

## Equipment Diagnostic Data Infrastructure

- ❖ Sensor to Enterprise – Quality Data
- ❖ Diagnostics At The Machine for Bandwidth Mitigation
- ❖ Secure Wired or Wireless Data Network Communication
- ❖ Innovative Sensor Solutions for Condition-based Maintenance / Operations

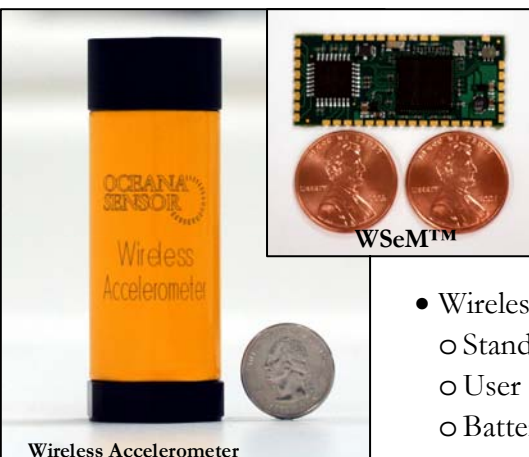
## Diagnostic Monitoring Technology Solutions

- Integrating Remote Diagnostics – Next Generation Analytics for Shipboard Monitoring Systems
  - Machine-ship-fleet operation and maintenance diagnostic information for Distance Support
- Analyze-Diagnose-Adjust-Proceed-Technology – ADAPT™ - for Unmanned Vehicles
  - UxV embedded diagnostics and prognostics
  - Interoperable common architecture framework
  - Integration with UxV Command and Control (C2)
- Wireless sensors and intelligent diagnostic modules for industrial, marine, and aviation applications
- Structural integrity monitoring for corrosion, crack detection, and composite material disbonding
- Reliability centered maintenance engineering for machine-site-enterprise



### Intelligent Component Health Monitor - ICHM®

- ISO13374 Data Processing and Information Flow
  - Open System Architecture for Condition-based Maintenance
- Equipment Status and Abnormality Alerts
  - Maintainer – Machine Condition
  - Operator – Machine Performance
  - Management – Readiness Planning
- Industrial / Marine Application
  - 8 Channel Configurable – Dynamic and Static Input
  - IP addressable, wired or wireless



### Wireless Sensor Electronic Module - WSeM™

- Making Sensors Wireless™
  - 4 channel; analog to digital converter; adjustable filter
  - On-board processor
  - IP addressable; 802.11 wireless radio; WEP, WPA security
  - Ultra low power consumption for increased battery life
- Wireless Accelerometer - application of WSeM™
  - Stand-alone single point sensing
  - User configurable data acquisition parameters
  - Battery powered

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