



RFID JOURNAL VIRTUALLY LIVE!

SEPTEMBER 30 - OCTOBER 1, 2020



BAE Systems

Improving Manufacturing
and Inventory Capability
With RFID

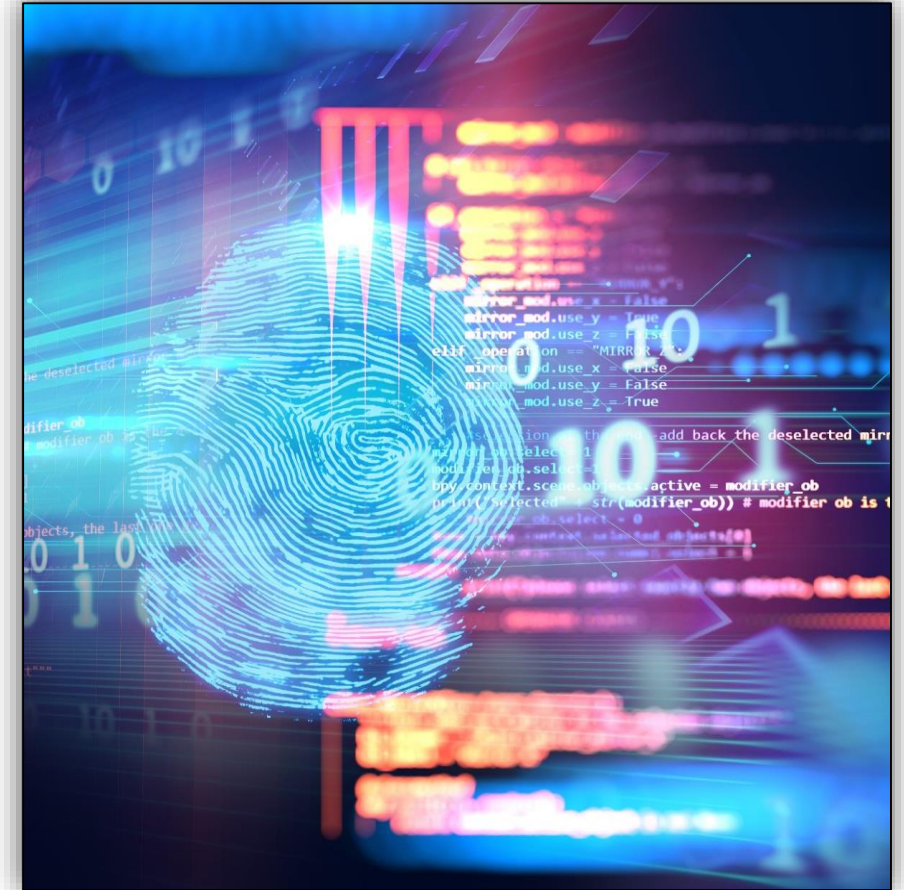
ES-ECS-091420-0189

Who we are

At BAE Systems, our **advanced defence technology** protects people and national security, and keeps critical information and infrastructure secure.

We search for new ways to provide our customers with a competitive edge across the **air, maritime, land and cyber domains**.

We employ a skilled workforce of 85,800 people in more than **40 countries**, and work closely with local partners to support economic development by transferring knowledge, skills and technology.



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Business by domain

Air 52%



- Manufacture, development, upgrade and in-service support of Typhoon combat aircraft
- Workshare partner for the design and manufacture of major sub-assemblies and systems, and provision of support for F-35 Lightning II combat aircraft
- Design, manufacture and support of electronics equipment for military aircraft
- In-service support of Tornado combat aircraft
- Manufacture, upgrade and in-service support of Hawk trainer aircraft
- Development of next-generation unmanned air systems and defence information systems
- Design, manufacture and support of avionics equipment for commercial aircraft
- Design and manufacture of missiles and missile systems through a 37.5% interest in MBDA

Maritime 26%



- Design and manufacture of submarines
- Design and manufacture of complex warships
- Provision of naval ship repair and modernisation services in the US
- Provision of in-service support to surface ships and facilities management in the UK
- Design and manufacture of naval gun systems, torpedoes, radars, and naval command and combat systems

