LIMFINITY BIOBANKING LIMS

Scalable, powerful, and flexible
virtual sample management solution

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Samples are the heart of therapeutic and diagnostic discovery through development. Sample acquisition, however, can be time-consuming and expensive. Thus, knowing sample inventory, data, and location is critical for optimizing sample utilization, efficiency, and compliance. A virtual sample management solution is a crucial partner in the digital ecosystem to capture all relevant sample data including clinical, ethical, and metadata, and enable workflows and decision-making to support effective therapeutic, drug, and diagnostic research and development.

Azenta Life Sciences, a global expert in biobanking, offers Limfinity® Biobanking LIMS – a comprehensive cloud-based laboratory information management system (LIMS) that provides full longitudinal information for samples while seamlessly integrating with the existing digital ecosystem at your organization. Limfinity is a purpose-built, scalable solution that serves as your partner in digitizing discovery. Limfinity provides a full suite of capabilities that help you support ISO 20387 requirements for biobanking.

Enterprise Sample Management

Aggregates data from various sources to unlock sample intelligence and streamline discovery

Data associated with the sample comes from many different sources – some arrive with the sample upon registration, more data comes from collection sites and third-party testing labs, and yet more data is generated throughout the lifecycle of the sample. These disparate sources of data can all be sent to Limfinity and directly linked to the related sample. This linking provides a full picture to further enhance sample utility and accelerate your discovery process.

• Test results

• Patient demographic data

• Patient diagnosis and outcome data

• Quality results

• Consent data*

Inventory and Freezer Management
• Manual freezers
• Automated freezers

Off-Site Storage
• Off-site inventory
• Sample data

External Partners (CRO, EMR)
• Permissions
• Consent data
• Demographic data

Internal Partners (ELN, LIMS)
• Results data
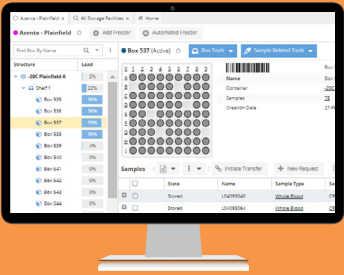• Pre-analytical data
• Analytical data

