



SG
AUTOMATIKA



Enterprise Gateway

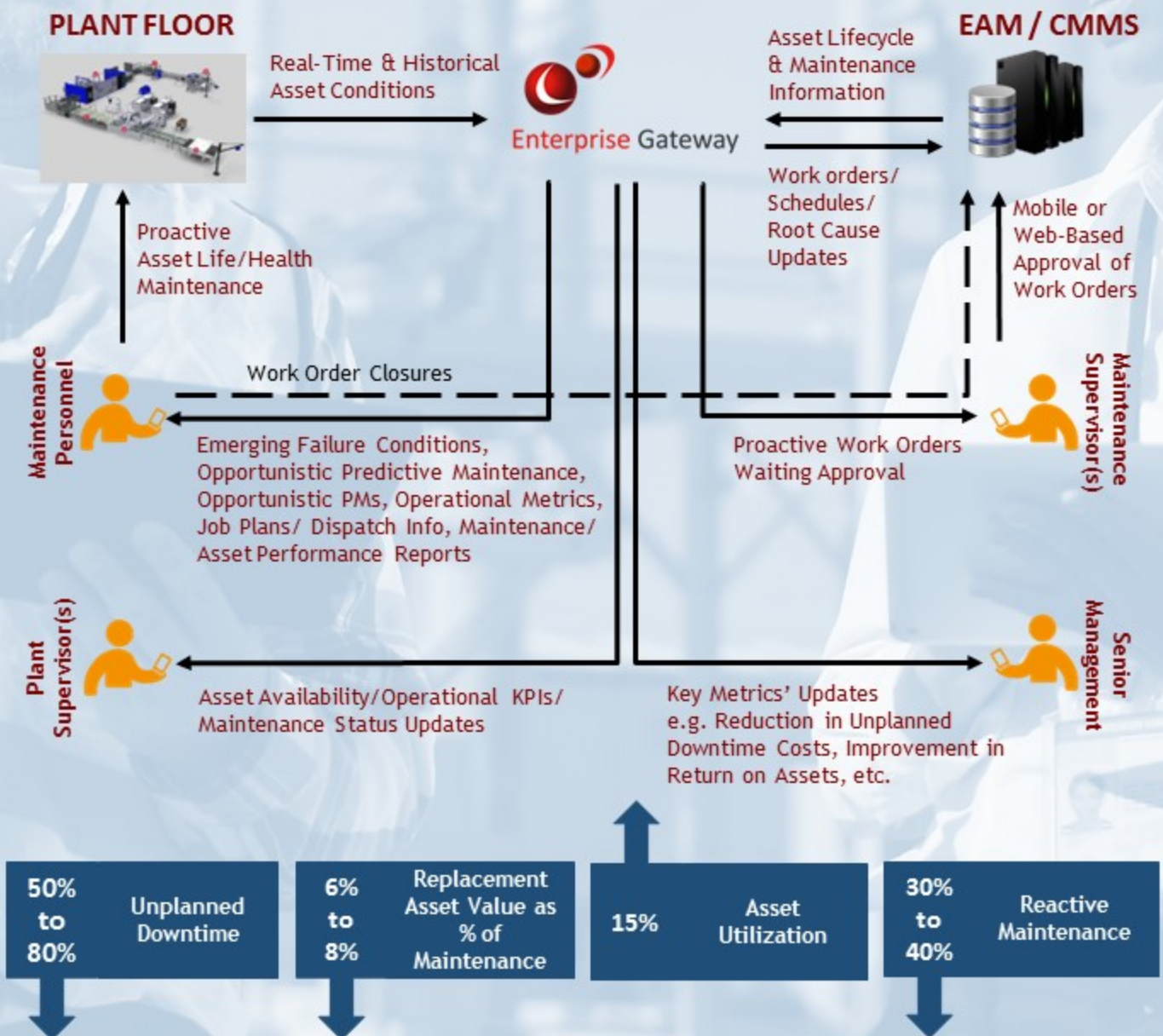
**Digitalized Intelligent
Asset Performance Management**

SYNCHRONIZE PRODUCTION & MAINTENANCE

Drive Improvement in Production Performance by Mobility-Based Proactive Maintenance

Enterprise Gateway is a digitalized intelligent Asset Performance Management platform that vertically integrates plant and enterprise systems in real-time to optimize asset performance.

