

Finalists for the Team Defence Information 2018 Excellence Awards



Summary of Finalists' Submissions

**Engage with these finalists on their Display Stands
at Defence Information '18, on 18 & 19 April
Great Western Hall, Steam Conferencing, Swindon, SN2 2EY**

Presentation of Awards – 19th April 2018

DI'18 delegates are encouraged to visit the finalists' stands to learn first-hand about their submissions, achievements and benefits, issues and obstacles managed and their learning outcomes.

There is a DI'18 'delegate's vote' for the winner of the TD-Info 2018 Excellence Award, made via the DI'18 App. Whilst these votes are taken into consideration, the decision by the independent panel of judges is final.

The following listings are in no special order.

Finalist A

Additive Manufacturing - Decision Support System (AM-DSS)

Organisations: The Boston Consulting Group (BCG), Babcock international



Summary

Defence Support Service providers are increasingly investing in R&D activities to better understand Additive Manufacturing, its limitations and how to benefit today and in the future from its potential. AM capability acquisition may represent a source of competitive advantage and a means to develop enhanced service solution. The main advantages of AM applications in “Defence Support Services” (DS2) are to provide platforms with the ability to sustain their systems, recover its capability after damage and collapse dramatically the supply chain. The Decision Support System (DSS) is a software prototype engineered for “Research & Development” (R&D) units employed in early stages of “Capability Acquisition” (CA) programs.

The targeted capability which is investigated for acquisition is defined as follow:” the capability to additively manufacture critical-to-availability components next/close to the point of use only when they are required, to maximise Operational Availability and reduce cost and time of Defence Support Services (DS2)”. The AM - DSS performs accurate and detailed product and service cost estimation and can simulate current and next-generation practices where AM is delocalised in various stages of the support system (i.e. a DS2 provider, a vessel, a port and a forward base).

Finalist B

Additive Manufacturing – Rapid Support System (AM-RS2): Concept Design of a deployable AM unit for War Theatre

Organisations: The Boston Consulting Group (BCG), Babcock international, KW Special Projects, Sarabanfidesign



Summary

Additive Manufacturing (AM) is a highly promising technology for military environments and the defence industry. Through the combination of design freedom, technology compactness and high deposition rates, technology stakeholders can potentially exploit rapid, delocalized and flexible production. This submission aims at presenting the “Additive Manufacturing – Rapid Support System” (AM-RS2) concept, a turn-key, fully integrated/automated, user friendly, deployable system made of a “Fused Deposition Modelling” (FDM) unit, a 3D Scanner unit, a “Human Machine Interface” (HMI) and a library of pre-loaded “Pilot Geometries”.

The AM-RS2 system allows soldiers located in remote Area of Operation to have the capability to turn an extensive library of pilot geometries into physical tailored components when required. The AM-RS2 has been recognised by the UK MoD as an innovation and that the “use of In-Theatre manufacturing could have a real impact for the front-line response to a flexible and asymmetric threat”.

Finalist C

BAE Systems LandLINK™ – Decision Support

Organisations: BAE Systems Land UK, BAE Systems Military Air Information (DITS), Monro Consulting



Summary

BAE Systems LandLINK™ is a management and decision support capability underpinned by a coherent set of management information and analytical tools. This capability enables BAE Systems Land UK to offer tailored data analytics services to their customers. LandLINK is a unique combination of technology, process optimisation and specialist engineering and supply chain personnel. Capabilities include:

- Ability to analyse large volumes of data, providing enhanced outputs.
- Provides a single common source of data
- Greatly reduces man hours on routine document/spreadsheet manipulation tasks.
- Unique ability to interlink datasets throughout the support chain
- Enables forensic investigations to identify root cause of failure

These capabilities enable BAE Systems Land UK to provide “evidence based decisions” across the support environment. These decisions result in changes across the support solution, providing the Customer with direct Value in their drive towards improved platform availability and lower through life costs.

Finalist D

COMPASS – The Interactive Digital Gateway, delivering the Common Support Model across the Surface Ship Support Alliance

Organisations: Mood International, DE&S (Warship Support)



Summary

Under significant and growing cost pressure the Common Support Model (CSM) programme re-defines the way the Royal Navy supports its Warship Fleet through reducing cost, complexity and delay whilst improving capacity, capability and safety.

Disparate support solutions for each class of complex warship had evolved over time and were costly, ineffective and inaccessible. COMPASS supports the CSM by providing a digitised, connected and accessible platform for the process, procedures and instructions required to maintain and sustain force readiness.

Utilising an innovative connected architecture this multi-disciplinary team transformed how process, procedure, instructions are defined, digitised, connected and exploited through an intuitive User Platform.

COMPASS delivers a significant contribution to the CSM, it has enabled the CSM programme to deliver efficiencies and synergies across the Royal Navy, DE&S and Industry within the Surface Support Ship Alliance.

