

Webinar Highlights

Signals LabGistics™ - The Missing Coordination Layer for Laboratory Systems



Overview

Scientific organizations today face a critical gap: as work moves across discovery, development, and manufacturing, context, ownership, and decisions get lost between systems. ELNs, LIMS, MES, and analytics platforms each manage their own domain well — but the process connecting them remains invisible, fragile, and expensive to maintain.

Signals LabGistics is a new solution launching Fall 2026, designed as the missing coordination layer that bridges scientific workflows across teams, systems, and life cycle stages — without replacing any existing system. It orchestrates the work between systems, preserving scientific data, process context, and decision logic from discovery through manufacturing.

For existing Signals Notebook and Signals One users, Signals LabGistics extends those capabilities seamlessly, leveraging existing data to execute, monitor, and manage complex scientific processes.

Speakers



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Detailed Highlights

Key Challenges & How Signals LabGistics Responds

Signals LabGistics is designed to bridge this gap by providing the missing coordination layer for scientific workflows. The table below outlines the key challenges it addresses and the core capabilities it offers:

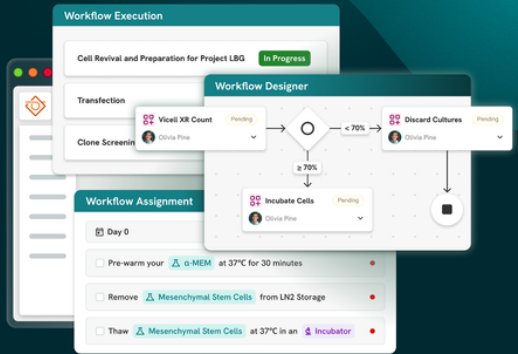
	 Challenge	 Requirement / Feature	 Signals LabGistics Solution
Connectivity, Integration & Enterprise Scalability	Context is lost between systems	End-to-end process context preservation	Maintains ownership, evidence, and decisions throughout the full workflow lifecycle
	Processes are invisible	Cross-domain workflow orchestration	Bridges processes across all life cycle stages, including tech transfer between development and manufacturing
	Isolated data can't drive decisions	Data-driven decision logic	Connects experiment results (e.g., yield, purity, viability) directly to branching workflow logic
	Knowledge is siloed	Hierarchical process organization	Organizes work from task → process → campaign → study → enterprise level
Workflow Flexibility & Automation	Static checklists don't reflect reality	Flexible, nonlinear workflow design	Supports sequential, parallel, looping, and decision-driven execution paths
	Manual coordination is a bottleneck	Automated task generation and assignment	Workflow engine auto-assigns tasks to individuals or teams as the process progresses
Process Intelligence & Memory	No process memory	Process memory and deviation logging	Captures deviations, timing, metadata, and decisions at every step for full traceability
	No process intelligence	AI-powered SOP-to-workflow conversion	AI engine reads SOPs and auto-generates workflow configurations — reducing setup time by up to 80%

Signals LabGistics: The Missing Coordination Layer

LabGistics bridges scientific processes across organizational, operational, and digital boundaries, connecting what happened to what happens next.

Connect. Execute. Contextualize. Learn.

- 1 CONNECT**
Connects scientific work across teams, systems, and processes.
- 2 EXECUTE**
Guides and automates execution throughout the scientific process.
- 3 CONTEXTUALIZE**
Preserves context, ownership, evidence, and decisions throughout the process.
- 4 LEARN**
Provides a scalable foundation for automation, AI, and the future of scientific execution.



LabGistics bridges what happened to what happens next. It connects scientific knowledge capture with coordinated scientific execution.

Unleash that big, beautiful science.

The Four Pillars of Signals LabGistics

1 CONNECT

Signals LabGistics makes the process visible — not just the data. Individual experiments are connected with logic, showing which experiment triggered the next, who owns each step, and which results drove decisions.

Coordinated processes, not isolated experiments drive discovery, development, and manufacturing.

