Engineering, Construction & Operations (EC&O)

Creating a digital culture delivering operational efficiencies while enhancing user experience & safety
The Engineering and Construction sector is undergoing a revolutionary transformation, exploring new ways to improve the accuracy, efficiency and transparency in their key business areas while improving overall performance and user experience.

To address the needs of global infrastructure developers, service providers & operators, Wipro has a dedicated industry vertical Engineering, Construction & Operations (EC&O), focused on the domains of:

- Engineering & Construction
- Real estate
- Facilities & operations

Our deep industry knowledge integrated with our digital services provide clients the ability to lead the industry with technologies, solutions and practices and to ‘Be Digital’ and ‘Build Digital’.

### End to end IT and business transformation with our digital and domain capabilities

Our EC&O aligned offerings integrate the three key enablers of ‘new ways of working’ - Wipro's technology ecosystem, strategic partnerships and industry domain expertise.

### Innovation led business transformation

**What** - Create innovative digital solution extensions & accelerators, preconfigured industry assets and rapid deployment solutions

**How** - Leverage our strategic partnerships and expertise in cloud-based enterprise platforms coupled with in-depth knowledge of the domain for rapid modernization of leading business systems across real estate, construction, property management and facilities management

**Benefits** - Help realize quick return on investments with rapid system implementation and roll out

### Case in point

For a large engineering and construction multinational company, we delivered significant productivity improvement by reducing time spent on indirect work and 12% reduction in waiting and manual reporting. This was achieved by implementing user design led field force mobility and digital site solution.

### BIM led integrated project and operations

**What** - Deliver an integrated project management and control platform for transparency, standardization and collaboration across multiple stakeholders in the value chain

**How** - Integrating key modules across estimation, bidding, procurement, supply chain, finance, schedule management, cost management & asset management overlaid with BIM to enable 5D BIM (time and cost integration into 3D models) and 6D BIM (asset management integration into 3D models)

**Benefits** - Ensure better control through end-to-end project visibility, monitoring and tracking for on-time and on-budget project execution & operations

---

Fig1: Our suite of services for business transformation
Case in point
For a UK based new age modular construction company, we created end-to-end BIM strategy and delivered digital engineering services (BIM++) to redefine their ‘design to deliver’ business process reducing the design efforts up to 40% and gaining productivity by 30% during the design stage.

Hyper-Connected Intelligent Ecosystem

What – Ideate, incubate and deliver digital interventions for experience led, high velocity disruptive outcomes at scale

How – Enable AI-driven operations, analytics-based asset & workforce management, IoT enabled operations and maintenance, drones-based physical inspection, AR/VR enabled collaboration and mobility led field force productivity coupled with building information modeling enabled facilities that enable visual-eye for operations

Benefits – Bring agility in operations through user centric experience and deliver overall business productivity gains

Case in point
A large North American Airport partnered with Wipro to re-examine their decision making strategy with a focus to develop untapped insights from the large amount of data captured by fragmented systems. With an end-to-end data transformation initiative, the Wipro team re-architected the entire technology landscape including data extraction, data warehouse, data processing and data representation aligned with business KPIs, not just from the existing systems but even from edge devices like IoT sensors and videos that catapulted the airport to No.1 in ASQ rankings.

Consulting and business process re-engineering

What – Identify and develop future technology and process roadmaps aligned to the strategic objectives of the client

How – Design, re-engineer and implement front office (bidding, project initiation, project planning, execution and closure) and back office (finance, HR, payroll, procurement, supply chain and contracting) processes

Benefit – Drive transformations across the technology and process space combining our industry domain capabilities with deep business process knowledge

Case in point
For a leading global engineering and construction company, we re-engineered complete business processes to standardize and integrate fragmented project execution functions, across geographies ensuring not just statutory compliance but also delivering an operational efficiency of 20% enabling better visibility, scalability and integration across business.
**Business process outsourcing**

**What** – Modernize business by creating a foundation platform to enable future growth and adoption of digital technologies with next gen delivery models

**How** – Leverage Wipro’s core competencies in industry business processes to drive significant cost optimization, operational effectiveness and superior user experiences

**Benefit** – Deliver operations cost savings to fund transformations and innovations

---

**Case in point**

For a UK-based construction and facility management services company, we delivered 30% reduction in overall TCO through the integrated delivery of IT and BPO services across their finance and human resource value chain through multiple intervention of digital platforms like Wipro Holmes and other IPs.

---

**Automation led IT outsourcing**

**What** – Provide integrated delivery across applications, infrastructure, security, Cloud and end user computing

**How** – Leverage our platforms and hyper automation tools like Holmes™ and BASE™ to drive high levels of integration, automation, agility, standardization and predictability in IT operations

**Benefit** – Enable increased availability and superior performance of IT processes

---

**Partnering for new revenue streams**

**What** – Create market differentiation through an integrated suite of offerings

**How** – Assist EC&O companies in taking bigger turnkey projects by including IT, telecom, smart applications and IT systems integration in new building and plant infrastructure contracts

**Benefit** – Enable clients increase their wallet share in large infrastructure projects

---

**Case in point**

A global Urban Infrastructure company partnered with Wipro to design and execute end to end technology roadmap to deliver the state of the art Smart City spread over 900 Sq KM
Our EC&O industry capabilities bring together our investments in domain-aligned practices, solutions and accelerators and partner ecosystem. This strengthens our ability to integrate and deploy solutions at velocity for tomorrow’s EC&O enterprise.

### Industry practices
- Project Management & Controls
- Building information modelling & management (BIM)
- Operations & asset management
- Engineering design & information
- Health & safety
- Integrated property management

### Industry assets
- BIM enabled integrated project management (Oracle)
- BIM enabled integrated asset management (Maximo)
- Intelligent Real Estate Enterprise (SAP)
- Project Insights (Oracle)
- Connected worker with wearable technology (Realwear)
- Mobile based field force automation
- AI enabled Anomaly detection and Smart Contracts (Wipro Holmes)
- Connected Ecosystem IOT Platform (Wipro Smart iConnect - Microsoft Enabled)
- Occupier centric intelligent facility management (Tririga)
- Drone based visual inspection platform

### Strategic partners
- Autodesk
- Oracle Primavera
- Workday
- Microsoft
- Hexagon
- IBM Maximo
- Intergraph
- AWS
- SAP
- Google Cloud
Wipro Limited
Doddakannelli, Sarjapur Road,
Bangalore-560 035, India
Tel: +91 (80) 2844 0011
Fax: +91 (80) 2844 0256
wipro.com

Wipro Limited (NYSE: WIT, BSE: 507685, NSE: WIPRO) is a leading global information technology, consulting and business process services company. We harness the power of cognitive computing, hyper-automation, robotics, cloud, analytics and emerging technologies to help our clients adapt to the digital world and make them successful. A company recognized globally for its comprehensive portfolio of services, strong commitment to sustainability and good corporate citizenship, we have over 180,000 dedicated employees serving clients across six continents. Together, we discover ideas and connect the dots to build a better and a bold new future.

For more information, please write to us at info@wipro.com