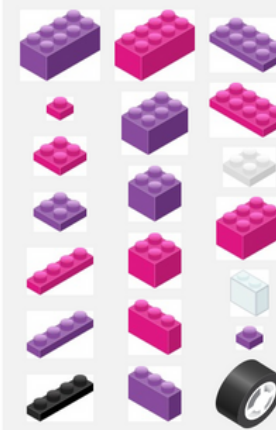
Enterprise Architecture using the Zachman Framework

PRIMITIVE MODELS PROVIDE QUICK ASSEMBLY, MODIFICATION, CUSTOMIZATION, AND REUSABILITY

L7HUB "STORE"

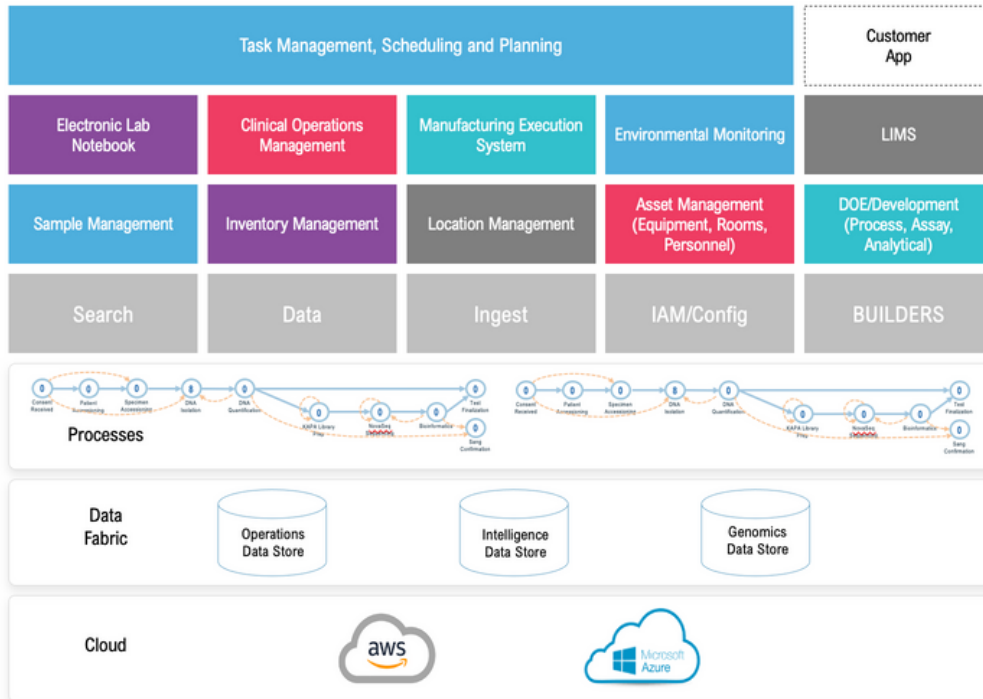


L7HUB "STORE"



Unified Platforms

Meet all of your data and process needs with a single solution, L7's unified platform, L7|ESP, equipping your business with a comprehensive operating environment and software stack that adapts to your unique requirements while preserving data provenance and integrity.



Business Apps

- Clinical Operations
- Electronic Batch Records
- Electronic Lab Notebook
- Environmental Monitoring
- Inventory
- LIMS
- Locations
- Manufacturing Scheduling
- Stability Testing
- See roadmap