EG Sync is a smart app that uses the *Enterprise Gateway* platform for automatically driving predictive & prescriptive maintenance actions in response to dynamic plant floor events!



MAXIMIZE ASSET PERFORMANCE

Understand the “Pulse of a Machine” using Real-Time Machine Learning & Deductive Logic

PLANT FLOOR



Historical & Current Operational, Weather & Machine Data

Deductive Logic Rule Library + Machine Intelligence



Pulse of the Machine

Preventive

PUMP:
Usage has crossed 'X' Hours.

Predictive

BOILER:
Steam flow ROC drop > 1.5x last 30 minute average value.

Prescriptive

MOTOR:
Check insulation & unbalance if vibration > 2x synchronous frequency.

Prognostic

COMPRESSOR:
Failure Probability 'P%' in next 15 days.

Real-Time Proactive Intervention Triggered in EG Sync

ENTERPRISE



Work orders

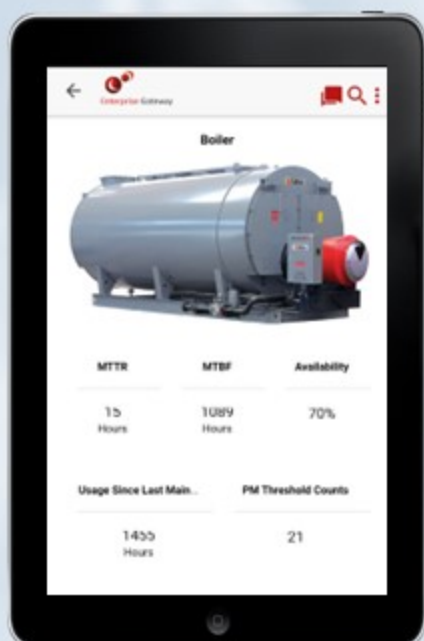
Job Plans/
Schedule



Maintenance Personnel

ACHIEVE PLANT RELIABILITY EXCELLENCE

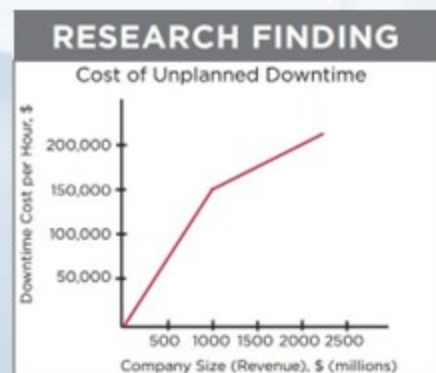
Maximize Asset Reliability using Predictive Intelligence



Identify anomalies in critical equipment condition to generate early warnings to avoid failures!

