

xpedite

Engineering Excellence Today, For Tomorrow

► 2023 Brochure



Company Profile



Activities

Provide an Asset Management Service comprising of Integrated Logistic Support, RCM and Maintenance Management services to RN and Commercial Industries since 2004



Expertise

Employ in excess of 70 highly skilled personnel with the following skill sets:

- ▶ RCM Practitioners and Facilitators
- ▶ Integrated Logistic Support Engineers
- ▶ Safety Engineers
- ▶ Mechanical, Electronic, Electrical and Nuclear Engineers
- ▶ Software Developers



Infrastructure

Office locations:

- ▶ Bath – Head Office
- ▶ MoD Abbeywood, Bristol
- ▶ Portsmouth, Clyde, Devonport
- ▶ Rosyth Dockyard.

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Our Core Services

- ▶ Single source entity for RCM, ILS and MMS Through-Life Asset Management
- ▶ ILS Support Services (AR&M, LORA, MTA etc.)
- ▶ Reliability Centred Maintenance
- ▶ Reliability Centred Design
- ▶ Maintenance Management
- ▶ Inventory Management
- ▶ Full Upkeep Support Services
- ▶ Digital Support Solutions
- ▶ Technical Authoring and Documentation
- ▶ Mechanical, Electronic, Nuclear and Electrical Engineers

Organisational Ethos



INNOVATIVE

We question whether it can be done better and more innovatively. We aim high and never stand still. Bold, confident and passionate, ready for the challenge.



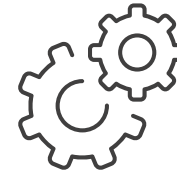
COLLABORATIVE

We listen, collaborate and share. An open relationship with clients makes working with us enjoyable and successful.



TRUSTED

We take responsibility for our roles and never leave issues for someone else to fix. Everything is considered and no loose ends, we and our clients expect nothing less.



RESPECTFUL

We're independent, responsive and respectful. We prioritise project and customer's needs.

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Organisational Experience

- ▶ Currently on contract with SMM-MMSG to manage all non-LSAR Change Management activities within the Naval Maritime domain (Surface and Sub-Surface Platforms)
- ▶ Single source suppliers of 'whole project' RCM for the QEC Aircraft Carriers
 - ▶ Supported Thales UK, BAE Systems and MoD
- ▶ Single source suppliers of 'whole project' RCM for the Astute Class Submarines on contract to BAE, Barrow
- ▶ Conducted AR&M, Supportability Cases, LORA etc for MoD and Defence Suppliers

Defence

- ▶ UMMS through-life database managers for Surface and Sub-Surface Platforms (All RN Fleet except HUNT and T45)
- ▶ Currently supporting customers in response to AI, Machine Learning and Autonomous vehicle initiatives
- ▶ Currently supporting:
 - ▶ Protector (Assured Maintenance Baseline)
 - ▶ T26 RCM Project (RCM Training, Mentoring and Contract Facilitation)
 - ▶ DREADNOUGHT RCM Project (Contract Facilitation)
 - ▶ T31 RCM Project (Contract Facilitation)



Organisational Experience **Commercial**

▶ **PepsiCo, UK and Europe**

Currently on contract to support their Early Equipment Management (EEM) Projects for capability upgrades

▶ **Bourbon Black Sea** (Marine services for offshore oil and gas)

- ▶ Conducted RCM training for 12 delegates
- ▶ Mentored and implemented their RCM programme
- ▶ Support their inventory programmes
- ▶ Helped them develop a programme to centralise their asset maintenance management

▶ **Commercial Marine Organisations**

- ▶ Conducting RCM studies and building maintenance plans on a new build fleet to implement maintenance
- ▶ Collating and formatting asset register information



