

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

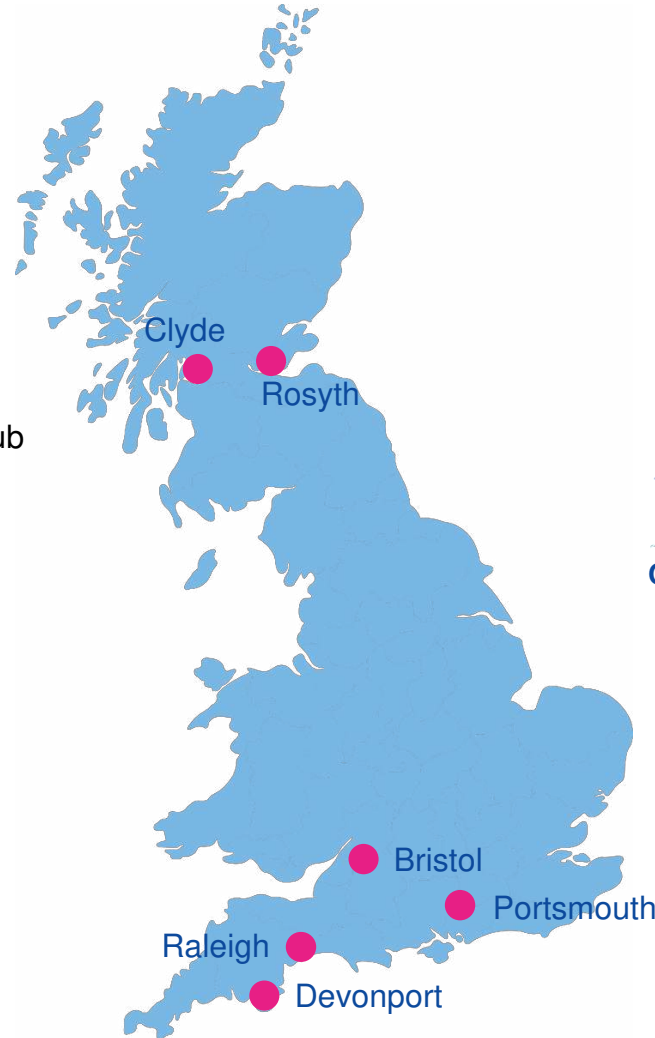
Raleigh

- › Initial RN training

Devonport

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

7,000 Marine employees



Canada

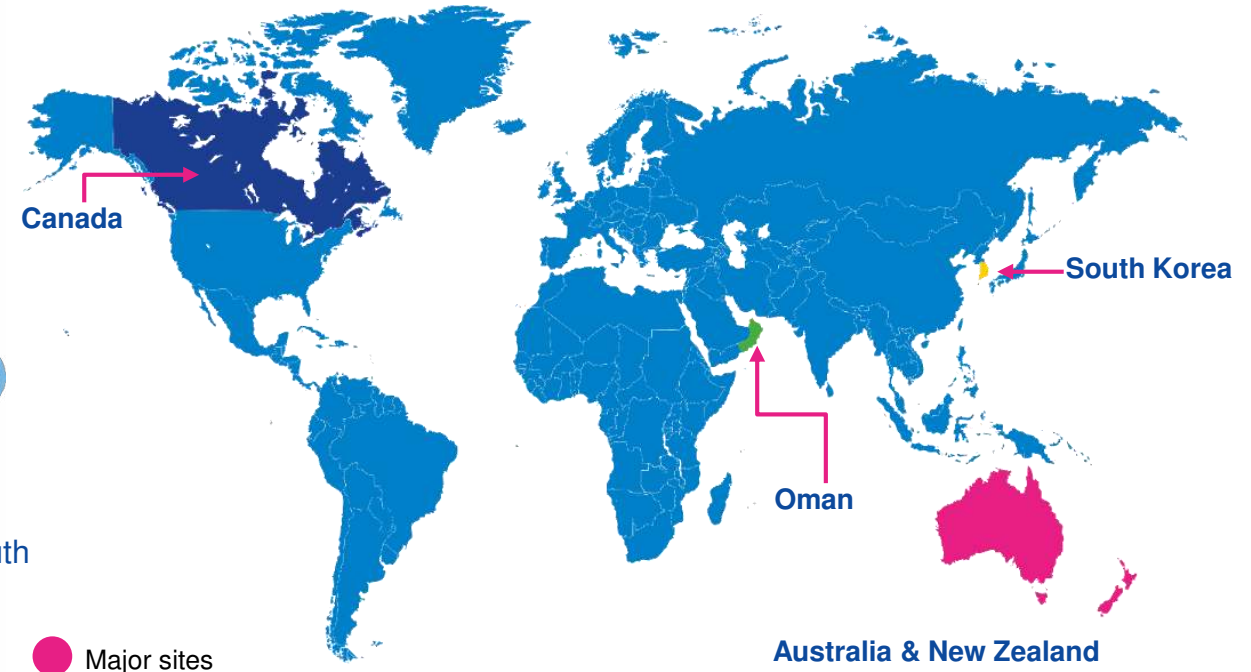
Victoria, Ottawa, Halifax

Oman

Muscat, Duqm

South Korea

Busan



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TEAM31



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