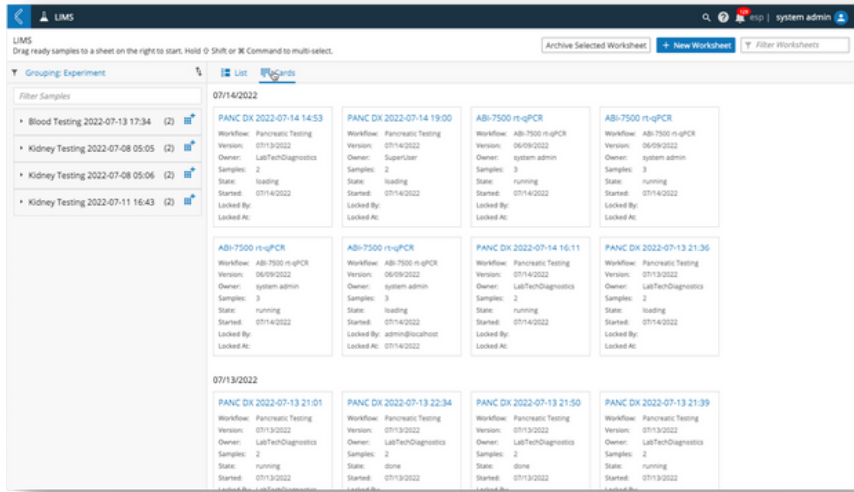
Standard Apps

- Assets
- Dashboards
- Reports
- Data
- Entities
- Ingest
- Projects
- Samples
- Search

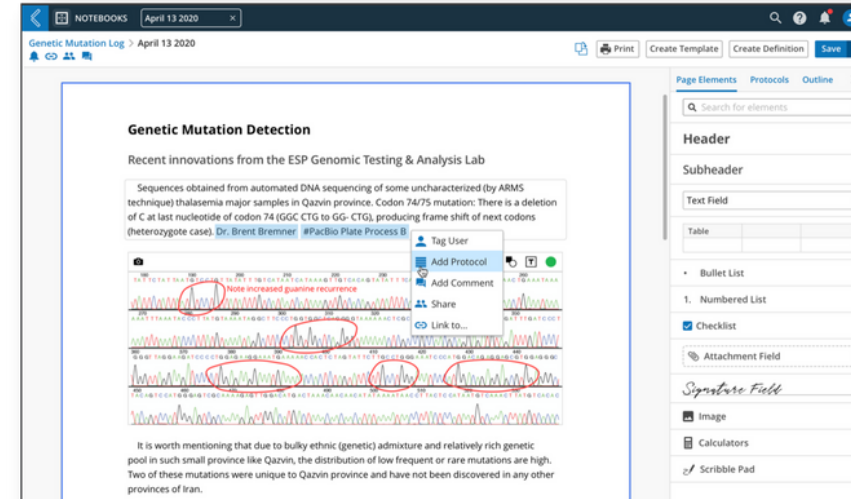
Configuration Apps

- Applets
- Master (Builders)
- IAM

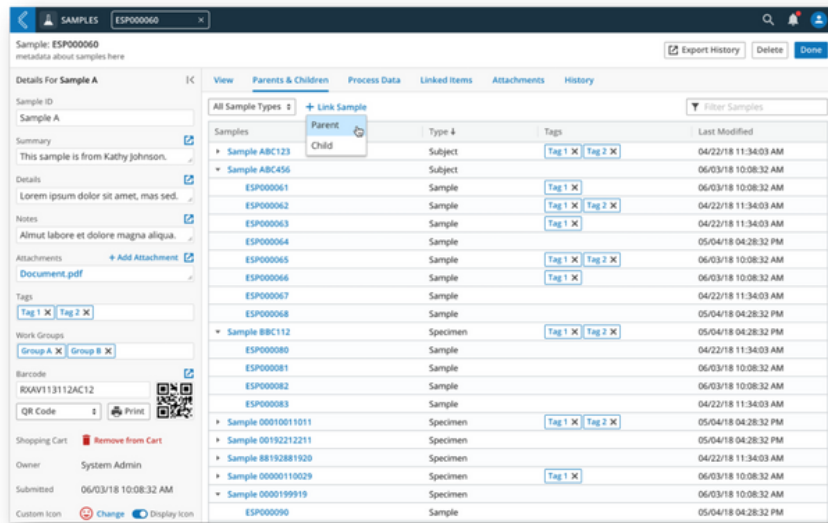
L7 Business Apps - Every Application Needed for the Scientific Enterprise



