



LTIMindtree's Digital Work Instruction for Lab Digital Solutions for Automated Lab Instruction & Improved Efficiency

Highlights

- ▶ Unified Lab Experience.
- ▶ Digital Lab Instruction.
- ▶ Accelerated Innovation.
- ▶ Centralized Quality Monitoring.
- ▶ Sample Lifecycle Visibility.
- ▶ Automated Sample Scheduling.

Overview

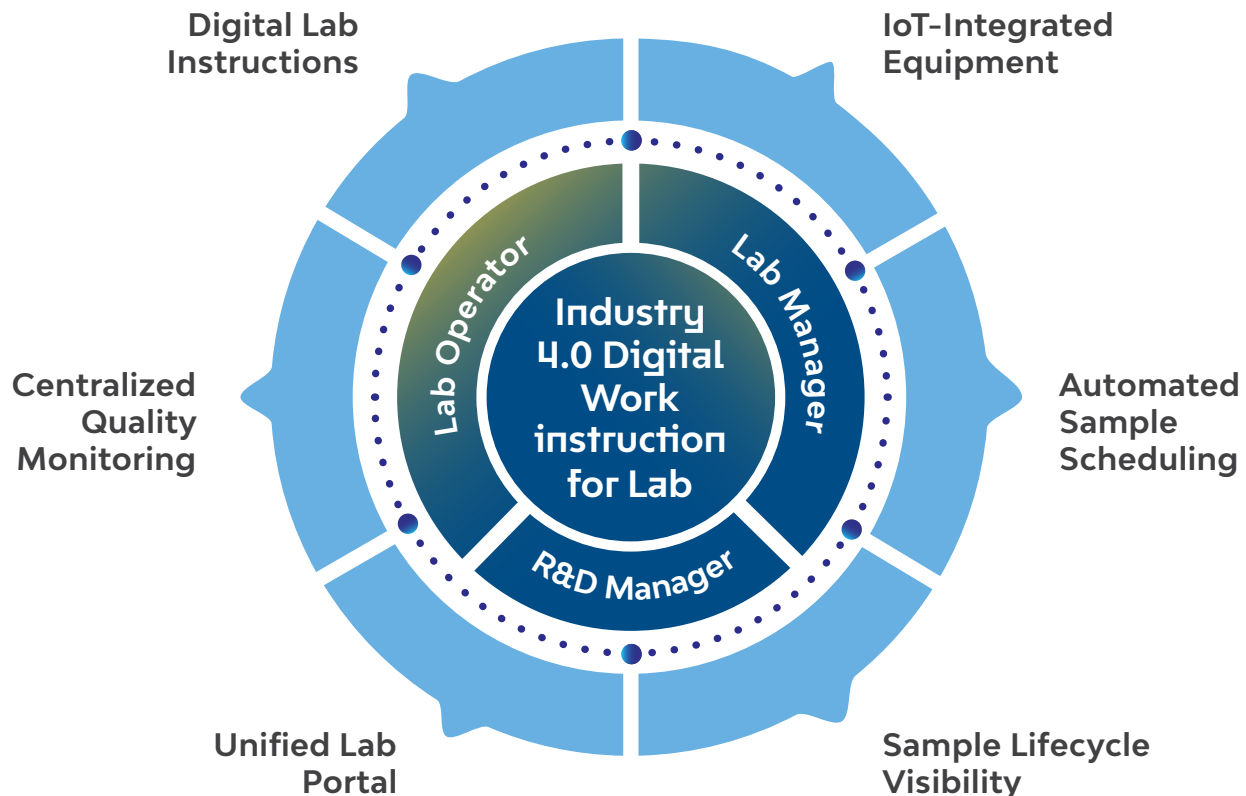
Today's laboratories are besieged by demands for improved efficiency, increased productivity, improved data quality, immediate access to work instructions and data available for analysis. The traditional paper-intensive laboratory management systems cannot address these demands, or efficiently manage the volume of information generated.

LTIMindtree's Digital Work Instructions for Lab is a disruptive innovative solution to realize benefits of today's efficiency and tomorrow's growth. It provides an integrated analytical laboratory which is designed to manage, review, store and analyze sample information more effectively. Our objective is to provide highest quality labs with next-generation features for accelerated innovation.