Applicable across any Complex Support environment, the COMPASS project delivered on time, budget and exceeding expectations

Finalist E

Enabling Secure Collaboration for UK OFFICIAL Information

Organisations: Exostar



Summary

All routine public sector business information is considered OFFICIAL following the issuance of the Government Security Classifications Policy in 2014, replacing the previous Government Protective Marking Scheme. The UK government published 14 Cloud Security Principles to summarise the essential controls required to ensure OFFICIAL data is appropriately protected.

Exostar's Secure Collaboration solution, ForumPass, has been trusted by leading Aerospace & Defence organisations for over 15 years. ForumPass OFFICIAL was developed in 2017 to comply with the 14 principles, enabling organisations to share classified information with internal and external partners in an internet-based collaborative workspace.

Built on Microsoft SharePoint and protected by multi-factor authentication, this solution has additional security features that make it one of the most secure online collaborative platforms available. It delivers robust functionality, including end-to-end encryption, through an easy-to-use, intuitive user interface.

Finalist F

Making secure access to data a facilitator of value-add processes, not a limiter

Organisations: GBR14 - in association with Innovate UK, BP, Sparc Systems



GBR14

Innovate UK



Summary

GBR14 largely eliminates the risk of mass data loss which means that data can be used, accessed and shared in ways that make data security a facilitator and not a limiting factor in the creation of value-add business processes. Our technology manages individual database records, repository files, IoT and mobile devices, and access privileges using unique encryption keys to separately encrypt, and cryptographically separate, each piece of asset data.

We enable large numbers of users, terminals and devices to operate securely using both distributed and centralised databases. Managing cryptographic keys on a massive scale, we're replacing traditional permissions-based processes with technology that is transparent and frictionless to applications and users.

Our collaborative projects have driven the development of innovative, secure applications that provide new solutions to high-value data users. Clients include businesses from finance, automotive, event-management, logistics and maritime sectors as well as our core Defence Forward Engineering scheme.

Finalist G

Optimising supply chain innovation through enhanced strategic value

Organisations: BAR Associates Ltd



Summary

A demonstration of BAR's business innovation toolset, this submission focuses on enhanced productivity gains associated with identifying, stimulating and harnessing the benefits of innovation-driven business within the UK defence and security supply chain. Critically, it further delivers a means for more effective SME engagement in Defence projects.

The BAR methodology provides an integrated approach for innovators and supply chains to secure close alignment of innovative products and services and place them sustainably and profitably into highly valuable market sectors.

Markets are now seeking an openly innovative approach linked to ensuring 'adjacency' value from bringing together capabilities from many sectors to address defence and security related challenges. Nurturing innovative businesses, the BAR solution supports SMEs in identifying new market opportunities for its projects and services and enabling delivery through a robust business plan that encompasses all of the key components necessary to grow and deliver new 'strategic' value.

Finalist H

The JAMES Connection Agent

Organisations: Lockheed Martin, Software AG, Army D Info, DE&S, Army HQ, JANUS Team



Summary

The JAMES Connection Agent (JCA) constructive collaboration project was established between SCIS JAMES Delivery Team (JDT), Lockheed Martin (Rotary Mission Systems) UK and Software AG, working with Army HQ. The resultant Proof of Concept uses extant Army Business Process Management (BPM) tools and techniques to exploit available data in near real time. Staff are thereby able to decide, from accurate evidence, on actions required and to plan and enact them, not spend time compiling bespoke and rapidly outdated lists, presentations and documents.

Connecting current and future Systems of Record (SofR) in an information-enabled system delivers a coherent, immediate and above all shared understanding of Fit For Mission (FFM) Readiness. This construct makes Whole Force Management a reality by introducing and using the Single Information Environment (SIE) as it is intended, and facilitates development of faster, more accurate and efficient processes for the future.

Finalist J

Through-life Transformation of how Assets Subject to Special Controls are managed throughout the support chain

Organisations: MOD (WATERGUARD representatives) & Babcock as Joint Information Group (JIG) Sponsors with support from: tlmNEXUS, Raytheon, Servowatch, Sopra Steria, CAMCODE, Exostar, Leonardo, BAE, General Dynamics, QinetiQ, Lockheed Martin, Allan Webb, LEIDOS, Rolls Royce, Strategic Shipping, Rockwell Collins, SAP, Fujitsu, Team Defence Information, ADS Group, EGADDs



Summary

Non-Compliance with obligations for Assets Subject to Special Controls (ASSC) such as foreign Export Controls (ITAR/EAR) can lead to significantly legislative fines, individual imprisonment, debarment, loss of capability and increasing the cost/ time taken to support Front Line operations.

This ground-breaking project for over two years utilised Team Defence commercial, technical and IT expertise/ knowledge & the Trade Bodies (TDI, ADS, EGADDs) to help the MOD Design, Test and Implement ASSC Policy, Processes and Procedures and standardised ways of working. This Business Transformation project continues to receive NATO/US recognition as an exemplar on engaging, empowering and driving change across the support chain whilst identifying significant operation efficiencies/ effectiveness & compliance benefits/savings.

Work has included ASSC Assessments & Development/Deployment of the new ASSC service, Support Chain Information Flow analysis/sharing/exploitation as a force multiplier, Live trials and support to the 3i Programme on practical ways of uniquely marking Defence Assets.