I TECH TRACK 100°

RRITAIN'S FASTEST PRIVATE TECHNOLOGY COMPANIFS









N+1 SINGER

Britain's brightest winglobal backing

Our latest research shows a record number of hyper-growth tech companies have attracted investors, writes Chris Marshall

Ventures explains on page 6.

One firm benefiting from new financing is cyber-security developer Darktrace (No.3), which is backed by investors including Invoke Capital, the investment

FAST TRACK

Tech Track 100 ranks Britain's private technology, media and telecoms companies with the fastest-growing sales. It is produced by Fast Track, the Oxford firm that researches Britain's top-performing private companies and organises invitation-only dinners for their owners and directors to network and meet its sponsors.

For full ranking criteria, see page 2



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vehicle of Autonomy co-founder Mike Lynch. It has raised \$180m (£138m), including \$75m in July. Headquartered in Cambridge and San Francisco, it is among the 80 Tech Track 100 companies

among me 80 Tech Track 100 companies that have generated revenue overseas.

Another is Farfetch (No 5.2), and official fashion platform that has rased 500m, including \$357m (2305m) from Chimese commerce business [B.com In Linus et al. 100 Linus (100 Linus 100 Linus



Sitting comfortably: creating unique stories for children has turned into a booming business for David Cadii-Newby, Pedro Serapicos. Asi Sharabi and Tal Oron

1 Wonderbly 294.27%
Personalised children's books
Bedtime stories in 200 countries have
gone hi-tech thanks to this company's
software, which generates unique
books based on a child's name, birth
date or location.
Asi Sharabl, 43, conceived the idea
for the business one evening in 2012
while reading a tailored storybook to
his daughter. "I thought it was a great
concept but poorly executed," he said.
Another two fathers and an uncle Pedro Serapicos, 42, Tal Oron, 40, and
David Cadji-Newby, 42 – joined him to

tories for children has turned into a boor take on the personalised book business. They worked on their first story, whose plot changes according to the letters of a child's name, in their spare time before its launch in April 2013. By November, sales had hit 50,000 copies a month – all through word of mouth, newspaper reviews and social media. Their profile was raised further in 2014 when Sharabi and his team appeared on BBC. TV's Dragons' Den and secured £100,000 from investor Piers Linney. This was followed by £16.5m in three rounds, led by investors including Google Ventures. The funding has

ing business for David Cadji-Newby, Pe enabled the company to develop its upbilshing platform and create new personalised stories in I2 languages. There was a publicity coup last year when its book The Incredible Intergalactic Journey Home, which uses Nasa images and mapping technology, was read live from the International Space Station by astronaut Tim Peake. Wonderbby, formerly known as Lost My Name, was tipped as a Tech Track One to Watch last year and has leapt into the Tech Track 100 league table with 2017 sales of £25.9m as book sales climb towards 3m.

o Serapicos, Asi Sharabi and Tal Oros
It credits its growth to its business
model. It creates the stories and
illustrations in-house, alongside the
technology to customise the books
and ecommerce software to order
them online. It has no inventory and
prints on demand through third parties
books are sold through its website, no
in shops, giving it direct contact with
customers and control over pricing.
This month it launched a
personalised book featuring the
Roald Dahl character Willy Wonka.
Sharabi and his team may feel they
have found their own golden ticket.

2 Smarkets 280.05% Betting exchange This peer to-peer betting site allows users to set their own odds on sports events, politics and current affairs. Its chief executive, Jason Trost, 36, started the company in 2008 in an attempt to undercut traditional bookmakers by undercut traditional bookmakers by applying financial trading principles to sports betting. Since then, £5bn has swapped hands on its exchange, helping sales – which represent commission – reach £25.4 mi 2016. Smarkets has rasised £2.5 m from investors including T-Venture – and is reportedly considering a stock market float in New York.

3 Darktrace 267.61%
Cyber-security developer
This firm's software detects and counters cyber-security threats. Founded in 2013, it has joint headquarters in Cambridge in Britain and San Francisco in America, with a further 22 offices globally. In May, its technology protected customers, including an NHS agency, from the WannaCry ransonware attack that hit hospitals. It has raised more than \$180m, including \$75m (£58m) in July, from investors that include Invoke
Capital and Insight Venture Partners. Under chief executive Nicole Eagan, 53, sales hit £31m this year.

4 Hunter Macdonald 267.06%
IT consultancy
FTSE 100 companies and government
departments are among the clients of
this Reading firmt in the positions of
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5 TransferWise 226.85%
Currency transfer provider
This London firm was founded in 2010
by Tawet Hintikas, 56, who was Skype's
first first

For these restless innovators once is never enough

More than a third of this year's Tech Track 100 were founded by serial entrepreneurs





How many great business ideas remain stuck in people's heads, never to see the light of day? It takes courage to start your own company and conviction to keeping the start of the company and conduction to the company and conduction of the conduction of the conduction of the conduction of the concentrated in the thriving tech sector. The cream of this

competitive, fast-moving part of the economy can be found in this year's Tech Track 100. These job creators and innovators have managed the exceptional feat of at least tripling their sales over the past three years —more than 50-fold in the case of No1 ranked business Wonderbly, whose technology creates unique children's books. One-tenth of this year's cohort were founded by women, a number we hope to see increase. Among them

women, a number we hope to see increase. Among them is Milk Visual Effects (No 73), whose co-founder Sara Bennett won an Oscar for creating visual effects for the film Ex Machina.

Many leaders have channelled their know-how into more than one enterprise.

More than a third of the 100

More than a third of the 100 were founded by people who have started at least one other venture, seven of which have seen their previous business make the Tech Track 100. Among them is Simon

Hansford, co-founder and chief executive of cloud services provider UKCloud (No 22), listed for a second year after topping the 2016 table. He previously set up IT services provider Attenda, ranked No 20 on the inaugural Tech Track 100 in 2001, which bliegory was provident which the second table. which Hiscox was proud

Tech Track 100 in 2001, which Hiscox was proud to sponsor. Serial entrepreneurs often come in pairs, such as Dana Tobak and Boris Vanowic, founders of Hyperoptic (No17). The business is on a mission to provide superfast broadband to more than 2m UK homes by 2022. "It is powerful to have two experienced co-founders working together," says chief executive Tobak. The pair's previous venture, Be Broadband, acquired by 0, for £50 mi 2005, taught them the value of planning and then relentessly stress-testing those plans. "After we have tested our assumption, we brainstorm



do it in the UK or abroad? We then take action and test as we go," says Tobak. She says they had a clearer idea of who to hire second time round. "We knew we needed a mix of big and small company experience in order to understand how big companies approach things." Mark Richer, co-founder and chairman of video conferencing business

and try to think differently. For example, should something be done in-house or be outsourced? Should we do it in the UK or abroad? We

and chairman of video conferencing business StarLeaf (No 36), draws lessons from founding not one but three previous tech ventures. Among them is Codian, which appeared in the Tech Track 100 in 2007 before being bought by Norway's Tandberg for \$2,70m later that year. "As with a lot of things in life, there is a ladder of confidence you have to climb. Each successful company increases your self-belief and

allows you to reach the next step up," Richer says. "But beware hubris," he warns. "Having done it before is helpful. However, three previous business successes don't guarantee a fourth. You have to treat each one on its merits."

have to treat each one on its merits."

