

En introduksjon til Babcock

A close-up of the Babcock logo, which is a blue teardrop shape with the word "babcock" in white lowercase letters. The logo is set against a background of orange and red curved lines.

Supporting the Norwegian Defence Force
and the Norwegian defence industry

Kelly Gallagher
Platform Business Development Manager

Babcock Overview

UK's leading engineering support services company



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- Publicly-listed company delivering engineering support services
- Current order book: 116bn NOK
- 2011/12 Revenue: 27bn NOK
- 27,000 employees worldwide
- No. 1 provider of support services to UK Royal Navy
- Tier 1 participant in the UK submarine enterprise

Infrastructure		Equipment		Training
Military estates and bases	Secure data environments	Civil and military vehicle fleets	Nuclear operations	Engineering training
Naval/nuclear facilities	Communication networks	Naval systems	Naval equipment logistics	Apprentice training
Rail track renewal	Power networks	Warships	Submarines	Military training
				Educational improvement

Babcock - Marine and Technology



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- A leading international provider of defence/maritime systems, engineering services and through life engineering management
- Naval, defence and commercial customers
- UK, Canadian & Australian bases, international reach
- Scale – 9,500 people, 9bn NOK revenue
- Key capabilities
 - Through life support
 - Base operations (plus training)
 - Defence communications
 - Requirements, Analysis, Programme & Engineering Definition
 - Naval products & services



Babcock - Marine and Technology

Full life-cycle capability



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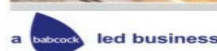
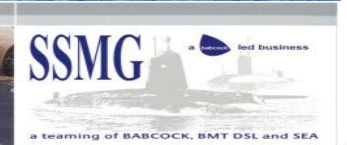
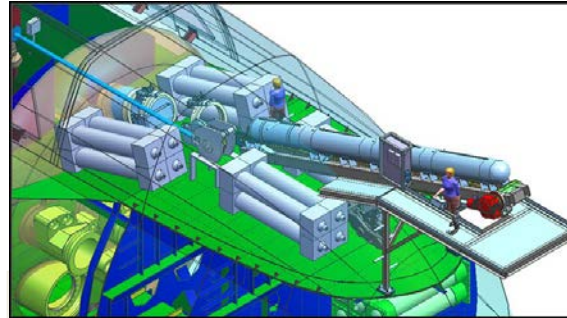


Requirements,
Analysis,
Programme &
Engineering
Definition/Design

Technology
Development /
Demonstrators

Supply Chain
Management &
Integration

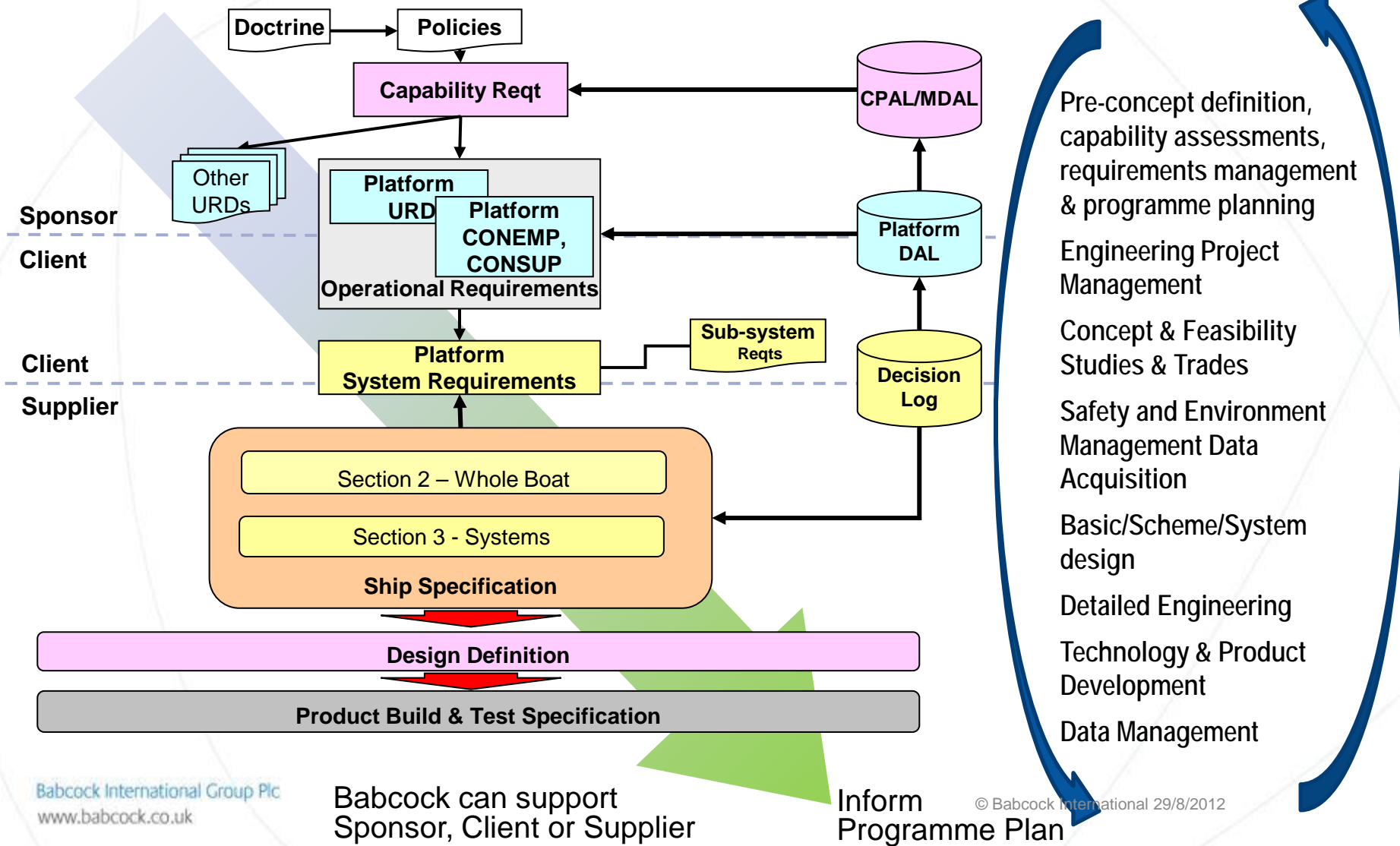
In-Service
Support,
Operation &
Upgrades



