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Codification World Forum – Industry and Defence working together

John Stratton OBE - Director Maritime Equipment

Industry and Defence working together



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Defence Support encompasses all those activities that maintain military capability at pre-planned availability, readiness and sustainability profiles through its **whole life, and end to end**

This concept explicitly encompasses both **support engineering and supply chain management** aspects of support, which historically have not been well integrated

How should industry and Defence departments work together to drive effective and efficient support **through life and end to end** measured in terms of quality and cost

Address



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“Outline the Challenges and Opportunities for optimising support by bringing together the support engineering and supply chain elements across the Defence and Industry”

Babcock International Group: Context



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Divisions

**Marine and
Technology**



**Defence and
Security**



**Support
Services**



International



Markets

Airports

Communications

Defence: Air

Defence: Land

Defence: Sea

Education

Emergency Services

Energy

Nuclear

Property

Rail

Security

Training

Waste

Babcock: UK's leading engineering support services organisation

Agenda



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- Understanding the terms
 - support engineering
 - supply chain management
- Challenge
- Opportunity
- Case studies
- Enterprise operating concept

Definitions



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Support Engineering

"a through life project support discipline, that encompasses the ILS methodology of managing and improving reliability, obsolescence, configuration, technical documentation, training and training equipment....." (UK MOD)

