

Agenda

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Test & Evaluation is core to our vision and strategy

Vision

The chosen partner around the world for mission-critical solutions, innovating for our customers' advantage

Strategy

UK
Lead and modernise the UK Defence
Test & Evaluation enterprise, by working in
partnership with Government and
prime contractors

International
Build an international company that
delivers additional value to our customers
by developing our home countries, creating
new home countries and exporting

Innovation
Invest in and apply our
inherent strengths for customer advantage
in defence, security and critical
infrastructure markets

Value proposition

Capability Generation & Assurance

Capability Integration Threat Representation

Operational Readiness





LTPA – modernising UK Defence Test & Evaluation (T&E)

- Long Term Partnering Agreement (LTPA) contract with UK MOD, c.£320m pa revenue
 - c.£220m pa core capabilities e.g. sites + c.£100m pa project tasks e.g. trials
 - 16 maritime, land, air and weapons T&E ranges and facilities across the UK
 - Delivers critical skills and facilities to generate & assure national defence capabilities
- £1bn contract amendment in 2016 to modernise and operate world-class air ranges and test aircrew training core capabilities with extension to 2028, c.£100m pa revenue
 - £180m investment funded by QinetiQ and recovered from MOD over the contract life
- £1.3bn contract amendment in 2019 for remaining capabilities, c.£120m pa revenue
 - Change to output-based contract to drive efficiency and greater relevance to our customers
 - Underpinned by further £190m investment into infrastructure, equipment and ways of working



Modernising our core capabilities to meet future needs and creating a platform for growth

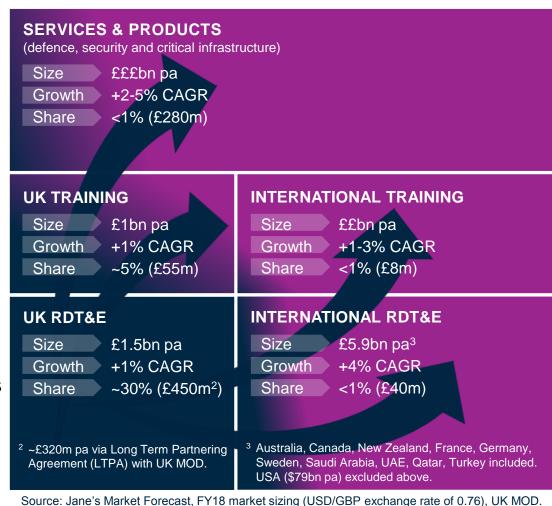


LTPA – creating a platform for growth

- Addressable market > £8bn pa: significant growth potential
 - QinetiQ now positioned as a world-leader in the generation and assurance of military capability i.e. creating, testing & training
- Increasing share in existing UK RDT&E market
 - Focus on delivering major UK Defence programmes
 - Attracting further work from UK and industrial customers
- Leveraging strengths into attractive near-adjacent markets
 - Attracting international customers to our UK T&E capabilities
 - Expanding into UK and International training
 - Delivering indigenous T&E capabilities to international customers

Core to our strategy; enhancing shareholder returns

¹ RDT&E = Research & Development and Test & Evaluation.



QinetiQ market share based on FY18 revenue. CAGR = compound annual growth rate (FY18-22)

future market potential

current market share

Today's speakers



- Joined QinetiQ predecessor Royal Aircraft Establishment in 1985
- Responsible for delivery of the LTPA from 2014 – 2018
- Led the December 2016 LTPA amendment process



- Joined QinetiQ in June 2017
- Responsible for delivery of the LTPA
- Industry experience:
 - CEO, Marshall Defence and Aerospace Group
 - President, Cobham Aviation Services Division
 - Group Commercial Director, BAE Systems Avionics
- Successful delivery of large scale defence contracts:
 - Largest globally privatised aerial surveillance contract
 - Managing integrated combat systems into service for Royal Navy's Type 22 frigate
 - Forming sonar joint venture between Thomson CSF and GEC Marconi