Some of Richer's colleagues have been with him since his first tech venture. Finding the right staff is always a big challenge for tech companies, but a newer, more menacing problem is the rise of internet problem is the rise of internet problem is the rise of internet with the rise of internet and the rise of internet and the rise of internet with the rise of internet and the rise of internet and rise of internet crime. Technology, media and telecoms companies are most at risk. Our recent Cyber Readiness Report found

hackers are most likely to target companies in this sector, with 45% of firms reporting two or more attacks in the past year. But they are also the best-equipped to fight back. The two cyber-crime fighters in this year's Tech Track 100 include Darktrace (No3), which beloed many

unis year's Tech Hack 100, include Darkrace (No.30), which helped many organisations detect and contain the Wannachract At well as adopting such defensive technology, companies can also protect themselves against the costs such attacks incur by transferring risk to a specialist insurer, such as Hiscox. We help our client behallenge posed by cybercrime, as part of our wider offer ing a sper of our wider offer in the technology of the technology and the sector. After all, as the FTh annual Tech Track 100 shows partials in technology scene is Pitalin's technology scene is Britain's technology scene is an asset worth protecting. Steve Langan is chief executive of Hiscox Insurance Company

BRITAIN'S FASTEST-GROWING PRIVATE TECHNOLOGY COMPANIES

	Rank 2016	Company	Activity	Location	Financial year end	% annual sales rise over 3 years	Latest sales £000s	In profit?	Staff	Comment
1			Personalised children's books	East London	Apr 17	294.27%	*25,860	No	80	Has sold nearly 3m customisable children's books in 200 countries
	5	Smarkets	Betting exchange	Central London	Dec 16	280.05%	*25,417 *31,000	Yes	78 475	Says its staff set their own salaries and have an unlimited holiday allowance
4		Darktrace Hunter Macdonald	Cyber-security developer IT consultancy	Cambridge Reading	Jun 17 Jun 17	267.61%	*29,147	No Yes	437	Has raised more than \$180m from investors including Invoke Capital Employs a team of more than 100 developers to create bespoke applications
5		TransferWise	Currency transfer provider	East London	Mar 17	226.85%	*67,010	No	598	Valued at above \$1bn after raising \$117m from backers including Sir Richard Branson
6		Festicket Oakbrook	Festival booking services	Central London Nottingham	Dec 16 Dec 16	224.83% 213.84%	16,026 24,848	No No	51 70	Has created a one-stop-shop for 2.5m festival-goers
- 8		SuperAwesome	Consumer finance provider Children's advertising services	Central London	Dec 16	213.84%	*10.181	No No	80	Uses machine learning to help estimate borrowers' credit risk Serves some of the world's largest kids' brands from offices in America, Asia and Australia
9		LADbible Group	Online entertainment community	Manchester	Dec 16	208.17%	*9,221	Yes	110	Claims its flagship channels are followed by half of all 18-30 year olds in the UK
10		Receipt Bank	Bookkeeping automation services	Central London	Dec 16	185.30%	*6,177	No	185	Says 100,000 businesses in America, Europe and Australia use its bookkeeping software
11		GoCardless Brainlabs	Payment services provider Digital marketing agency	Central London Central London	Dec 16 Mar 17	174.15% 172.11%	*5,969 *14,753	No Yes	120 105	Processes £3bn of direct debit payments a year for more than 25,000 businesses Founder Dan Gilbert left Google to start this company in his parents' attic in 2011
13		Outplay Entertainment	Mobile games developer	Dundee	Dec 16	171.61%	15,585	Yes	210	More than 20m players have downloaded its Alien Creeps game
14		Infinox	Currency trading platform	Central London	Mar 17	164.26%	*17,542	Yes	18	Generates two-thirds of its sales from traders in Asia
15 16	16	Virtus Data Centres Optal	Data centre operator	Central London Central London	Dec 16 Dec 16	163.48% 162.84%	23,573	Yes	45 38	Owns and operates data centres in Enfield, Hayes and Slough
17		Hyperoptic	Payment services provider Internet services provider	West London	Dec 16	160.86%	8 775	nes No	297	Offers payment processing in 34 currencies Aims to provide superfast broadband to more than 2m homes by 2022
18		WDX	Wealth management platform	Central London	Sep 16	155.25%	*6,172	Yes	40	Its software is used by 10 of the UK's top 25 wealth management firms
19		Perkbox	Employee engagement services	Central London	Dec 16	146.34%	*14,675	No	96	Companies use its platform to offer staff perks such as two-for-one meals
20		LoopMe iwoca	Advertising technology developer Business finance provider	Central London Central London	Dec 16 Dec 16	143.74% 128.53%	12,820 *13,236	No No	60 140	Says its artificial-intelligence technology reaches 2bn devices around the world Its 140 employees include three former Olympians
22		UKCloud	Cloud services provider	Farnborough	Mar 17	127.13%	*42,918	Yes	158	High-profile investors include Tim Henman, Andy Murray and Pink Floyd's Nick Mason
23		Yieldify	Marketing technology developer	Central London	Apr 17	124.97%	*9,106	No	103	Has raised nearly £15m from investors including Google Ventures and Softbank
24	3	LoveCrafts PsiOxus	Crafts communities platform Biotechnology developer	Central London Abingdon	Mar 17 Nov 16	124.62%	*18,132 *8,564	No No	100	With £44m of venture capital, it has created a crafts community covering 140 countries Its new solid tumour-destroying virus is entering clinical trials in America
26		ZappiStore	Research services provider	Central London	Dec 16	116.87%	10,975	No	146	Holds weekly hackathons with its clients and programmers
27	8	Funding Circle	Peer-to-peer lending platform	Central London	Dec 16	111.80%	*50,878	No	741	Reports that more than £3bn has been lent through its website to 33,000 businesses
28	12 50	ImpulsePay Neuven	Mobile payment technology HR software developer	Central London Manchester	Dec 16 Jul 16	109.50%	*16,242 86,354	Yes Yes	7 24	CrossCountry Trains uses its technology to charge customers for wi-fi access Its technology is used by employers of temporary staff
30	99	Love Energy Savings	Price comparison website	Bolton	Dec 16	103.17%	13,207	Yes	114	Says it has helped 130,000 UK homes and businesses save on energy costs since 2007
31		Red Badger	Digital consultancy	East London	Oct 16	102.61%	*7,015	Yes	75	Designed and built a new content management system for Sky
32	20	Threads Styling Victor	Online fashion services Online private jet hire	East London Central London	Dec 16	102.30% 101.33%	*8,291 29,592	Yes No	44 59	Uses social media to make it easier for fashionistas to buy luxury clothes Counts Sir Elton John among its investors
33		Victor Immunocore	Unline private jet hire Biotechnology developer	Central London Abingdon	Dec 16 Dec 16	101.33%	16,465	No No	279	Counts Sir Elton John among its investors Has raised £205m from investors including Woodford Investment Management and Malin
35	25	Blis	Advertising technology provider	Central London	Dec 16	100.15%	*28,151	No	138	Its location-predicting tool is used by Stella Artois to target new customers in bars
36		StarLeaf LendInvest	Video conferencing provider Property finance provider	Watford Central London	Dec 16 Mar 17	99.11% 97.90%	6,048 *22,111	No	130 102	Its founders set up Tech Track 100 alumnus Codian and sold it for \$270m in 2007 It has taken a 10% share of the short-term mortgage market
38		Captify	Advertising technology company	Central London	Mar 17	96.05%	*25,054	Yes No	181	Analysis of 33bn searches a month provides data for its campaign and marketing insights
39		PM Connect	Mobile content provider	Birmingham	Feb 17	95.54%	*14,470	Yes	25	Bounce Games, iFitness and Love Food are among this company's brands
40	6	WorldRemit BBOXX	Currency transfer provider Solar system manufacturer	Central London West London	Dec 16 Dec 16	95.07% 94.77%	*41,054 *8,898	No No	324 447	Founder came up with the idea for the business after paying huge fees on money transfers
42	- 22	Double Eleven	Video games publisher	Middlesbrough	Sep 16	92.32%	*6,112	Yes	38	Aims to provide electricity for 20m people in developing countries by 2020 Says its games have been played by more than 10m people worldwide
43		Symetrica	Radiation detection equipment	Southampton	Sep 16	91.72%	8,175	Yes	50	Its technology can detect materials that may be used in dirty bombs
44		Media iQ Kano	Digital marketing agency Educational computer developer	Central London East London	Dec 16 Dec 16	91.20% 87.88%	*91,880 *6.295	Yes No	330	Develops its own analytical software in Bangalore, India Has shipped more than 150,000 of its build-your-own computer kits to 86 countries