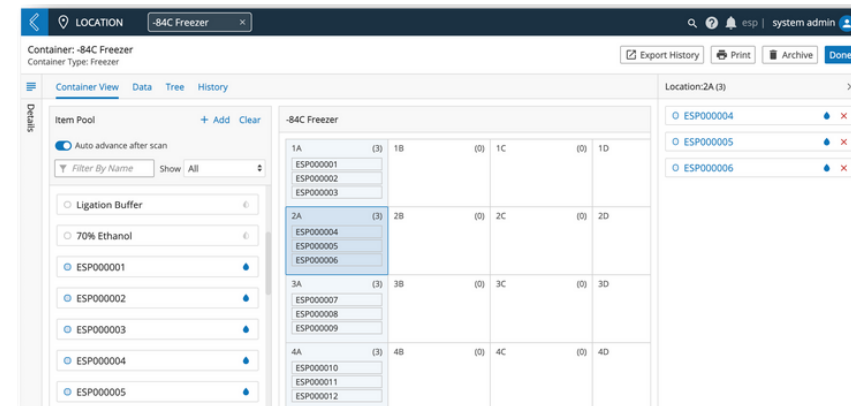
INTEGRATED LIMS + LES (GMP/GLP/GCP compliant)



Electronic Lab Notebook



Samples



Location

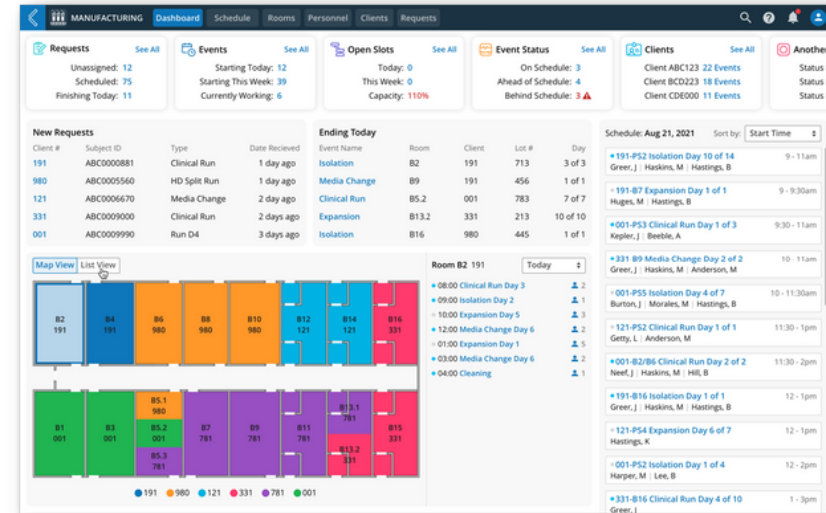
L7 Business Apps (continued)

Inventory Items 9
Track and manage inventory items

Advanced Filters Clear

Group	Name	sum(Current Qty)	sum(Units)	Lot Number	Status	Expiration Date
EtOH (1)		100				
	70% Ethanol	100	L	58926	Pending Verification	06/30/2023
Extraction Buffer (5)		66				
	HEPES-NAOH	20	L	365897	Verified	10/13/2022
	Ligation Buffer	25	L	8631945	Verified	12/30/2022
	NP-40	10	L	2409571	Pending Verification	06/30/2022
	RIPA	3	L	45319-110	Pending Verification	07/09/2022
	Tris-HCl	8	L	8365-0	Quarantined	09/22/2022
Gloves (3)		15				
	Nitrile - Large	5	box	A53456	Verified	
	Nitrile - Medium	5	box	A53778	Verified	
	Nitrile - Small	5	box	A53792	Verified	