► RCM 4.0 – Digital Twinning and AI

Supports Reliability Centred Design

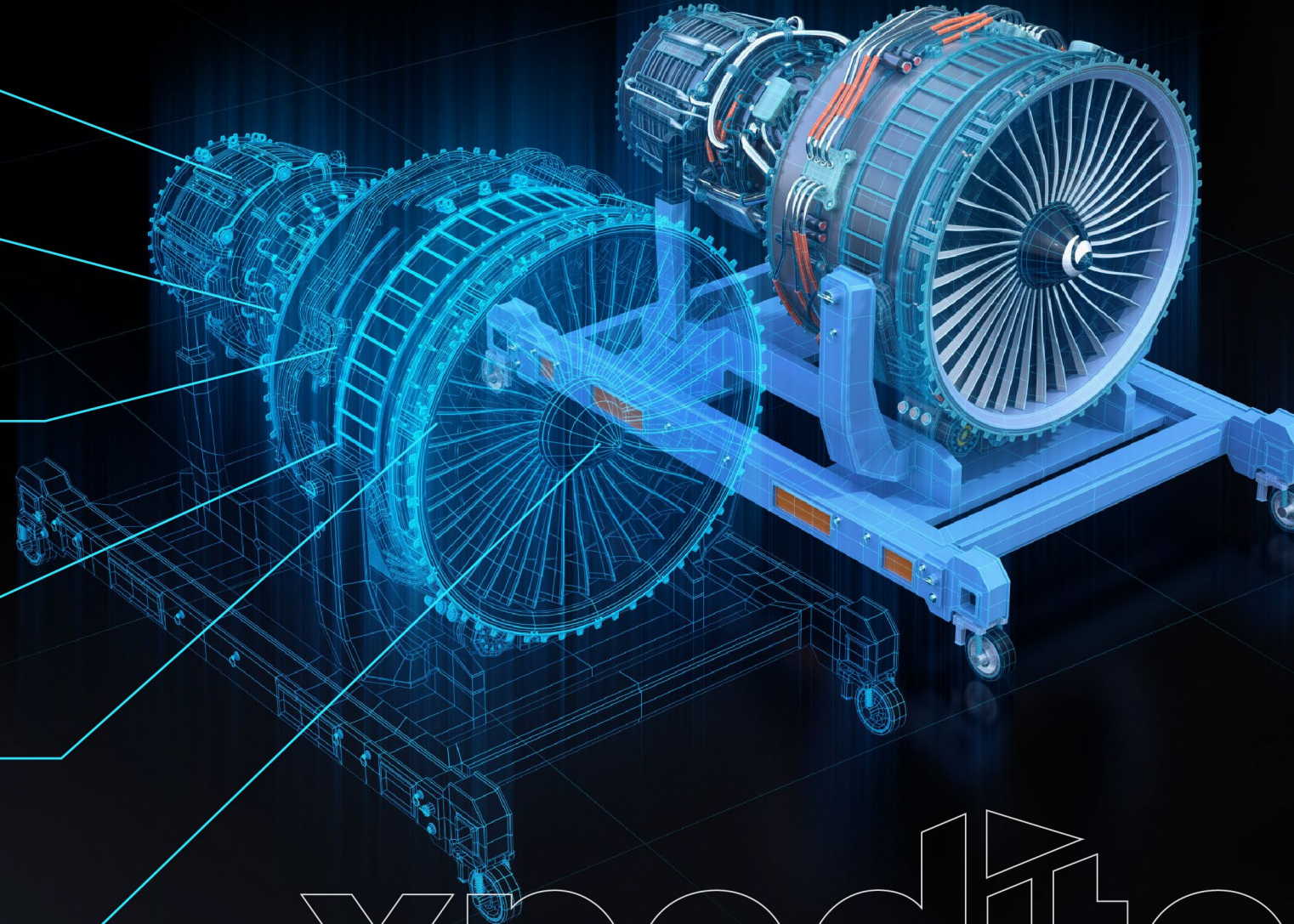
Identifies 'high value' sensors and parameters that prevent or predict failure

RCM captures failure modes and 'keyword phrases' in support of AI and Machine Learning

Identifies 'high value' sensors and parameters that reduce the maintenance burden

Robust, defensible and intelligent process

RCM recognises the 'autonomous' operating context



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FMECA

- ▶ All plausible failure modes
- ▶ Effect of failure
- ▶ Probability of failure
- ▶ Severity of failure

Decision Worksheet

- ▶ Consequence of failure (e.g. Safety etc)
- ▶ Maintenance philosophy
- ▶ Maintenance
- ▶ Stock out severity

RCM

Outputs

Operating Context

- ▶ Function of the system
- ▶ How it operates
- ▶ Operating modes

Analysis Level Outputs

- ▶ Operating buy-in
- ▶ Enhanced system knowledge
- ▶ Routines
- ▶ Procedures and standards

Digital Output

- ▶ Sensors that prevent Failures
- ▶ Sensors that reduce Maintenance
- ▶ Supports Digital Twin
- ▶ Supports Machine Learning

Maintenance Task Instructions

- ▶ Reference documentation
- ▶ Safety instructions
- ▶ Spares
- ▶ Special tools

Current Initiatives and Products

Initiatives

- ▶ Conducting Maintenance Loading Reports for RN Surface Platforms and PepsiCo manufacturing sites using our interactive loading tool
- ▶ Conducting Maintenance Derived Forward Inventory (MDFI) reviews on RN and Commercial Platforms
- ▶ Developing an Emergent Stores Prediction (ESP) Tool to manage defect maintenance CAL and demand planning requirements
- ▶ Promoting discussions around the Full asset life-cycle management and closing the life-cycle loop
- ▶ Modified Operating Cycle (MoC) Tool
- ▶ Digital Development

Products

- ▶ Fully marketable RCM software and JIC writing Tool
- ▶ FRONTIER toolset to support asset life cycle events
- ▶ Intelligent Pdf Scraping software

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Value Statement

- ▶ Open, diligent and respectful support ethos
- ▶ 20 years of intimate knowledge of maintenance delivery to MoD
- ▶ Very focused on delivering great ILS products
 - ▶ 'The right maintenance at the correct interval supported by comprehensive JICs, the right spares and tools'
- ▶ Proven success of delivering Whole Ship maintenance solutions for new build Platforms, including a wealth of lessons learnt
- ▶ Grounded in good engineering but also innovative and progressive
- ▶ A well balanced workforce that covers all engineering disciplines and grades of support
- ▶ Independent support solution that is valued by our customers

The logo for xpeditite features the word in a bold, white, sans-serif font. A small blue triangle is positioned above the letter 'i', pointing to the right.

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