

# News story: Glasgow engineers scope century of submarine innovation

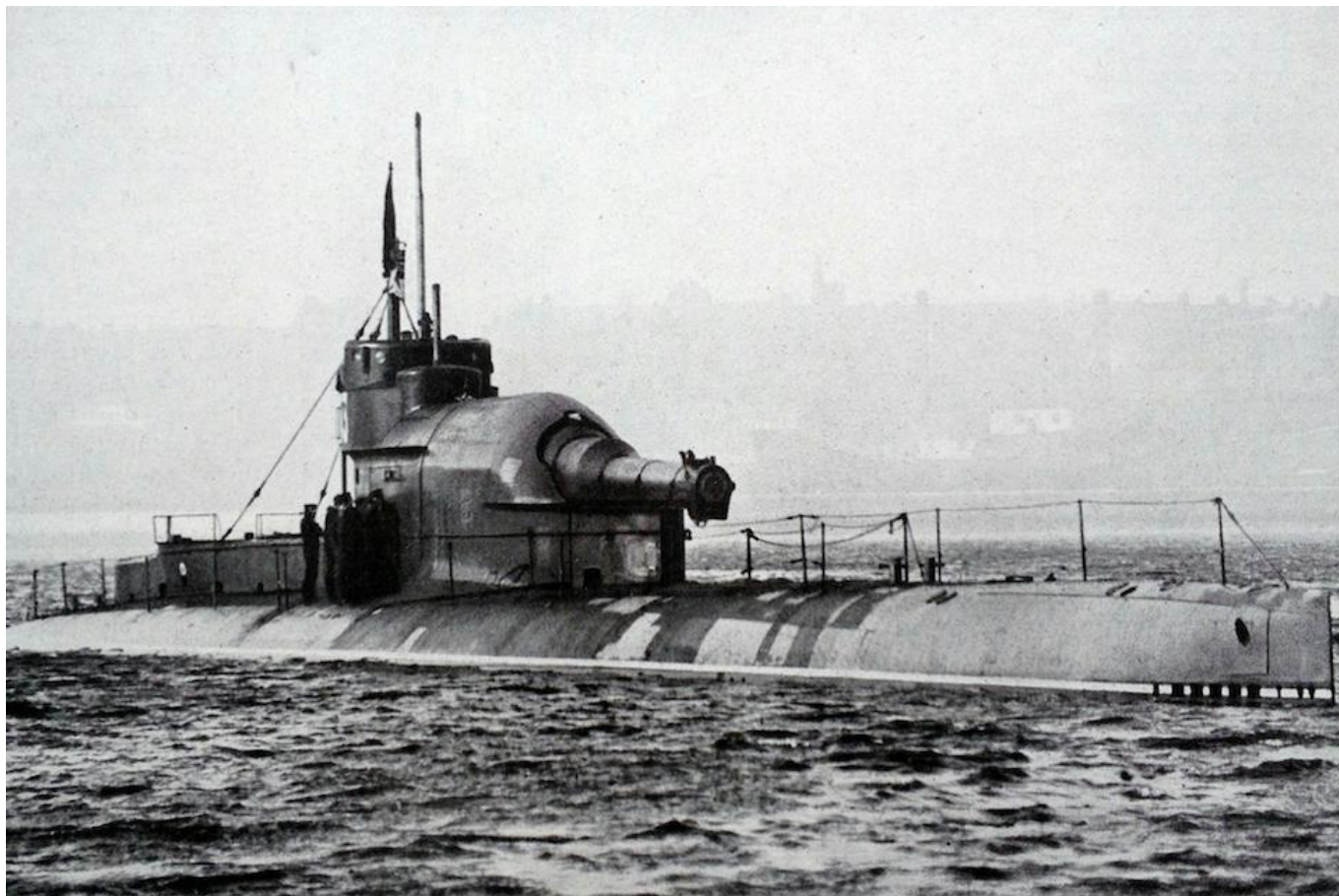
Govan-based [Thales](#) delivered the first submarine periscope, the FY1, to the submarine M3 in late summer 1917. Since then, every class of RN submarine has been fitted with a periscope or optronics mast designed and built by Thales' engineers in Glasgow.

Today Thales' state-of-the-art optronics masts support submarines navigation, warfare and communications systems, including provide thermal imaging and night vision capabilities. The masts can complete a full 360° sweep of the horizon, looking for potential threats, in only a few seconds, providing high definition images of the battle space to commanders before they are detected by an adversary.

