BIAS
Business Intelligent Application Solutions

ORACLE BIG DATA FOR MANUFACTURING

# Business Cases for Implementing **Big Data** for Manufacturing Environments


### MARGIN RECOVERY
- Reduced material cost and recover system capacity

### PRODUCT QUALITY AND SAFETY
- Address and fix short comings that generate defects and discarded items
- Product quarantine based on specific objective data not just approximations

### ELIMINATE OVERLAPPING INVESTMENT AND SUPPORT
- Optimize resource allocation

### MEASUREABLE ROI
- Shift from an unstructured process to an analytics/data based approach with measurable results

### COLLABORATION
- Synergy of BI and Big Data
- Macro and granular views
- Allow operators, engineers and management to work together based on data
- Break away from a siloed data marts and allow access to all information across the enterprise

## Example Data to Capture

- Integrate PLC's, SCADA and DCS Equipment to capture real-time floor data
- Integrate with meters, sensors and environmental management systems
- Supply Chain tracking, automated raw material cost / quality tracking
- Customer data / satisfaction integration
- Capture customer usage data – requires ability for device or item to send user info back

## Potential Visualizations

- Allocate and estimate energy consumption and emissions for all entities and the entire value chain.
- Visualize shop floors with real-time or actual historic throughput information to identify bottlenecks and reduce time and cut costs to redesign manufacturing processes.
- Reduce R&D cost and time by enabling virtual collaboration along the entire supply chain and concurrent engineering, rapid experimentation and simulation and co-creation.
- Aggregate customer data to improve service, capture cross and up-selling opportunities and accelerate design enhancements.
- After-sales data and usage information from sensors and customer feedback in real-time to trigger service events and detect manufacturing or design flaws.
- Implement advanced demand forecasting and supply chain planning across suppliers .

**BIAS CORPORATION**

BIAS Corporation is a recognized leader in architecture design, tuning, implementation, and management. As an Oracle Platinum Partner, BIAS provides experienced Architects to assist with everything from identifying performance bottlenecks, to defining a long range system architecture plan to managing the purchase and implementation of the Oracle Engineered Systems.

**To learn more about how Big Data can benefit you, please contact us at (888) 907-0352 or info@biascorp.com.**

BIAS
ORACLE Platinum Partner

1100 ABERNATHY ROAD, STE 950 ATLANTA, GA 30328 | p: 888-907-0352 | info@biascorp.com
WWW.BIASCORP.COM