

babcockTM



Type 31 Programme Briefing

9 October 2020

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- › 10.00 Welcome – John Howie
- › 10.05 T31 Overview – John Howie
- › 10.20 T31 video sequence
 - › T31 Progress
 - › Mobilisation
 - › Supply Chain
 - › Digital Transformation
 - › Customer view
- › 10.35 Q&A
- › 11.00 Close

What we do



We are a leading provider of critical complex engineering services which **save lives, support national defence** and **protect communities**.

We focus on three highly regulated markets – **defence, emergency services** and **civil nuclear** – delivering vital services and managing complex assets in the UK and internationally.



Defence

UK defence

- › # 2 supplier in the UK
- › Ten year £178bn MOD Equipment Plan
- › Growth from long-term programmes
- › Support across Navy, Army, RAF
- › Technology driver of growth

International defence

- › Established presence in Canada, Australia, New Zealand and France
- › Submarine programmes in South Korea and Spain
- › Significant long term growth potential
- › Core member of the UK Defence Growth Partnership





We ensure the UK Royal Navy goes to sea safely
by supporting their ships and crew around the world



We support navies around the world
through the delivery of complex ship and submarine sustainment programmes



We deliver marine technology solutions
to improve our customers complex, safety-critical operations

Marine - A strong UK base with a growing international presence



Rosyth

- › Gas handling systems
- › High integrity manufacturing
- › **Warship build/assembly**

