

Maximo in BAE Systems Australia

An Evolutionary Journey

September 2014



Introduction: BAE Systems

BAE Systems is a global defence, aerospace and security company. The Company delivers a full range of products and services for air, land and naval forces, as well as advanced electronics, security, information technology solutions and support services.

Key facts

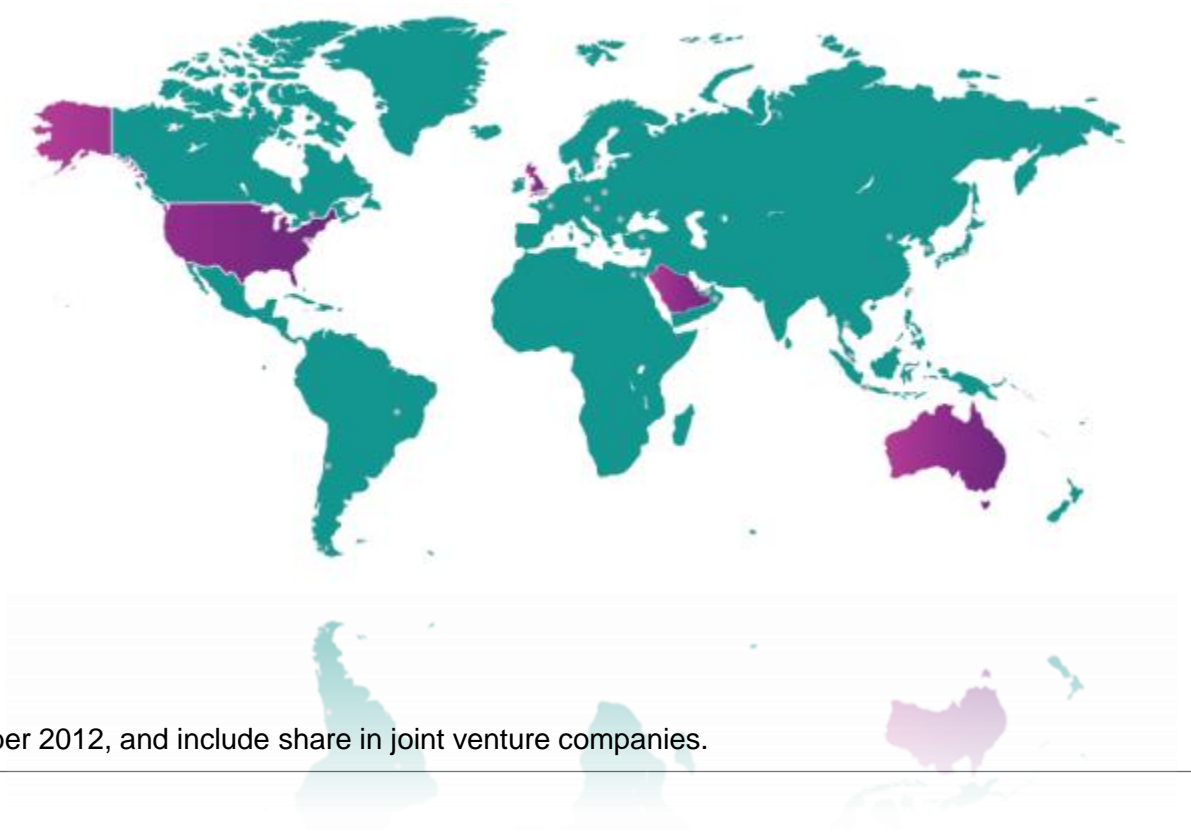
- Global capability
- One of the world's leading defence companies
- A world leading innovator
- Over 88,000 employees worldwide
- Customers in more than 100 countries
- 2013 sales of £18.2 billion



Our global operations

- **BAE Systems Home Markets**
 - Australia**
 - circa 4,500 employees
 - India**
 - circa 200 employees
 - Saudi Arabia**
 - circa 5,900 employees
 - United Kingdom**
 - circa 32,800 employees
 - United States**
 - circa 34,500 employees

- **Global Business Development Offices**



* Employee figures correct as of 31 December 2012, and include share in joint venture companies.