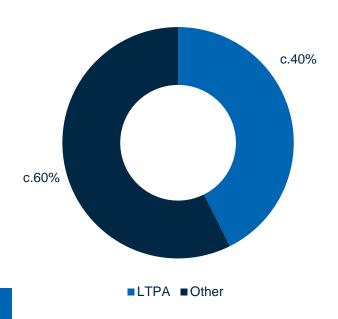
- Joined QinetiQ in 2017
- Responsible for finance and supporting functions within QinetiQ
- Industry experience:
 - CFO, Rolls Royce Holdings
 - CFO, Edwards Group
 - CEO, Jaguar Land Rover Group





The LTPA is a critical part of UK defence capability and QinetiQ

- UK transferred majority of its T&E capability to the private sector
- Contracted with QinetiQ in 2003 through the LTPA
- Covers Land, Maritime, Air, Weapons and Training Support domains
- Facilities operated under the LTPA are highly specialised:
 - Hebrides Air Range largest extendable instrumented airspace in Europe
 - Largest climatic test chamber in Europe
 - Test pilot school one of four globally recognised military test pilot schools
- LTPA capabilities are internationally relevant and attractive



FY18 Revenue

25 year contract

>£300m revenue a year

16 sites 1,800 people Critical to defence capability

A unique UK sovereign capability with international relevance



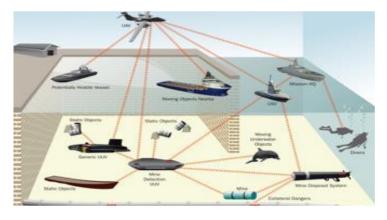
Growth drivers in T&E



Increasing threat complexity

- · Proliferation of low cost threats
- Cyber & Electronic Warfare increasing in sophistication
- Low cost armed drones, short to medium range missiles
- Sophisticated hypersonic missiles & laser weapons

T&E confirms ability to respond



Increasing system complexity

- Military effect delivered through multiple connected systems
- · Vulnerability and risk between interfaces
- Greater information needed for decision making

T&E provides interoperability



Increasing technological disruption

- Accelerating pace of technological advancement
- Innovation driven in commercial sector adopted by defence
- Assurance of system upgrade safety and performance

T&E brings technology into warfighters' hands quicker



UK T&E market supported by significant UK programmes

- Our investment in the LTPA enables us to grow our market share in UK T&E
- Increasing demand for T&E activity driven by significant change in major defence platforms









Generational change in major defence platforms











Modernising T&E capabilities supports our international growth

Maturing Maturing Maturing

Opportunities across the T&E maturity scale

Mature Markets

- Legacy, outdated infrastructure
- New sophisticated platforms
- Complex threat environments to test and train against
- Looking for innovative technical solutions, commercial models and operational efficiencies

Example regions:

- Five Eyes (UK, US, Canada, Australia, New Zealand)
- Western Europe

Maturing Markets

- Have equipment but need support integrating it
- Looking for a "customer friend" and technical support
- Creating competitive operational readiness

Example regions:

- Gulf Region
- South East Asia



LTPA intrinsic to accessing international T&E market

International customer coming to QinetiQ in UK

Use of UK LTPA facilities

- Specialised capabilities, e.g.
 Long Test Track
- Specialised services, e.g. Test
 Pilot training
- Hosting / participating in larger scale international exercises,
 e.g. Formidable Shield



QinetiQ delivering in country

Growing international T&E capabilities

- UK unique in scale of contracting defence T&E
- Opportunities to contract in other countries
- Help create T&E capabilities
- Modernise existing T&E capabilities



Growth drivers

- QinetiQ has a strong position in the UK market
- Test and Evaluation is a growing market globally
- By modernising the LTPA we:
 - 1. Grow UK market share
 - 2. Attract other countries to use our UK facilities
 - 3. Support other countries develop their own capabilities









