Our Business Knowledge, Your Winning Edge.

Engineering & Construction
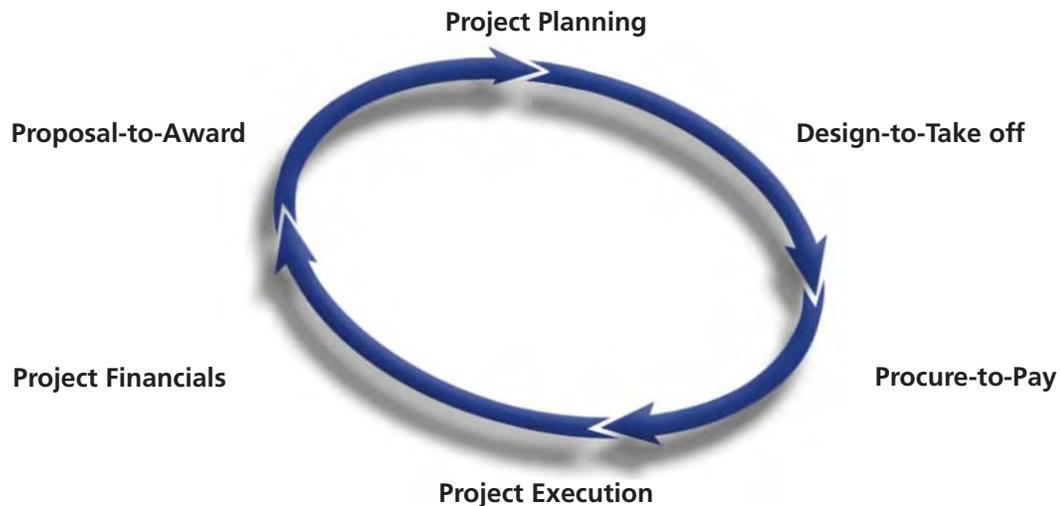
Our Industry Focus

Global Engineering and Construction (E&C) companies are experiencing increased complexity in executing common business processes across projects with consistency. Efforts that could be directed for achieving reliable performance tend to get diverted for resolving day-to-day issues arising out of poor execution models. This has resulted in the inability to meet projected execution schedules and profits. Further, lessons learnt from previous projects are not effectively leveraged due to the lack of a structured information management approach, introducing unnecessary risks to the project.

In order to drive consistent process execution and to align all project managers/executives across the organization, companies need to consider a four-pronged operational strategy:

- Create and use a common business process model across the organization
- Update business process regularly to leverage emerging best practices
- Use technology to guide project managers/executives through standard operating procedures and collaborative platforms
- Ensure effective governance to promote continuous improvement and effective knowledge transfer to each level

L&T Infotech is a 100% subsidiary of Larsen & Toubro which is a leading Indian conglomerate with over 70 years of rich experience in construction and in-depth business process understanding and knowledge of the industry. L&T Infotech leverages this domain and functional knowledge to build robust solutions that address business needs effectively, and provide the winning edge to client organizations.
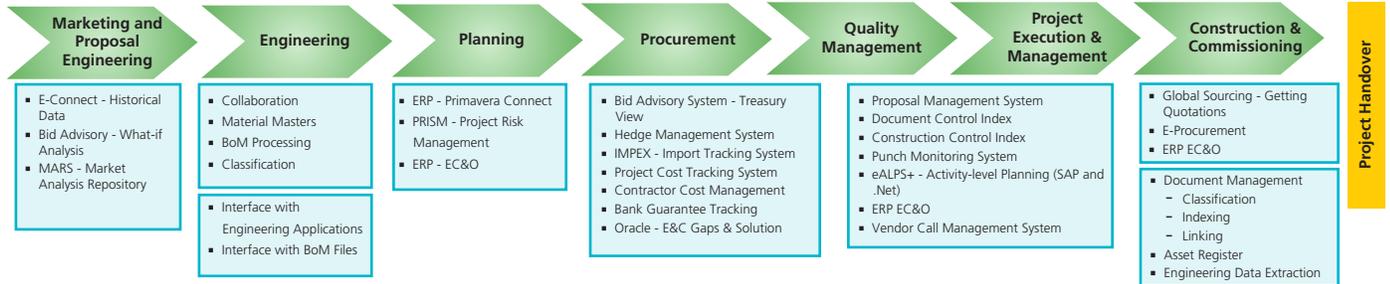
Our unique Business-to-IT Connect enables us to deliver business value through domain-focused solutions. These solutions help get a tighter control on the supply chain, improve integrated project management, improve estimation accuracy and enable easy system access for field force using mobile devices.