Australian business at a glance

**EDINBURGH PARKS, SOUTH AUSTRALIA
HEADQUARTERS**

4,000+ EMPLOYEES

**AUD \$1.4 BILLION
ANNUAL SALES**

35+ MAJOR DEFENCE CONTRACTS



60 years in Australia



Major projects



Project

Over-The-Horizon Radar

Location

REGIONAL AUSTRALIA

Major projects



Project

Wedgetail Follow On Sustainment Support

Location

SOUTH AUSTRALIA

Major projects



Project

JP 2008 3F – Satellite Ground Station

Location

REGIONAL WESTERN AUSTRALIA

Major projects



Project

Minehunter In Service Support

Location

NORTH RYDE, NSW

Maritime

Major projects

BAE SYSTEMS
INSPIRED WORK



Project

Building two Landing Helicopter Docks for the RAN
Prime contractor for the supply of two LHD ships

Location

WILLIAMSTOWN VIC

BAE Systems – Projects

- Defence projects vary widely in scale, scope, and value.
- Each project has unique contract requirements and specific performance measures.
- Require processes and tools that are scalable and flexible to customer needs.



Maximo in BAE Systems

- One primary customer in Australia.
- In-Service Support (ISS) contracts are increasingly a major focus for the defence customer.
- BAE Systems requires a proven, scalable and adaptable Maintenance Management System to meet customer needs.



Maximo in BAE Systems (cont.)

- Prior to 2010:
 - Maximo used independently on several projects.
 - Used primarily as a repair workflow management tool.
- This resulted in:
 - Stove-piped approach to maintenance management.
 - Inefficiency / extra cost involved in managing many different implementations.



Maximo in BAE Systems (cont.)

- Needed to determine a common approach to maintenance and asset management.
- Evaluated competing Enterprise Asset Management products.
- Maximo selected due to high degree of compliance against BAE Systems business requirements.
 - Competing products would have required extensive customisations and changes to the base product.

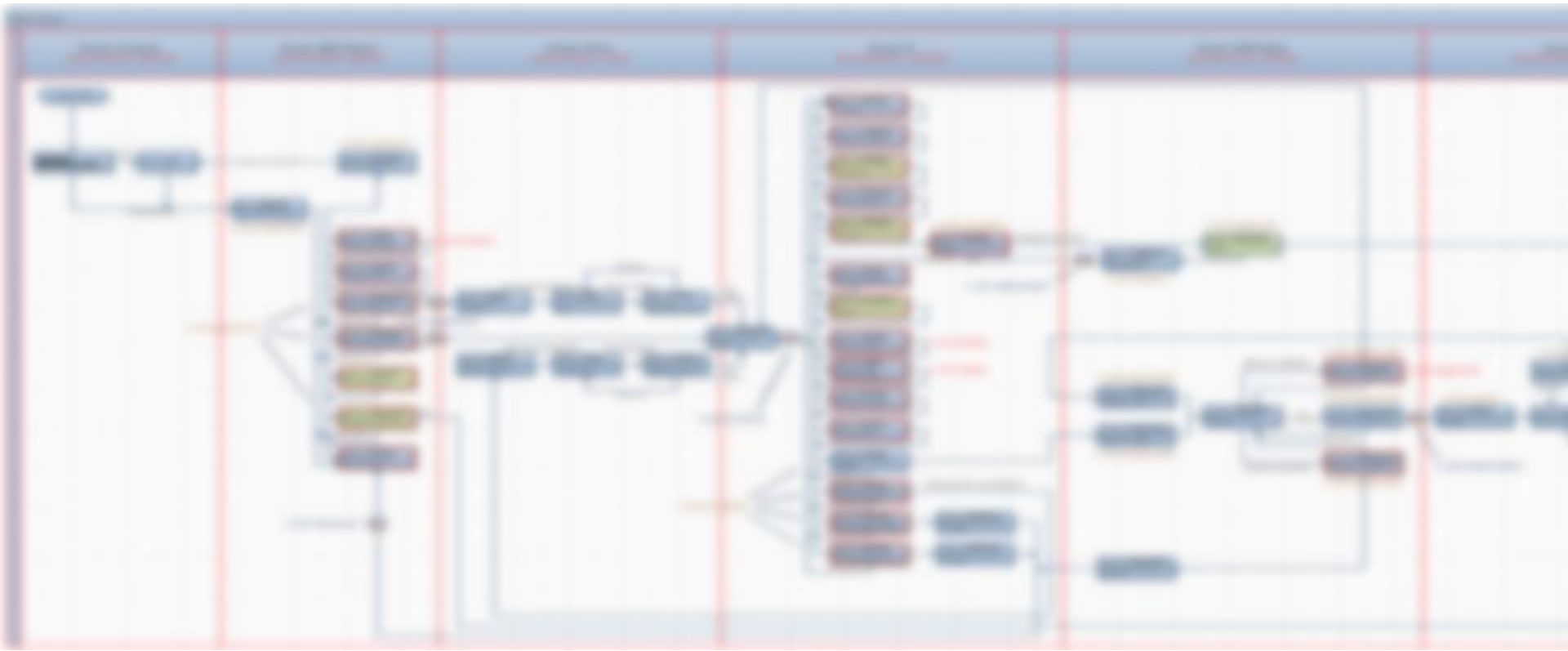


Maximo in BAE Systems (cont.)

