

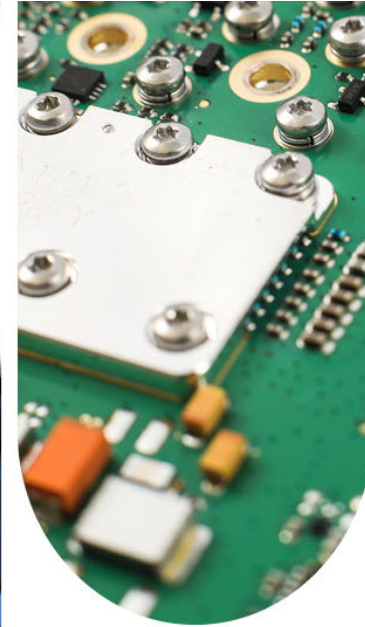
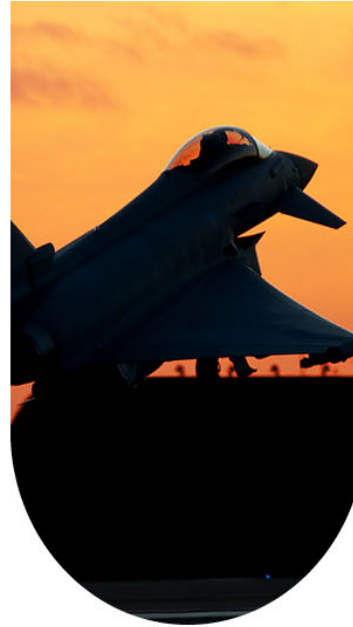


Interim Results

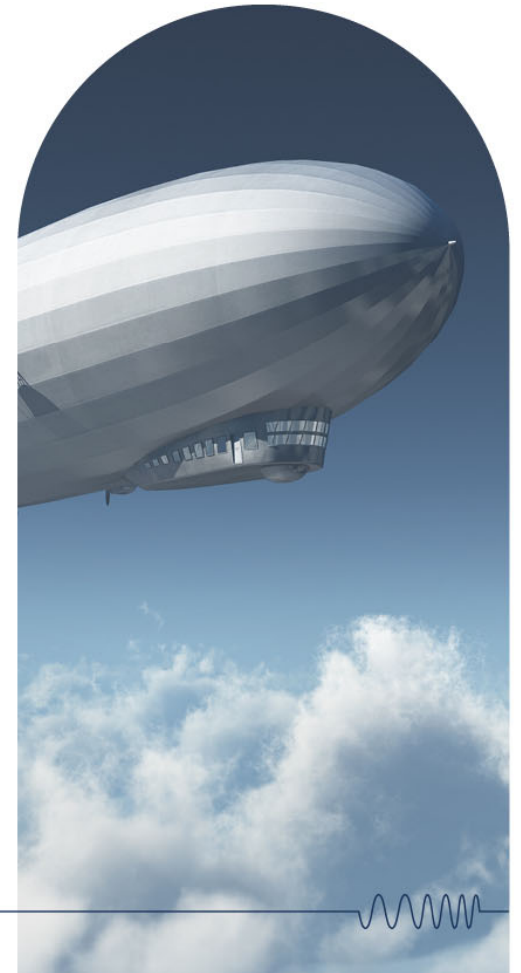
for Financial Year to 30 November 2021

Richard Gibbs, CEO
Michael Tyerman, CFO

[filtronic.com](https://www.filtronic.com)



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3. Operational Review
4. Strategy & Growth Update
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Enabling the future of RF Microwave and mmWave communications

Creating value for our stakeholders
through technology leadership

Executive Overview



Overview

Filtronic plc is a **designer** and **manufacturer** of advanced RF communications products serving five core markets:

Telecommunications
Infrastructure (X-Haul)



Aerospace &
Defence



Critical
Communications



Transport &
Private Networks



Space /
*HAPS/LEO



- HAPS: High Altitude Pseudo Satellites
- LEO: Low Earth Orbit Satellites

RF design expertise at microwave frequencies up to 180GHz

Specialist manufacturing of RF Subsystems and mission critical hybrid assemblies

We deliver high-performance solutions based on:

- Flexible UK / USA manufacturing resources allowing OEM's to quickly scale to volume
- Accredited manufacturing facilities with robust security, proven processes and full traceability
- Order fulfilment options which include turn-key design and manufacturing, inventory hub and kitting

Half Year Highlights

Revenue
£8.0m  (+12%)

Adjusted EBITDA*
£1.1m  (+83%)

Adjusted operating profit**
£0.6m  (+554%)

