Case Study

2 % Margin Improvement through Digital Maturity Transformation for Leading Middle East-based Refinery

The client is a leading Middle East-based joint venture refinery processing ~450K barrels/day of crude oil.
To achieve the North Star goals of zero safety incidents, zero unplanned downtime and maximising refining margins.

To achieve and maintain a top quartile performance among industry peers.

To set a benchmark in refining excellence globally by establishing next-gen processes, leveraging latest digital trends and Industry 4.0 technologies.

Digital maturity assessment along the seven dimensions of
- Business architecture.
- Process architecture.
- Applications architecture.
- Integration architecture.
- Master data governance / data quality.
- User adoption.
- Business value realization architecture.

Understand the seven dimensions to build a technology foundation of cloud, big data analytics, mobility, AI/ML, AR/VR and IoT.

Focus on value levers and business KPIs across functions such as planning and scheduling, refinery operations, process engineering (technical services), maintenance & reliability and HSE.
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.

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**Outcomes Delivered**

1. Digital maturity assessment and gap analysis.
2. Recommendations roadmap for digital maturity improvement including investment in best-in-class applications for important functional areas.
3. Implementation plan, budget & projected ROI.

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**Business Benefits**

- **10 cents / barrel increase** in gross refining margins due to process engineering and production optimization initiatives.
- **0.5% increase** in plant reliability due to improvements in equipment maintenance practices.
- **USD 2 million+** reduction in annual maintenance costs.

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