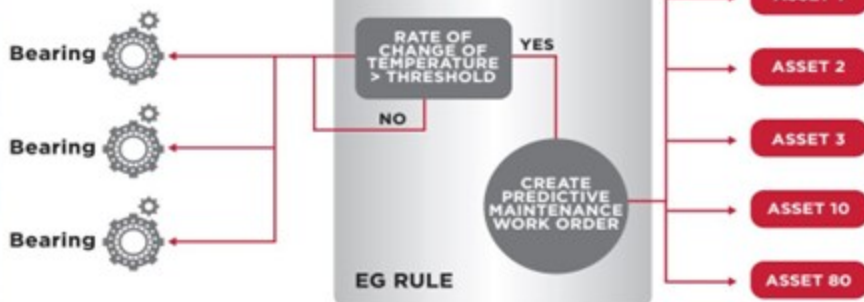


Achieve significant reductions in unplanned downtimes



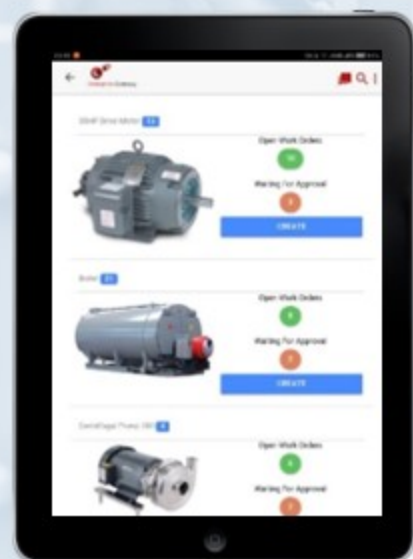
PREDICTIVE MAINTENANCE TO AVOID DOWNTIME COSTS

PLANT SYSTEM



**\$60k Customer Savings,
No Downtime!**

A sudden increase in bearing temperature triggered a Predictive Maintenance work order which allowed for early detection of a coolant leak!



THE POWER OF EG SYNC:

1. Increase Mean Time Between Failures by reducing failure rates via predictive maintenance.
2. Decrease Mean Time to Repair by facilitating real-time collaboration between maintenance personnel and domain experts.
3. Increase the proportion of proactive maintenance (to 70% or above) and consequently decrease costly reactive maintenance to less than 30% of the overall maintenance interventions.

GLOBAL INDUSTRIAL EXPERIENCE

Over 750,000 Hours, 14 Countries, Leading Brands!



Personal
Care

Power

Food &
Beverage

Logistics &
Transport

Mining

Aerospace &
Automotive

Water/
Wastewater

Pulp &
Paper

Agriculture
& Farming

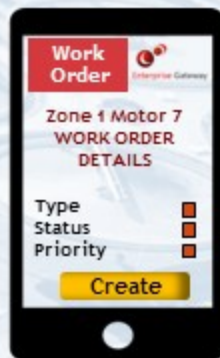
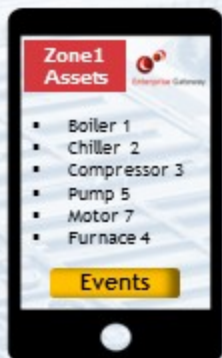
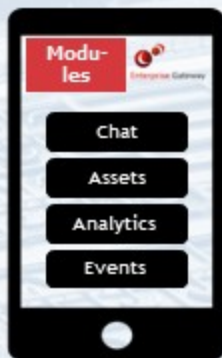
Oil & Gas



COMMON USE CASE EXAMPLES



1. CREATE WORK ORDERS IN EAM / CMMS 'ON-THE-FLY'



View Assets in Proximity

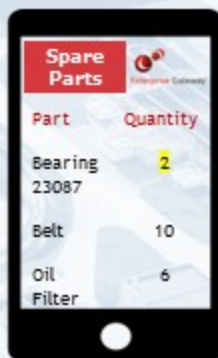
Select Maintenance Event

Create Work Order in EAM/CMMS

2. SMART SPARE PARTS RECONCILIATION



Compressor Bearing Deterioration Crosses Stage 1



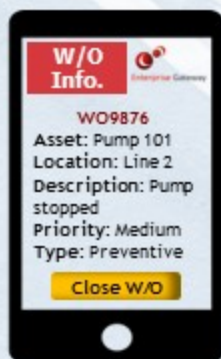
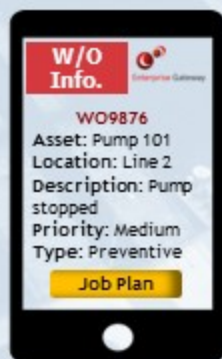
Get Notified of Asset Degradation