Cash at bank
£3.0m  (+5%)

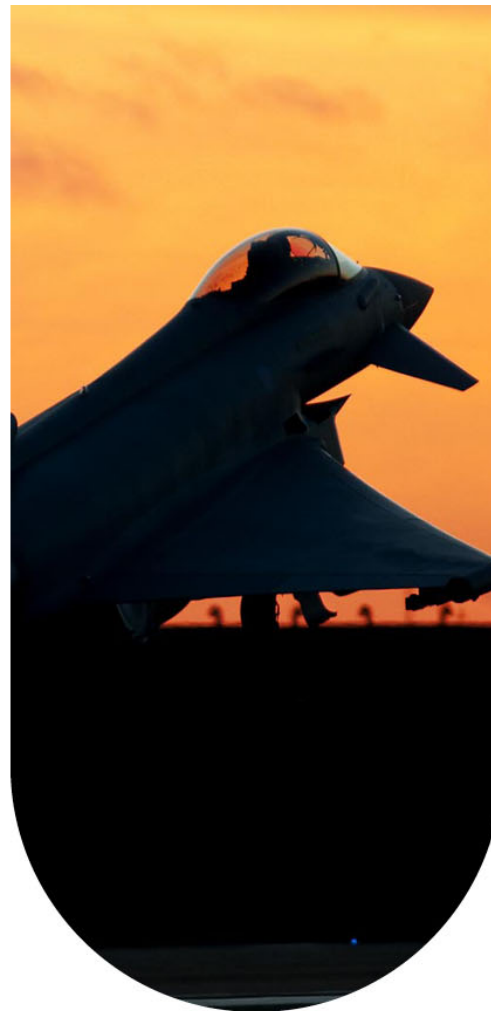
Net cash (net of all lease obligations
except right of use property lease)
£2.2m  (+14%)

- Strong performance from core business operations relative to H1 2021
- Healthy cash position will-drive investment in product development to deliver growth in target markets
- Served core-markets showing signs of recovery with key customers making firm forecast commitments for H2 2022 and beyond
- Responded effectively to global semiconductor shortage challenge with:
 - proactive sourcing
 - increased inventory holding
 - rapid redesign / qualification
- Robust orderbook phased for delivery in H2 2022 subject to supply of customer owned semiconductor materials
- Business outlook continues to be in line with management expectations for FY 2022
- Jonathan Neale appointed as Chairman in November 2021

* Adjusted EBITDA is earnings before interest, taxation, depreciation, amortisation and exceptional items.