46		Black Swan Data	Analytical software developer	Central London	May 17	87.22%	*15,098	No	252	Last year it raised £6.2m to develop its product platform and accelerate international growth
47		Adaptive	Financial software developer	Central London	Jun 17	86.24%	*15,198	Yes	116	Increased staff from five to more than 100 in just five years
48	36	Capital on Tap Zopa	Business finance provider Peer-to-peer lending platform	West London South London	Mar 17 Dec 16	84.49% 83.49%	9,080 33,220	No No	54 188	Its founders also set up Paymentsense, No 63 in the league table Says it was the first European peer-to-peer lender to exceed £2bn in loans
50	52		Cloud software developer	Manchester	Mar 17	82.62%	*15,177	Yes	67	Its CloudMigrator software tool has moved 6.2m users to the cloud
51 52	30 42	Ebury	Business finance provider	Central London	Apr 17	82.12% 81.90%	*38,052 *622,217	Yes No	480	Has raised more than £85m from venture capital and private equity investors
53		Farfetch Epos Now	Online fashion platform Payment systems developer	East London Norwich	Dec 16 May 17	81.90%	*13.947	Yes	1242 293	Secured a \$397m investment from Chinese ecommerce business JD.com in June More than 30,000 businesses use its cloud-based point-of-sale systems
54	37	Performance Horizon	Marketing software developer	Newcastle	Dec 16	77.61%	11,895	No	124	Its founders set up Tech Track 100 alumnus Buy.at and sold it to AOL for \$125m in 2008
55 56	60	Qualasept Pharmaxo iPulse	Pharmaceuticals manufacturer Hair removal technology	Wiltshire Swansea	Apr 16 Dec 16	76.95% 72.47%	87,857 *17.492	Yes Yes	141 32	Claims it has developed the UK's single biggest aseptic clean room Uses pulsed light technology to permanently remove unwanted body hair
57		Clyde Space	Satellite manufacturer	Glasgow	Apr 16	71.95%	*5,257	Yes	75	Builds up to 12 flight-ready mini-satellites each month
58		CashFlows	Payment services provider	Cambridge	Dec 16	71.91%	*37,312	Yes	78	Acquired online payment provider iCheque last year
59 60	19 39	CitNOW	Video software developer Smart energy monitoring	Wokingham Cambridge	Dec 16 Mar 17	71.89% 71.76%	*7,019 *22,603	Yes Yes	67 56	Has subscribers in 44 countries, who produce 500 hours of video every day
61	49	geo Trak Global Group	Vehicle tracking technology	Crewe	Jun 17	70.60%	*25.296	Yes	225	Has sold more than 4m devices to help people monitor energy usage in their homes Says its software allows firms such as Rentokil to track their vehicles via employees' phones
62		RateSetter	Peer-to-peer lending platform	East London	Mar 17	68.00%	*23,701	No	187	350,000 individuals and small firms have used its platform to borrow a total of £2bn
63	70 91	Paymentsense Grapeshot	Payment services provider Advertising technology developer	West London Cambridge	Mar 17 Dec 16	67.54% 65.68%	*62,301 9,045	Yes No	235 76	Serves 57,000 small businesses and processed £5.5bn of card payments last year Its founders spent four years developing its technology before launching
65		AnalogFolk	Digital marketing agency	Central London	Dec 16	64.50%	*27.662	Yes	220	Created the first UK brand campaign to use Snapchat's wearable glasses, for Costa Coffee
66		Egress	Data security provider	Central London	Dec 16	62.09%	5,442	No	100	Users of its platform can revoke access to emails after they have reached the recipient's inbox
67 68		TouchNote	Personalised photo-card provider Online travel services	Central London Central London	Dec 16 Dec 16	62.07% 61.31%	*5,072 *48,674	Yes No	16 368	Has sent more than 9m personalised photo cards to 200 countries
69		Secret Escapes Giacom	Cloud services provider	Central London Hull	Jul 16	60.73%	6,629	No Yes	368 50	Has raised £51m from investors including Google Ventures Its MessageStream platform is used by more than 4,000 software resellers
70	51	LPW Technology	Metal powder manufacturer	Cheshire	Aug 16	60.69%	†10,406	Yes	82	Investing £20m over two years to develop its manufacturing facilities and product range
71	56	Prepaid Financial Services	Payment services provider	Central London	Dec 16	59.05%	41,843	Yes	48	Its prepaid cards are used by governments, multinational companies and individuals
72		Croud Milk Visual Effects	Digital marketing agency Visual effects developer	East London Central London	Mar 17 Mar 17	58.75% 57.94%	*7,714 *10,273	Yes Yes	83 109	Employs more than 1,200 digital marketing experts, or 'Croudies', around the world Co-founder Sara Bennett won an Oscar for creating visual effects used in the film Ex Machina
74	24	The Media Image	Digital marketing agency	South London	Feb 17	56.77%	*18,398	Yes	33	Founded by the man who was the first recruit for Google UK's Adwords
75 76		Ipsotek Bede Gaming	Video analytics provider	West London	Dec 16	55.92% 54.41%	*5,062 *8.157	Yes	41 120	Its patented software analyses CCTV footage to identify security threats
77		Mediatonic	Gambling software developer Computer games developer	Newcastle Central London	Dec 16 Sep 16	54.41%	*7.367	No Yes	110	Employs 120 developers at its offices in Newcastle, London and Sofia, Bulgaria Worked with Warner Bros to create a mobile game for Harry Potter prequel Fantastic Beasts
78		InfoMedia	Mobile payment provider	Northampton	Oct 16	52.34%	*34,020	Yes	30	Last year it processed 40m payments for customers' mobile phone bills
79		M Squared Lasers	Laser designer and manufacturer	Glasgow	Feb 16	52.13%	*13,896	Yes	90	Its advanced laser systems are used by Nobel prize-winning scientists
80		Kimble Applications Infectious Media	Software developer Advertising software developer	Central London Central London	Dec 16 Mar 17	50.60% 50.53%	*5,206 *45.177	No Yes	41 101	Set up by serial entrepreneurs with backing from 30 angel investors Helps customers including Adidas and Expedia convert ad views to sales
82		NewVoiceMedia	Contact centre software developer	Basingstoke	Jan 17	50.18%	*32,204	No	370	Has raised more than £100m from investors including BGF Ventures
83	84	ActiveQuote Brandwatch	Price comparison website Social media monitoring	Cardiff Brighton	Sep 16 Dec 16	49.02% 48.96%	*7,598 29,100	Yes No	129 354	Its technology is used by other websites such as Gocompare and uSwitch Says it collects 200m online data points every day
85		Lyst	Fashion search platform	East London	Mar 17	48.66%	*10,538	No	120	Has raised £39m from technology investors including Accel Partners and Balderton
86		Godel Technologies	Software developer	Manchester	Dec 16	48.65%	*9,052	Yes	350	Is named after the late German mathematician Kurt Gödel
87	46	PrivateFly Spektrix	Online private jet hire Ticketing software supplier	St Albans Central London	May 17 Dec 16	48.38% 48.04%	*22,259 *5.152	Yes	31 65	Opened an office in Fort Lauderdale last year to serve the growing American market Processed sales of more than 15m theatre tickets in 2016
89		Chameleon	Smart energy monitoring	Harrogate	Dec 16	48.04%	*10,860	Yes	21	Almost 2m of its energy display units have been installed in UK homes
90		Bullitt Group	Consumer electronics designer	Reading	Dec 16	46.86%	*99,673	No	98	Sells its branded electronics to more than 70 countries
91		Lineup Systems Ratio	Advertising technology developer Price comparison website	Central London Bournemouth	Jun 16 Apr 17	46.16% 46.11%	*7,285 *8.756	Yes Yes	85 22	Its software comes in 21 languages and has 8,000 users across 33 countries Its diverse services range from a price comparison site to an underwear subscription club
93	38	SaleCycle	Marketing technology developer	Tyne and Wear	Mar 17	45.85%	*12,034	Yes	154	It has helped companies such as Virgin Atlantic increase online sales by more than 5%
94	55	Feefo Dianomi	Customer review platform Content marketing services	Hampshire Central London	Mar 17 Dec 16	45.07% 44.24%	*8,090 *8,702	Yes Yes	100	More than 3,500 brands use Feefo to collect reliable customer feedback Its technology places more than 3.5bn ads each month on financial news websites
96		MVF	Digital marketing agency	North London	Mar 17	44.24%	*54,257	Yes	319	In February it acquired publisher Startups.co.uk for an undisclosed sum
97		Know Your Money	Price comparison website	Norwich	Mar 17	43.94%	*8,369	Yes	17	Its three co-founders launched the business in 2004 with a £5,000 credit-card loan
98		Edge Testing Solutions M24Seven	Software testing provider Internet services provider	Glasgow Manchester	Dec 16 Mar 17	42.46% 42.43%	10,099	Yes	91 217	Offers two hubs for its clients to test their products before launch Acquired internet infrastructure and hosting firm M247 for £47.5m last October
100		CV-Library Holdings	Online job site	Hampshire	Jun 16	42.03%	25,186	Yes	132	Stores nearly 12m CVs on its website