Land 17%



- Design, manufacture, upgrade and support of tracked and amphibious combat vehicles
- Manufacture of ammunition and precision munitions for US, UK and other armed forces
- Design and manufacture of electric and hybrid electric drive systems
- Design and manufacture of artillery systems and missile launchers for US, UK and other armed forces

Cyber 5%



- Supply of cyber, intelligence and security capabilities to US government agencies
- Supply of cyber, intelligence and security capabilities to UK and other government agencies
- Supply of defence-grade cyber solutions for the commercial market

Our Journey

BAE Chairman's Award- Supply Chain Excellence w/ RFID and IIoT

RFID Journal Live -Best Manufacturing Runner up

RFID Journal Live Europe-
Keynote: BAE Systems
Improves **Manufacturing** and
Inventory Capability With RFID



Presentation delivered at RFID in Aerospace & Defense

BAE Chairman's Award- Innovating for Success: RFID w/Asset Management

RFID Journal Live Best Manufacturing RFID/IoT Implementation

Gartner
Aerospace & Defense
Special Interest Group
Government Members
Supplier Segmentation

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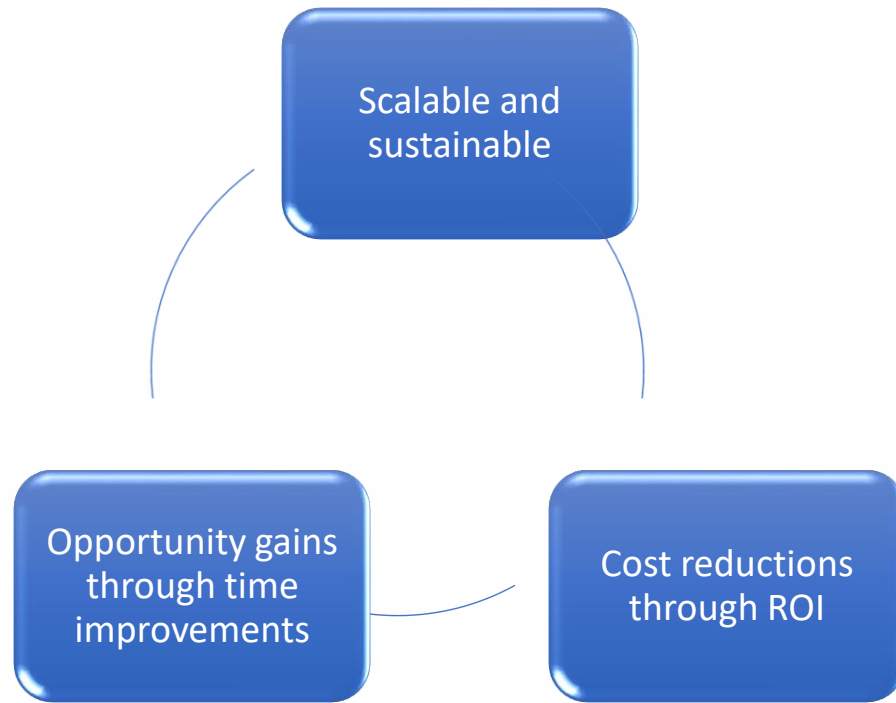
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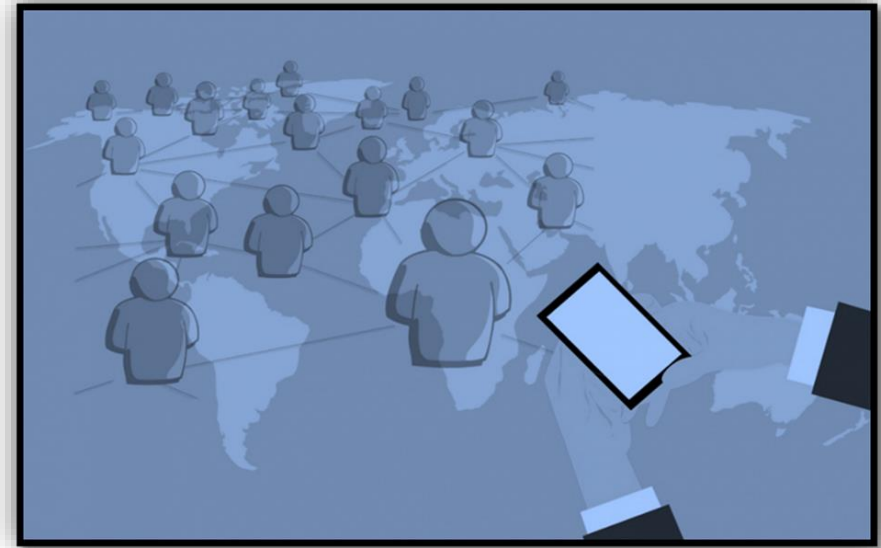
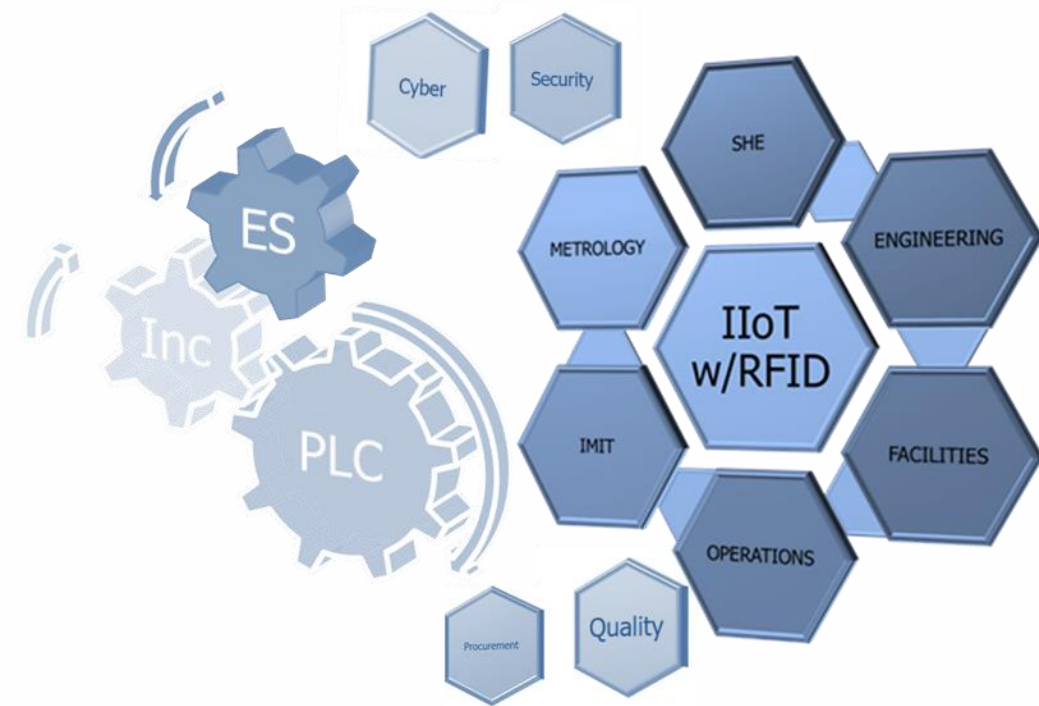
Business Use Cases