Review Spare Part Inventory

Immediately Contact Purchasing

Initiate Reorder of Critical Part

3. SMART MAINTENANCE JOB PLAN COLLABORATION



Dispatch Alert

View Job Plan from EAM / CMMS

Complete Job Plan Checklist

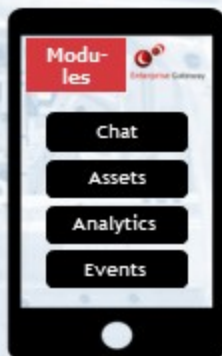
Update Work Order Status

Notify Team

COMMON USE CASE EXAMPLES



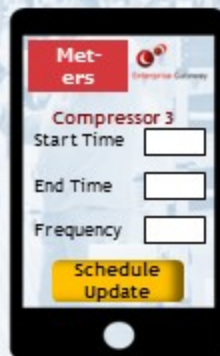
4. INSTANTLY SCHEDULE ASSET METER UPDATES



Select Asset for
Meter Update

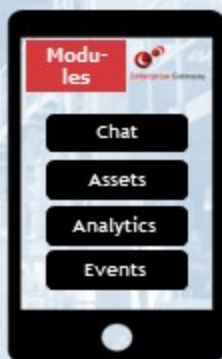


View Asset
Performance



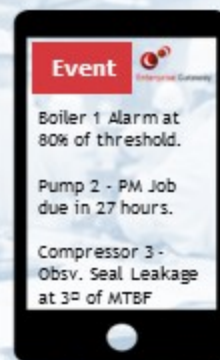
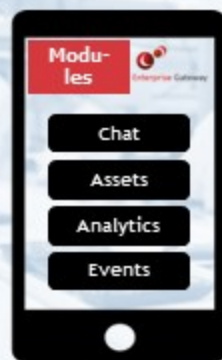
Schedule Meter
Updates

5. INSTANTLY VIEW ASSET MAINTENANCE RECORDS

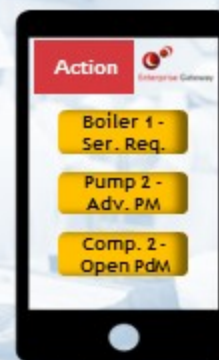


View Asset
Maintenance
Records

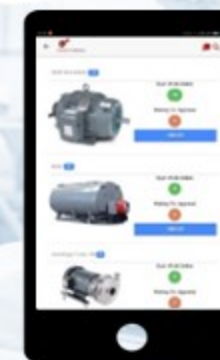
6. MODIFY MAINTENANCE ACTIONS BASED ON EVOLVING FAILURE CONDITIONS



View 'Evolving'
Failure
Conditions



Update Work
Order Actions in
EAM/CMMS



View Updated
Asset Performance

PHYSICAL/CLOUD SERVER:

- Current Generation Server with Quad Cores;
- 8 GB RAM, 50 GB HDD Minimum;
- Cloud: Azure, AWS.

OPERATING SYSTEM:

- Windows Server 2012/2016 (Core);
- MSMQ;
- IIS Server 6.0 or Higher;
- .Net Framework 4.5 or Higher.

DATABASE TECHNOLOGY:

- Microsoft SQL Server® 2008;
- Microsoft SQL Server® 2012.

DATA ADAPTERS:

- Historian: FactoryTalk®, Proficy;
- OPC®;
- SCADA;
- IBM® Maximo®;
- SAP®;
- Oracle® EAM;
- Microsoft SQL Server®.

CANADA:

203 Colonnade Road, Suite 202,
Ottawa, ON K2E 7K3.
+1-613-368-4809

MEXICO:

Ibsen 116, Polanco,
11550 México, D.F.
+52-555-280-4986

INDIA:

Suite 311, 3rd Floor, Workafella - High Street,
Mount Road, Chennai, TN 600 018.
+91-44-2435-1778

U.S.A.:

98 Cuttermill Road, Suite 466,
Great Neck, NY 11021.
+1-613-368-4809