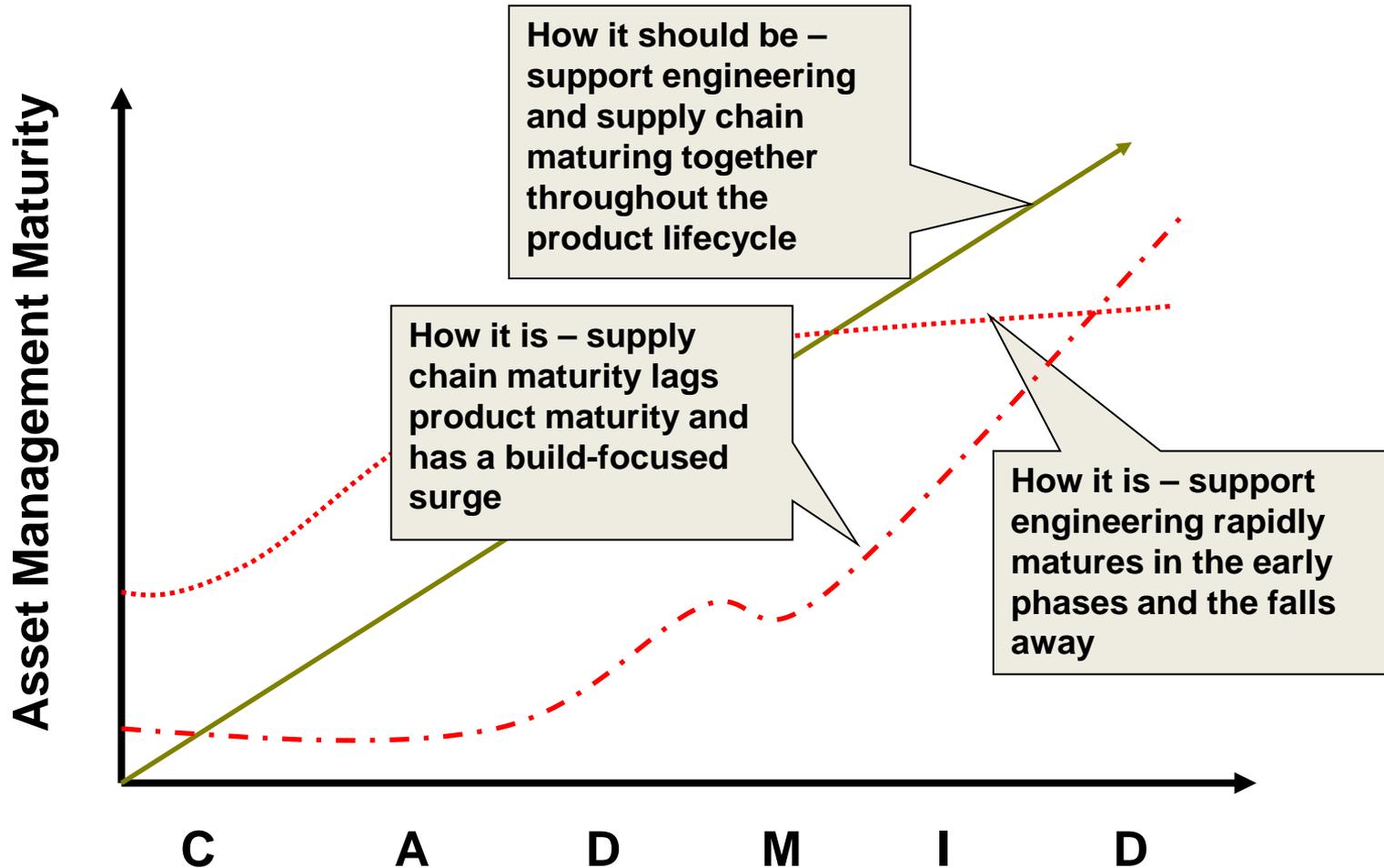
Supply Chain Management

"The appropriate physical, information and process alignment of supply side activity such that material and sub-contract availability adequately supports the cost, quality and delivery demands of our internal and external customers." (Babcock)

The Challenge: Through Life Asset Management



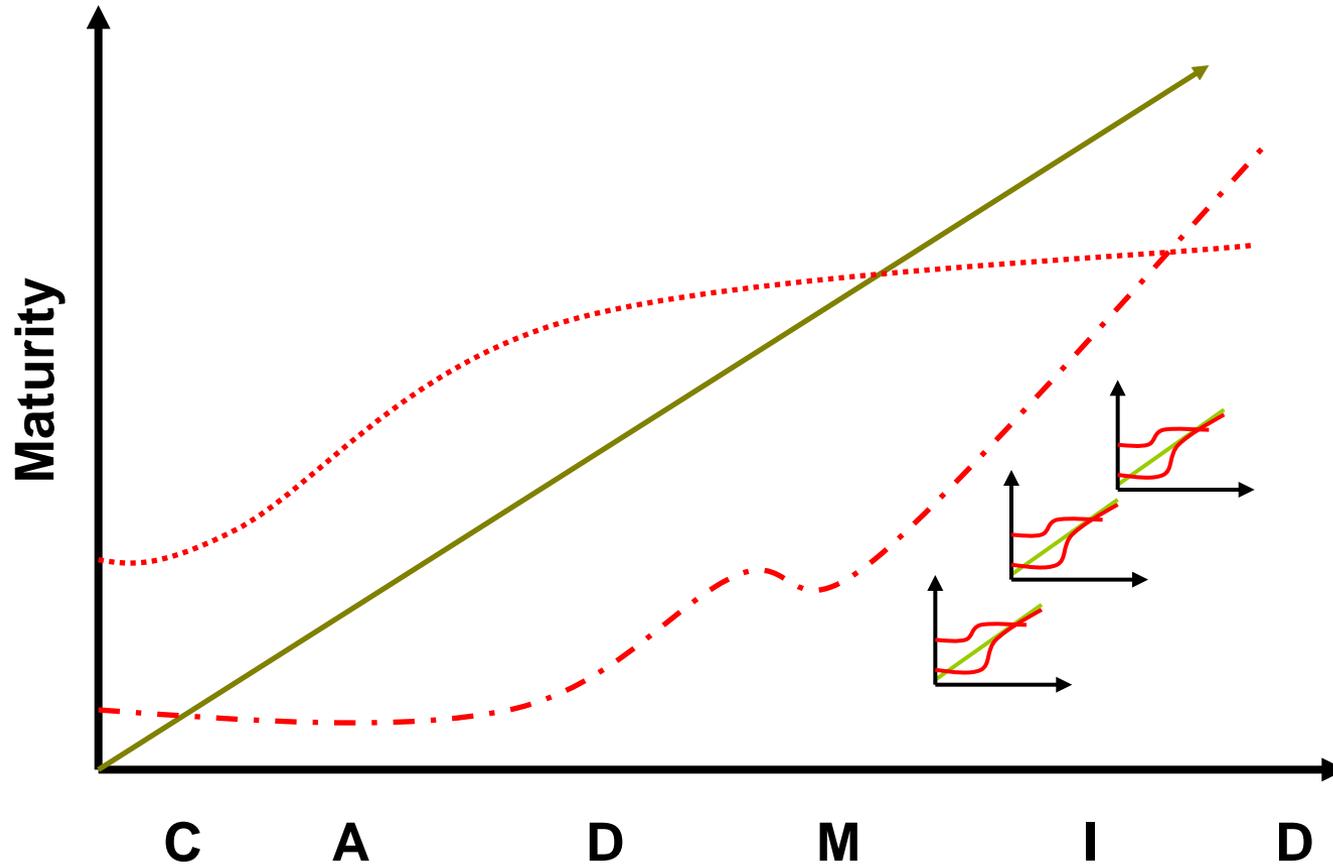
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The Challenge: Through Life Asset Management