**Defence Procurement Minister, Harriett Baldwin said:**

This anniversary marks a proud record of Scottish engineering contributing directly to UK defence and national security by providing the eyes and ears for our nuclear deterrent and attack submarines.

Generations of highly skilled engineers across Scotland have applied battle winning technologies to meet the needs of their UK armed forces, as well as exporting their innovations to dozens of navies around the world.



Royal Navy submarine M3 was fitted with the first FY1 No.1 periscope.

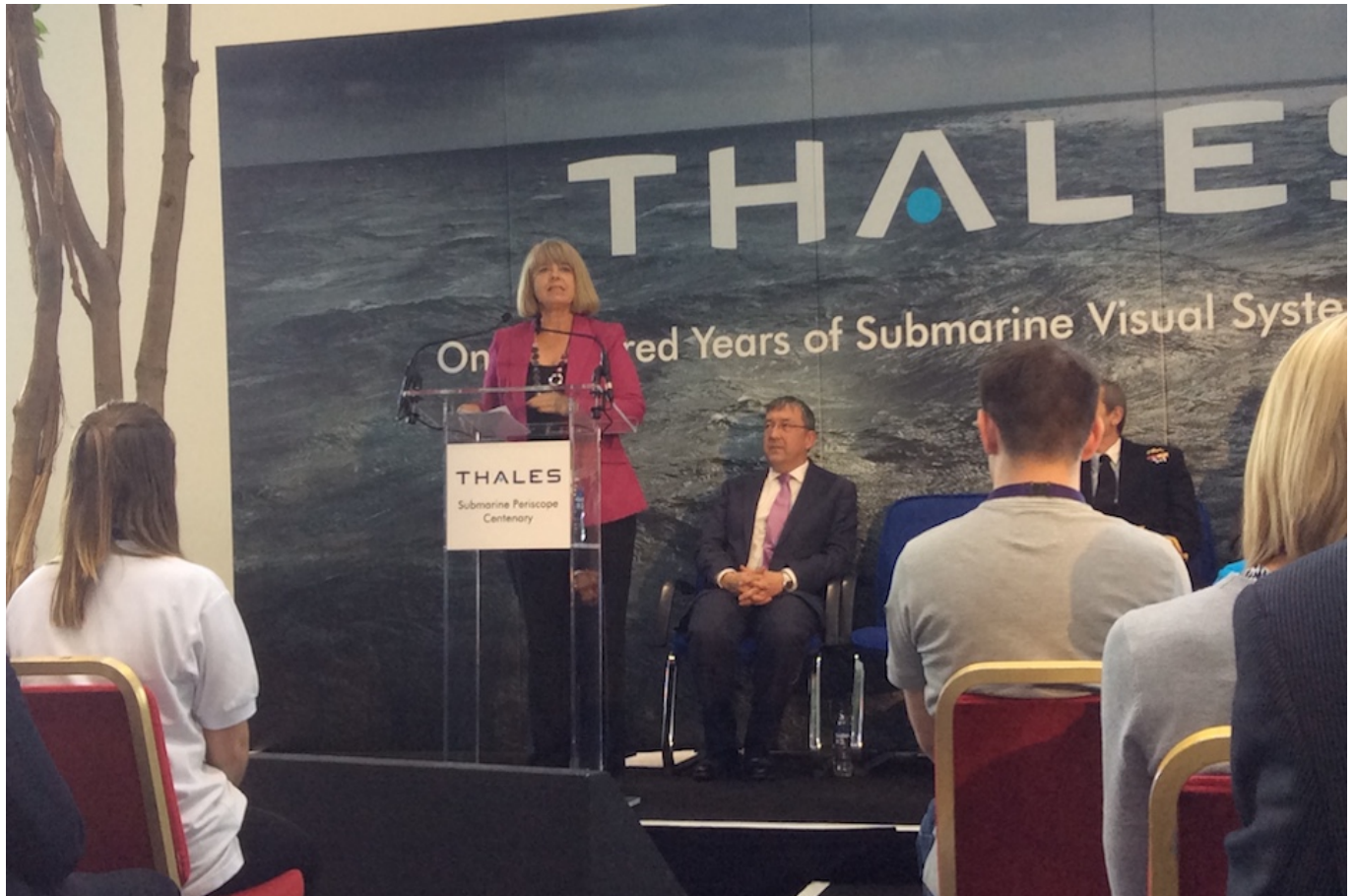
**Victor Chavez, CEO, Thales UK, added:**

Arguably our greatest single innovation was introducing a night vision capability to allow submarines to navigate and gather intelligence 24/7.