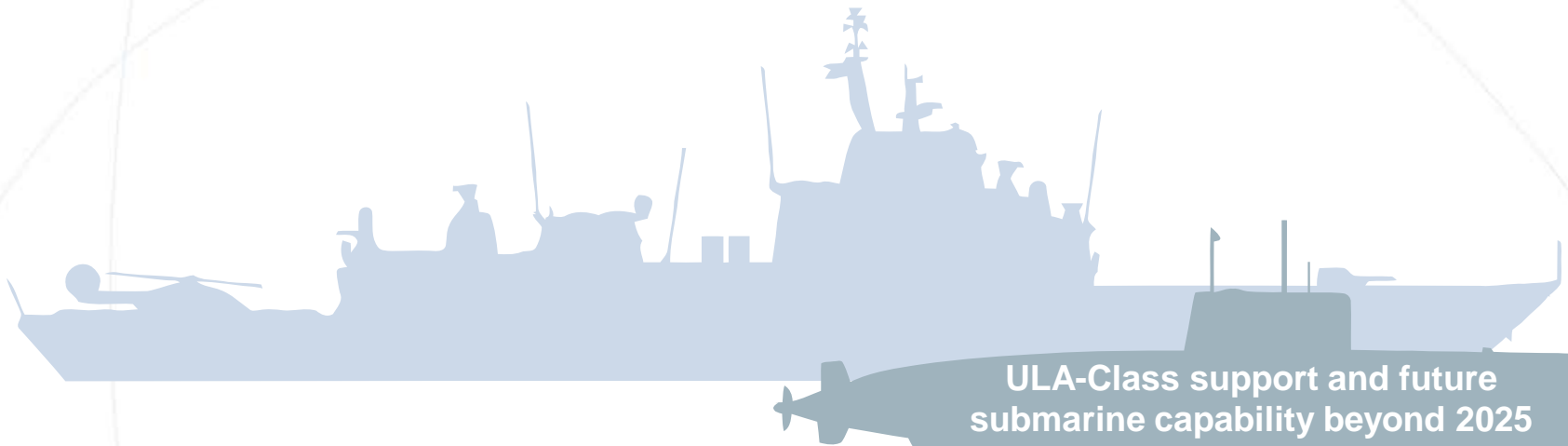
Requirements, Analysis, Programme & Engineering Definition – Shown against Reqts