** Adjusted operating profit is operating profit/(loss) before exceptional items.

Financial Summary



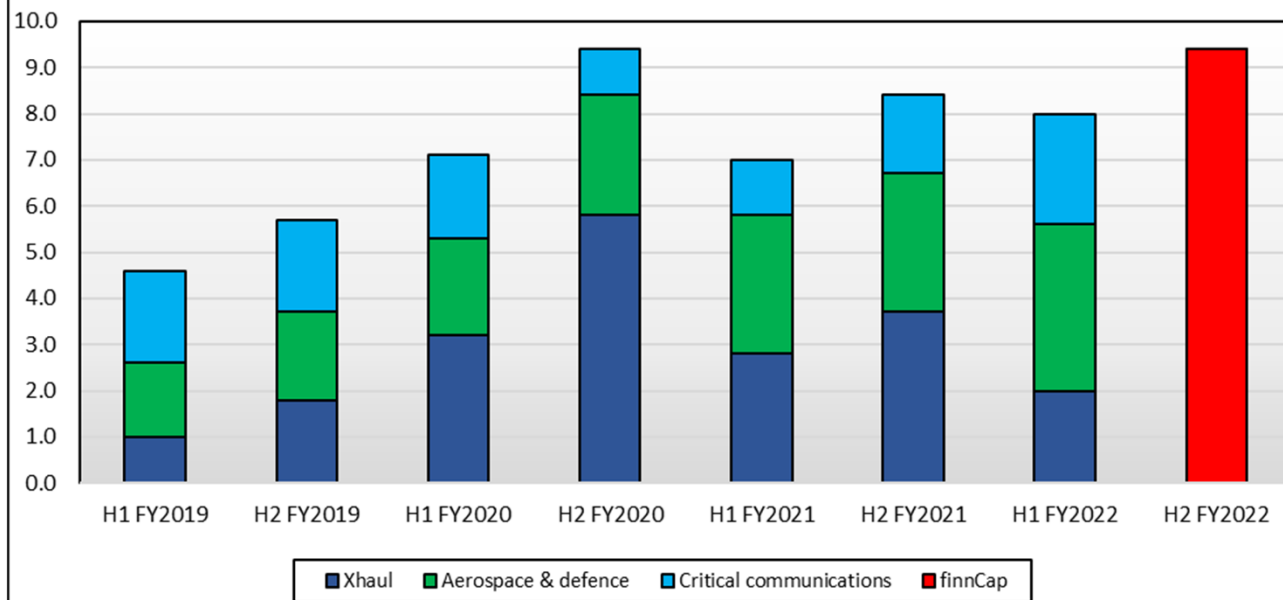
Revenue: 12% Growth H1 2022 vs H1 2021

Revenue in line with internal forecasts

Key strategic objective:

Develop customer base outside of top three customers

Revenue By Market By Half (£m)



Group revenue £8.0m (2021: £7.1m)

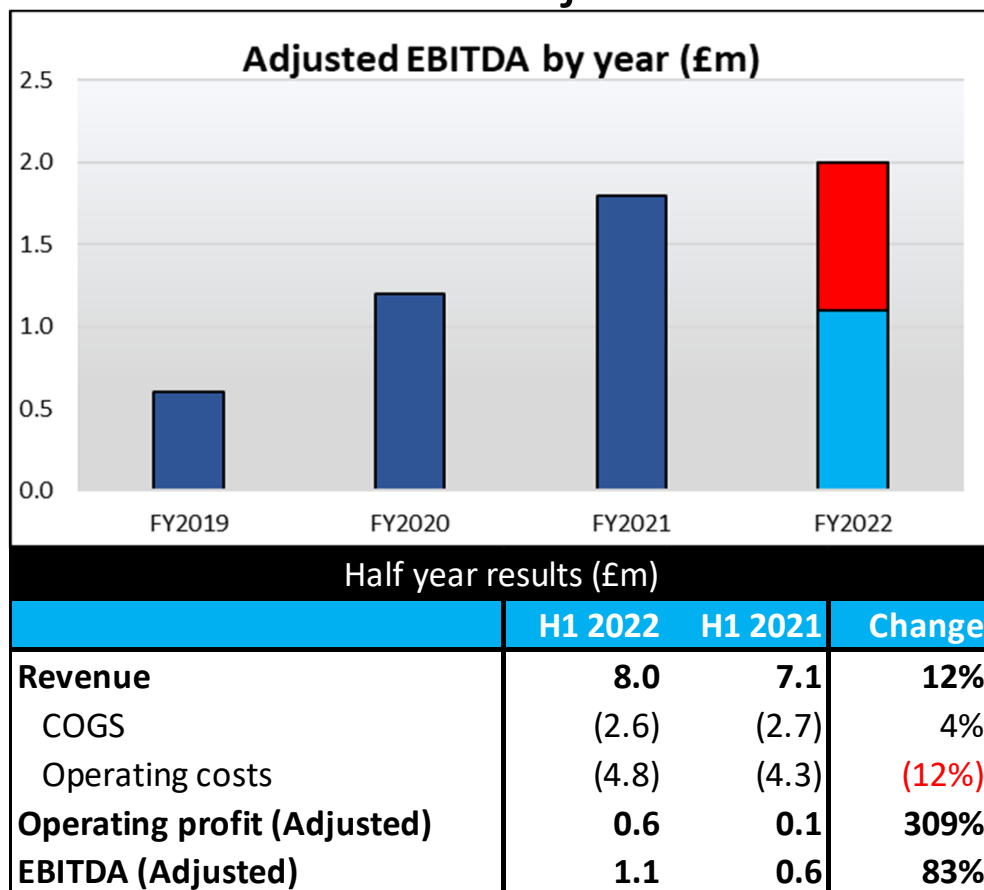
- Recovery of critical communication products with investment back into infrastructure projects.
- Aerospace & defence improvement through battlefield communications project.
- Xhaul revenue impacted by the global semiconductor component shortage. Recovery expected in H2.

12% growth over same period last year.