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The Challenge: Codification - UK MoD's Spares Diagnostic



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- Critical for effective inventory management
- Strategy for codification requires the disciplines of :
 - Failure Analysis
 - Reliability and Maintainability
 - Level of Repair Analysis
 - Ranging & Scaling
- Process complexity requires a collaborative approach between industry and the MoD
- Retrospective codification is an even greater challenge, requiring collaboration along the totality of the support chain

Integrated Business Planning – support engineering and supply chain management



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Challenge



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- Data
 - Through life requirement, accuracy, collation
- Tools
 - Specifying contract requirements
 - Decision support tools
- Culture – personality vs process
 - Tenure of decision makers
 - Leaving our mark
 - Stature
 - Fire-fighting
 - Avoiding accountability
 - Project vs continuum

How do we make it happen...

Defence and Industry Integration



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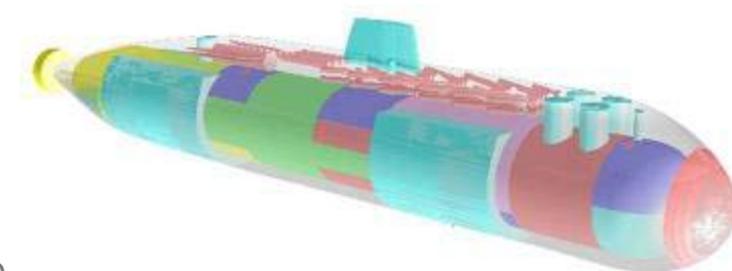
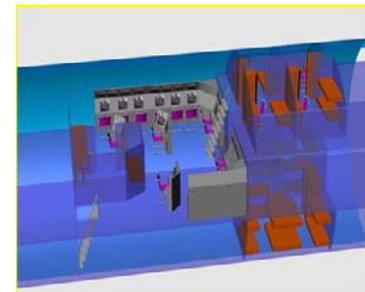
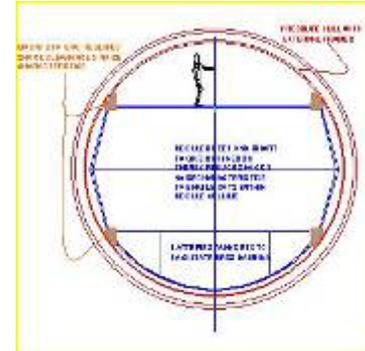


Cast Study 1: Supportability in design – Successor



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- Support Team fully engaged from the earliest days of pre-concept as a Tier 1 supplier within the collaborative MoD/Industry team
 - The largest single contributor to reducing support costs, whilst increasing availability and readiness, is the delivery of a submarine that is designed to be supported
 - The interface between support & design teams was identified as a key weaknesses in previous programmes
 - The early design decisions determine the supportability of a platform
- UK MoD recognised the need for change
- In response, Babcock developed a structured, tailored TLS programme to address historic failings
 - **Support the design**
 - **Design the support**



Case Study 2: Maritime Equipment In-Service Support



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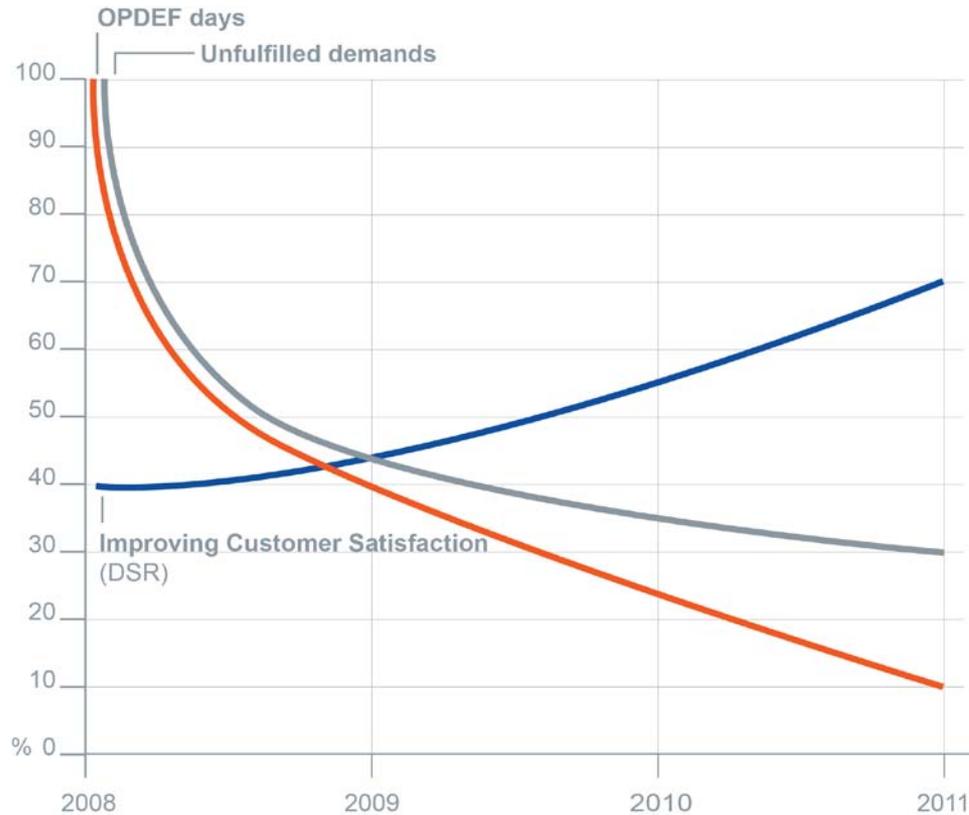