Asset/Tool Tracking	Work in Process (WIP) Tracking	Automated Material Replenishment
<ul style="list-style-type: none">• Capital Assets• Customer Furnished Material• Government Furnished Material• DFARS Tracking• Engineering/Operations Calibrate items• Active equipment use monitoring	<ul style="list-style-type: none">• Circuit Assemblies• Modular Assemblies• Cables/Harnesses• First Article Inspection (FAI)• Block chain / digital ledger	<ul style="list-style-type: none">• Supplier Managed Inventory (SMI)• Hardware• Chemicals

Scope



Collaboration-Cross Discipline



Internal and External Partnerships

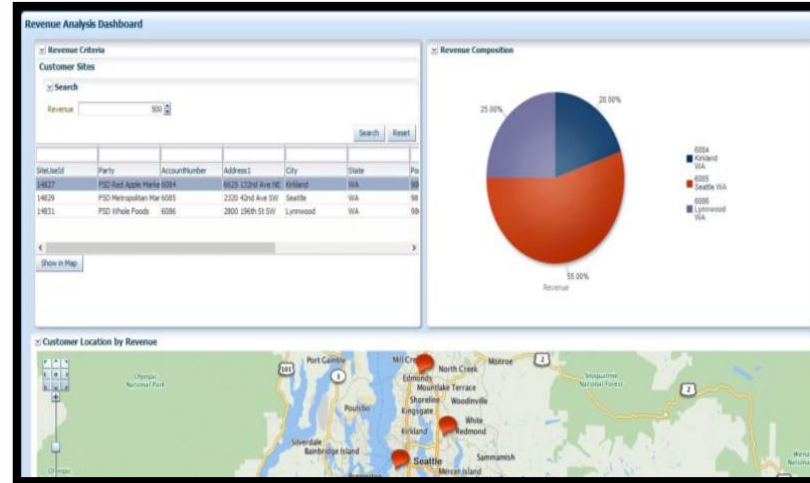
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Measure & Monitor Success



