

||| MARSHALL

First to the future

**Current solutions & SMART
deployable infrastructure to
enable the forward
presence**

Lee Doherty

Sales & Business Development Director
Europe

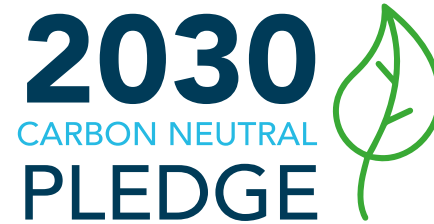


“ Marshall is an independent, family-owned UK company with a diverse portfolio of businesses and a shared commitment to keeping our customers moving forward.

Whether that's supporting global armed forces to deliver mission-critical activities, keeping the UK distribution industry on the road, creating new, sustainable communities where people can live and thrive, or developing the next generations of industry talent – we are incredibly proud to have been **building extraordinary futures** since 1909.

Headquartered in Cambridge, we currently employ around 2,000 people across locations in the UK, Northern Europe, North America and the UAE. ”

BUILDING EXTRAORDINARY FUTURES



New Global Operating Model

Global Market Presence – proximity to our customers



Global Business Lines – focussed on portfolio delivery



Standalone Business

Enabling Businesses – supporting Global Business Line Growth





Global Operations

UK

- Cambridge HQ – new facility by 2025
- New location within Cranfield. Aerospace centre of excellence by 2028
- Digitalisation and “next gen” technology

European Hub

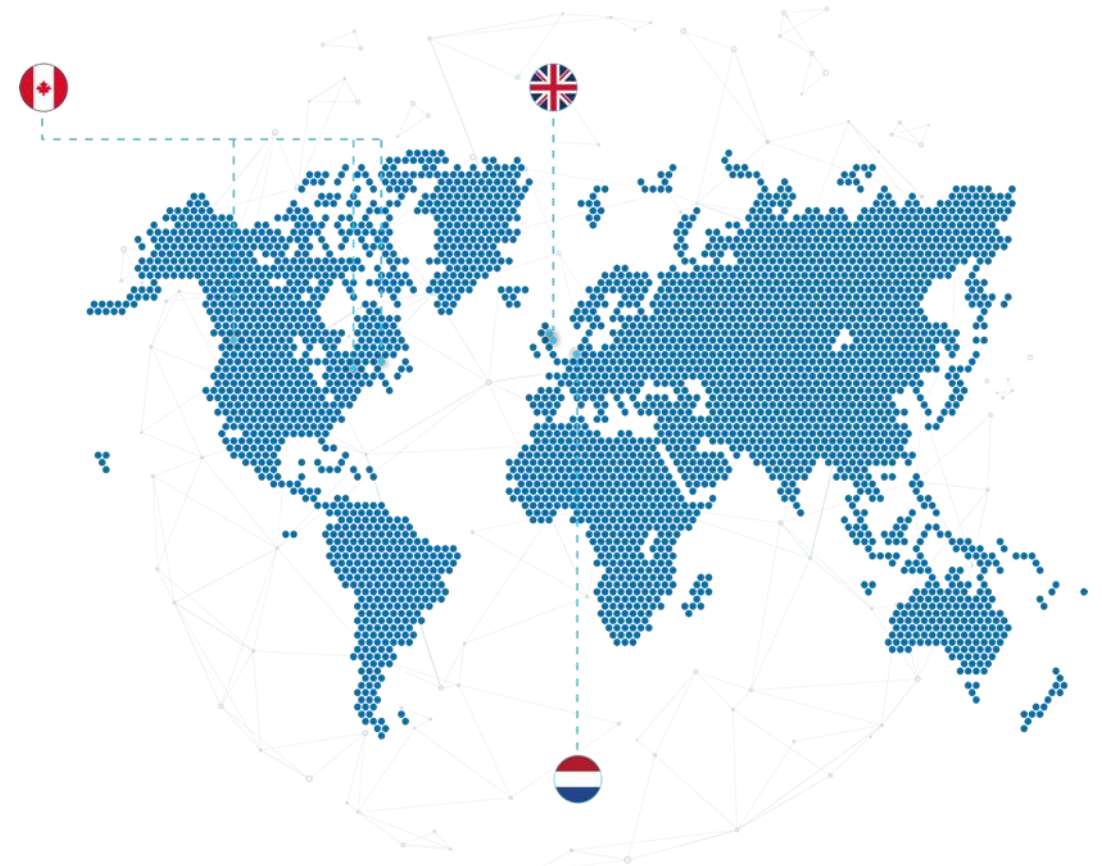
- Field Service Support facility in NL
- Supporting European customer base
- Tailored solutions for new markets

North America

- Investment in New Brunswick facility
- Greensboro North Carolina new Aircraft maintenance and engineering facility
- Hi-volume/low-cost production techniques
- Greater flexibility and competitiveness

Supply Chain

- Expanded local and international supply chain
- Strategic supply chain partnering and resilience
- Risk reduction and obsolescence management



Enable. Enhance. Protect.