Clyde

- › RN submarine escape training
- › RN Astute Class training

Bristol

- › UK Defence equipment support hub
- › Design & Build (Ashton Vale)
- ›

Portsmouth

- › RN and International training
- › Training content development

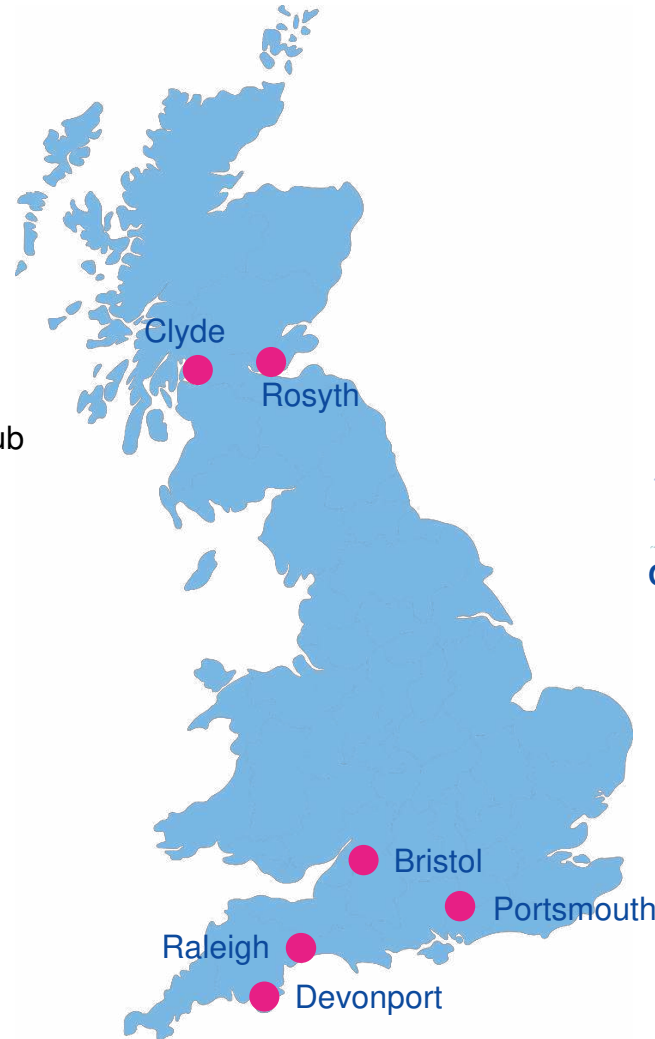
Raleigh

- › Initial RN training

Devonport

- › Warships support
- › Design services
- › Mission Systems
- › Weapons systems

7,000 Marine employees



Canada

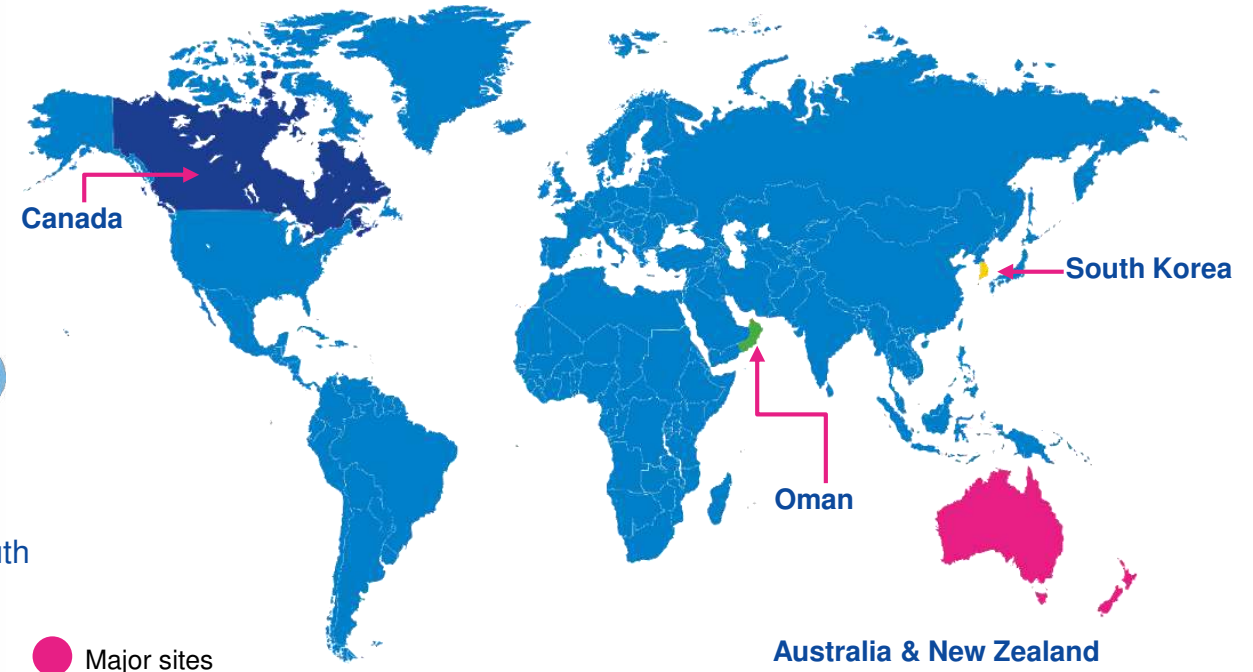
Victoria, Ottawa, Halifax

Oman

Muscat, Duqm

South Korea

Busan





Type 31 Programme

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THALES



T31 Programme Overview



- › Design and Build contract awarded Nov 2019
- › 5 ships delivered by 2028
- › Average Unit Production Cost of £250m per ship
- › Maximise the UK prosperity footprint and export potential
- › Develop as much adaptability, modularity, openness, and agility
- › Achieve a UK focused Design and Build Strategy that maximises UK content
- › E = Exportable
- › Babcock Team31 partners

RN T31 Requirements

Platform that is modular, scalable, open and agile platform with ability to augment capabilities through life.

- › Capability
- › Adaptability for future capability upgrades
- › Exportability
- › Affordable
- › Re-rolling flexibility



RN Operational Requirements

- › Conduct Maritime Interdiction Operations
- › Maintain Situational Awareness
- › Deliver first response HADRO
- › Provide sustained forward presence
- › Deploy & Operate Globally
- › Adaptable for future capability upgrades
- › Information interoperability



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THALES

OMT →



Type 31: Programme Update

- › Proven, Capable and Adaptable
- › Building on Aircraft Carrier success and experience
- › Current spend is in line with programme assumptions
- › Progress is in line with Contract Schedule
- › Investment in Advanced Manufacturing Equipment and Technology
- › Pursuing T31 Frigate export opportunities with UK Government's Defence & Security Exports (DSE) organisation



Development of Type 31

The Type 31 builds upon the already successful Iver Huitfeldt Global Frigate design, incorporating changes to provide a Compliant, and Adaptable Modern platform.