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Through life support



In-service support

Life extension programmes

Design for support

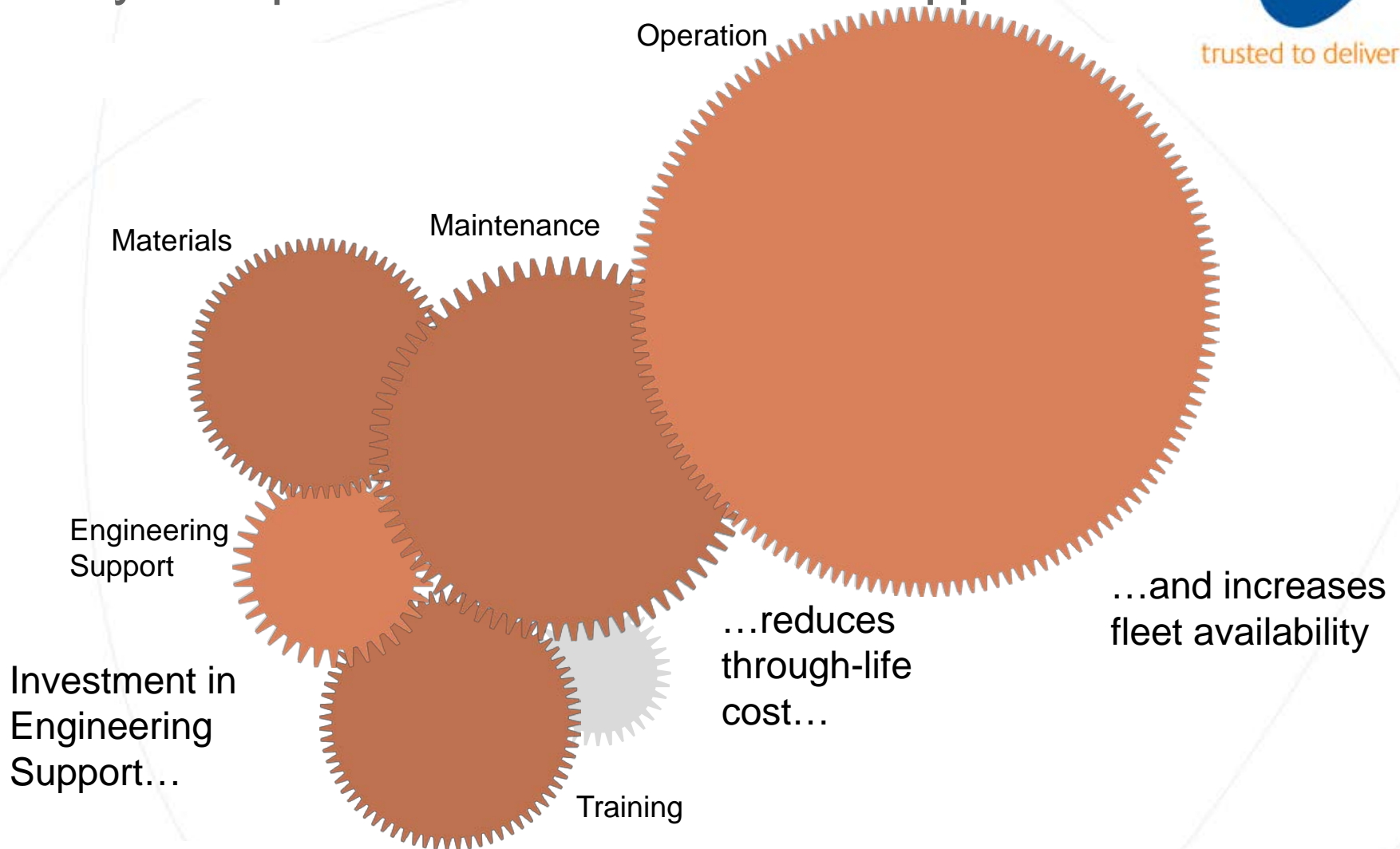
Support partner for 100% of Royal Navy's submarine fleet

Support partner for 75% of Royal Navy's surface fleet

Key components of In-Service Support



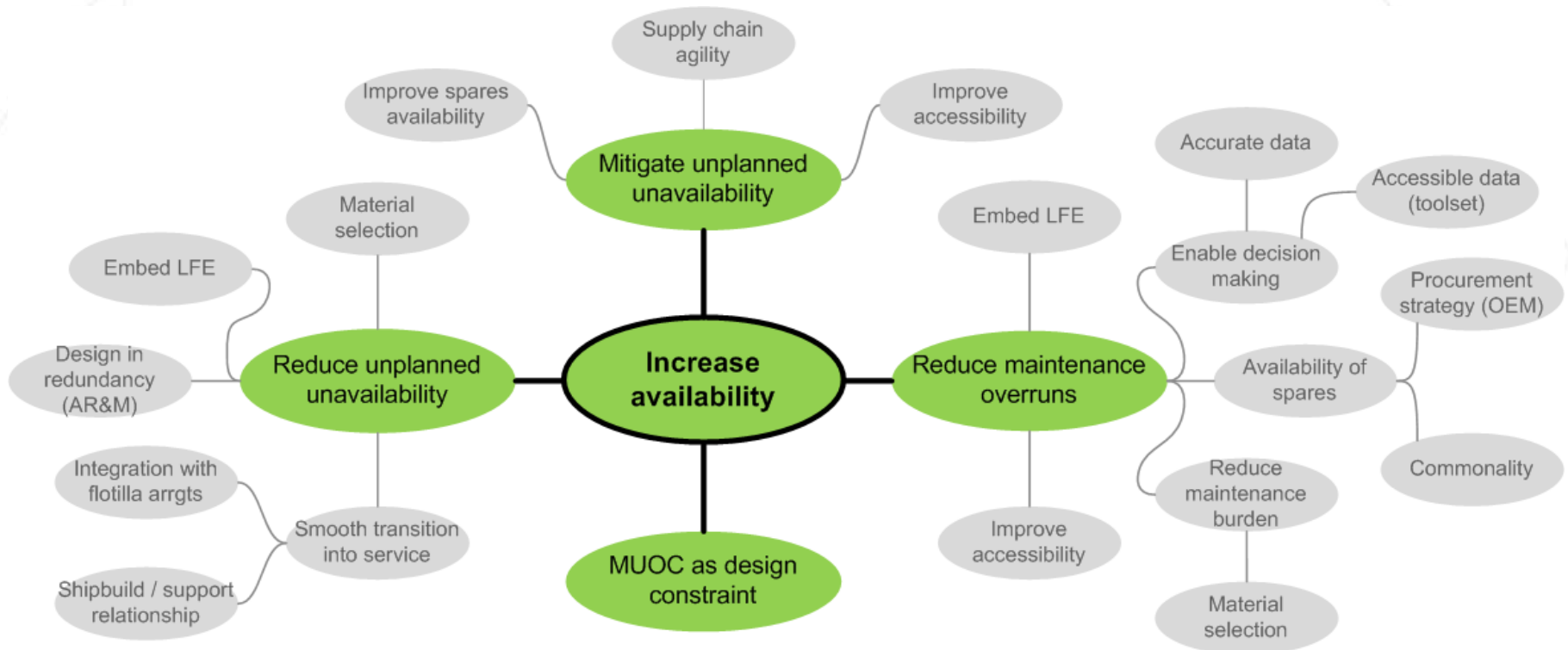
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Cost/ Availability Levers