Past Achievements and Performance



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- HESS Pumps Performance

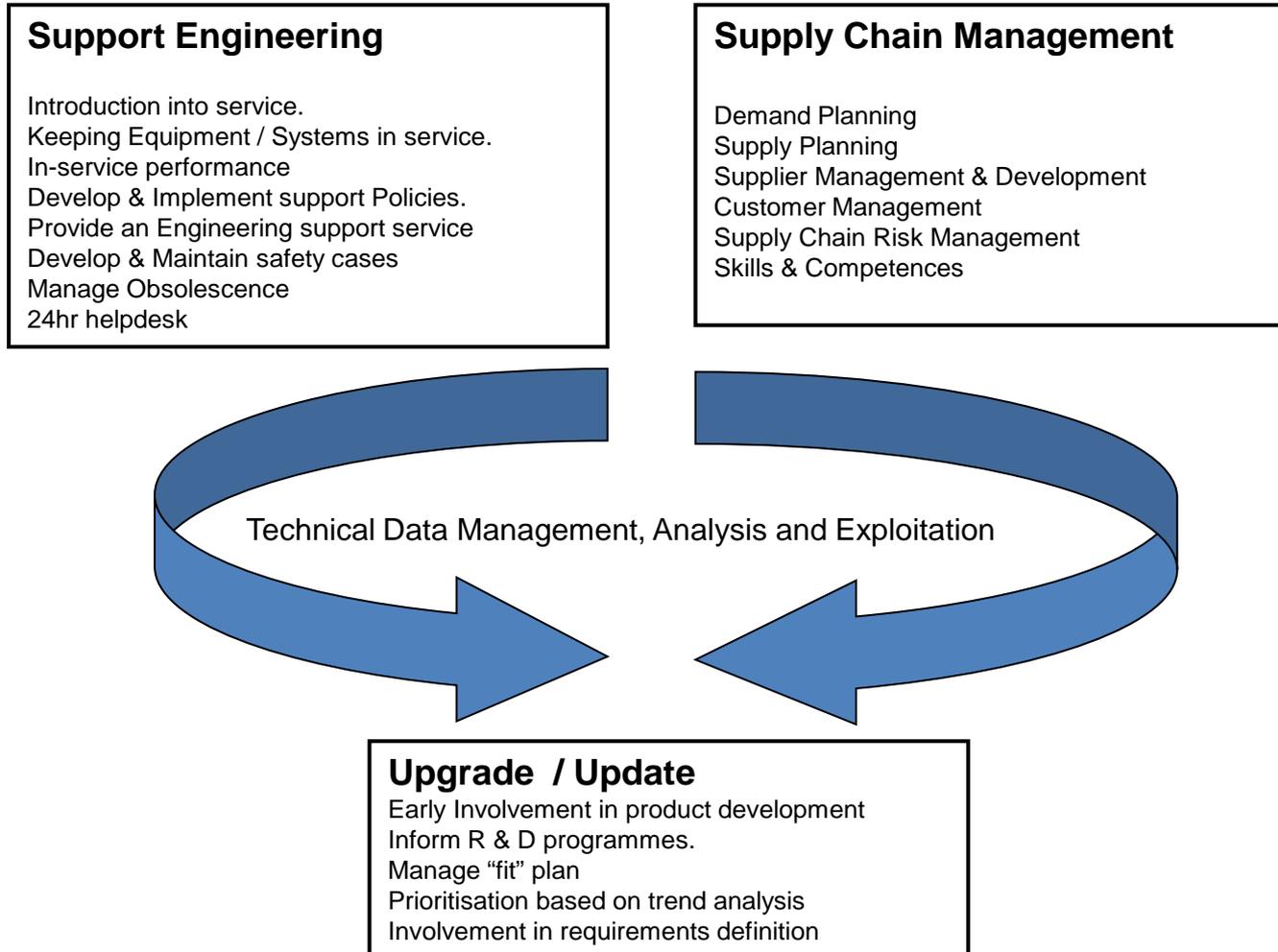


Asset Management

Integration of SCM, SE and Upgrade/Update



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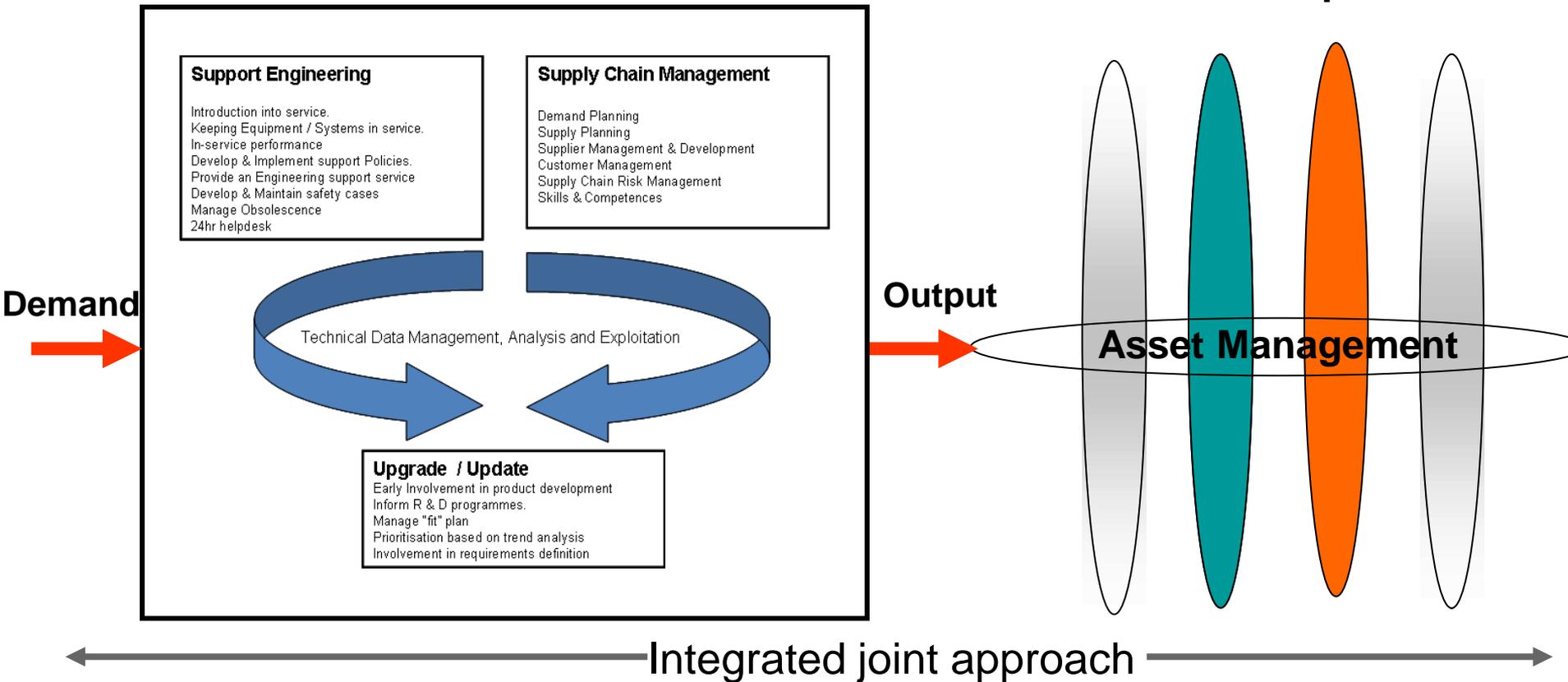


Operating Concept: Asset Management – Platform Output Management focus



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Force Output



Summary



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- Challenges
 - Common through-life standards
 - Recording and collating in-service data
 - Common, available data set across enterprise
 - Culture
- Proposals
 - Integrated Business Planning
 - PAS 55 – Asset Management standard
 - Enterprise Operating Concept

Common Defence and Industry goal ...