Aligning the LTPA with customer needs

Pre-2016 LTPA	Modernised LTPA
Availability driven – excess capacity difficult to leverage	Output based – freedom to evolve capability, control investment and deliver greater third party work
5 year repricing – short-term horizon	10 year fixed price – aligned to longer-term horizon
Investment secured piecemeal from customer	Investment secured within the contract
Insufficient investment – facilities not maintaining relevance and risk of obsolescence	Focused investment – delivering relevant capabilities with appropriate returns
Diverging from customer needs	Aligned with customer needs



Creating a world-class capability

To deliver our vision, we adopted a two-step approach to modernisation





Modernising test aircrew training 1

Aim:

Creating world class flight test training

How:

£85m of investment to:

- Update modularised course, enhancing flexibility and embracing modern teaching methods
- Modernise more relevant aircraft fleet
 - 4 x Airbus H125
 - 2 x Grob 120TP
 - 2 x Pilatus PC-21
- Commercial certification increases relevance to non-defence and international customers
- Reducing running costs; increasing competiveness

Now Delivering:

- New course commenced
- Multi-year contracts signed with Dutch and Swiss air forces
- First two commercial customers









Modernising air ranges 2

Aim:

Creating world-class air ranges able to support current and next generation defence capabilities

How:

£95m of investment to modernise MOD Aberporth and MOD Hebrides:

- Radar, telemetry, instrumentation and control systems
- Centralise air-traffic control
- Enhance sites' physical infrastructure
- Delivering efficiencies; increasing competiveness

Now delivering:

- UK MOD work enabling F-35 to enter service
- International customers, e.g. US, Germany, Poland
- Formidable Shield 19, significant multi-nation exercise







Modernising land ranges 3

Aim:

Creating land ranges capable of ensuring the through-life operational safety of weapons and munitions

How:

Investment of £55m into:

- Digitisation to enable integrated data capture and reporting
- Step change in utilising modern instrumentation
- Increase reliability of capabilities such as the Long Test Track and demilitarisation services

Delivering:

- UK MOD work supporting new weapon systems (e.g. Brimstone, Storm shadow)
- International customers (e.g. South Korea, Turkey)
- Novel weapon systems (e.g. lasers)







Modernising platform T&E capabilities 4

Aim:

De-risk the development and certification of next generation of military platforms

How:

Investment of £50m to modernise:

- World-class, high field strength, outdoor electromagnetic range
- Europe's largest climatic chamber
- Centre of excellence for airborne communications system assessment
- UK's Aircraft Flight Test Centre

Delivering:

- Enabling the migration of capability from Tornado to Typhoon
- Supporting Wildcat helicopter, Watchkeeper UAV & Ajax land vehicle
- Engaged with the Tempest (FCAS) to inform 6th generation combat system
 T&E needs







Modernising maritime and signature ranges 6

Aim:

Improve maritime war fighting capabilities

How:

Investment of £85m to modernise:

- Unique signature and in-water range capabilities
- Radar Cross Section (RCS) capabilities to ensure current and future threats can be assessed for maritime and air platforms
- Data management capabilities
 - Big Data
 - Data mining & analysis tools
 - Report generation

Delivering:

- Improvements to the operational performance of current ships, submarines and aircraft e.g. Astute & Vanguard class submarines and Typhoon aircraft
- Supports the development of the next generation platforms including the Dreadnought submarine, T45 destroyer and Tempest (FCAS)









LTPA is the key enabler in delivering our value proposition

Lifecycle Generation After Next **Next Generation** Current Generation Capability Generation & Assurance - integrated Training & Rehearsal Research & Experimentation Test & Evaluation Capability integration Threat representation Operational readiness Team | Group | Joint Systems | Systems of systems Live | Virtual | Cyber Core offerings Delivering operational advantage to Services & Products - distinctive defence, security and critical infrastructure customers e.g. advice, intelligence, information systems, protection, unmanned systems, space systems Technology - disruptive e.g. advanced materials, sensing, communications, cyber, analytics, autonomy, directed energy Understanding Inherent Domain knowledge Academic & industrial Science & engineering future needs strengths & experience partnerships expertise