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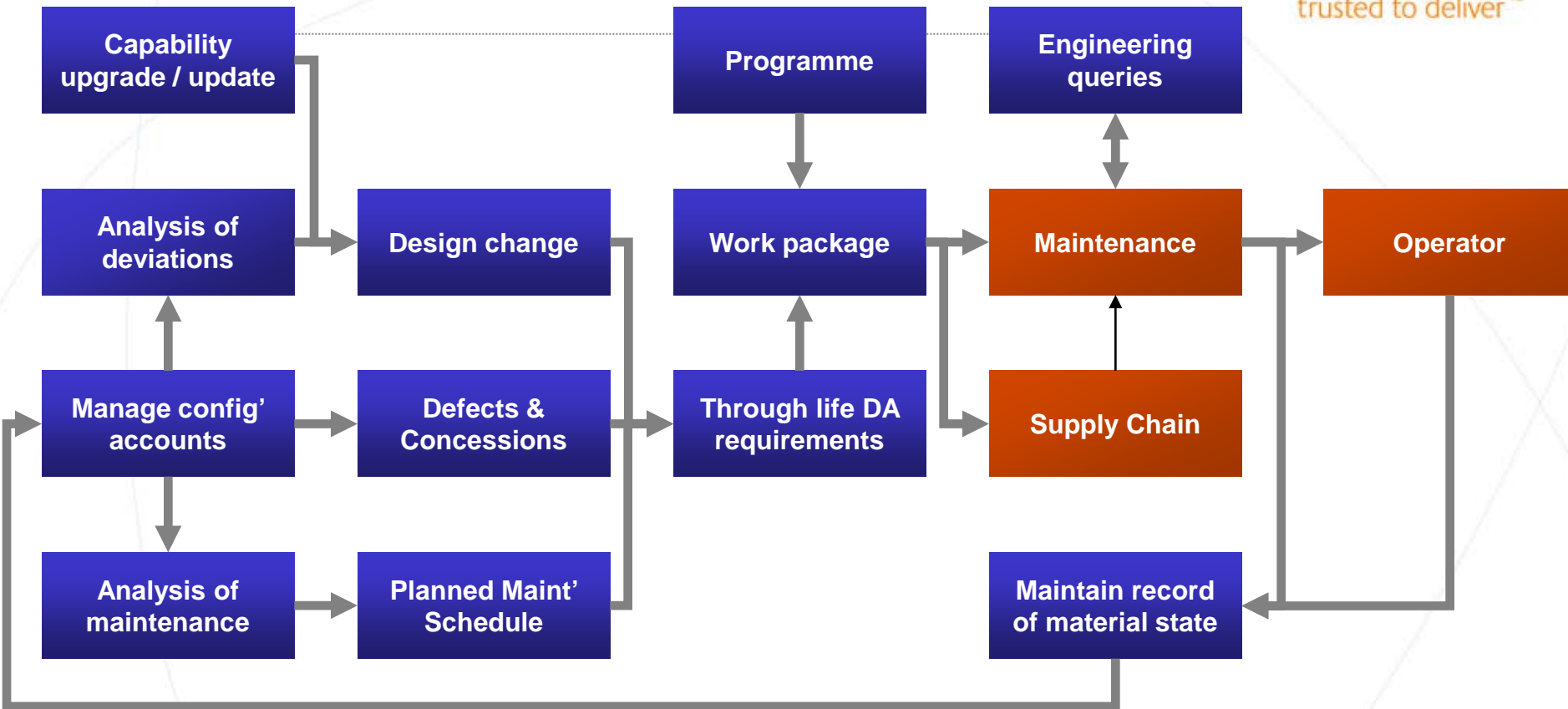
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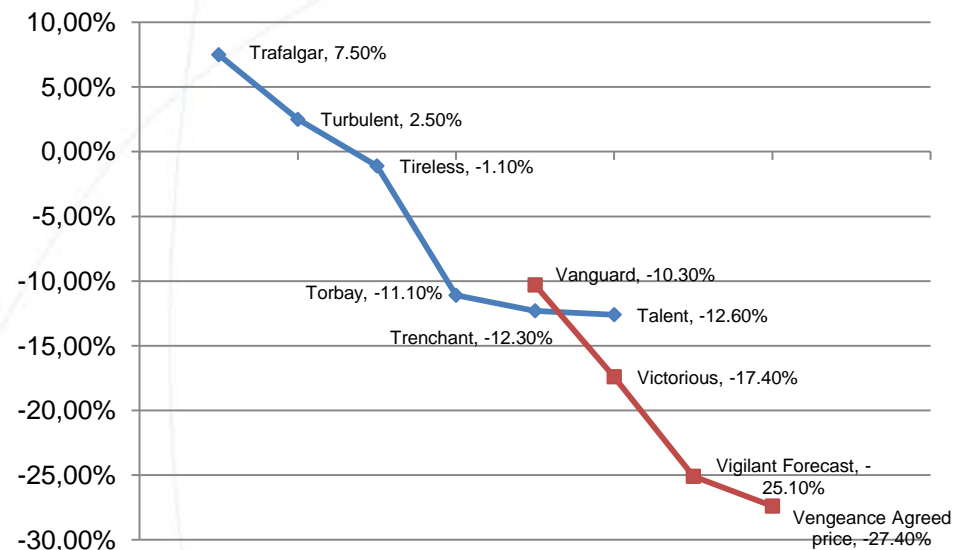
In-Service Support Model