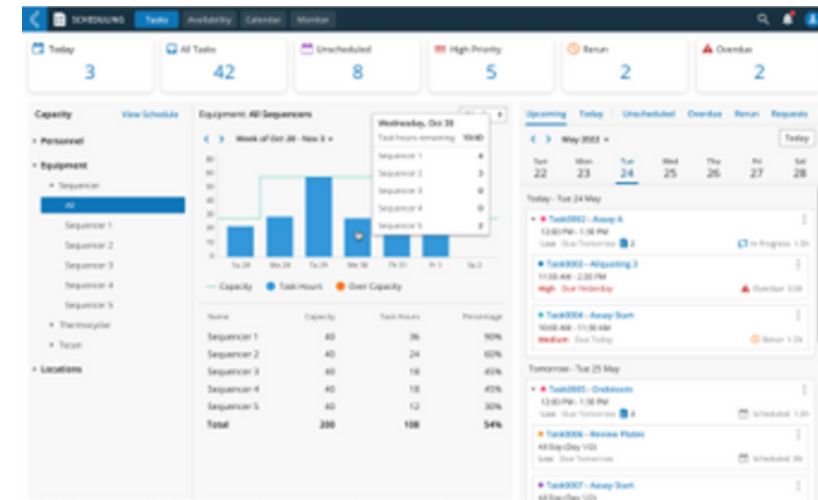
Inventory



Scheduling



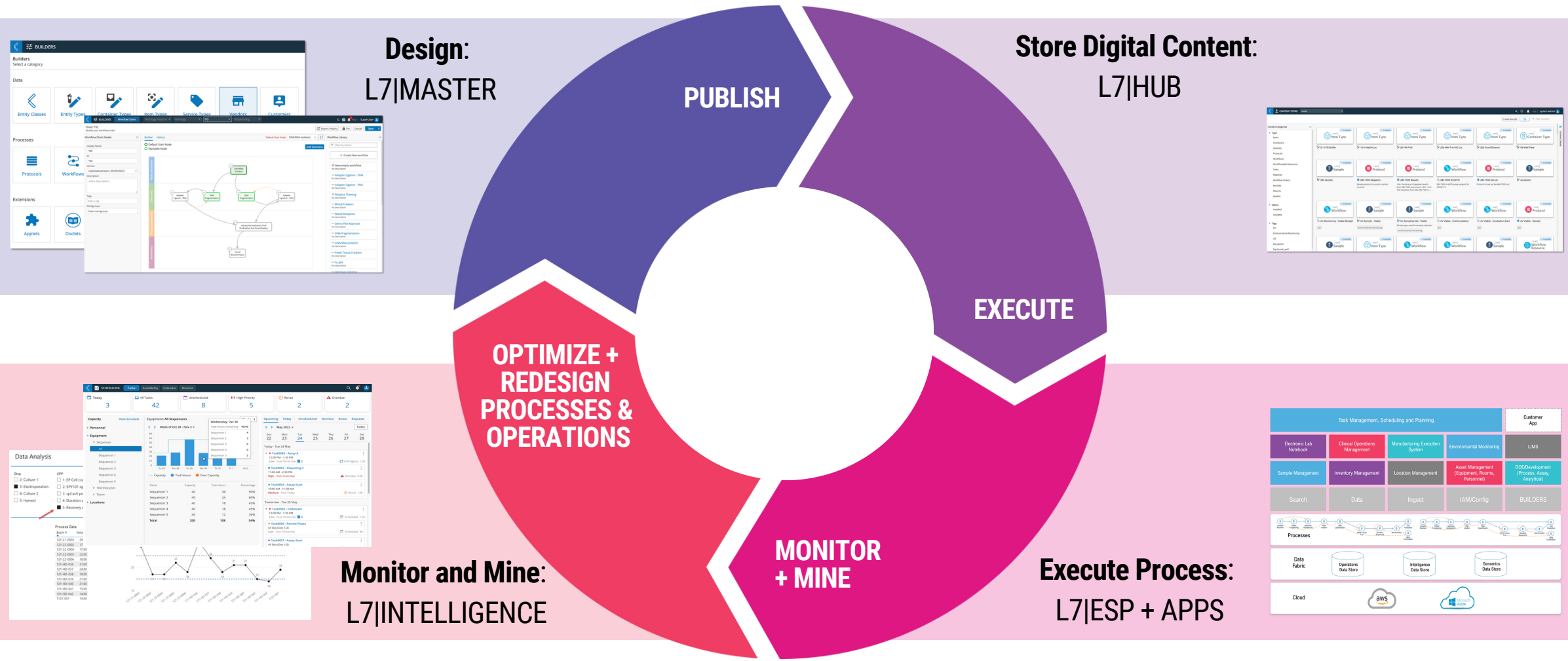
Scheduling (Monitoring)



Scheduling (Task Management)

Digitalization Lifecycle

Design > Publish > Execute > Monitor + Mine > Optimize



L7 Informatics Customers



Agriculture and
Agri-Food Canada



BENSON HILL



CIBUS



GeneDx



nobell



CASE STUDIES

A landscape photograph of a field with cows and a tree, overlaid with a blue gradient and the text 'CASE STUDIES'. The scene shows a grassy field with several cows grazing. A single tree stands on a small hill to the left. The sky is filled with soft, wispy clouds. The entire image is covered with a semi-transparent blue gradient, and the text 'CASE STUDIES' is written in white, bold, sans-serif font on the left side.