M24Seven CV-Library Holdings

THE RULES OF ENGAGEMENT

The annual Tech Track 100 league table, now in its 17th year, ranks Britain's fastesty growing private technology, media and telecoms companies by their average annual sales growth over their latest three years.

Criteria: The Tech Track
100 adopts the London
Stock Exchange's Techmark
definition of a technology
acommitment to
innovation, research and
product development.
Companies have to be
registered in the UK and be
independent, unquoted and
ultimate holding companies.
Annualised sales have to
exceed £250,000 in the
base year and not show a exceed £250,000 in the base year and not show a drop from the penultimate to the latest year, in which total annualised sales have to exceed £5m. Companies do not have to be in profit. Firms that do not meet the criteria may be considered for the Ones to Watch programme (see page 10).

Exclusions: Pure computer resellers have been excluded. IT consultancies and services companies are required to generate a significant portion of their sales from proprietary technologies.

Data collection: Sources used include Bureau van Dijk's Fame. Companies House, Experian's MarketlQ, Crunchbase, DueDil and Beauhurst. Many companies were nominated by themselves or by advisers; others were identified through research. Fast Track also reviewed draft accounts, management account extracts and account extracts and pro forma accounts.

Incomplete data: Most Incomplete data: Most small firms file abbreviated accounts. For this reason, sales figures for many companies are not available and we would welcome nominations for next year's league table.

Disclaimer: The firms in the Tech Track 100 are not endorsed or recommended by the sponsors or by Fast Track, nor are they necessarily the best-run companies. The table is based on historical data and the inforhistorical data and the infor-mation is not necessarily an indicator of present or future performance. The compiler's decision is final and no correspondence will be entered into.

rast Track's sole source of revenue is our sponsors. We would like to thank Hiscox, our title sponsor for the sixth year, and our main sponsors Barclays, BDO, BGF and N+1 Singer.

