

Vehicle Condition-Based Performance

Advanced Amphibious Assault Vehicle Drive Train Prognostics System

- System application
- Diagnostic/prognostic algorithms
- Hardware development
- Enhanced operator capability



Reusable Launch Vehicle Integrated Vehicle Health Management

- Platform architecture development
- Knowledge fusion, multiple algorithms
- Member and non-member systems



Future Combat Systems

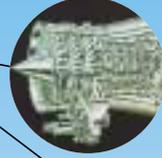
- Trade study for FCS platform health assessment
- Interoperability with logistics and mission parameters for enhanced mission effectiveness



Honeywell

Predictive Trend Monitoring

- Integrated life management for turbine engines
- Diagnostic/prognostic algorithms
- Data collection and trending conclusions
- Increased availability, improved maintenance



Unmanned Combat Air Vehicle

- Propulsion engine for UCAV X45A
- Prognostics and health management for propulsion engine
- Anomaly detection and diagnostic algorithms
- Real-time interface with Boeing IVHM open architecture



Joint Strike Fighter

- Power Thermal Management System (PTMS)
- PTMS diagnostic and prognostic algorithms
- Knowledge fusion, multiple anomaly detection and diagnostic algorithms
- PTMS life prediction algorithms

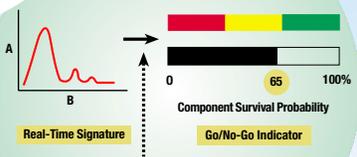


Integrated Capability Prognostics System

Advanced multi-disciplinary lifing technology enables more accurate mission-based vehicle capability prediction. Integrated approach uses multi-scale models, sensors, data acquisition infrastructure, advanced anomaly, diagnostic and prognostic reasoners, and knowledge fusion technology.



Real-Time Functional Sensing—Microstructural Evolution at High Temperatures



Providing Platform Assessment for Optimal Asset Deployment

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Measured real-time signature predicts functional degradation due to cracks, oxidation, erosion, battle damage, etc. via previously established experimental correlations and models based on knowledge of materials and processes.