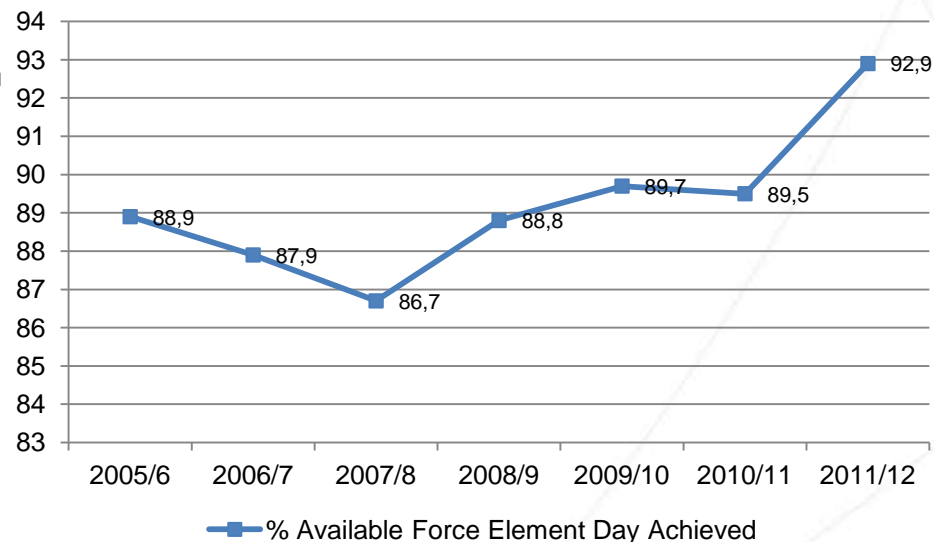
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Realising the Benefits



Refit performance against baseline



Trafalgar Class Availability

Adapting & Exporting the Model (1)

- Babcock has established and is delivering a tailored solution to in-service support for the Canadian Victoria Class SSK, which was won in competition.
- Scope of work:
 - Project management
 - Engineering support
 - Data management
 - Material & logistic support
 - Maintenance support

