ASSET UTILIZATION & OPTIMIZATION

enabled by SAP HANA and Business Objects

Production equipment is put just to 52% productive utilization on average by global manufacturers. This coupled with the fact that 48% time is lost in maintenance, upgrades, shutdown and replacement activities leads to high maintenance expense, lower overall asset productivity and reduced Return on Assets (ROA).

Why Maintenance Optimization is Important?

- Maintenance Cost is the largest single controllable expenditure across asset lifecycle
- Well maintained assets are seen to have 30% longer life
- Improves equipment reliability, productivity and reduces associated risks

Infosys Asset Utilization & Optimization application offers business users:

- End-to-end view of asset lifecycle (Operations & Maintenance, TCO, MRO inventory, Sustainability & Compliance)
- Quicker Time-to-value due to pre-built framework based on standard KPI's and prediction models
- Data integration from disparate systems including M2M data
- Leverage in-memory capability of SAP HANA to process high data volumes in real-time

Business Objectives	Business Challenges	Technology Challenges
• Maximize Overall Asset Productivity • Minimize Total Cost of Ownership	• Increasing number of geographically spread assets • Ageing equipment and unplanned downtime • Need for equipment-specific maintenance strategy • Ever increasing material and labor costs • Tighter regulatory requirements	• Data Volumes • Data Integration • End-to-End Visibility • Information Latency • Time-to-Decision

Key Application Focus Areas

Monitor and Improve Asset Performance
- Overall Equipment Effectiveness (OEE)
- Six big losses
- Asset performance analysis (Availability, Quality, Output performance)

Adopt Right Maintenance Strategy
- Maintenance strategy adoption by process
- Mean Time To Repair (MTTR)
- Mean Time Before Failure (MTBF)

Reduce TCO and Improve ROA
- Maintenance cost vs. Replacement Asset Value (RAV)
- MRO Inventory turnover
- Stock out %, Inactive inventory

Target industry areas

- Aerospace and defense
- Automotive
- High tech
- Industrial machinery and components
- Mining

Use of HANA capabilities

- Storage and provisioning of extreme high data volumes
- On the fly analysis and calculation
- Real-time analysis and reporting
- Provision for HANA's in-built predictive analytics library and integration with SAP Predictive Analysis and R

For more information, contact askus@infosys.com

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