Research and Experimentation – accelerating the deployment of new technologies

- The LTPA provides an integrated capability to test and prove new technologies:
 - ability to rapidly and safely experiment with evolving technology, creating new capabilities for our customers
- Large scale exercises, enabled by the LTPA, that test the latest technology, provide vital insights into their future deployment:
 - Involving many tens of industry participants
- Growing demand for experimentation evidenced through recent major exercises:
 - Unmanned Warrior
 - Autonomous Warrior
 - Information Warrior





Test and Evaluation – generating and assuring capabilities across platform lifecycles

Previous generation Next generation Generation after next **Current generation** Tornado **Typhoon** F-35 Tempest (FCAS) Supporting R&D Supporting RAF mission T&E of future capability Life extension planning requirements R&D of materials Release to service Missions systems and First live-fire testing in UK of integration expertise Integrating enhanced weapon systems targeting system Support to electronic warfare Training for electronic warfare operations operations Integration of weapon systems Supporting ability to integrate Through-life upgrades, testing with other UK platforms and release to service Airframe extension for older aircraft



Training and Rehearsal – complex systems require integrated assurance solutions

- UK Carrier Strike Group (CSG) consists of HMS Queen Elizabeth class aircraft carrier accompanied by escorts (2 x frigates, 2 x destroyers, 1 x submarines), support vessels and multiple aircraft:
 - Aircraft used will be a mix of both UK and US Marine Corp F-35 jets
- By 2021 the MOD needs to have trained and assured that all these platforms can operate together against the likely threats they will face
- QinetiQ investment allows this to be delivered through a combination of live, synthetic and virtual assets and threats
- December 2016 investment into modernising air ranges has established a commitment for the next decade from the US Navy for the Formidable Shield series of exercises
 - Large scale exercises to test and exercise NATO task groups in ballistic missile defence
 - US Navy customer investing alongside UK to increase the complexity of exercises ensuring realism and relevance
 - Further introduces QinetiQ's capabilities to a wide range of international customers
 - Engagement through Formidable Shield has attracted new work from Canadian and Polish navies
 - Provides precedent for MOD work in support of Carrier Strike Group



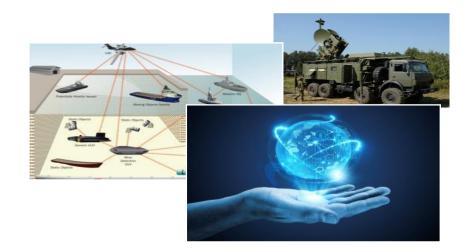






Strategic benefits to QinetiQ

- LTPA supports our ability to grow in an >£8bn market with the need and pace for T&E driven by increasing:
 - threat complexity
 - system complexity
 - technological disruption
- Securing the amendment and investment to modernise enables QinetiQ to grow its market share through use of the UK LTPA facilities to:
 - deliver greater experimentation
 - deliver current and future UK programmes
 - attract international customers
 - undertake complex multi-asset, multi-service, multi-national exercises
 - leverage into attractive near-adjacent markets e.g. training
- LTPA gives QinetiQ credibility to support growing international T&E capabilities in other countries
- Delivers appropriate returns to shareholders









LTPA secures over >£300m per annum of revenue

Revenue is split between "non tasking" and "tasking" activities

Non-Tasking

- QinetiQ is paid to sustain and keep relevant the capability and deliver a volume of outputs
- Revenue agreed until 2028
- Pricing locked at 2016/17 and 2019/20 SSRO rates
- Contractually defined

Tasking

- Utilisation fee
- QinetiQ is paid to undertake a task or activity under the LTPA
- Historically contracted and delivered in year
- UK MOD work subject to prevailing SSRO pricing
- Demand driven

	Average Revenue p.a.	Pricing	Fixed / Variable	Investment
December 2016 - Non Tasking	c.£100m	2016/17 BPR + Adjustments	Pricing fixed until 2028	£180m
April 2019 – Non Tasking	c.£120m	2019/20 BPR + Adjustments	Pricing fixed until 2028	£190m
Tasking activities	c.£100m	Prevailing in year BPR + Adjustments	Variable	
Total	c.£320m			