Through life support



In-service support

Life extension
programmes

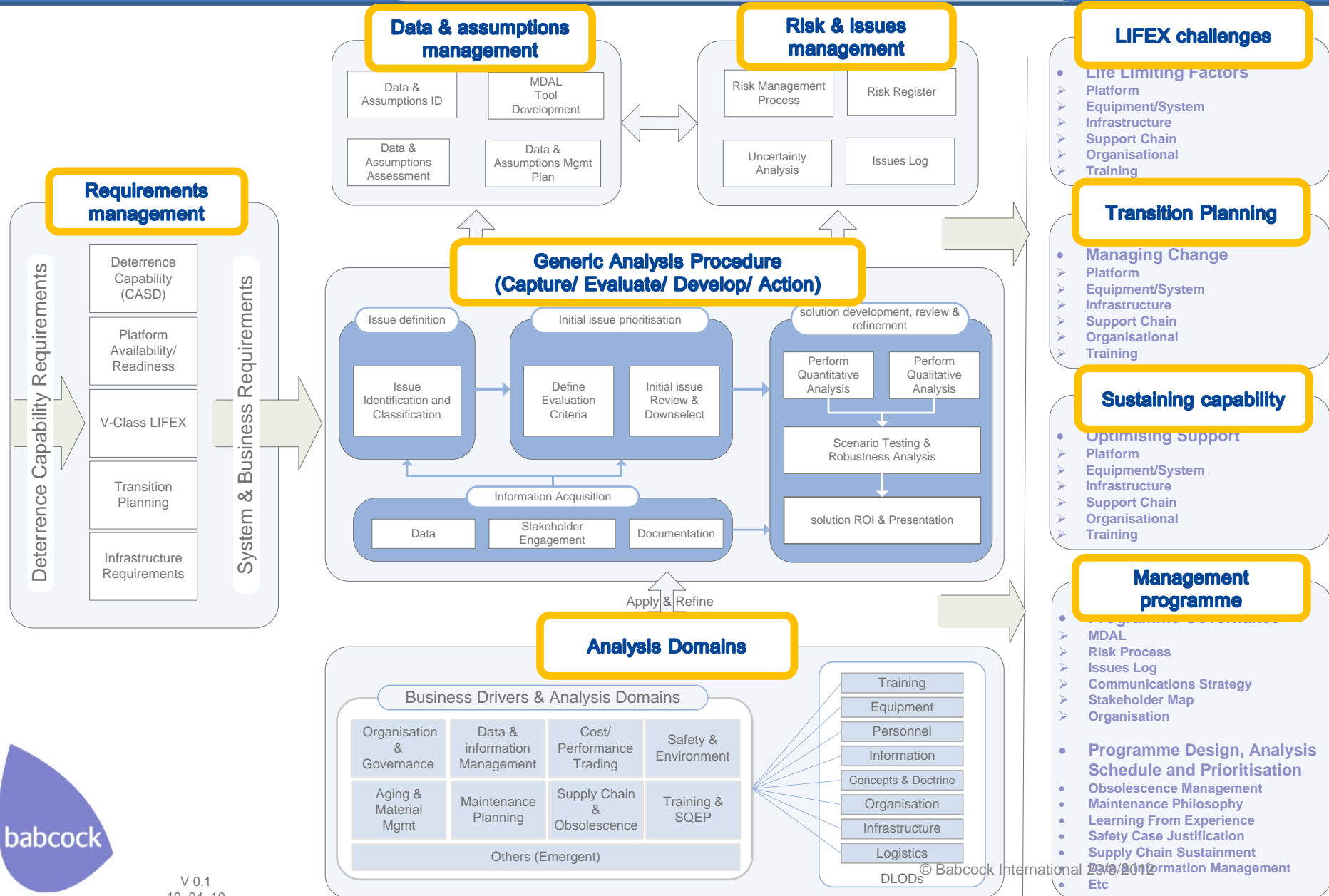
Design for
support

Deterrence Capability: LIFEX, Transition and Capability Management – Concept of Analysis