Approach to Resolution– The LTIMindtree Advantage

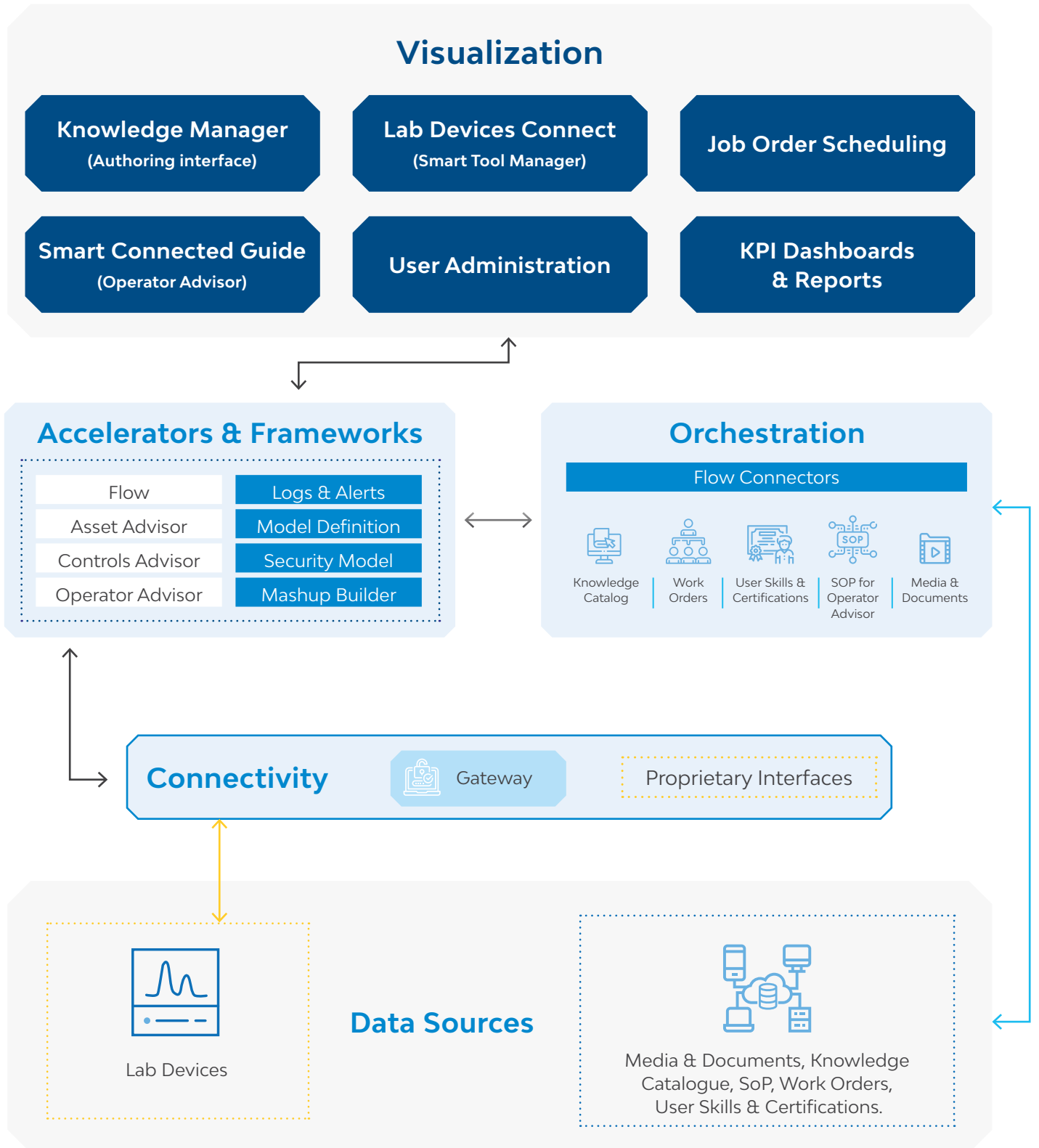
Leveraging the power of IoT and data analytics, our industry experts have developed digital solutions for labs to provide business intelligence for decision makers at any point in their sample life cycle. The step-by-step approach starts with mapping the processes and system to visualize the flow of data. This goes further with the collection of data and metadata, centralized data management and industry 4.0 data analytics to generate insights. The outcome is a unique informative solution that provides right instructions at the right time to the Lab Operator, coupled with an integrated view of laboratory for Lab Manager and meaningful insights for R&D Manager to accelerate innovation.

Solution Features



- ▶ LTIMindtree’s digital work instruction provides a **unified portal** for locating lab services, scheduling, tracking and reporting samples.
- ▶ **Accelerate milestones** with smart tool manager for automated data acquisition and performing analytics for test results using IoT integration.
- ▶ **Connected lab** ecosystem integrated with LIMS, CDS, ELN and other lab execution systems for seamless sample interface.
- ▶ Step-by-step Digital lab instruction for **guided workflow** and adherence to SOP.
- ▶ **Speed up Innovation** with knowledge manager, associating every set of new reports with metadata for analysis ready environment.
- ▶ **Automated sample scheduling** and based on pre-defined business rules considering instrument availability, analyst competence and non-testing activities.
- ▶ Complete **visibility of sample lifecycle** and comparison of each step for Standard vs Actual time to track process efficiency.

Logical Architecture





LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700+ clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by nearly 90,000 talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visit www.ltimindtree.com.

LTIMindtree Limited is a subsidiary of Larsen & Toubro Limited