Context – Pre Ukraine



Fast Forward... Revised high threat multi-domain battlespace

- Threat – forward and depth
- GBAD and Counter Air demand
- UAS/C-UAS
- C2 – open and urban
- Stockpiling
- “Storage” readiness
- Forward repairs and manufacture
- Medical
- Interoperability
- Standardisation
- Spiral development

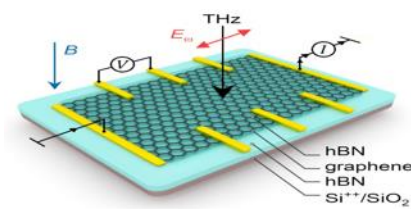




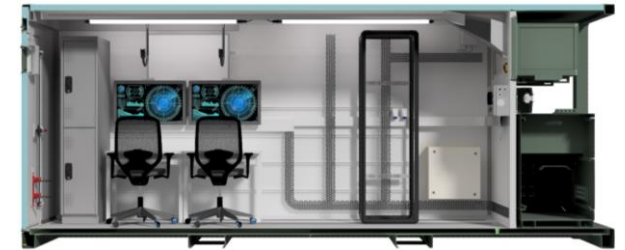
Ukraine Lessons – Combat Re-prioritisation



Rapid mobility & automation



Multi spectral camouflage



UAS & Counter air threat



Logs & medical configurations



Secure C2 & op resilience



In the Air

- Lockheed Martin approved C-130 B-H Hercules Service Centre and first C-130J Heavy Maintenance Centre.
- Major capability enhancements such as avionics upgrades, refueling probes, fuselage stretch plugs, Centre Wing Box replacements, flying test beds, tanker conversions.
- Advanced structures and materials such as fuel tanks, refuelling probes to trim panels, helmet components, propellers, payload carrier systems and special mission radomes.
- Today, supporting a portfolio of 18 C-130 operators across 4 continents.

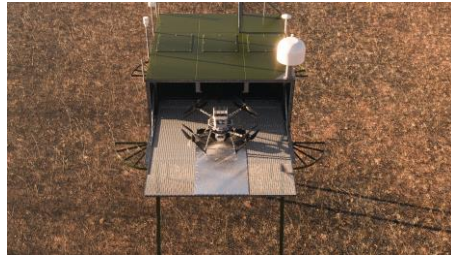


Lilypad – Autonomous Systems

A ground-breaking ecosystem of multiple resident autonomous Beyond Visual Line of Sight UAVs.

Lilypad utilises AI and navigational sensors to create a world-leading integrated capability, providing dynamic and on-demand offshore inspection services.

- System architect
- Design, manufacture and test of deployed infrastructure
- CAA authorised flight operator
- Data capture and analytics



Other applications such as ISR, perimeter inspections, search & rescue, border security.



Muti Domain Focused

- Deployable Infrastructure
- Vehicle & Platform Integration
- Advanced Structures & Materials
- Power Solutions
- Engineering, Support & Training





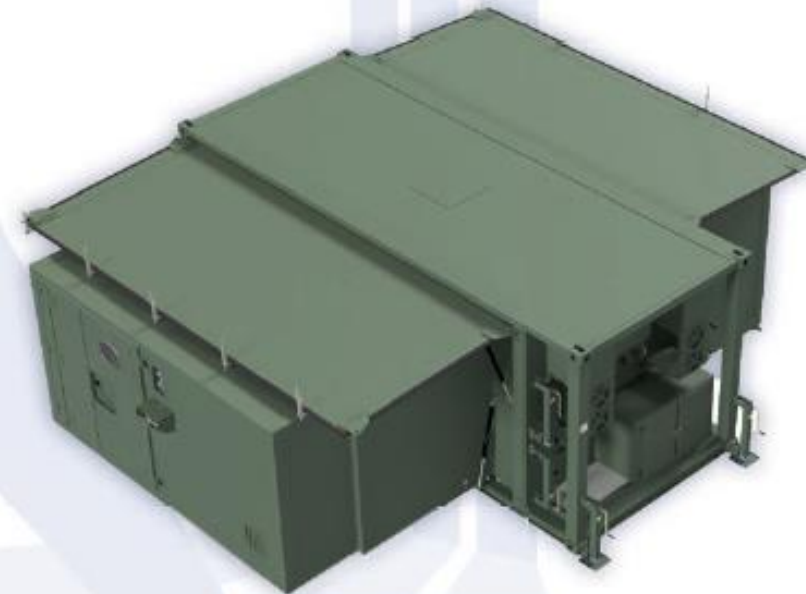
Deployable infrastructure – base platforms