- **Xhaul:** Decreased 35% vs H1 21 but demand remains good.
- **Defence:** Growth of 20% vs H1 21.
- **Critical comms:** 100% revenue growth vs H1 21

Third Consecutive year of Adjusted EBITDA growth

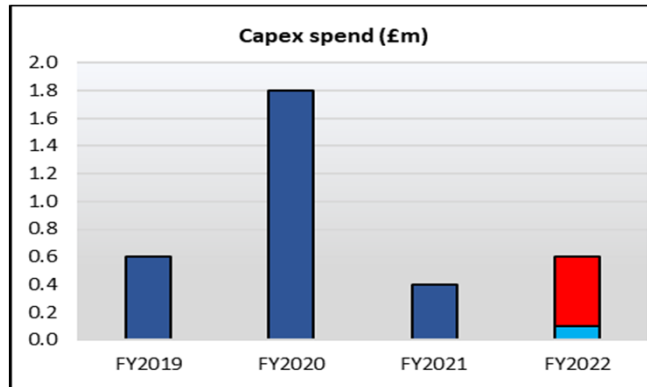
Adjusted EBITDA in line with internal forecasts



- **Stronger sales mix** from higher margins within aerospace & defence and critical communications markets. COGS 4% lower on 12% revenue increase.
- **Further yield and process efficiency improvements** delivered further manufacturing cost savings.
- Overhead costs increased by 12% to £4.8m to support top line growth with recruitment of key employees.
- **Operating gearing** improves profitability as revenues increase as cost base can support higher revenues.
- **Adjusted EBITDA** grew by 83% to £1.1m.
- Expect to increase EBITDA in H2 delivering against current market expectation.

 finnCap forecast

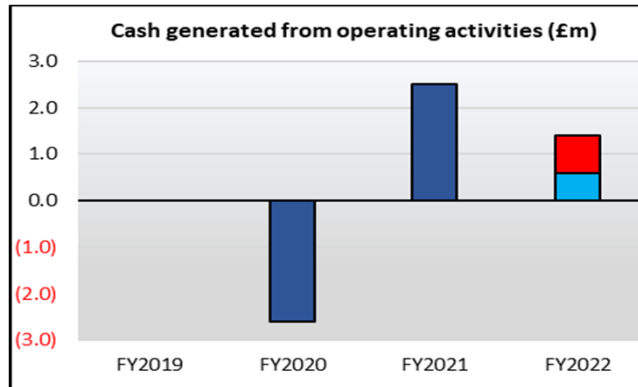
Balance Sheet Highlights



Capital expenditure needs still low

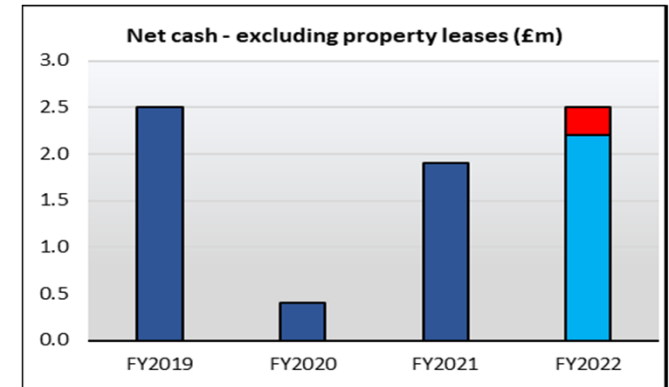
- £0.1m capex in H1 as well kitted for current requirements.
- Capex spend in H2 planned to accelerate NPI developments and service the opportunity pipeline.
- Future capex spend will be aligned to incremental revenue opportunities and technology capability.

■ finnCap forecast



Good cash generation

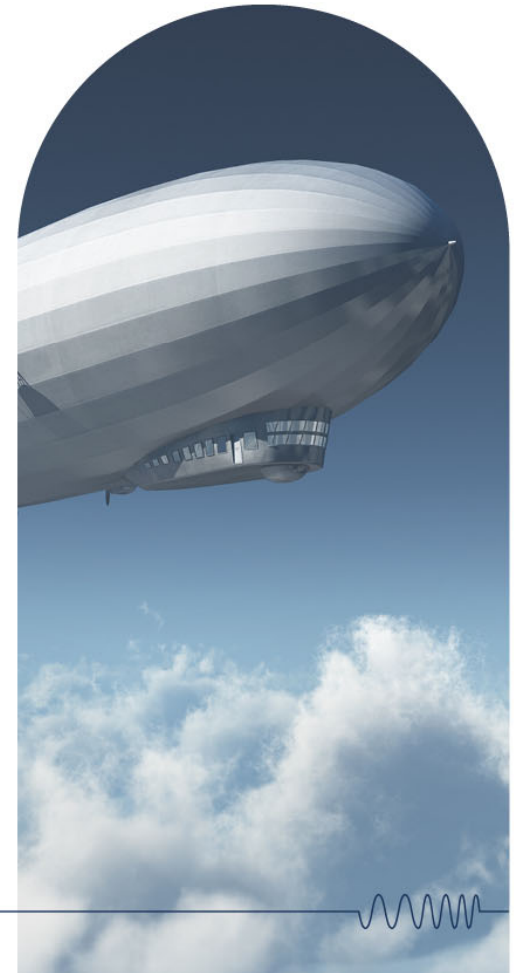
- £0.6m cash generation from operating activities in H1.
- Solid EBITDA cash conversion limited by working capital investment in inventory and stronger trading in Q2.
- Plan to continue to de-risk material availability risk from the global electronic component shortage and reduced shipping capacity out of Asia by holding more inventory in H2.



