Avantis.PRO 6.1 Enterprise Asset Management (EAM)

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Asset Performance Management
Solutions for maximum return on industrial assets

- STRATEGIZE
  - APM Assessment
  - Risk-based Maintenance
  - APM Consulting

- ANALYZE
  - Business Intelligence
  - Predictive/Prescriptive
  - Optimization

- MAINTAIN
  - Operator Rounds
  - Industrial Workflow
  - Enterprise Asset Management
World Class EAM is the Foundation of an APM Strategy

Closing the Business Loop to Optimize the Availability of All Assets

- **Asset Information**
  - Costs and statistics
  - Work history

- **Materials Management**
  - MRO Inventory optimization
  - Supply chain efficiency

- **Industrial Workflow**
  - Collaboration of people, processes and data
  - Customer defined business flows

- **Preventive Maintenance**
  - Time and condition based
  - Forecasting

- **Planning & Scheduling**
  - Operator rounds
  - Work order execution
  - Inspections

- **Mobile Work Execution**
  - GIS Location
  - Work order execution
  - Inspections
Integration with the Plant

- What are my maintenance costs? Labor, Contractors, Materials?
- What is our MTBF and MTTR? Are we improving?
- Should we repair or replace?
- Have we maximized the reliability of our asset base?
- Are we meeting regulatory compliance requirements?
- How can we mitigate workplace workforce safety risks?
- Do we have the right labor skills available to get the work done safely, effectively?
- What is our critical equipment availability, reliability?
- How can we positively impact equipment performance, quality, throughput?
- Is our maintenance program aligned with our operational goals?
- How can we reduce our maintenance costs while improving performance?
- How do we optimize material and spare parts availability?
Integration with the Plant

**ERPs**
- SAP
- Microsoft Dynamics
- ORACLE

**Integration Components**

- **EAM – Maintenance & Materials Management**
- **Condition Based Maintenance**
- **Real-Time monitoring System & Data Collector**
- **Plant Sensors - DCS - PLCs**

**Benefits**

- Improved asset utilization: 20-30%
- Improved regulatory compliance: 10-20%
- Reduced maintenance cost: 10-20%
- Increased asset availability: 10-20%
Customer Experiences with Avantis Asset Management…

Ash Grove Cement

$2 million
Cost savings due to improved monitoring and management with Avantis

Western Refining

Ease of use and access to information

CF Industries

$2.5 million savings through improved sourcing and contract negotiations

Associated Electric Power

"Using Avantis has moved us into the 21st century."
Frito Lay Increases Asset Availability and Improves Maintenance Planning

Client: Frito Lay

Location: Plano, TX

Closing the Loop:
Frito-Lay is PepsiCo’s largest North American division, representing 33% of PepsiCo’s revenues and 38% of PepsiCo’s profits. Frito Lay selected Schneider Electric’s Avantis.PRO EAM to improve reliability, performance and environmental and safety compliance. Avantis enabled Frito to standardize work processes and data collection for improved labor efficiency.

Achieved
89% Planned Maintenance, increased 9%

Controls roughly
65% of Savory Snack market generating more than $10billion in annual sales

Inventory transfer resulted in
$4 Million Cost avoidance due to replenishment set points reduced

Results:
We’re Closing the Loop to help the Frito Lay:
• Increase equipment availability and reduce unscheduled downtime
• Improve workforce collaboration and labor productivity
• Continuously improve plant performance, safety and reliability
New features include:

New web interface

- Modern and easy-to-use user interface
- Support for multiple browsers and form factors
  - Internet Explorer, Google Chrome - most recent versions

Simplified user experience

- Customers can create a user experience to meet the needs of their various maintenance personas
What’s new in Avantis.PRO 6.0 Enterprise Asset Management

Cabinet and Designer
• Design cabinets for user specific needs
• On the fly sorting, filtering and manipulating of data allows users to view work in a manner that is more meaningful
• Cabinet layouts can be saved for future use

Forms Designer
• Flexible way to design the user interface forms to be fit for purpose
• Security profiles can limit forms available to users (short form for general users, long form for planners)
• Field level security

Flexible Management Dashboards
• Design dashboards for snapshots of your equipment
• Highly flexible tool which enables all levels of the organization to view summary and detailed information in an intuitive, visual manner
• Dashboards are accessible inside or outside your firewall
EAM Components

Full system Scope

MRO Inventory
- Inventory Catalog
- Storeroom Management
- Cycle Count
- Issues and Returns
- Receiving
- JIT Replenishment
- Mobile Solutions

Start Anywhere, Get Anywhere!
Integrated Business Process!

Supply Chain
- Purchase Catalog
- Vendors
- Requests
- Purchase Orders
- Contract Management
- RFQs
- Invoice
- B2B Solutions

Maintenance Management
- Asset Registry \ Entity Hierarchy
- Preventive and Condition Based Maintenance Inspections
- Work Management
- Scheduling and Assignment
- Time Entry
- Mobile Solutions – Work Management, Operator Rounds
- Contractor Management
- Maintenance Map
- Workflow
- GIS Link

Condition Based Maintenance
Remote Monitoring

Plant Data / SCADA
Avantis Mobile Solution

- Map assigned WOs and status
- View assigned WOs details
- View Attachments and Part List
- Time Card
- Enter RCM data and Images
- Request Spare Parts
- Generate a WO and WR
CMMS + BPM
Example of Maintenance Scenario

Machine breakdown

MES
Records Downtime

Supervisor notified via SMS

Y
Decision to HOLD production

N

MES
Production Continues

Maintenance Order sent to tablet

Maintenance Order completed

Maintenance Tech notified via SMS

Performs inspection and submits report

Maintenance Order created

Maintenance Order closed

Operator notified to restart production

Plan

EAM

MES

Change 2018
Conferonces
Connect the CMMS with your plant!
Avantis Asset Management Solutions

“Great System, Great Support”
Questions?