



Steel Mill Availability

Improved to 93%

{ Saving Millions By Preventing Unplanned Outages }

Challenges:

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Functional Systems Requiring Definition and Analysis



A major producer of large diameter pipes and railroad wheels needed to decrease unplanned outages while overcoming low-level maturity in reliability management

- Only low quality work history data available to feed into SAP PM:
 - Cost assigned on different levels of asset hierarchy
 - Manual input information about downtime events by operational staff
 - Incorrect work order classifications
- Yearly increasing of stock due to the low quantity of work planning
- SAP PM was used for cost tracking only
- PM planning and budgeting based on previous year's cost history and personal expertise of individuals
- Impact of availability on budget not clear for finance department and top management

Solution:

Context & Priorities

- Create clear vision of reason for each action in PM plan and transparent maintenance budget
- Target mechanical availability is defined by production planning department and it must be feasible by reliability group



End-to-End: Connect Assets, People, and Systems



By combining SAP PM work history and downtime tracking data with APM, production bottlenecks were reduced and bad actors identified and remedied quickly, enabling the company to hit its availability target.

- Define What is Critical
- Develop Initial Strategy
- Define How to Make Monitoring Data Collection Intelligent



New Intelligent Strategies

Informed Decisions



Results:

After implementing APM:

During the implementation of Asset Performance Management (APM) from GE Digital, the target for mechanical asset availability for a large diameter pipe pilot plant was set at 91.25%, and was achieved because production bottlenecks were identified by combining SAP PM work history and downtime tracking.

Custom dashboards were developed to simplify the process of identifying bad actors. As a result, the availability target was raised to 93%.

By using GE Digital's APM and creating a corporate competency center, downtime was decreased and system reliability was increased by more than 12 hours each month, saving millions.

The Benefits of APM:



GE Digital's APM is the only solution that can combine real-time data with human experience, operating parameters, analytics, and connectivity to create intelligent asset strategies that continuously improve over time.