Iver Huitfeldt (Proven Design)

The Iver Huitfeldt provides a proven NATO Standard global Frigate baseline, with 'as built' experience, tests and trials information along with over 9 years operational feed back.

Type 31

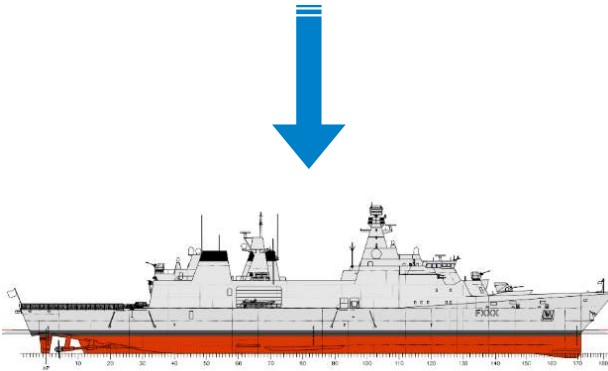
Type 31 pulls through a proven wet design modified to UK MOD requirements while maintaining the platform cost effectiveness.

Changes include:

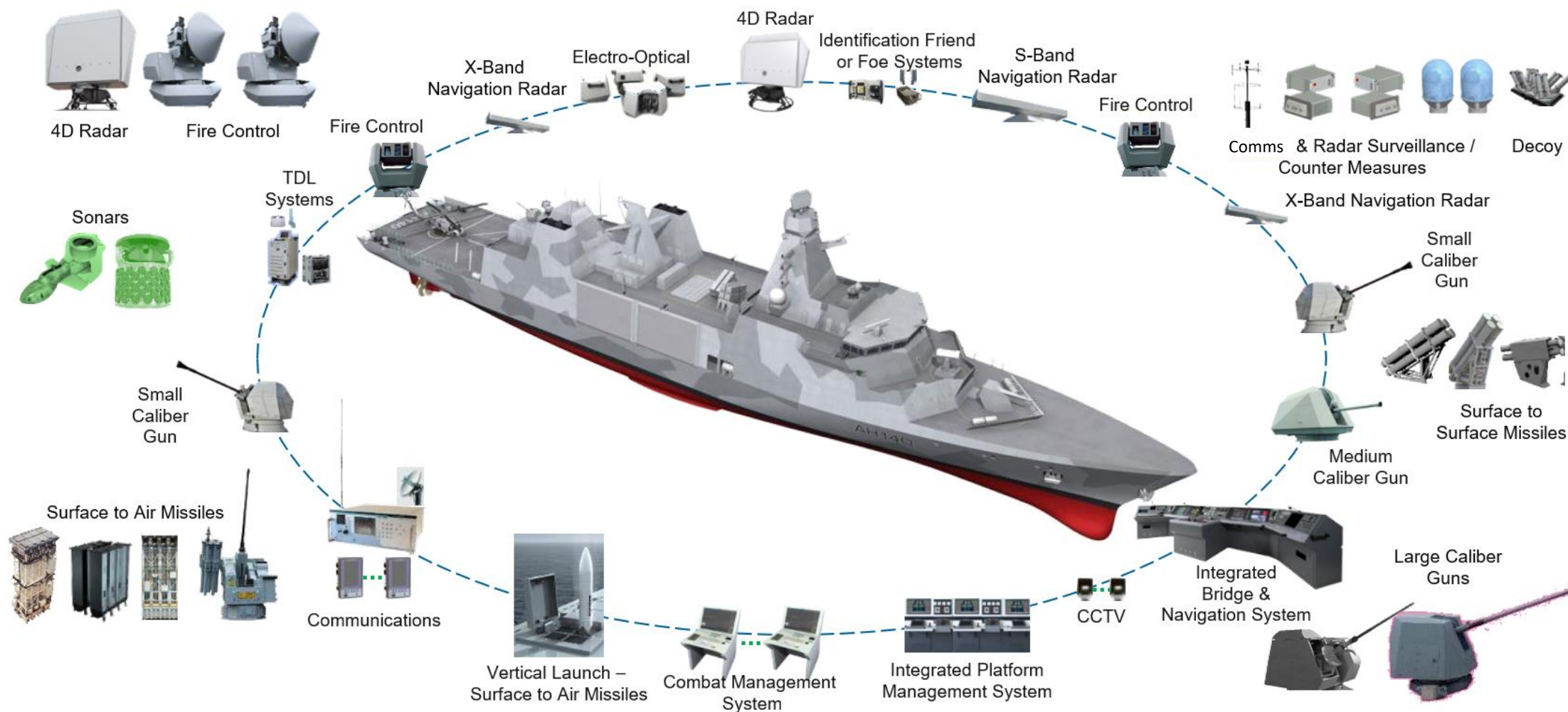
- › RN specific THALES Combat System (TACTICOS)
- › Compliance with UK MOD Safety and Survivability, and latest environmental regulations (e.g. MARPOL Tier III)
- › Additional boat bays