Strongest net cash position expected for 4 years

- £2.2m net cash when excluding IFRS16 property leases.
- Cash in bank of £3.0m (31 May: £2.9m) provides a strong position to develop the business and invest in top line growth.
- Further strengthening of the balance sheet.
- Undrawn invoice discounting debt facilities available - £3.0m Barclays and \$4.0m Wells Fargo.

Operational Summary



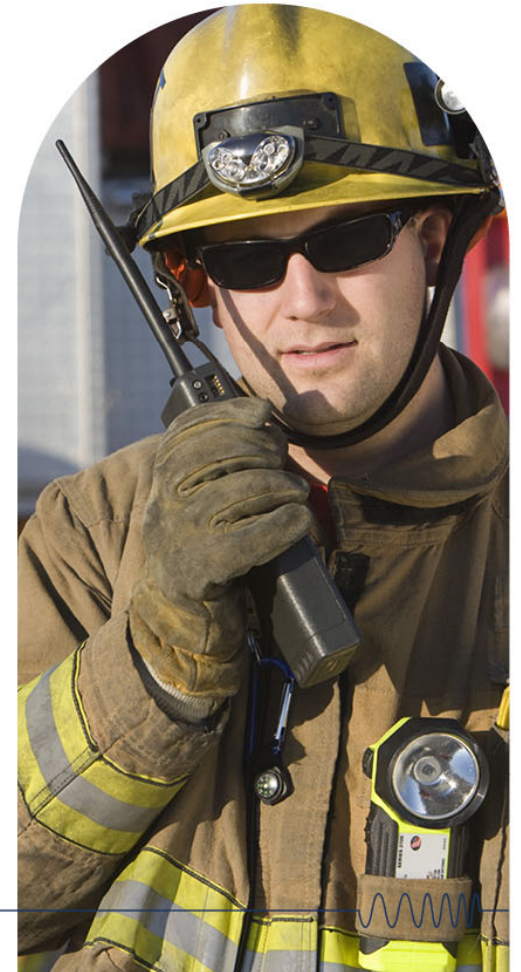
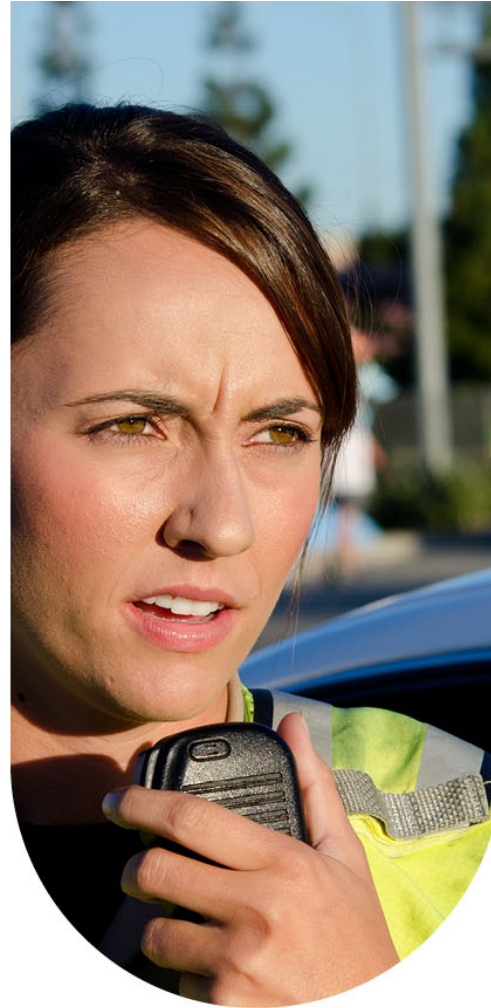
Business Development Highlights

- £800k initial production order from new test equipment customer following delivery of prototypes
- £1.3m Battlefield radio communications equipment order transitioned from design into low run rate production
- “Best-in-class” Tower Top Amplifier achieving anticipated volumes
- Several filter design wins for large UK defence prime based on recent defence accreditation of Leeds facility
- Pipeline increased with inclusion of opportunities identified with LEO space primes
- Expanding sales reach by agreeing terms with new agents and distributors in Europe, Asia and the USA
- Generating leads and building the Filtronic brand with a structured marcom plan