Nominations for next year are welcome at info@fasttrack.co.uk or fasttrack.co.uk

fame

Media stars get down with the kids to ride digital wave

Tech Track 100 firms are at the front of changes in the way media are produced and consumed





The rise of smartphones, tablets and social media has transformed the media and entertainment industry beyond recognition. Everything has changed, from the means of creating content and how people consume it – you could just as easily be reading this article on a tablet, as martphone or in was success is tracked and measured. A thriving UK media technology sector has grown up alongside these changes,

reinventing itself as traditional forms of media go into decline.

The UK remains a world leader in film, television, video games and digital media. This is partly thanks to a depth of talent, skills and creativity but, without question, the key change affecting the industry has been the emergence of new technologies that have revolutionised the way business is done.

revolutionised the way business is done.

That much is clear from this year's Tech Track 100. It features four video games developers, including Outplay Entertainment (No13), which specialises in free-to-play games for smartphones, tablets and social networks; an Oscarwinning visual effects business, Milk Visual Effects (No73); and digital ad firms ONOTAL SHAPE AND A STATE OF THE STATE OF THE

intelligence to find out what ads mobile users should see on websites and apps. These businesses join the likes of Tech Track 100

company to sell nearly 3m books in 200 countries. At No 6 is Festicket, which has created a one-stop online

alumnus Unruly, which helps to make video ads go viral. It featured twice in the league table before it was acquired by News Corp, the owner of The Sunday Times, in Eli4m deal in 2015. The 10 fastest growing companies in this year's table include four that are having an impact on media

having an impact on media consumption in UK and beyond, all through engaging younger audiences.

beyond, all through engaging younger audiences. Among them is Northern Among them is A



shop for 2.5m festival-goers. As well as selling tickets and packages to more than 1,000 festivals worldwide, it also produces its own online magazine and festival reviews. Another, LADbible Group

(No 9) was started by chief executive Solly Solomou in 2012 while he was still a student at Leeds University. student at Leeds University.
Since then, its videos and
articles – which range from
celebrity gossip to politics –
have captured a mindbogglingly large audience. It claims that its flagship channels are followed by half of all 18-30 year olds in

the UK.

multiple platforms, including mobile and social media, and the shift from the written word to video.

Also at the cutting edge of these changes is Dylan States, children's digital platform solicities, as children's digital platform solicities, children's digital platform of the contract of the contrac

them in a completely safe and legal way. Under-13s are now the fastest growing are now the fastest growing are now the fastest growing the fastest growing to the internet simply wasn't built for kids. They are rapidly reshaping the digital media sector, in terms of consumption and also data privacy laws." Super-Awesome is a great example of a UK media tech business that has thrived on the changes taking place in

example of a UK media tech business that has thrived on the changes taking place in this exciting sector.

Much of the technology we are seeing now would have been in the realms of science fiction when we set science fiction when we will see many technology, media and willingness to embrace new markets will ensure that we will see many more media businesses in future league tables. Sean Duffy is head of technology, media and telecoms at Barclays

The Sunday Times September 10, 2017

TECH TRACK 100

BARCLAYS

6 Festicket 224.83%
Festival booking services
The difficulties of arranging
accommodation and transfers for a trip
they planned to the Coachella festival in
California inspired friends Zach Sabban,
32, and Jonathan Younes, 32, to start
this business in 2012. They have since
secured 67.5m from investors such as
Lepe Partners to develop their online
platform, which sells tickets and
packages to more than 1,000 efstivals
worldwide. Festicket also reviews festivals and produces an online magazine
to create a one-stop-shop for its 2.5m
members. The magazine has increased
traffic to the site, helping to boost 2016
sales, which represent fees, to £16m.
This year the London company opened
offices in Germany and the Netherlands.

7 Oakbrook 213.84%
Consumer finance provider
Nottingham-based Oakbrook provides
consumer loans through its Likely Loans
and Appro Loans websites. Led by
chief executive Michael Woodburn, 46, it chief executive Michael Woodburn, 46, it has developed an automated application system that enables customers to access cash within 24 hours of applying, and says it uses machine learning to help estimate borrowers' credit risk. Backed by investment firm Blenheim Chalcot, the company increased its sales last year to £24.8m, a figure that represents interest payments.

8 SuperAwesome 210.71%
Children's advertising services
As children increasingly look to digital
channels for entertainment, the issue of
advertising has become a sensitive one.
SuperAwesome's platform was built
specifically to comply with privacy laws
for children, allowing brands such as
Disney and Lego to run campaigns
alongside games and other content. It
also offers kids Web Services, a suite of
kids, and Poplam, a social network for
under-13s. Serlai tech entrepeneur
Dylan Collins, 38, founded the company
in 2013 and has raised \$25m (E21.5m)
from investors including Hoxton
Ventures, where he is a partner. Strong
growth in America, as well as three
acquisitions in the past three years,
helped sales hit £10.2m in 2016.

Online entertainment community
This Manchester company's flagship
website, ladbible.com, is the lith most
visited site in the UK, according to Alexa
raffic rankings. It was founded in 2012
by chief executive Solly Solomou, 26,
the solomous solomous solomous, 26,
the solomous solomo

10 Receipt Bank 185.30%
Bookkeeping automation services
More than 100,000 small businesses
around the world use this company's
software and accounting tools to save
time and money on bookkeeping.
Growth in its core markets of America,
Europe and Australia, and the adoption
of automation technologies
incorporating artificial intelligence,
helped Receipt Bank to more than
double sales to E. Zm last year. In July
this year it secured \$50m (£38.5m) from
American tech investor Insight Venture
Partners, bringing the total amount it
has raised to \$56m. The business is led
by co-founders Michael Wood, 41, and
Alexis Prenn, 55, and chief financial
officer Alex Gayer, 42.

11 GoCardless 174.15% Payment services provider Oxford graduates Hiroki Takeuchi, 31, Tom Bloomfield, 33, and Matt Robinso 31, set up GoCardless in 2011 to make



ge and produces an online magazine for its 2.5m members

Festicket, No 6, makes life easy for fans direct debit payment methods accessible to more companies, and simplify the process for others. The London company now employs 120 staff and processes more than \$3bm of direct debit payments each year for more than 25,000 businesses across Europe, ranging from sole traders to large companies such as Thomas Cook and TripAdvisor. It has raised E20m in venture capital funding, with investors including Notion Capital and Accel Partners. Sales hit £6m last year after the company won new clients by word of mouth and referrals.