Principal Particulars:

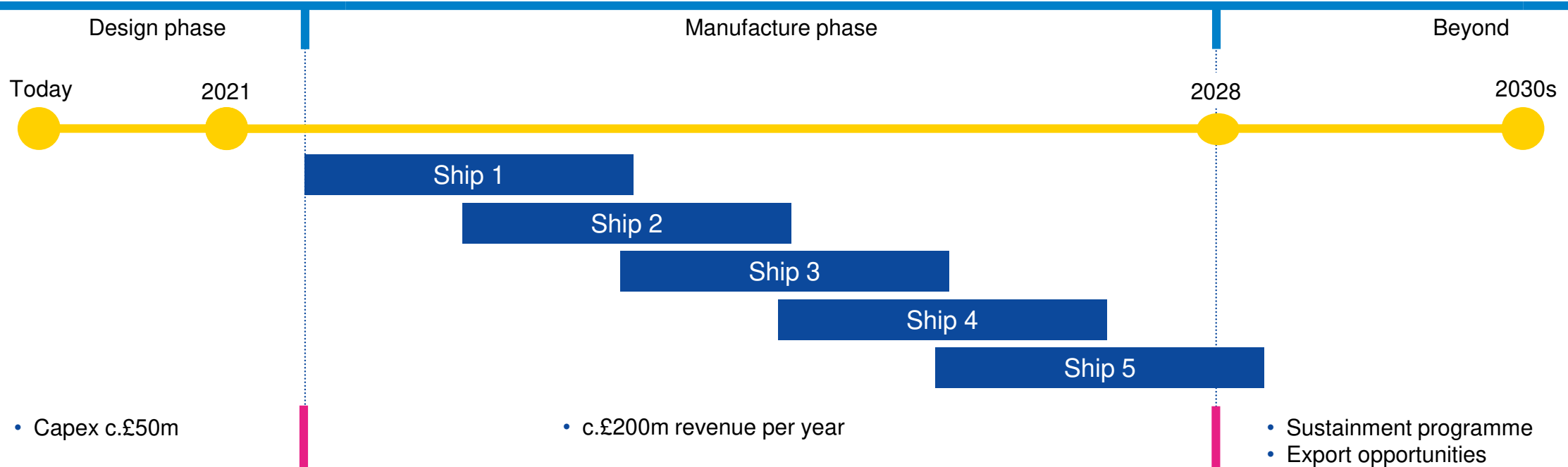
- › Length Overall: 138.7m
- › Beam Overall: 19.8m
- › Displacement: 6,095te
- › Max Speed: >26 Knots



Type 31 Configuration and Options



Indicative timeline

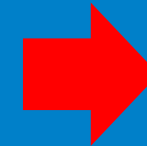


Facilities – Assembly Hall Development



- › Assembly Hall 145m x 58.5m x 40m
- › 2 x T31 ship build accommodation – enclosed, integrated digital compatible facility specification
- › Below ground Civil works concluded July 2020
- › Piling Advance works commenced 24 August 2020
- › Assembly Hall handover to Production – late summer 2021

- › Demolition of buildings occupying New Build Hall site concluded
- › 98%+ of materials recycled
- › On site concrete preparation
- › Pulse line development started
- › Cradle construction now underway