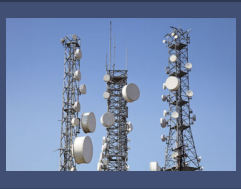
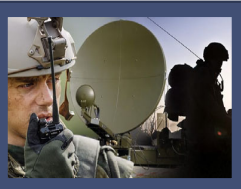



- UK Government investment in sovereign Telecommunications Infrastructure (including the OneWeb) continues to build momentum and opportunity
- UK defence primes making decisions regarding technology and UK manufacturing capability for next generation radar platforms
- Global 5G infrastructure roll-out continues at pace with expectation that E-band frequencies are licenced worldwide
- Critical Communications market recovering with federal and state spending directed towards infrastructure investment
- Expanded sales channels in Europe, Asia and USA starting to drive an increased level of FRI / RFQ engagement
- Long term development programme for a 5G test equipment OEM transitioning to production demand
- Engagement in HAPS market brings E-band IP to the attention of LEO telecom constellations players
- Growing level of market acceptance for TTA products - specified in important state upgrade programs
- Final delivery of battlefield radio communications equipment driving interest in follow on demand
- Data analytics associated with targeted marketing activity shows increased levels of engagement at target customers

Strategy & Growth







Strategy & Growth – markets / applications update

Vertical Market & Application		Progress in 1 st year	Target mid term	Interim Update	Target long term
	Aerospace	<ul style="list-style-type: none"> • TRM + filter development contracts for AESA radar. • TRM + filter research and for next gen radar • Consolidate business model for hybrid manufacturing 	<ul style="list-style-type: none"> • Tx Rx Module + filter prototype for AESA radar . • TRM + filter research and for next gen radar • Portfolio of OEM customers for CMS and OSAT services 	<ul style="list-style-type: none"> • 8 separate filter programmes secured with UK primes • Completed Tx module prototype for next gen radar • Defined SiP solution for AESA radar upgrade 	<ul style="list-style-type: none"> • Qualification of prototypes for AESA radar upgrade. • TRM + filter development for next gen radar • Turnkey OSAT* offering for UK Defence OEMs
	Terrestrial 5G Telecom Infrastructure	<ul style="list-style-type: none"> • Promote superior Morpheus power performance to tier 1's • Secure funding for mmWave development program • Start mmic design for W-band in accordance with roadmap 	<ul style="list-style-type: none"> • Develop E-band active SiP/ active diplexer solution • Develop Track to Train solution based on UK trials • Move test equipment development to production 	<ul style="list-style-type: none"> • Prototype E-band active SiP/ active diplexer solution • Limited progress with Track to Train based on UK trials • Secured 5G test equipment production order 	<ul style="list-style-type: none"> • Develop W-band transceiver and active diplexer for lead customer. • Develop D-band project plan in conjunction with lead customer(s)
	UK Defence & Critical Comms	<ul style="list-style-type: none"> • Achieve full security accreditation for Leeds site • Filtering process for UK DSTL SME programmes • Complete battlefield comms project design and initial build 	<ul style="list-style-type: none"> • Support development of emerging 900MHz product • Win TTA orders with Tier 1 LMR providers in US/ Europe • Establish flexible 3rd party filter design relationship 	<ul style="list-style-type: none"> • Shipping first of our 900MHz critical comms products • Milestone of \$1m of TTA sold since initial order in May 21 • First project with third party offshore filter company 	<ul style="list-style-type: none"> • Win follow-on DSTL communications development program
	Space – HAPS / LEO	<ul style="list-style-type: none"> • Look for fast turn OSAT business opportunities that can provide space heritage • Promote IP developed as part of initial HAP's engagements to LEO constellation OEMs 	<ul style="list-style-type: none"> • Align Filtronic with OneWeb for development of gen 2 • Development of 10w PA for volume manufacturing • Play active role in HAPS Alliance to promote E-band 	<ul style="list-style-type: none"> • Engaged in consortium bids for OneWeb 2.0 program • Generated roadmap for scalable Cerus SSPA • Playing active role in HAPS Alliance to promote E-band 	<ul style="list-style-type: none"> • Establish strong relationship with Space Catapult to develop NETPark site as manufacturing & test hub • Develop demonstrator for scalable SSPA at E / V band