12 Brainlabs 172.11%
Digital marketing agency
Chief executive Dan Gilbert, 32, left
Google to start Brainlabs from his
parents' artic in 2011 and has since
grown the company's sales to £14.8m,
figure that Includes media spending on
behalf of clients. Brainlabs runs online behalf of clients. Brainlabs runs online advertising campaigns for customers including Domino's, Expedia, Which? and Deliveroo, and builds technology to help the campaigns run more efficiently. Its programmes take into account factors such as the weather, time of day, user location and user

profile to help set the right price for clients' online advertising.

13 Outplay Entertainment 171.61% Mobile games developer More than 20m people have downloaded this company's Alien Creeps game, which challenges players to save the world from hordes of invading extraterrestrials. Specialising in free-to-play games for smartphones, tablets and social networks, the Dundee based studies's other successes include. based studio's other successes include Crafty Candy and Mystery Match.

Fuelled by £7.8m raised from Oxford Capital Partners, Pentech Ventures and Scottish Investment Bank, last year it acquired Derby-based competitor Eight Pixels Square and generated sales of £15.6m. Brothers Richard and Douglas Hare, 47 and 49, the serial entrepreneurs behind the business, claim it is now Britain's largest inde-pendent developer of mobile games.

14 Infinox 164.26%
Currency trading platform
Amateur traders go to this online
brokerage to buy and sell foreign
exchange, commodities and global
shares. Based in London, it has a website extrainge, commonutes and grooss shares. Based in London, it has a website that is available in six languages and has no utpost in Shanghat. Founder and chief an utport of the property of th

15 Virtus Data Centres 163.48% Data centre operator This company runs data centres on the periphery of London – in Enfield, Hayes and Slough, where it is planning to open an additional site next year. Led by chief executive Neil Cresswell, 52, it increased its market share last, helping sales to hit £23.6m. The London-headquatered business is owned by the property investor Brockton Capital and the Singapore-based technology investor ST Telemedia. In July it received a debt

investment of an undisclosed sum from HIG Capital to fund its growth strategy. Its operating-profit margin – 52% – is the highest in the league table.

16 Optal 162.84%
Payment services provider
Optal specialises in the creation of
single-use credit card numbers that
are used by travel, insurance and
international education companies to
international education companies to
to suppliers. Led by managing director
Rob Bishop, 61, the firm saw its sales
reach 1229 in 2016, helped by the
worldwide growth of the online travel
market. In April 1 acquired business-tobusiness electronic payments solution
provider Invapay for an undisclosed
sum. Optal is now looking to expand
the number of currencies in which it
offers payments.

17 Hyperoptic 160.86% Internet services provider Backed by billionatire hedge fund manager George Soros, this London-based company provides fibre optic broadband services that it claims are 30 times faster than the average UK connection. University friends Dana Tobak, 48, and Boris Ivanovic, 47, previously started Be Broadband, which they sold to 0, for £50m in 2006. They started Hyperoptic in 2011 and two years later raised £50m from Soros through his Quantum Strategic Partners investment vehicle. In July 2016 the company received £21m in debt financing from the European Investment Bank, followed by £100m from a consortium of banks in July this year. Expansion of its network to reach homes and businesses in 28 UK cities and towns helped sales hit £8.8m in 2016.



Outplay Entertainment, No 13, specialises in free-to-play games for smartphones, tablets and social ne







UKCloud, No 22, has worked to improve the way government procures IT and delivers public services. It is led by co-founder and chief executive Simon Hansford

18 WDX 155.25%

18 WDX 155.25% Wealth management platform Co-founders Gary Linieres, 50, Breut Randall, 54, and Spencer Clark, 44, started WDX in 2012. Its niche customer relationship management platform is used by wealth managers and family offices in the Uk and on the Continent. The Financial Conduct Authority's call for tighter regulation of customer records has been a boon for this London business, which saw sales climb to £6.2m last year. It launched in America in February with an office in Manini, and also has one in Vilnius, Lithuania.

19 Perkbox 146.34%
Employee engagement services
More than 25,000 businesses, ranging
from small firms to the likes of Worldpay
and Holland & Barreet, use Perkbox's
company employees and customers.
Co-founders Saurav Chopra, 39, and
Chieu Cao, 40, launched the business
in 2010 with the backing of angel
investors including Zoopla founder
Alex Chesterman and serial
entrepreneur Sherry Court. Last year
Perkbox's sales reached £14.7m, helped
by £4.4m raised on equity crowfulnding
platform Seedrs, alongside £2.5m from
Draper Espirt. The venture capital firm
injected another £6.6m in July this year

to finance Perkbox's expansion in Europe and America.

20 LoopMe 143.74%
Advertising technology developer
This company uses artificial intelligence
to find out what ads mobile users should
see on websites and apps. It claims to
platform in the world, which reaches
20 devices and is used by the likes of
Microsoft, Heineken and Op. Founded
in 2010 by Stephen Upstone, 46, and
Marco van de Bergh, 4.2, the company
has since opened offices on the
Continent and in America, China, India,
Singapore and Ukraine, helping sales hit
21.8 min 2016. In March, it amounced
a \$10m (E7.7m) fundraising from
investors including impulse VC and
Harbert European Growth Capital.

21 Iwoca 128.53%
Business finance provider
London-based iwoca suys it has funded
more than 10,000 small businesses
across Europe since it was established in
2022. Its technology uses data, such as
cashilow forecasts and sector-specific
information, to assess a business's risk
profile and make credit decisions
quickly and accurately. In October last
year it raised £21m from investors

including Prime Ventures and Acton Capital Partners. Under co-founder and chief executive Christoph Rieche, 37, sales, which are made up of interest and fee payments, grew to £13.2m last year. The company is aiming to support Im small businesses within a decade.

ncluding Prime Ventures and Actor

22 UKCloud 127.13%
Cloud services provider
From processing online driving licence
and visa applications to a DNA
sequencing project that will help to fight
rare diseases, UKCloud has worked to
improve the way the government
visable to the service of the service of the limit of the service of the limit of the service of the limit of the service to the lipin the event of a data
centre outage or disruption, and a
division that focuses on the healthcare
sector. Co-founder and chief executive
Simon Hansford, 52, previously set up
IT services provider Attenda, which
ranked No 2 in the inaugural Tech Track
100 in 2001.

23 Yieldify 124.67%.
Marketing technology developer yieldify so fivware tracks mouse movements to predict when a website visior will leave—it can then tempt him or her to stay with a promotional pop-up based on the person's viewing history. Users who abandon their purchases may also be tempted back by a series of emails. More than 1,000 websites around the world use Yieldify's technology, and its customers include Virgin Trains and Domino's. Co-founders Jay Radia, 32, and his brother Meelan, 28, have raised \$19.5m (ESm) from investors including Google Ventures, Softbank and Hoxton Ventures. They pushed annual turnover to £9.1m in April.