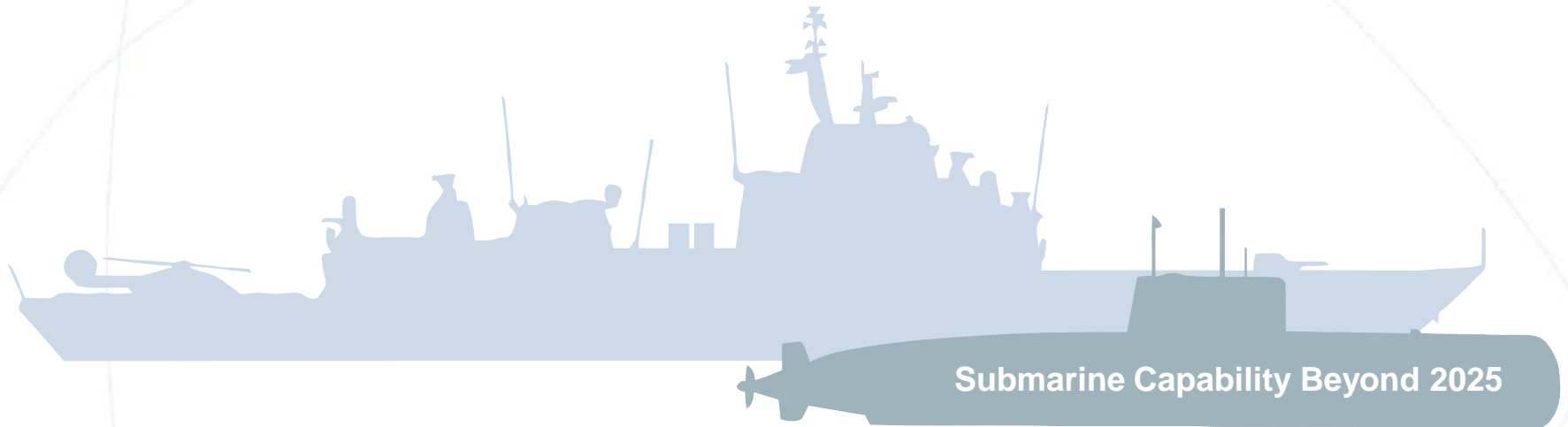
Problem Structuring

Options Analysis & Refinement

Presentation & Assurance



Through life support



In-service support

Life extension
programmes

Design for
support

Design for Support

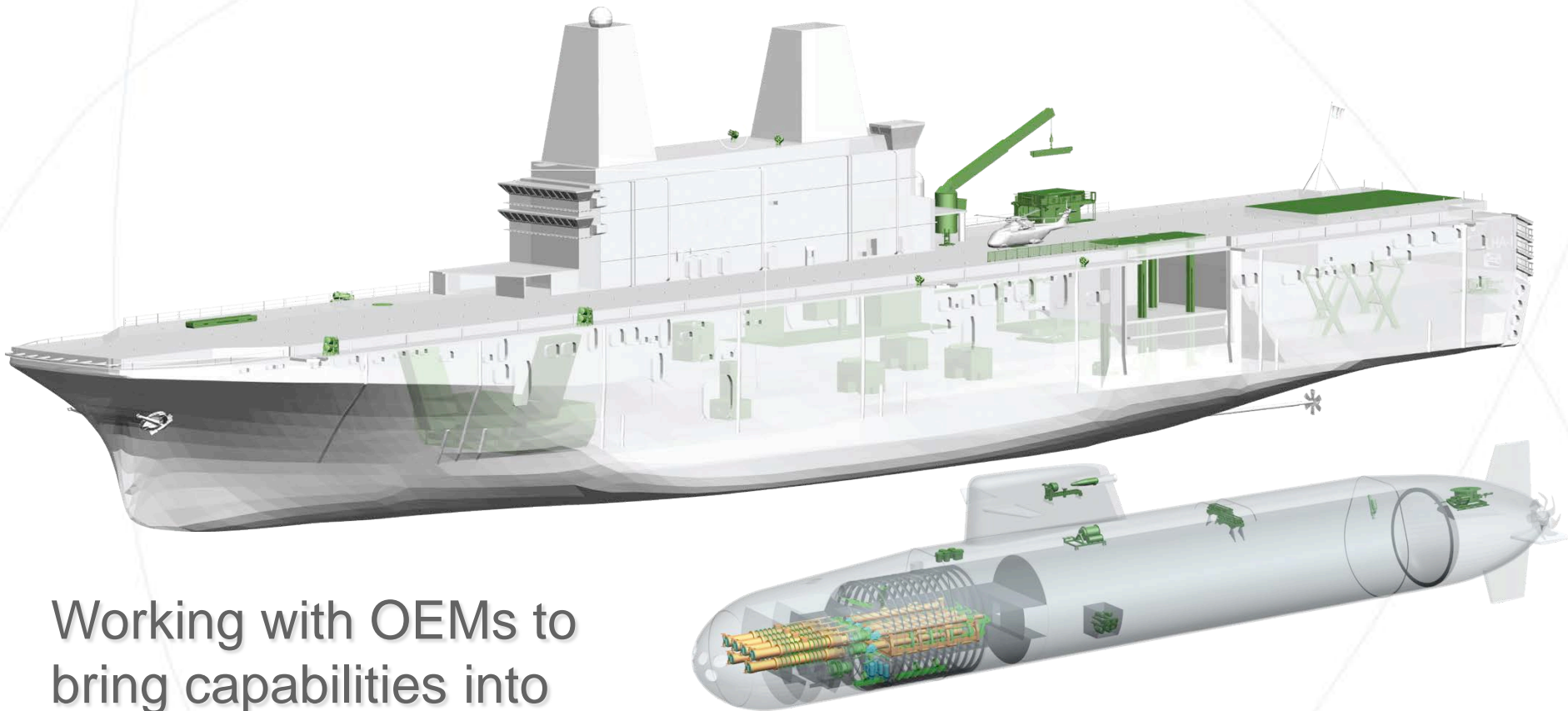
- Process embedded in overall design methodology
- In-service experience captured & actively managed with designers
- In-service participation in design & supplier decision panels
- Supply chain's ILS requirements tailored to ensure that the 'paper boat' matures at the right pace
- Defining the through-life data set, and ensuring that the necessary information generated throughout the design & build process is accessible through-life
- Ensuring consistency with wider maritime support approach