Intelligence through analytics

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User Validation



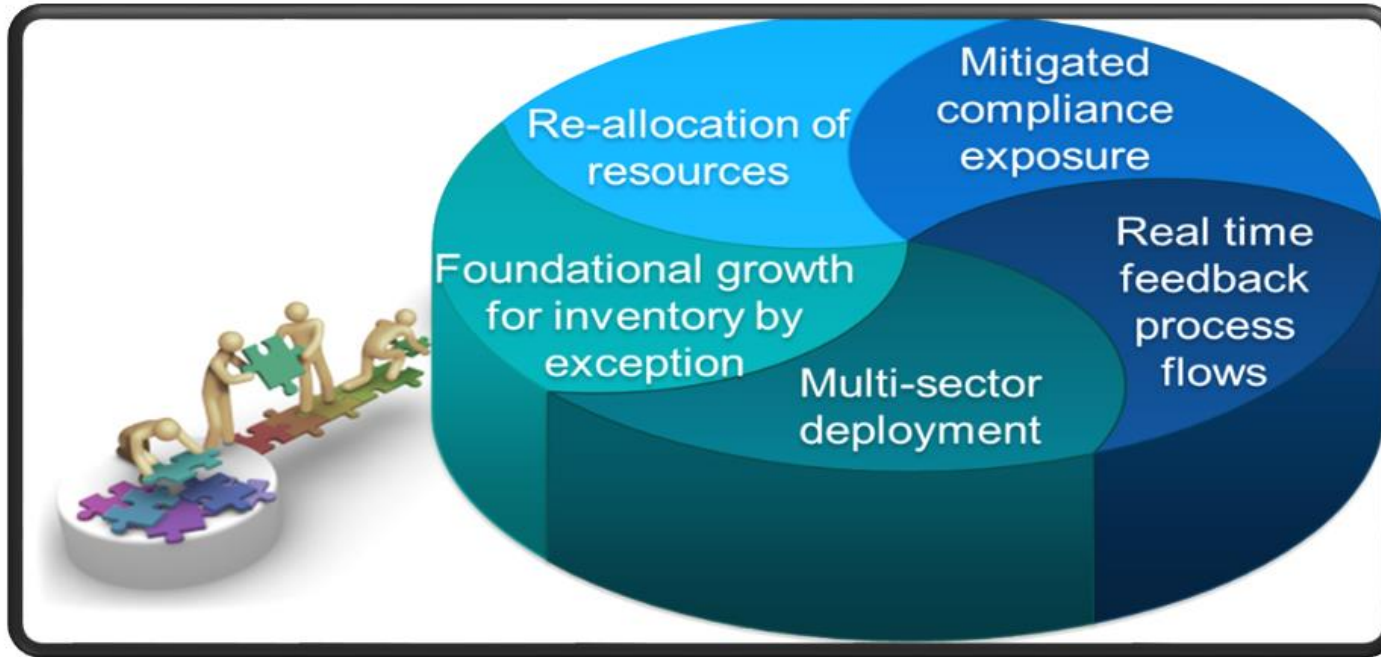
July 2019



“Several of us have been looking for hot items.
Everything that had an RFID tag on it, I found like *this*
[snapping fingers]...

– *Manufacturing Production Controller 2 (NHQ)*
RFID User Group Attendee, July 31

Results & Lessons Learned



Gather user feedback

Communicate early and often

Inspect use and implementation

Measure expectations against reality

2020 Adjustments from Covid-19



Delayed Logistics and Funding

New Entry Protocols w/Additional PPE

Remote work challenges

Significant and positive difference

Supporting a Digital Highway

Integrating Legacy and New Databases

User community providing new use cases



RFID being institutionalized at BAE Systems

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Questions



THANK YOU

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