10 ft ISO



20 ft ISO



20ft Expandable ISO



Deployable infrastructure – product ranges

C2



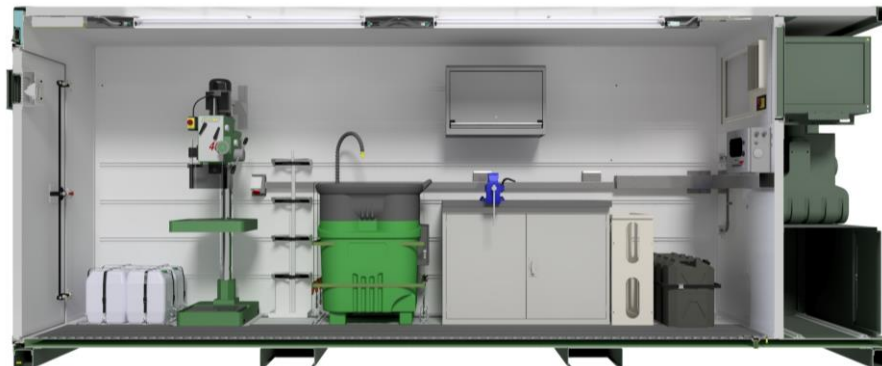
C4ISR



Medical



Core Infrastructure (Maintenance, Storage & Support)



Secure Ammunition Storage and Transport



Weapon platforms and bespoke transportation racking
Ammunition & Explosive storage

Front Line transportation
7000 Flat Racks manufactured.

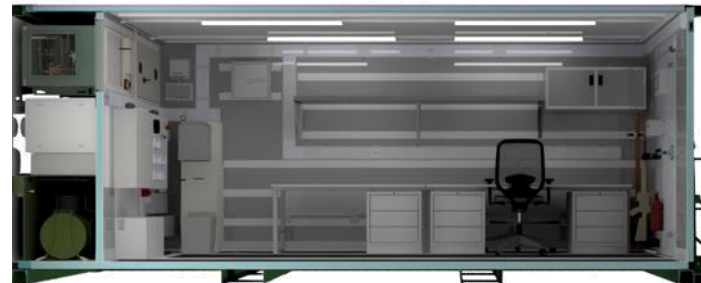
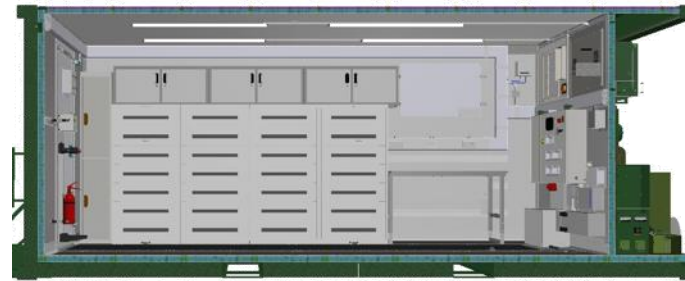


