Operator Driven Reliability Improves Plant Productivity by Reducing Unplanned Downtime for a US-based Refiner
**Client**

The client is a leading US-based refiner that operates 12+ refineries, with a net crude oil capacity of 2.0+ million barrels per day.

**Business Challenges**

- Low plant productivity due to unscheduled downtime of non-instrumented equipment
- Paper-based data capture during operator rounds, causing extra time to feed the collected data into the system
- Lack of equipment history, operations and maintenance procedures, equipment diagrams, and operating history during operator rounds, making it difficult for operators to make on-spot decisions
- No evidence/confirmation of operator round completion except the paper forms

**Solution Highlights**

- Identification, establishment and rationalization of ODR routes to cover all critical equipment within a plant
- Modernization of field operations by moving documented work from paper to mobile devices based on best-in-class ODR applications
- Integration of data on equipment operations & maintenance history, procedures, IOW & Alarm limits and equipment diagrams
- Utilization of field equipment tags to unlock, open relevant equipment details data gathering forms and round completion to establish evidence of actual field-based rounds
- Capabilities to handle operations rounds, lab sample collection & tagging, field inspections, maintenance workorder execution & HSE observations

**Business Benefits**

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<tr>
<th>5–10%</th>
<th>30%</th>
<th>50%</th>
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<td>of increased workforce productivity</td>
<td>increase in operator efficiency and field operations awareness</td>
<td>reduction in unplanned breakdowns related to non-instrumented equipment</td>
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