24 LoveCrafts 124.62%
Crafts communities platform
LoveCrafts provides a meeting place for
craft lovers across Europe and America
through its lovechitting, com and
lovecrochet. com ecommerce websites.
Lers swap ideas and buy products and
patterns, before sharing photos of the
results. It was founded in 2012 by Cherry
Freeman, 41, Nigel Whiteoak, 44, and

Edward Griffith, 43, and has since raised Edward Griffith, 43, and has since raised 444m from investors including Scottish Equity Partners to help increase its share of the global crafts market, estimated to be worth \$100bn (E77bn). Sales were Ells in this year, and LoveCrafts plans to create more online communities, encompassing sewing, quilting, papercraft, baking and cake decorating.

28 PsiOxus 120.50% Biotechnology developer Funding totalling £55m provided by the likes of Imperial Innovations and Mercia Technologies has helped PsiOxus develop viruses that can deliver medicines to cancer patients. It was formed in 2009 from the merger of two university spin-outs, and most of its income came from research grants. Revenue from licensing its own intellectual property bif £8 fm last year ntellectual property hit £8.6m last year after it secured a deal with biopharma multinational Bristol-Myers Squibb. This partnership is expected to boost sales to more than £50m this year. Led by chief executive John Beadle, 52, in June PsiOxus relocated to a new base in Abingdon, Oxfordshire, expanding its office and laboratory space seven-fold.

26 ZappiStore 116.87% Research services provider Founder Stephen Phillips, 48, set up this business to automate the proces behind traditional market research. behind traditional market research. The company goes into partnership with leading market research agencies by taking their proprietary research methodology and translating if into automated software, which it says is capable of generating results in hours rather than taking the usual weeks. In 2015, 2applistore raised £12m from Dutch venture capital firm Prime Ventures to add to an undisclosed investment from advertising galant WPP the year before. The funds helped the company to expand into America, a move that boosted revenues to £11m in 2016.

27 Funding Circle 111.80%
Peer-to-peer lending platform
Funding Circle has raised E250m from
venture capital firms and high-profile
investors, including Betfair's co-founder
Ed Wray, since ti was founded in 200 by
Individuals and the Bittish government,
have used its website to advance more
than E3bn to 33,000 businesses in
Britain, America, Germany and the
Netherlands. Under co-founder and
chief executive Samir Desai, 34, sales hit
E50.9m in 2016. In May the company
received regulatory approval to launch
an Innovative Finance ISA.

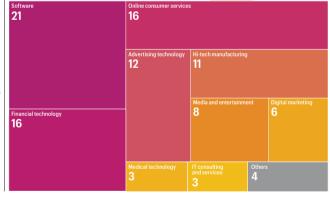
28 ImpulsePay 109.50%
Mobile payment technology
ImpulsePay's technology allows people
to make purchases on their mobile
phones in a few simple steps, a method
of payment up to seven times quicker
than using a credit card, according to
the firm. Examples of partners include
CrossCountry Trains, which uses its
payment platform to bill passengers for
access to wi-fi, and DonateToday, which
uses it for charity auctions. Founder and
chief executive Chris Newell, 37, set up
the business in 2009 and has integrated
its platform with all the leading UK
mobile phone networks. This helped
to boost sales in 2016 to 16.2 m, a
figure that includes the total value of
purchases made.

29 Neuven 107.11%

HR software developer
This Manchester outfit's software is used by large companies to cut back-office administration costs and comply with eligiblation on temporary agency staff and locums. It is led by chief executive John Simmonds, 50, who bought the fledgling enterprise from its seven founders in 2012. Growth has been boosted by an increase in workplace legislation and the acquisition of blue-chip clients, which helped to lift 2016 turnover to 286.4m – 97% of it from sales of software and the rest from providing training and audit solutions and seminars.

30 Love Energy Savings 103.17%
Price comparison website
Love Energy Savings allows smaller
companies to compare and switch
energy providers. Its technology
platform can compare 150 tariffs from
18 suppliers in less than 60 seconds. The
Bolton business also operates a separate
website that allows consumers to
compare and select cheaper energy
prices. It says it has helped 130,000 UK
momes and businesses save on energy
costs since it started in 2007. Managing
director Phil Foster, 44, secure da £4.5m
investment from private equity house
NVM in 2015. The company nearly
doubled its sales to £13.2m last year.

SECTOR BREAKDOWN OF THE TECH TRACK 100



Innovators strike advertising gold in the data mine

Over the past 17 years, Tech Track 100 has highlighted many of the most important trends in the UK tech scene, from the emergence of smartphones and cyber-

from the emergence of smartphones and cyber-security to online betting, peer-to-peer lending and cloud computing. This year, we are seeing a new generation of advertising technology companies come of age, with 21 in the league table sharing total sales of 2500m. This is not the first time this sector has come to the for addech, with 35 firms in the league table. However, this current wave of ad innovators has evolved from the high

wave of ad innovators has evolved from the high volume "spray and pray" approach of many of their predecessors to a focus on

Adtech firms are using the wave of new technologies to solve the industry's age-old challenges

TONY SPILLETT BDO



targeting, ensuring message targeting, ensuring messages reach the right audience.
The change has been driven by advances in technology, including real-time bidding for ads, and systems smart enough to find and analyse connections in vast amounts of data — otherwise known as artificial

otherwise known as artific intelligence.

An impressive example is Media iQ (No44), which processes a trillion data points a day to provide campaigns for blue-chip

pomts a day to provoce campaigns for blue-chip companies such as Mastercard and Heineken. Gurman Hundal and Lee Purl founded the business in 2010 with the aim of helping clients understand their data better. Hundal says: "At our heart, we are a technology and analytics company and our investment in these areas has ultimately set us apart." Their approach has worked well, with sales more than doubling to 591.9m in 2016. In July, the London firm raised an undisclosed sum from private equity firm ECI Partners to fund



Dan Gilbert's Brainlabs, No 12, has created ad campaigns for Deliveroo and Expedia

further growth overseas.

Another, Captify (No 38),
analyses more than 33bn
searches a month to build
campaigns for clients
including Amazon and Nike.
Having more than doubled
sales to E25.Im this year,
co-founders Dominic Joseph
and Adam Ludvin and Adam Ludwin understand the challenges faced by fast-growing firms in a niche industry.

"Working with the globe's biggest advertisers means that our technology must be able to power insights and campaigns all over the world," asys Ludwin. "This requires high-calibre people. We are continually challenged to find those superstar individuals who not only possess highly specialist skills but also have a challenger mindset."

Dan Gilbert left Google to start Brainlabs (No12) in 2011. Ad campaigns for the likes of Deliveroo and Expedia have helped it to raise sales to £14.8m this

year.
Gilbert has also
experienced the difficulty of experienced the difficulty of recruiting in such a rapidly developing sector. "Our industry is changing so fast that it doesn't matter what

you know about digital because it will be outdated within a year," he says. Ludwin and Gilbert are not alone in facing this skills app. The tech and media businesses I speak to tell me that finding people with the right skills is their primary challenge – one that requires an early focus during Brexit necotiations.

negotiations.