Mobile Battle Damage Repair



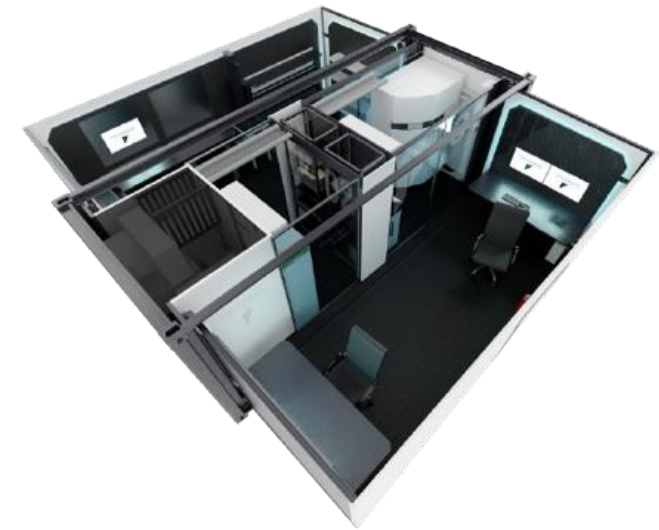
Heavy Duty Repair Workshops

Configured to environment
 Combined with Beam shelters
 Fume ventilation



Maintenance Shelters

NASAMS capability example
 Includes avionics and systems
 Clean forensic style layout



Additive Manufacture/3D Printing

Effective partnering
 Composites and metal
 Lessons of Oil & Gas sectors



UAV System Exploitation



UAV / Drone Class 2

Revised layouts

Integrated C2

Workshop & spares

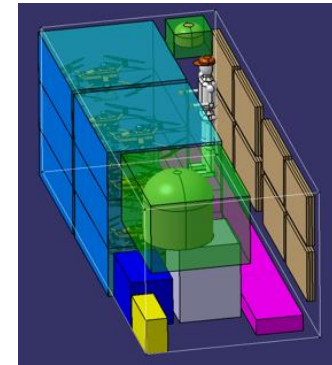


UAV Class 1

Modular Containerisation

Rapid deployment / recovery

Separate C2

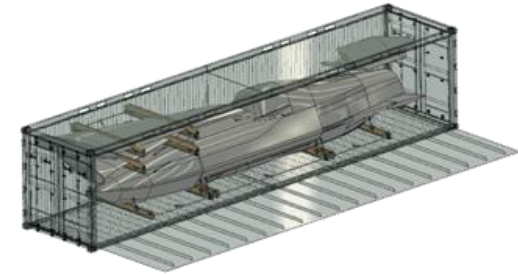


R&D SMART Storage & Launch

LANCA equivalent

Multiple options

HUMS & asset tracking





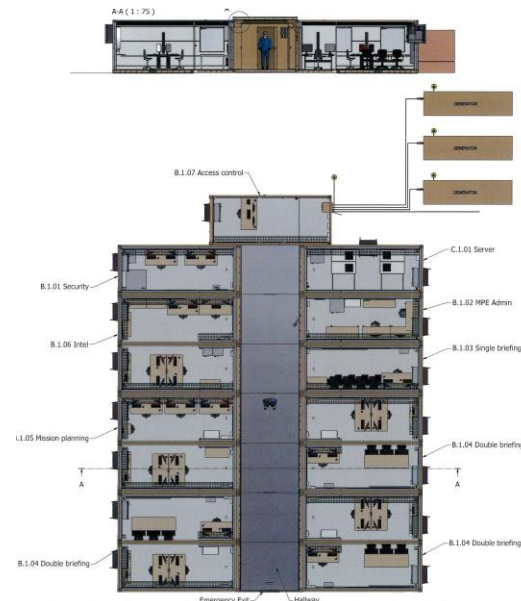
C2 & Command Posts



Command & Control

Specific C4I configuration

Through Life value



F35 Air HQ

Fully enclosed

Noise attenuation



Army Command Posts

Integrated with comms providers

Mix EMC/non-EMC containers



EOD Command Post

UK GASKET

Command Post UK / NI

Secure environment





Vehicle Integration



LVM Canada



Explosive Ordnance Disposal



MONGOOSE S9



Project Crenic UK



NASAM Support



Platform Integration



Ground Based Air Defence



Radar Management Containers



Laser Directed Energy Weapon -
DragonFire



Imagery Exploitation Ground Station



Simulators' Environment

Through-Life Support Services

- Support Solution Design & Delivery
- Field Support & Service Engineering
- Supply Support
- Availability & Capability Management
- Training Services
- Technical Information





SMART System Management & Fleet Communication



Marshall Health and Usage Monitoring System (HUMS)