* OSAT = outsourced assembly & test

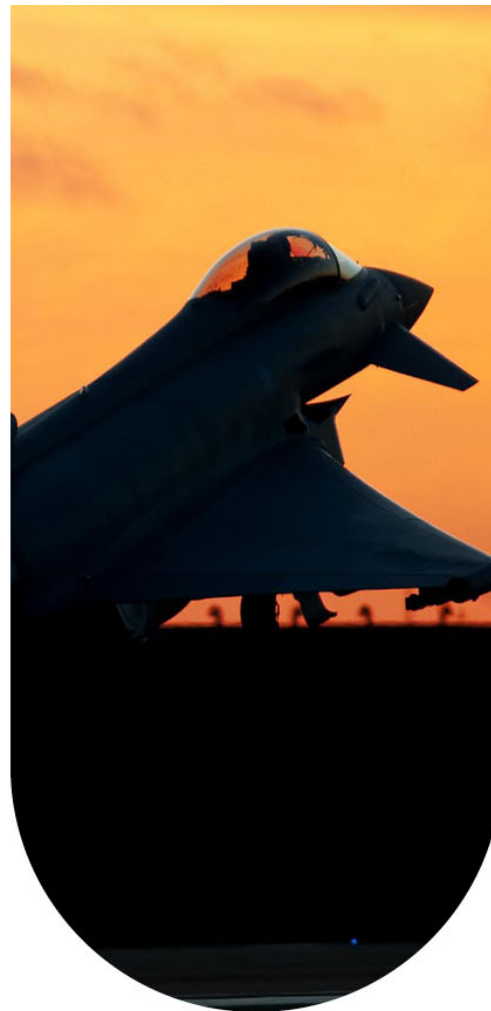
Strategy & Growth – operations / capability update

Business Function		Progress in 1 st year	Target near term	Interim Update	Target long term
	Sales & Marketing	<ul style="list-style-type: none"> • Build the roster of sales reps in North America • Develop direct sales network in Europe / Israel • Relaunch the Filtronic brand and build online presence 	<ul style="list-style-type: none"> • Expand UK defence sales and business development team • Build CRM tool capability and develop sales methodology • Engage in selected technical associations + industry groups 	<ul style="list-style-type: none"> • Full roster of sales reps covering North America • Data analytics support recent marcom investments • Increased engagement in funding / industry groups 	<ul style="list-style-type: none"> • Bring Channel Management skills into the company • Develop technical proposal/ grant application writing team
	Engineering	<ul style="list-style-type: none"> • Build stronger programme management organisation so we can scale design programs • Strengthen inhouse SIP design and engineering capability • Build OEM engineering links 	<ul style="list-style-type: none"> • Build alignment with key UK universities specialising in RF subsystem design • Engage engineering staff in technical associations + industry groups 	<ul style="list-style-type: none"> • Hired Director of Technology to drive roadmap and external engagements • Established links with UK universities specialising in RF subsystem design 	<ul style="list-style-type: none"> • Graduate development programme
	Operations & Facilities	<ul style="list-style-type: none"> • Maximise efficiencies from hybrid manufacturing line • Build accredited UK defence "box-build" capability. • Consolidate USA Critical Comms build / test facility 	<ul style="list-style-type: none"> • Manufacturing process for low cost plastic encapsulation. • Develop assembly process for Compound Semi materials. • Improve prototype development Eng. capability 	<ul style="list-style-type: none"> • Defined process required for low cost plastic TRM SiP. • Secured funding to explore Compound Semi materials. • Add third Evo line to support process development 	<ul style="list-style-type: none"> • Space level cleanroom manufacturing facilities • Expansion of in house qualification + DPA capability
	People & Processes	<ul style="list-style-type: none"> • Improve materials planning and inventory management systems for turnkey OSAT* • Explore Filtronic Leadership Academy – Management Development Training 	<ul style="list-style-type: none"> • Gain Cyber Security IASME accreditation • Develop ESCC level assembly process flows ESCC9000. 	<ul style="list-style-type: none"> • Working towards IASME governance accreditation • Develop ESCC level assembly process flows ESCC9000 • Filtronic Leadership Academy programme launched 	<ul style="list-style-type: none"> • Gain Cyber Security ISO27001 accreditation