2 EXECUTE

Once designed, workflows become coordinated work. The execution engine:

- Auto-generates and assigns tasks (with a human-in-the-middle) as the process progresses
- Tracks task states: pending, active, completed, bypassed
- Surfaces bottlenecks, deadlines, and priorities in a Kanban-style view
- Supports dynamic reassignment by managers

3 CONTEXTUALIZE

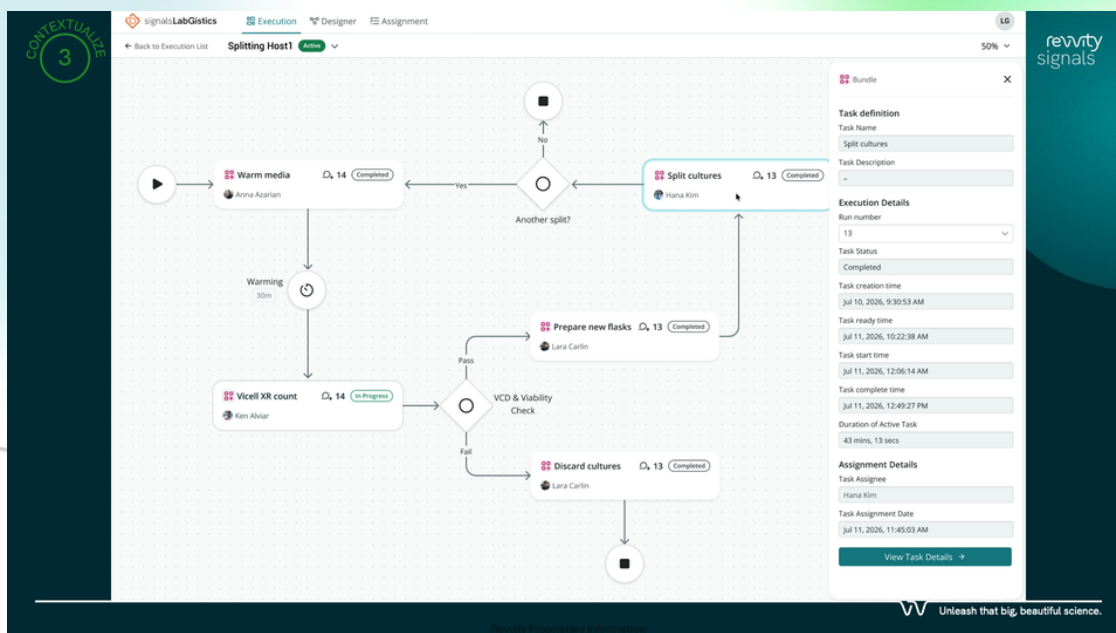
Signals LabGistics acts as process memory — preserving not just scientific data but the why behind every outcome:

- Who performed each operation
- What deviations were logged
- Which materials were used
- How long each step took
- What decisions were made and why

4 LEARN

Execution history becomes a process intelligence blueprint for future runs:

- Proven process templates with historical benchmarks
- Expected cycle times per stage
- Reproducible decision logic
- Risk and mitigation patterns
- Foundation for AI/ML-driven process optimization



Key Learnings

- Signals LabGistics is not a replacement — it is an orchestration layer that works with ELNs, LIMS, MES, and analytics platforms, not instead of them.
- The process is where value lives, in addition to the data. Making processes visible and connected is the core innovation.
- Science is nonlinear — Signals LabGistics is designed to support loops, parallel paths, conditional branching, and human decision points, not just linear checklists.
- Context preservation is a competitive advantage — capturing deviations, decisions, and ownership at every step enables faster investigation, better tech transfer, and smarter AI.
- AI accelerates adoption - the SOP-to-workflow AI engine (using a human-in-the-middle philosophy) dramatically lowers the barrier to configuration, making the system accessible without deep technical expertise.
- Enterprise-scale knowledge becomes possible when all process levels (task → campaign → enterprise) are connected in one system.

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