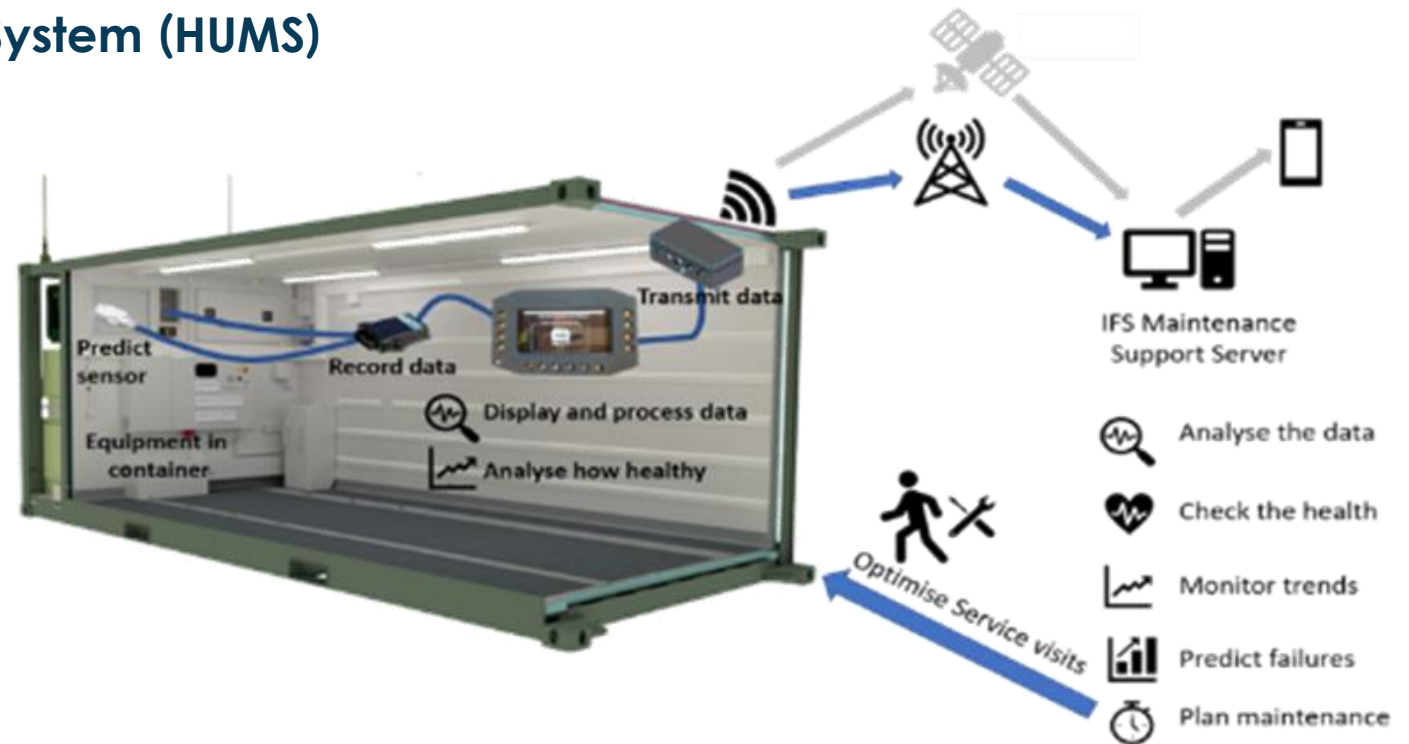
Remotely monitor and control your systems from one central location.

Plan and manage the movement and availability of equipment.

Automatic turn off and power up of connected systems.

By exception reporting to avoid detection.

Reduce energy use and peacetime costs.





Technology Roadmap Priorities and Development



Digital Transformation

MBSE
VR design



Mobility

Automated loading
Self Levelling



Ballistic Standard Modularity

NATO configs
Interoperability



Logistic Footprint

Solar Power
Container Micro Grid



UAV Systems

Class 1 and 2
Multi Domain



Power Solutions & Development

Embrace latest SMART developments and technologies

- Solar
 - Electric
 - Wind
 - Hydrogen
 - Hybrid
-
- SMART containerised microgrids
 - Energy storage developments
 - Sustainable fuels





Skills and training

Closing the skills gap through:

- Skills Summit
- “Flight Path” (STEM outreach)
- Future skills

Apprenticeships we offer

- Level 2
- Level 3
- Level 4
- Apprentice support

Aviation training

- Technical
- Regulatory
- Health and safety





New global digital facilities – Manufacturing and MRO



UK

Alconbury

Weald



Canada

New Brunswick

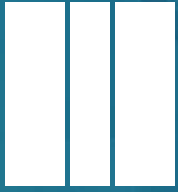


USA

Piedmont Triad

International

Airport



Q&A



Speak to us on stand #39