Data Marts and Others
• Aggregated data

Diagnostics
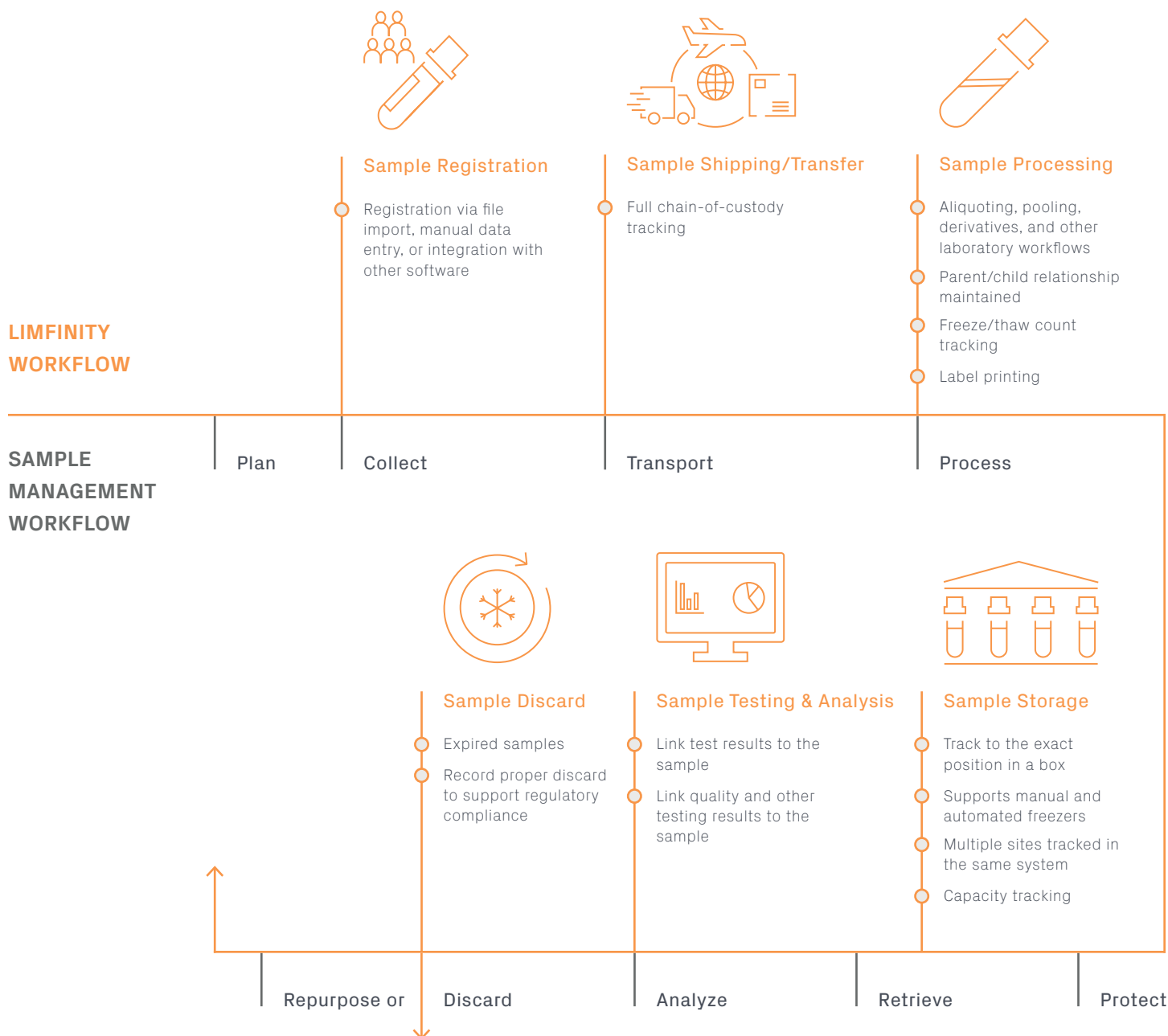• Connectivity
• Workflows

LIMFINITY BIOBANKING LIMS

• Centralized access to all sample data

• Full longitudinal data for samples

• Sample lifecycle management workflows

• Audit trail

• Reports and analytics

Linking consent data directly to samples facilitates compliant use and re-use

Complete Sample Lifecycle Management

From collection to discard, it is critical to track information regarding the sample at every step. Limfinity provides a holistic view of your samples and associated data, regardless of where in the world the sample is stored - on-site, at a regional hub, or by a partner biorepository such as the global network of biorepositories from Azenta. This single source of truth provides a means to manage all aspects of a sample lifecycle and eliminate fragmented data management systems.

Sample Registration

Registration via file import, manual data entry, or integration with other software

Sample Shipping/Transfer

Full chain-of-custody tracking

Sample Processing

Aliquoting, pooling, derivatives, and other laboratory workflows

Parent/child relationship maintained

Freeze/thaw count tracking

Label printing

LIMFINITY WORKFLOW

SAMPLE MANAGEMENT WORKFLOW

Plan

Collect

Transport

Process

Sample Discard

Expired samples

Record proper discard to support regulatory compliance

Sample Testing & Analysis

Link test results to the sample

Link quality and other testing results to the sample

Sample Storage

Track to the exact position in a box

Supports manual and automated freezers

Multiple sites tracked in the same system

Capacity tracking

Repurpose or

Discard

Analyze

Retrieve

Protect

Your Partner in Workflow Management

CONSENT MANAGEMENT

As your virtual sample management partner, Limfinity manages patient consent and other sample-related data including patients' records and demographics. Linking consent to the sample facilitates sample utilization.