Project Planning

Proposal-to-Award

Design-to-Take off

Project Financials

Procure-to-Pay

Project Execution

L&T Infotech has delivered an array of solutions to engineering and construction companies. We develop these solutions by leveraging standard ERP features to align with specific business needs, or, through custom development of components deployed on the standard ERP functionality base to deliver enhanced functionality. The value-add we deliver may be classified as follows:
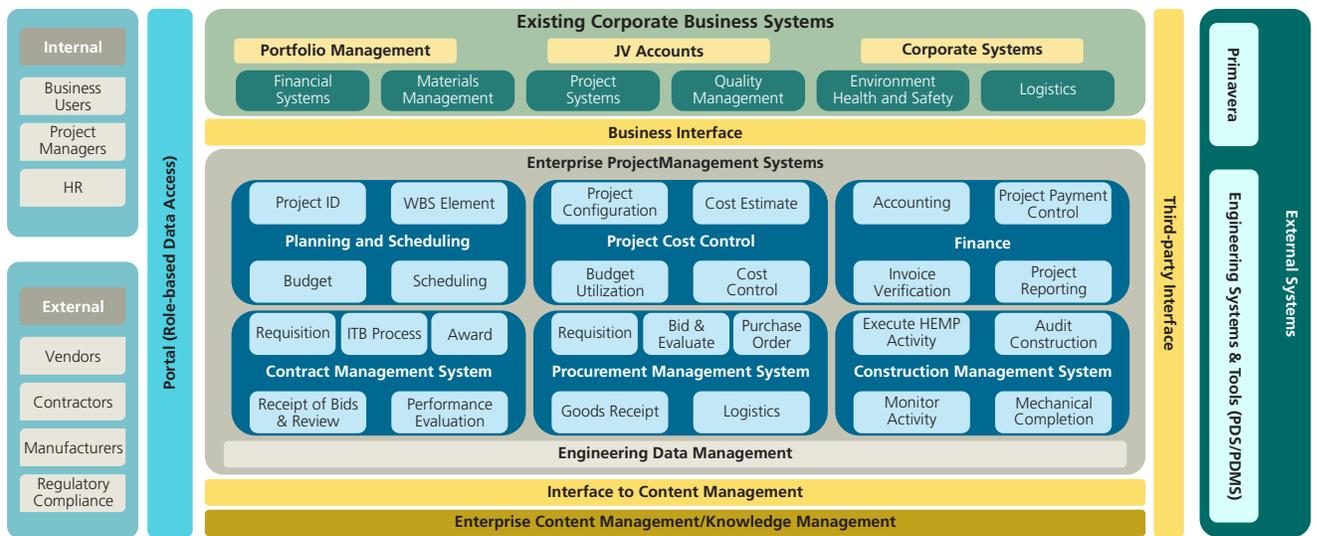
- Integration with specialized business applications
- Solutions for unusual and complex industry-specific issues such as site management
- Procurement and inventory tracking
- Project/contract management
- Integration with handheld devices

Our Solutions for the Engineering & Construction Industry

Marketing and Proposal Engineering	Engineering	Planning	Procurement	Quality Management	Project Execution & Management	Construction & Commissioning	Project Handover

• E-Connect - Historical Data
• Bid Advisory - What-if Analysis
• MARS - Market Analysis Repository
	• Collaboration
	• Material Masters
	• BoM Processing
	• Classification
	
	• Interface with Engineering Applications
	• Interface with BoM Files
		• ERP - Primavera Connect
		• PRISM - Project Risk Management
		• ERP - EC&O
			• Bid Advisory System - Treasury View
			• Hedge Management System
			• IMPEX - Import Tracking System
			• Project Cost Tracking System
			• Contractor Cost Management
			• Bank Guarantee Tracking
			• Oracle - E&C Gaps & Solution
				• Proposal Management System
				• Document Control Index
				• Construction Control Index
				• Punch Monitoring System
				• eALPS+ - Activity-level Planning (SAP and .Net)
				• ERP EC&O
				• Vendor Call Management System
						• Global Sourcing - Getting Quotations
						• E-Procurement
						• ERP EC&O
						
						• Document Management
						  – Classification
						  – Indexing
						  – Linking
						• Asset Register
						• Engineering Data Extraction	

Our standard Enterprise Project Management System (EPMS) framework has been designed to centralize and standardize information collection and management associated with capital project management of both mega and site projects. Contract management, planning and scheduling, procurement management, construction management, project costing and finance are key business areas that the EPMS framework focuses on.