However, our latest full remote control, non-hull penetrating optronics systems give naval architects more design flexibility by not restricting them to co-locating the fin and the control room via a 50ft long periscope. These options, combined with the digital inboard control and display system, provide commanders with a leap forward in submarine capability.

Optronics masts are electronic imaging systems and do not penetrate a submarine's hull, but are contained in the conning tower or 'fin'. They are fitted to all seven of the new Astute-class submarines, the first three of which are already in service from HM Naval Base Clyde.

Thales are currently bidding competitively to have their optronics masts procured for the BAE Systems Maritime build of four new Dreadnought nuclear deterrent submarines which will come into service in the 2030s. The company will conduct sea trials of their latest mast in 2018.



Defence Minister Harriett Baldwin speaking at Thales today.

Thales' site at Glasgow has 129 years heritage and currently employs 600 people, mainly very highly skilled technical and engineering jobs, designing and building optronics systems for the Royal Navy, Army and Royal Air Force.

From 2020 Scotland's HM Naval Base Clyde will be home to the entire UK Submarine Service of seven hunter killer and four deterrent submarines.

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## [RAF Typhoons arrive in Estonia](#)

### **RAF Typhoons arrive in Estonia**

The Minister for Armed Forces announces Royal Air Force Typhoons will be conducting a training mission in Estonia.

The Minister for Armed Forces Mark Lancaster TD MP has met the first two Typhoon Fighters from 3 (Fighter) Squadron Royal Air Force to deploy to Estonia to conduct this training mission.

The Typhoon jets arrived to conduct Air Land integration training with the British Army Battlegroup currently deployed in Estonia as part of the NATO Enhanced Forward Presence Operation.

Watch the video [HERE](#)

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## **RAF Photographic Competition 2017: “People’s Choice” public**

### **RAF Photographic Competition 2017: “People’s Choice” public vote opens today**

The annual  
public vote for the ‘People’s Choice’ RAF image of the year opens at  
17:00BST  
today. Members of the public can choose one of nine contenders through [a  
dedicated website.](#)



Images of the  
Chinook Helicopter, the Red Arrows, and the Falcons are among the nine  
images  
selected by expert judges from over 800 that were submitted by RAF  
personnel,  
including both professional RAF photographers and amateurs.

The nine images  
being put to the public were chosen by Marc O’Neill, Night Photographer and  
Light Painter from Digital Noise Photography; the Co-Creative Director and  
owner of Studio MM, Madeline Penny, and former Picture Editor for Barcroft  
Media, Morgan Coates who currently works for LBC News London.



Judge Mark O’Neill said: “Judging this year’s instalment of the  
RAF’s prestigious photography competition was no easy task. The submitted  
photographs are of an exemplary standard and cover a broad range of briefs,  
subjects and photographic disciplines; from front-line action, to heart-  
warming  
portraits.

This wide variety goes some way towards revealing just how  
challenging and diverse a role that the RAF’s Photographers are faced with  
and  
how well they execute it. I must, on behalf of the panel of judges, offer my  
congratulations to all involved in the competition and now eagerly await the  
results of the People’s Choice category.”



The public can  
vote by visiting <http://www.raf.mod.uk/photo-of-the-year-2017>,  
or from next week, by visiting the RAF Museum at Hendon, London and the RAF  
Museum at Cosford, Shropshire. Voting closes at 23:59 on Wednesday, 20  
September 2017, with the awards announced at a ceremony on Thursday, 21  
September 2017.



12 other  
categories were featured in the 2017 RAF photo competition. Winners for  
these  
categories were selected by the judges. The finalists are all available via  
the  
[RAF photo competition website](#):

- The  
Judge's choice RAF image of the year
- Photographic  
section (professional photographers only)
- Technical/Engineering  
(professional photographers only)
- RAF  
Operations & Exercises (professional photographers only)
- Current  
RAF equipment (professional photographers only)
- Sports  
(professional photographers only)
- Personnel  
(professional photographers only)
- Open  
video (open to all personnel)
- Open  
image (open to all personnel)



- ☐

The ☐

Mallett Student Trophy (RAF basic training students at the Defence School of ☐  
Photography only)

- ☐

Amateur ☐

military (non-professional photographers only)

- ☐

RAF ☐

Photographer of the year

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## [News story: New head of alliance delivering nation's Carriers amongst appointments welcomed by Defence Secretary](#)

Admiral Lister will take a sabbatical from his Royal Navy career to lead the Aircraft Carrier Alliance's (ACA) continued delivery of the most powerful warships ever built for the Royal Navy.