Key Investments in FY2022

Business Activity	Key Investments	Interims Update
Sales and marketing	<ul style="list-style-type: none"> Development of direct sales channels with senior hire Expansion of rep network in the USA and Europe Further development of the CRM system 	<ul style="list-style-type: none"> Executive search firm engaged to strengthen direct sales channels Most of North America covered with 4 rep firms Reps deployed in France / Germany / Italy / Spain and Israel Proactive lead generation and systematic targeted marketing Building brand awareness with structured marketing campaign Increased marketing spend in H2 designed to re-engage in face-to-face meetings based on the return of tradeshows in 2022
Engineering (R&D)	<ul style="list-style-type: none"> W-band technology (exploring grant funding channels to part-fund) Increase engineering capacity to serve a building opportunity pipeline, development of the technology roadmap and execution of customer developments Q-band Power Amplifier (PA) design to penetrate space markets 	<ul style="list-style-type: none"> Funding application submitted to support W-band development RPO firm retained to support engineering recruitment activity Scalable Cerus E-band SSPA design concept developed for LEO market Ka/Ku V/Q-band Power Amplifier (PA) design concept generated Defined a process for next generation plastic encapsulation of TRM
Operations and business processes	<ul style="list-style-type: none"> Process development of semiconductor packaging and OSAT manufacture to match technologies deployed in next generation products. Expand our cyber security credentials to win more defence contracts Development of core business systems to support scalability Upskill our leaders and management with the 'Filtronic Leadership Academy' to support them driving business performance improvement 	<ul style="list-style-type: none"> Procurement of equipment required to support rapid prototyping and process development Actively building cyber security credentials to win more defence contracts Enhancing MRP and programme management tools to provide tighter business controls and smarter procurement strategies Upskilling our leaders and management with the launch of the 'Filtronic Leadership Academy' in January 2022
Balance sheet	<ul style="list-style-type: none"> Build the inventory position to mitigate the risk of the global electronic component shortage 	<ul style="list-style-type: none"> Increased inventory holding and order cover to mitigate the risk of the global electronic component shortage and shipping delays from Asia

Summary



- Filtronic is evolving
 - Focused on four strategic pathways (X-haul / defence communication / aerospace and space) – positions us in markets where we can differentiate, add real value and command sustainable margins:
 - Strengthening the sales and engineering functions to open the aperture on new business opportunities
 - Promoting the brand based on a clear understanding of our values and customer's expectations
 - Driving a roadmap for the development of facilities, people and business processes
 - Multi-year plan to build capability and further develop our IP portfolio
- Served available markets showing signs of recovery and board are confident in their future forecasts
- Cash and resources are in place to work through current semiconductor supply chain issues
- Good alignment with UK Government priorities – UK defence, sovereign supply chain and space
- USA manufacturing aligned with the McCain Bill and "Made in America" policy
- Optimistic trading outlook for the current financial year despite industry challenges

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Appendices



Income statement

	H1 2022
	£000
Revenue from goods and services	7,428
Revenue from non-recurring engineering (NRE)	576
Revenue	8,004
Material costs of goods sold	2,584
Employee costs	3,047
Depreciation, amortisation and impairment	516
Other operating income	(24)
Other expenses	1,161
Total operating costs	4,700
Operating profit	720
Exceptional items	(113)
Adjusted operating profit	607
Depreciation, amortisation and impairment	516
Adjusted EBITDA	1,123

H1 2021	Variance
£000	£000
6,710	718
438	138
7,148	856
2,713	129
3,090	43
521	5
(282)	(258)
1,013	(148)
4,342	(358)
93	627
0	113
93	514
521	(5)
614	509

H2 2021	Variance
£000	£000
7,665	(237)
743	(167)
8,408	(404)
2,749	165
3,228	181
674	158
(63)	(39)
1,271	110
5,110	410
549	171
(64)	49
485	122
674	(158)
1,159	(36)

Balance sheet

	Nov-21	May-21
	£m	£m
Goodwill and intangible assets	1.6	1.7
Right of use assets	2.1	2.3
Property, plant and equipment	1.0	1.0
Deferred tax	1.3	1.2
Non-current assets	6.0	6.2
Inventory	2.4	2.2
Trade and other receivables	4.1	3.3
Cash and cash equivalents	3.0	2.9
Current Assets	9.5	8.4
Trade creditors and other payables	2.8	2.4
Provisions	0.3	0.4
Deferred income	0.3	0.3
Financial liabilities	0.1	0.1
Lease liabilities	1.8	2.0
Total liabilities	5.3	5.2
Net assets	10.2	9.4
Share capital and reserves	10.2	9.4

Cash flow statement

	Nov-21	Nov-20
	£m	£m
Net cash generated from operating activities	0.6	0.5
Net cash used in investing activities	(0.1)	(0.1)
Net cash used in financing activities	(0.4)	(0.7)
Movement in cash and cash equivalents	0.1	(0.3)
Currency exchange movement	0.0	(0.1)
Opening cash and cash equivalents	2.9	2.0
Closing cash and cash equivalents	3.0	1.6