EPMS Framework - Functional Architecture

Internal
- Business Users
- Project Managers
- HR

External
- Vendors
- Contractors
- Manufacturers
- Regulatory Compliance

Portal (Role-based Data Access)

Existing Corporate Business Systems

Portfolio Management | JV Accounts | Corporate Systems

| Financial Systems | Materials Management | Project Systems | Quality Management | Environment Health and Safety | Logistics |

Business Interface

Enterprise Project Management Systems

| Project ID | WBS Element | | Project Configuration | Cost Estimate | | Accounting | Project Payment Control |

Planning and Scheduling | **Project Cost Control** | **Finance**

| Budget | Scheduling | | Budget Utilization | Cost Control | | Invoice Verification | Project Reporting |

| Requisition | ITB Process | Award | Requisition | Bid & Evaluate | Purchase Order | Execute HEMP Activity | Audit Construction |

Contract Management System | **Procurement Management System** | **Construction Management System**

| Receipt of Bids & Review | Performance Evaluation | Goods Receipt | Logistics | Monitor Activity | Mechanical Completion |

Engineering Data Management

Interface to Content Management

Enterprise Content Management/Knowledge Management

Third-party Interface

Primavera | Engineering Systems & Tools (PDS/PDMS) | External Systems

L&T Infotech is differentiated by its unique three-pronged value proposition encompassing Business-to-IT Connect, Engage the Future and Execution Excellence.

Business-to-IT Connect

Our experience encompasses the following:
- Developed an SAP-based all-in-one engineering, construction, and operations (EC&O) solution and implemented it for six E&C companies
- Enabled cost savings of 5% by completely integrating and offering real-time visibility of all procurement processes
- Primavera-SAP integration
- Reduction in efforts duplication and time delay through a central repository and effective tracking of complete change history during the entire project lifecycle
- Project-driven procurement ensuring effective sourcing of materials, services and subcontractors
- Integrated billing for visibility into revenue planning and monitoring

Engage the Future

Changing global business scenario, emerging market demands, increasing use of social media and networking, and the adoption of technological complexity will continue to have profound influence in the E&C industry.

We invest in emerging technologies such as mobility solutions, cloud computing, social media and cloud migration to develop and deliver futuristic solutions for our clients.

Our scalable solutions allow our clients to navigate and adapt to changes in a competitive and effective way.

Execution Excellence

Our effective execution strategies have driven predictable outcomes for our clients enabling them to achieve excellence through all stages of the E&C project lifecycle. Key benefits delivered include:
- 40% reduction in response time during proposal-to-award
- Up to 90% resource utilization achieved in project planning
- Up to 100% reduction in duplicate material codes
- Up to 30% efforts saving in material take-off
- Up to 60% reduction in quotation and purchase order processing
- Effective management reporting, improving efficiency and productivity, and reducing efforts by up to 80%
- Up to 100% reduction in duplicate invoicing with reconciliation of accounts based on real-time data

Our solutions have delivered tangible benefits to E&C companies across the globe.

Client Profile	Business Benefits Delivered
A leading India-based engineering, manufacturing & financial services	• 30% reduction in time required for creating purchase orders
One of India's largest technology, engineering, manufacturing and construction organizations	• 60% reduction in time required for releasing purchase orders • Elimination of master data duplication through attribute-based master data creation, leading to 5% savings on material cost • Significant improvement in response to customer during the bidding and execution process • 17% reduction in bidding time • Improved visibility into site activities through development of 'Site Management Tool' resulting in better control on project profitability
A UK-based engineering, construction, design and maintenance company operating in more than 80 countries across the globe	• Improved user experience through secure single sign-on • Seamless, real-time information interchange • Cost reduction through shared services • Established 'Platform for Growth' (PfG)
A Qatar-based large engineering, construction & contracting company	• Enhanced visibility into critical project issues, thereby avoiding erosion in project profitability • Authorization matrix for multi-company environment • Integrated project planning, monitoring and controlling on a centralized ERP platform
An India-based infrastructure development company	• Centralized storage of documents with effective time, resource, cost and budget management • Ability to track vendor/customer payouts thus facilitating cash-flow monitoring • Accurate tracking leading to elimination of duplication in invoicing

About L&T Infotech

Larsen & Toubro Infotech Ltd. (L&T Infotech), one of the fastest growing global IT services company, is ranked by NASSCOM as the 6th largest software & services exporter from India and among the top 20 IT BPO employers in 2014. It is a wholly-owned subsidiary of Larsen & Toubro (L&T), a multi-billion conglomerate, and India's largest Technology, Engineering, Construction, Manufacturing and Financial Services organization, with global operations.

L&T Infotech provides end-to-end IT solutions and services to Banking & Financial Services; Insurance; Energy & Process; Hi-tech & Consumer Electronics; Utilities, Engineering & Construction; Consumer Packaged Goods, Retail & Pharmaceuticals; Auto & Aerospace; Media & Entertainment; Healthcare; Plant Equipment & Industrial Machinery and Travel & Logistics industries.

Headquartered in Mumbai, India, L&T Infotech delivers IT-enabled business solutions to its clients, leveraging its strong domain expertise and in-depth technology know-how, through its service lines, including Testing; Mobility; Infrastructure Management Services; BI/DW; SAP; Oracle & Microsoft; Enterprise Integration; and Manufacturing Execution Systems.

L&T Infotech is differentiated by its three-pronged value proposition, encompassing Business-to-IT Connect, Execution Excellence and Engage the Future. (www.Lntinfotech.com)

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