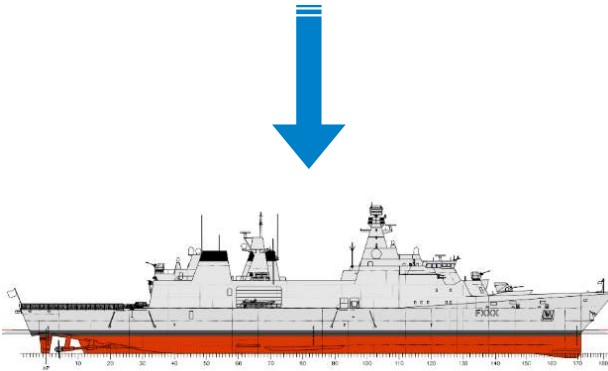
Type 31 pulls through a proven wet design modified to UK MOD requirements while maintaining the platform cost effectiveness.

Changes include:

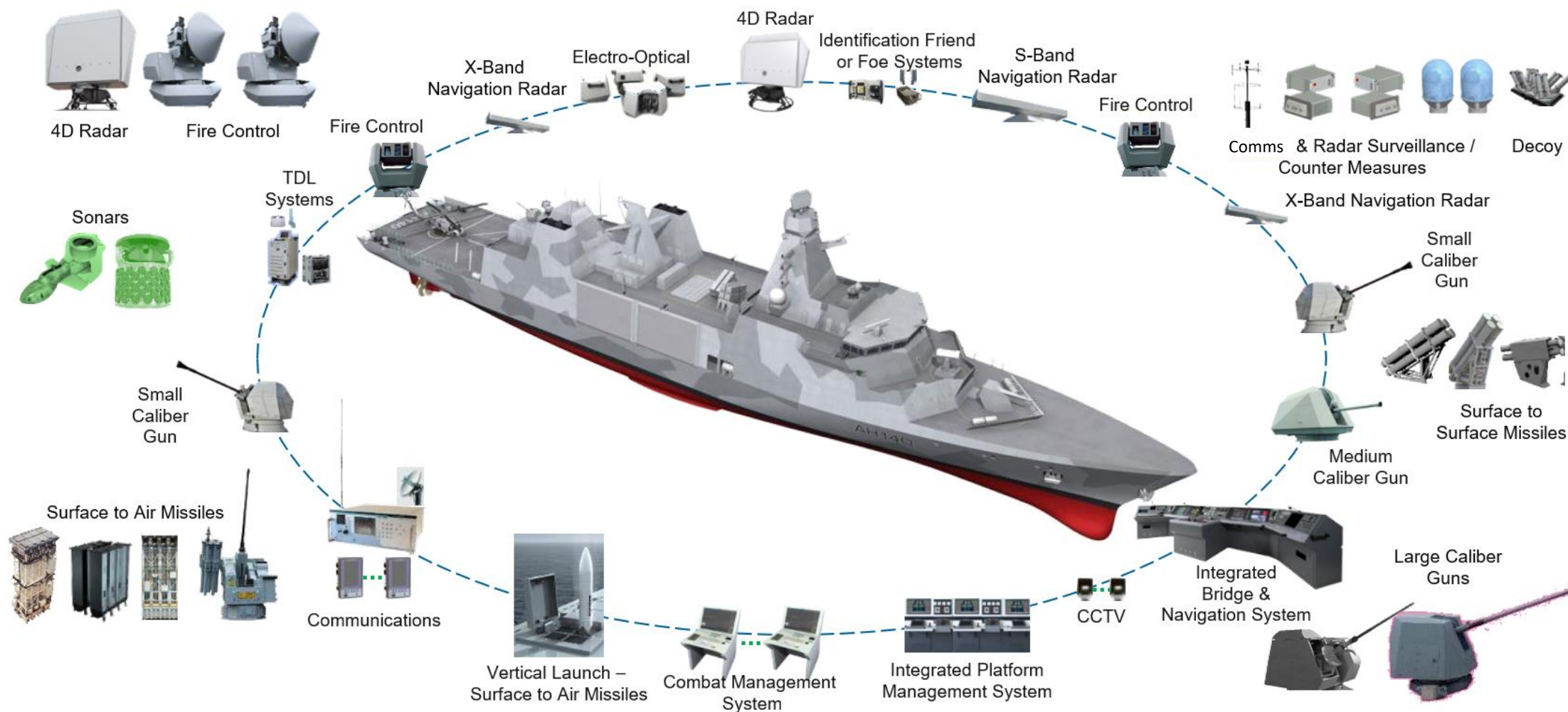
- › RN specific THALES Combat System (TACTICOS)
- › Compliance with UK MOD Safety and Survivability, and latest environmental regulations (e.g. MARPOL Tier III)
- › Additional boat bays

Principal Particulars:

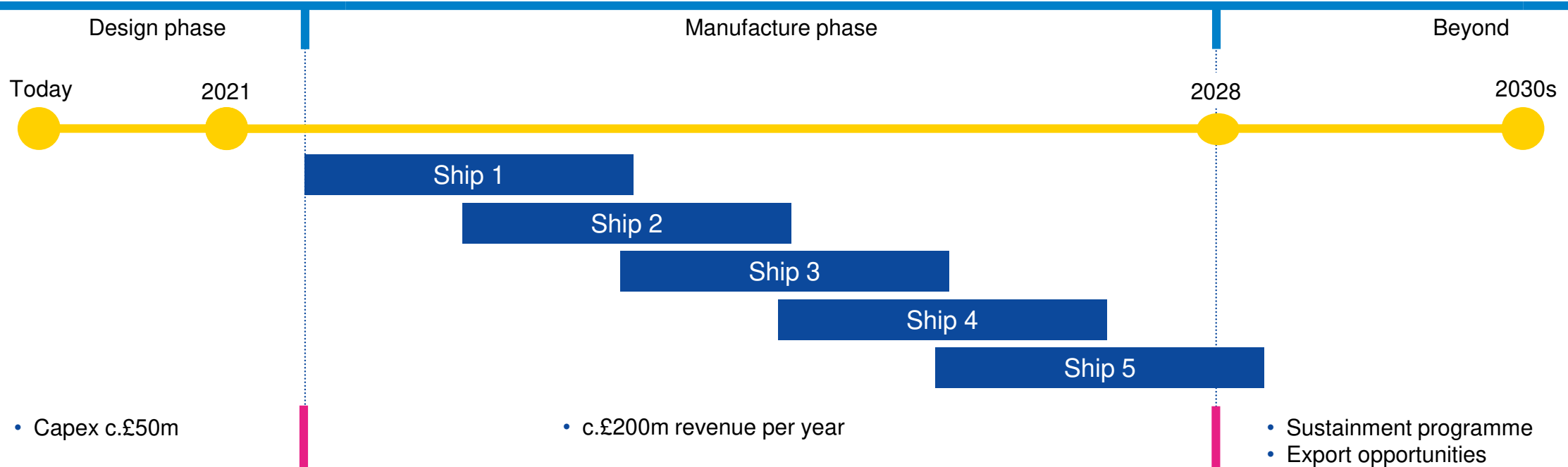
- › Length Overall: 138.7m
- › Beam Overall: 19.8m
- › Displacement: 6,095te
- › Max Speed: >26 Knots



Type 31 Configuration and Options



Indicative timeline

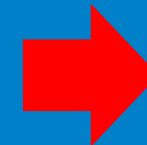


Facilities – Assembly Hall Development



- › 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

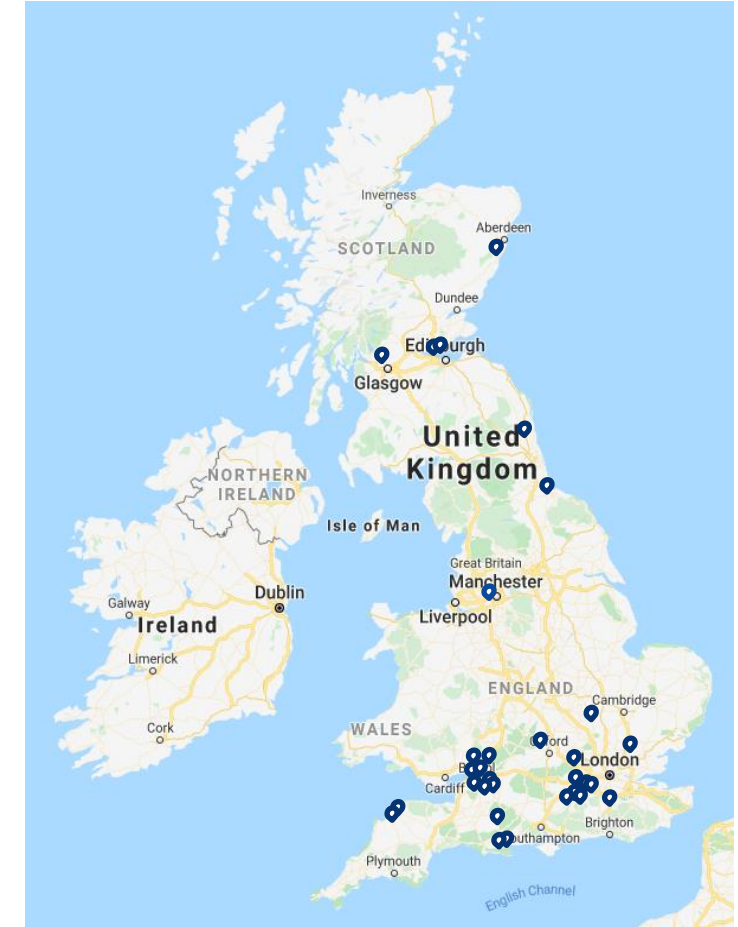
Skills & Industrial Productivity

- › 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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