Prosperity & Export – Arising from T31



T31 is a pathfinder UK Warship Acquisition programme for MOD that underpins the National Shipbuilding Strategy – including specific commitments to deliver UK Prosperity, the four pillars of the Prosperity Strategy are:

Supply Chain Development – establishing UK based supply chain capability

- › Capable of delivering for T31 and future programmes
- › Demonstrating UK Taxpayer funds being spent in the UK
- › Competitive sourcing strategy

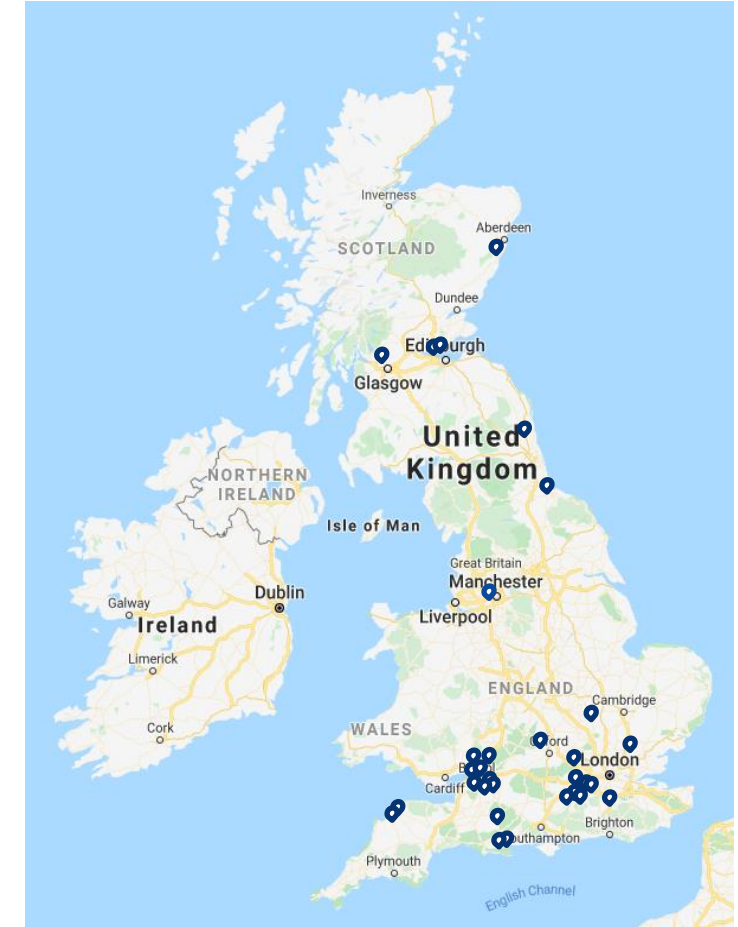
Skills & Industrial Productivity

- › 1,250 direct roles, 1,250 additional supply chain
- › Technical training / Apprenticeships
- › SQEP retention
- › Skills enhancement / re-training for new roles / digital upskilling

Social Welfare – UK based employment

- › Resourcing strategy and employed workforce (Babcock and suppliers)
- › Local community development support – funding and volunteer work
- › Apprenticeships, Non-Employed back to work and STEM support

Export – working with DSE to secure export opportunities



T31 UK Supplier Map

Lessons from previous Ship Procurement Programmes



Challenges	Arrowhead 140 & Type 31
Significant design change leading to production rework	We are using a proven in-service design and have access to a detailed 3D design model
Functional integration of weapons and sensors with the Combat Management System	Thales-supplied TACTICOS is an open architecture system already in-service with 24 navies. The vast majority of weapons and sensors have already been functionally integrated
Weather-related productivity loss	All build and assembly work will be undertaken under cover (except for a few ship's mast lifting operations)
Customer-induced contract changes	This is a no-change contract, deliberately structured to specifically restrict customer change.
Achieving the contract performance standards	Design is proven in-service and has significant margin against all contract performance requirements
Build and assembly complexity	Platform design is optimised for ease of cost-effective build. Programme management team comprised of experienced professionals with Destroyer, Frigate, OPV, and Aircraft Carrier experience

Now let's hear from the experts and
watch our progress....

Q&A Session

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