- Since 2010:
 - Expansion and tailoring of default Maximo work flow to better suit the maintenance practices of several projects.
 - Built upon existing model to improve flexibility.
 - Improved maintenance management system now successfully rolling out to new projects.

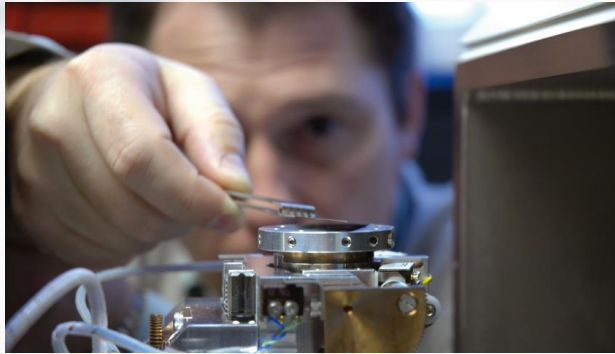


Common Maintenance Workflow



Common Maintenance Workflow

- Small and large scale projects.



Common Maintenance Workflow

- Solution:
 - Common Maintenance Workflow
 - Adaptive
 - Scalable to large and small projects
 - Can include or exclude specific states of the maintenance workflow
 - Can tailor the number of geographic locations and organisations involved in a project.

Extending Maximo Capability



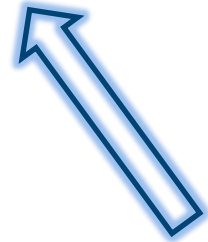
Extending Maximo Capability – Stores Control

- Need:
 - BAE Systems holds stock for multiple customers.
 - Standard Maximo environment allows issuing parts from any store into any asset.
 - Need to ensure that stock items can only be consumed by assets that belong to the same owner.



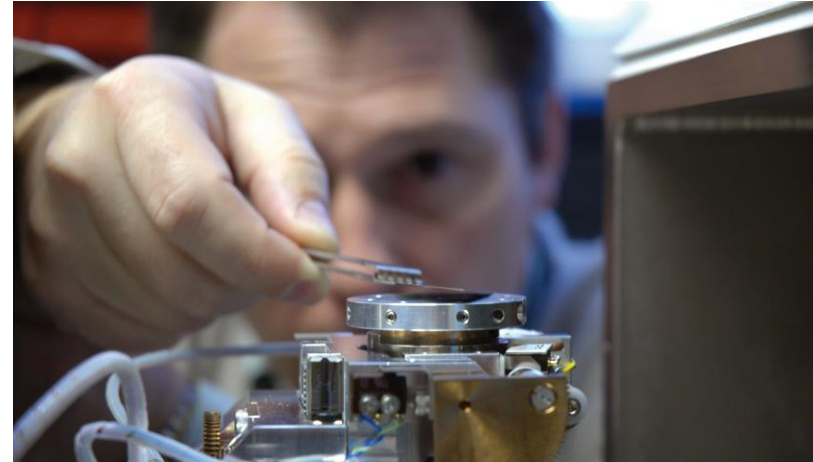
Extending Maximo Capability – Stores Control

- Solution:
 - Introduced the concept of “Owner” for:
 - Store Rooms; and
 - Assets.
 - Items can only be consumed by Assets that belong to the same owner as the issuing store room.



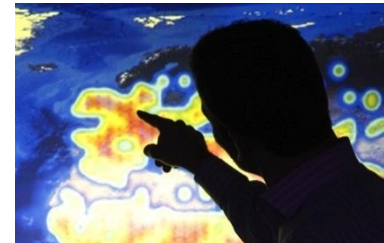
Extending Maximo Capability – Tech Config

- BAE Systems needs to track the configuration of specific assets.
 - Radio modules, missiles, platforms.
- The Maximo Asset Configuration Module (ACM) is capable of this, however:
 - ACM is a large, comprehensive module.
 - In excess of BAE Systems requirements.



Extending Maximo Capability – Tech Config

- Solution:
 - Technical Configuration (TC)
 - Customisation of Service Request Module
 - Type: alert, deviation, modification, waiver ...
 - Can be mapped to multiple assets
 - Allows BAE Systems to control and understand the modification state of all managed assets.



Thank you