LAB WORKFLOW MANAGEMENT

- Configure workflows to optimize lab operations
- Standards-based integration with instruments and software to streamline information exchange across systems
- Complete sample workflow management including tracking of all steps – making sample derivatives, DNA extraction, sequencing, receiving, shipping, and more

DASHBOARDS AND REPORTING

- Configurable dashboards to provide business insights
- Highly customizable reporting capabilities
- Powerful search capabilities

KEY FEATURE:

STORAGE AND FREEZER MANAGEMENT

Know where your samples are before you open the freezer door. Quickly view the remaining capacity in a box, on a shelf, in a freezer, or in your integrated automated storage system. Limfinity Biobanking LIMS includes robust storage and freezer management, allowing users to view and search all samples regardless of physical location.
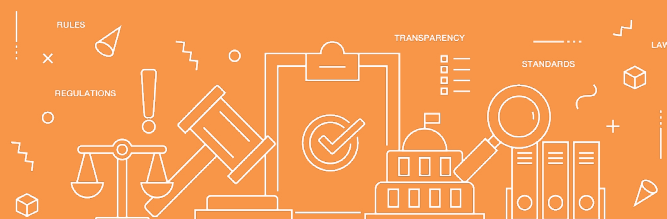
Security and Compliance Support

Biobanking, particularly for human samples, is subject to stringent regulatory oversight and security requirements that can be difficult for individual biobanks to manage. Limfinity supports your biobank's compliance with ISO 20387 general requirements for biobanking via:

- Role-based security

- Privacy controls on sensitive fields – personally identifiable information (PII)/protected health information (PHI)

- Comprehensive audit trail capabilities to support regulatory compliance

- CFR21 Part 11-compliant audit log

- End-to-end lifecycle tracking of the sample with transparency and reporting

- Linking informed consent to the sample to facilitate compliant sample utilization

- Compliance with HIPPA, GMP, GLP, and GDPR

- ISBER and CAP inventory tracking best practices

TACKLE AUDIT PREPARATION WITH EASE

The Limfinity audit log automatically tracks all data entries, data changes, and sample lifecycle activities, including the user performing each action and the date/time stamp. When the time comes to prepare for an audit, the tracked full lifecycle of the samples in your repository can be easily accessed and displayed through the Limfinity audit log.

Modern IT Architecture

- ✓ CLOUD-BASED, DEPLOYED IN AMAZON WEB SERVICES (AWS)

- ✓ BROWSER-BASED AND ACCESSIBLE FROM ANY COMPUTER, TABLET, AND SMARTPHONE

- ✓ HIGH AVAILABILITY/UPTIME

- ✓ FREQUENT BACKUPS

- ✓ ON-PREMISE INSTALL OPTION

Centralized Data - Enterprise-Level Visualization Tools

A key advantage to a virtual sample management system such as Limfinity is a place to connect all the disparate information about a sample – availability, location, protocols, and compliance and consent management. Limfinity helps to connect all the components of data, allowing researchers to locate and use the sample and data needed to further their studies. Limfinity can create dashboards to aggregate information and visualize:

- Capacity management

- Task/workflow management

- Reporting

Efficiency and Automation

Limfinity frees up time for you to focus on your expertise. Optimize your time by automating workflows and staff workload through standardized processes:
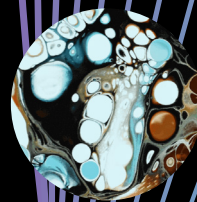
- Integrates with lab instruments and automated freezers like Azenta SampleStore™ and BioStore™ systems

- Integrates with other software systems in use

- Configures workflow steps to guide users through standard operating procedures (SOPs)

- Progress tracking through customized dashboards

- Functions for email templates, automatic inventory monitoring, system alerts, and label printing

At Azenta Life Sciences, we are here to help clear the path for your scientific breakthroughs one sample at a time.

Because every sample is mission critical — we provide unrivaled sample exploration and management solutions.

From advanced automation capabilities to genomics services to novel cryogenic storage solutions, Azenta offers market-leading solutions and services across the lifecycle of a sample.
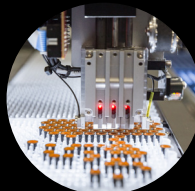
BIOSPECIMEN SOURCING

CONSUMABLES & INSTRUMENTS

GENEWIZ MULTIOMICS & SYNTHESIS SOLUTIONS

STORAGE, AUTOMATION & LOGISTICS

SAMPLE INFORMATICS & LIMS

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