LTPA is priced based on Single Source Regulations Office (SSRO) pricing

• Baseline profit rate (BPR) is subject to a series of adjustments to build up to a contracted profit rate (CPR)

Contract rate step	•	Baseline profit rate (BPR)	Cost risk adjustment: +/-25% x BPR	SSRO funding adjustment	Incentive adjustment	Capital servicing adjustment
2019/20	Rates	7.63%	+/- 1.9%	-0.042%	Up to 2.0%	Fixed capital - up to 4.0% Working capital - up to 1.2%

- Move to output based model supported by 16 years of experience
 - Rigorous 18 month process
 - Thorough modelling of both operating and investment cost base
 - Thorough analysis of uncertainty modelled on a "Monte Carlo" basis
 - Built on deep understanding from prior years operations

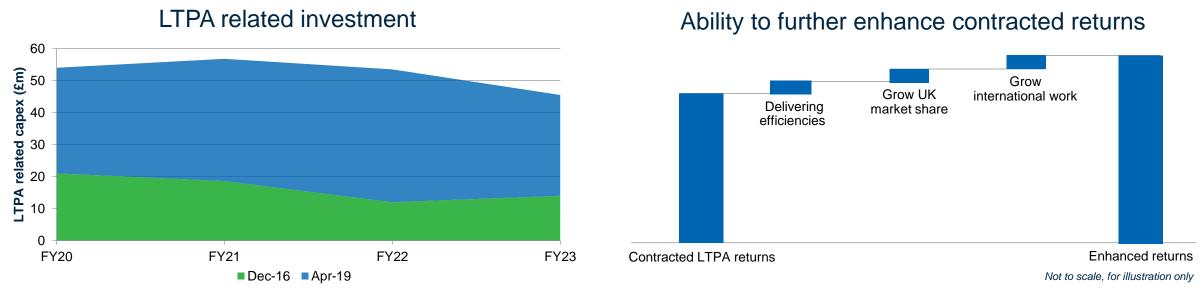


We applied our rigorous approach to capital allocation

Opportunity **Project Assessment Evaluation** Monitoring Plan evaluation Key metrics Market and pricing **NPV** Organic opportunities evaluated Cost plan assessed and risk-adjusted for execution risks Overall assessment of **IRR** Inorganic risk and returns of project Follow-up and Investment opportunities compared to risk-adjusted tracking during life of requirements assessed WACC prior to project and risk-adjusted **ROA** commitment **Broader factors** Organic and inorganic considered, e.g. opportunities commercial terms, evaluated with same inflation, reputation, Cash Profile rigour and approach overall project risk



Clear plan for investment and visibility on returns



- Amendment adds £190m of investment through to 2028
- Between FY20-22 LTPA capex £50-60m/annum, overall Group capex £70-100m/annum
- Investment recovered over life of the LTPA depreciation of LTPA-related assets is an allowable cost
- Delivers clear contracted returns on investment above our cost of capital
- Ability to further enhance contracted returns

Value for money and enhanced capabilities for MOD – appropriate returns for QinetiQ's shareholders



Delivers appropriate returns



Secures £1.3bn of revenue and pricing until 2028



Combined with December 2016 amendment, grows our total backlog to in excess of £3bn



Clear, contractual returns that are appropriate for level of risk we are taking



We can enhance this return by delivering efficiencies and growing level of work with MOD and international customers



Investment supports our ability to grow, e.g. world-class facilities, more cost efficient

Increased capability and value for money for MOD – appropriate returns for QinetiQ's shareholders





LTPA – delivering strategic benefits to UK MOD and QinetiQ

Better outcomes for customers	Driving growth in our business
Secures the UK's critical T&E capabilities	 Secures £1.3bn of revenue bringing total backlog to over £3bn
 Modernises capabilities to better meet future needs 	Reinforces our position at the centre of UK defence
Embraces digital technologies and "big data"	Enables investment with clear visibility on appropriate returns
Achieves cost efficiencies delivering greater value for money	Provides a strong platform for growth from UK and international customers

Positioning QinetiQ as a world-leader in the generation and assurance of military capability



QINETIQ