Protein Production and Testing



Analyzing traits of transgenic soybean plants with the goal of bringing economically viable products to market in the dairy industry

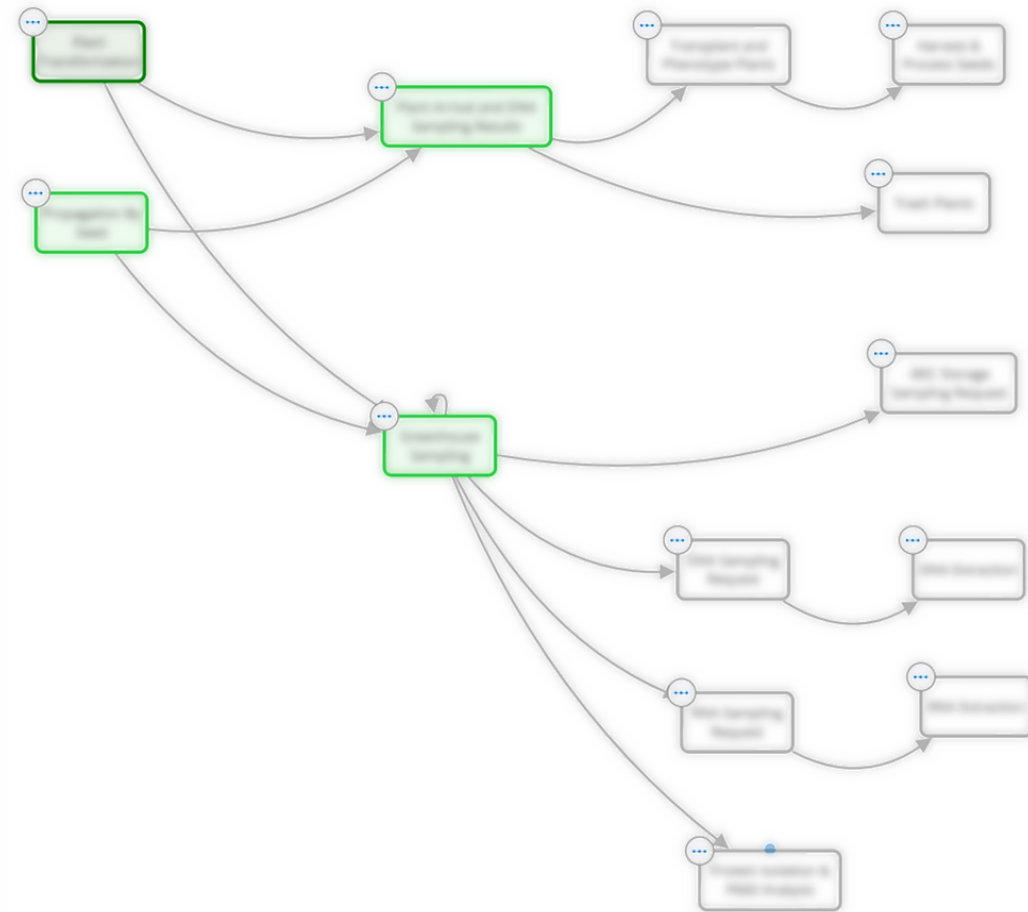
SITUATION

Nobell Foods team members were working without a LIMS system, instead using disparate files scattered across multiple systems to track the status of plants in the greenhouse, as well as the results of genetic and protein analysis experiments. Employees are spread out between a laboratory greenhouse facilities 90+ miles away and needed a one-stop solution to keep on top of all their data.

SOLUTION

L7|ESP leverages data entered by users to track the location and status of plants as they move through production facilities. In the lab, L7|ESP provides calculations to set up molecular and protein analysis experiments. Real time updates on the results are linked back to the source plants so that team members know which material to retain for future work, and what can be discarded.

WORKFLOW





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About L7 Informatics

L7 Informatics, Inc. is a leading provider of integrated scientific data and analytics solutions. The company offers a comprehensive platform that enables seamless data integration, advanced analytics, and collaborative workflows, empowering scientists and researchers to accelerate discoveries, improve operational efficiencies, and drive innovation. L7's mission is to revolutionize how scientific data is managed, analyzed, and utilized, facilitating breakthroughs in research, drug discovery, development, and manufacturing. To learn more, visit www.l7informatics.com.

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