The two 65,000 tonne aircraft carriers, HMS Queen Elizabeth and HMS Prince of Wales, will lead the UK's maritime forces for the next fifty years. With the former having now sailed into her home port of Portsmouth and the latter being officially named next week, Admiral Lister will continue to drive the programme forward and guide the second Carrier through to delivery.

Defence Secretary Sir Michael Fallon said:

Following HMS Queen Elizabeth's historic entry into Portsmouth, our focus is now on her final preparations for commissioning and the delivery of our second mighty carrier, HMS Prince of Wales. With his substantial experience, Admiral Lister is the logical choice to keep up that momentum.

Our two new aircraft carriers and F-35 Lightning jets are an investment in British security, prosperity and our global role. They will transform the UK's ability to project power around the

world whether independently or working closely with our allies.

Sir Simon brings his knowledge of complex engineering projects and leadership of major programmes. During his career, he has served as the Royal Navy's Chief Naval Engineer Officer and will leave Defence Equipment & Support (DE&S) where he led the delivery of the maritime equipment programme and fleet support.

Announcing Sir Simon's appointment, Sir Peter Gershon, Chairman of the ACA said:

Simon has extensive knowledge of the Aircraft Carrier programme having been our Vice Chairman since 2013. I'm delighted that he'll take this full time role and wish him every success.

An alliance between the Ministry of Defence and industry, the ACA has brought together the best of British industry, with construction across six cities and involving more than 10,000 people. This includes 700 businesses and suppliers, 800 apprentices and nearly 8,000 jobs at shipyards around the UK.

The role became vacant following the appointment of Ian Booth as the first Chief Executive of the new Submarine Delivery Agency (SDA), which the Secretary of State also confirmed today. Following the successful completion of the first phase of sea trials for HMS Queen Elizabeth and her arrival in her home port of Portsmouth, Booth has been appointed into this critical role, reflecting his proven track record in delivering complex defence programmes.

Booth brings a wealth of public and private sector experience to a key programme for the UK's defence and security. In addition to his previous leadership of the ACA, Booth also previously ran the Typhoon airframe programme and was Managing Director of both the Astute Submarine programme at BAE Systems and the joint venture Fleet Support Ltd.

A key commitment of the 2015 Strategic Defence and Security Review, the SDA was created in April 2017 to focus on building and supporting the UK's nuclear submarines.

Booth will now turn his proven skills to that task of replacing the UK's four Vanguard Class submarines with the new Dreadnought Class – a £31 billion project equivalent in scale to Crossrail – which will provide the UK with its continuous at sea nuclear deterrent for the next 30 years. Booth will also oversee the delivery of the remainder of the powerful Astute Class attack submarines and lead day-to-day support of the existing fleet of Trafalgar, Astute and Vanguard Class submarines.

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# News story: UK agrees new military training programme with France

The Defence Secretary will agree the new programme of UK-French training during his first bilateral meeting with Florence Parly, the newly appointed French Minister for the Armed Forces in Paris later today.

In September, over 1,500 British soldiers from 16 Air Assault Brigade will be joined by troops from 11eme Brigade Parachitiste on NATO exercise Swift Response in Bulgaria, Hungary and Romania. Meanwhile, French troops also plan to join 1,000 UK personnel from 3rd Battalion, The Parachute Regiment on Exercise Askari Storm in Kenya in November, training on the prevention of instability and the spread of violent extremism.

During the visit, the Defence Secretary will also praise the French troops who have been deployed to Estonia as part of the UK-led enhanced Forward Presence battalion in the country since April this year.

Defence Secretary Sir Michael Fallon said:

The UK and France have a long enduring relationship and that will continue as the UK leaves the European Union.

We are deployed together in NATO, fighting against Daesh in Iraq and Syria and training together across the globe.

This announcement is the latest in a string of partnerships that highlight the enduring strength of the UK-French defence relationship.

Earlier this year, the UK and France signed a €100million agreement to develop future long range weapons and are working together on an unmanned combat air system. And as the UK prepares for HMS Queen Elizabeth to reach operational capability in 2020, France is expected to play her part in supporting the Carrier Strike Group, as the UK did with the French carrier Charles De Gaulle in the Gulf during 2015 when HMS Kent was integrated into her task group.

The UK and France also run a personnel exchange programme. Improving how we work together, there are currently over 40 personnel working in reciprocal roles across the three services.

The Defence Secretary has also announced that the RAF Red Arrows will start their European and Gulf tour in France on 15th September, Battle of Britain Day, with a flypast in Cannes.