15% improvement in operational efficiency with a Paperless Production and Inventory Management Solution
Client

The clients are the chemical and lubricant manufacturing divisions of a US-based O&G major, with chemical and lube plants across continents.

Business Challenges

- Inadequate and time-consuming physical warehouse inventory process leading to poor inventory visibility
- No real-time visibility into production processes due to lack of synchronization between executing manufacturing orders, recording consumption and production, and updating inventory
- Lack of integration between warehouse and production including QM
- Need for synchronization between release orders in SAP, actual deliveries, and inventory changes
Solution Highlights

- Completely integrated near real-time manufacturing solution by bringing together SAP MII, SAP PM, SAP EWM, SAP QM, shop floor DCS (Yokogawa and Rockwell), PCN,
- real-time equipment monitoring, OEE, sales planning, mobility, analytics, and KPI dashboards
- SAP MII used as a data hub to collect data from DCS and integrate it with ERP for delivering real-time insights into
- day-to-day operational performance and efficiency
- Mobile solution with enhanced user experience and
- Fiori-based, device-agnostic UI enhancement for all applications

Outcomes Delivered

- Completely integrated near real-time manufacturing solution with real-time, role-based dashboards with data visualization and clearly defined metrics and KPIs
- Seamless and paperless production, inventory management, and distribution for lubricants and chemicals
- Scalable architecture to accommodate future digital initiatives for plants across regions
## Business Benefits

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Description</th>
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<tbody>
<tr>
<td>10%</td>
<td>Reduction in inventory with zero production shortages</td>
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<tr>
<td>20%</td>
<td>Reduction in delays and demurrages</td>
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<tr>
<td>15%</td>
<td>Improvement in warehouse operations efficiency due to automated and efficient real-time counting, and batch and material tracking</td>
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**About LTI Mindtree**

LTI Mindtree 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, LTI Mindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 82,000+ talented and entrepreneurial professionals across more than 30 countries, LTI Mindtree — 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 [https://www.ltimindtree.com/](https://www.ltimindtree.com/)