Products & Services

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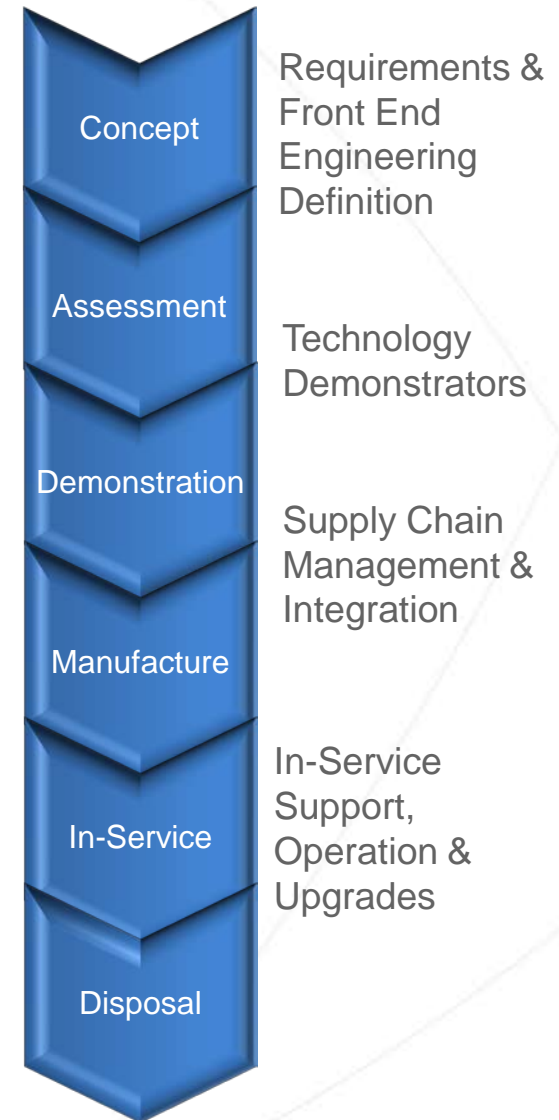
Working with OEMs to
bring capabilities into
service and supporting
them though-life

Systems & Equipment

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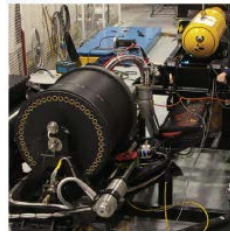
- Full life-cycle capability
- Providing high integrity mechanical & electrical engineered systems for defence customers worldwide
- Solution of difficult multi-disciplinary design, analysis & production challenges
- Delivery of high criticality systems & equipment
- 30 years experience as the design authority for WHLS to the UK MoD



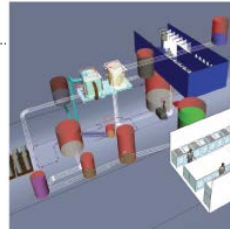
Submarine Capabilities



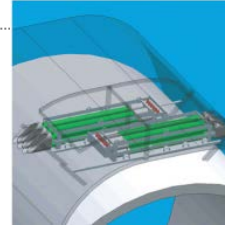
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Comms Buoy
Deployment



Integrated Waste
Management System



Undercasing
Launcher
Systems



Towed Array
Handling
Systems

Control Surface
Actuation



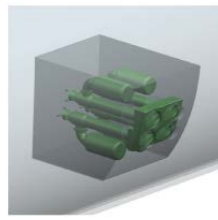
Submarine escape &
Rescue



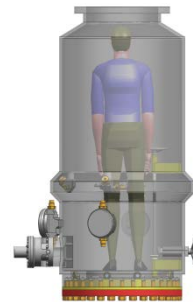
Weapon Handling &
Discharge Equipment



Launch Control
Systems



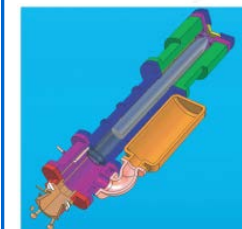
Novel Launcher
System



Submarine
Escape
Systems



High Integrity
pumps



Submerged
Signal Ejectors



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Defence Communications

Providing global reach to military customers using radio frequency (RF) communications:

- Delivering efficient managed services for strategic VLF, LF and HF to the MoD and NATO
- Providing the UK's HF service, enabling savings to the MoD of £1.2m per year by reducing satellite traffic
- Offering a cost effective alternative to the replacement of existing equipment through adopting and upgrading legacy systems without affecting operational capability

RF & Communications System Design

Service provision & outsourcing

Consultancy Services

Frequency Planning & Propagation Studies

Transmitter & Antenna Design Build & Installation

RF Control Engineering

Project & programme management

RF Systems Infrastructure Design & Build

Location Planning

Procurement & logistics

Obsolescence management

Long term operation of critical communication infrastructure

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Technical facilities management

Takk. Eventuelle spørsmål?



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