Much has been done already to improve the training and expertise of the UK workforce, but the workforce, but the government could go much further to bridge the gap in tech skills.

One step:

One step in the right direction would be the

direction would be the reinstatement of the two-year post-study work visa for postgraduates in STEM subjects (science, technology, engineering and maths).

We do not want to lose talented people – educated in our world-leading universities – to competitor economies when we can encourage them to stay and encourage them to stay and contribute to UK businesses and growth.

As well as looking beyond

As well as looking beyond the UK for talent, companies are also searching overseas for new markets, with 80% of this year's Tech Track 100

cohort generating revenue outside the UK.

A crucial factor to consider when operating globally is the complexity of regulation and taxation in different countries.

Entrepreneurs well versed in navigating domestic rules can become finstrated by the regulatory complications that arise from operating in multiple countries.

Global boundaries are shifting because of Brexit and, with potential new trade deals in the offing it and, with potential new trade deals in the offing it of the country of the

overseas market's miances.

As Gilbert asys: "The UK
is the greatest market on
the planet for starting a
tech business. We have
phenomenal talent, advisory
firms and capital. However,
once a tech business has
traction in the UK, it is
imperative to take it global
to access a larger market."
Firms such as Brainlabs,
Captify and Media (Q are
setting the pace for our new
economy and BDO is proud
to be taking this
international journey
alongside many of this year's
alongside many of this year's alongside many of this year's Tech Track 100. Tony Spillett is UK head of technology and media at BDO

BDO

31 Red Badger 102.61% Digital consultancy

31 Red Badger 102.61% Digital consultancy
Fortnum & Mason's online sales have exceeded those of its Piccadilly store for the first time, helped by an ecommerce site from this company. Red Badger's other recent projects include a content management system for Sly and a new online presence for London's Camden Market. The business specialises in helping companies become more interactive, often by implementing new open-source products within traditional corporate settings. Red Badger's three founders, Cain Ullah, 37, Stuart Harris, 54, and David Wynne, 37, met at IT consultancy Conchange before starting the business in 2010. They oversaw sales of £7m in 2016.

32 Threads Styling 102.30%
Online fashion services
This company uses social media to make it easier for cash-rich but time-poor fashionistas to get hold of the latest luxury clothes, footwear and accessories. Shoppers browse photos on the company's social media accounts and then use live messaging apps such as WhatsApp to place an order with Threads' personal shoppers, who might also match them with other items to be shipped by its partner retailers. Former fashion buyer and stylist Sophie Hill, 34, started the business in 2009. Demand from customers in the Middle East helped to drive net sales to £8.3m last year.

33 Victor 101.33%

Online private jet hire
Flying the super-rich to ski resorts and
chartering planes for pop stars are
among the services offered by this
travel management app. The company
was founded by chief executive
Clive Jackson, 57, who also set up
Global Beach, a digital marketing firm
that featured in the first Tech Track 100
in 2001. Victor has raised ElSm from
angel investors including Sir Elfon John.
In 2015 it expanded its American
business with the acquisition to
California charter firm Youngles.
Revenue, which represents total
booking value, hit £29.6m last year.

34 Immunocore 100.41%
Biotechnology developer
This Oxfordshire firm, led by chief executive Biot Forster, 5t, develops drugs that harness the body's immune system to fight cancer, infection system to fight cancer, infection diseases and autoimmune diseases. In 2015 it raised 205m from investors including Woodford Investment Management and Malin. It also set up a subsidiary in America. The company's partnerships with drug glants such as Glaxo Smith Kline and Astra Zeneca brought revenue of El6.5m in 2016, when it also made a large loss. It is expanding its Oxfordshire laboratory by 53,000 sq ft.

35 Blis 100.15%.

Advertising technology provider Businesses are increasingly advertising to mobile web users by exploiting the location data from their smartphones. Blis enables this targeted communication by analysing more than 550m data points each day. Its customers have included Sony, which it helped to identify and target people seen in proximity to phone shops that stocked the client's products. It also helped camera manufacturer Canon, which was able to target millennials interested in photography — but more accustomed to capturing moments on their smartphone — by looking at the locations they often visit. Led by founder and chief executive Greg Island, and the company raised funding of 100.00 milled to the company raised funding of 100.00 milled to find and Unilever Ventures. Eleven offices a cross four continents helped to boost sales to 228.2m in 2016.

36 StarLeaf 99.11% Video conferencing providerThis Watford company designs and



BBOXX, No 41, produces solar-powered battery packs and aims to provide reliable electricity for 20m people in the developing world by 2020

BBOXX, No 41, produces solar-powered manufactures doud-based video conferencing systems and software for company meeting rooms, desktops and mobile devices. It was started in 2008 by the management team of video conferencing business Codian, which appeared in Tech Track 100 in 2007. Tracklerg for 7520 to later that year Expansion into 50 countries helped sales at Startefar to 56m last year, under co-founder and chief executive Mark Loney, 48. In May, the company raised \$40m (C31m) from technology investors Highland Europe and Grafton Capital. This month it is launching a messaging app that it says will provide businesses with a secure and instant way to communicate with any device.

37 Lendinvest 97.90%
Property finance provider
This company's online lending and investing platform has facilitated £lbn of property loans to help fund almost 4,000 homes since it started in 2012. It also claims to have 10% of the shortalso claims to have 10% of the short term mortgage market. Co-founders Christian Faes, 40, and Ian Thomas, 36, have raised E39m to date, including E17m last year from Atomico, the venture capital fund run by Kype co-founder Niklas Zennström. The company is now seeking to raise a further E50m with a bond offering. Lendfuvest's sales – which represent loan interest, advisory fees and commission – grew to E22.1m this year.

38 Captify 96.05%
Advertising technology company
Captify's technology serves web users
Captify the company
Sabn searches a month, the company
uses the data to run campaigns and
offer insights for the likes of Amazon,
Nike, Sony and the Emirates airline.
Since launching the business in London
1 2011, founders Dominic Joseph, 33,
and Adam Ludwin, 30, have opened
further offices in New York, Paris,
Hamburg and Kiev. Panoramic Growth
Equity invested 1.2m in 2013 captify
a minority stake, and in 2015 Captify

raised a further £8m in a funding round led by Smedvig Capital. Sales more than doubled this year to £25.1m.

39 PM Connect 95.54%
Mobile content provider
Games hub Bounce Mobi, fitness
tracker iFitness and recipes portal
Love Food are among the lifestyle apps
developed by this digital publishing and
marketing business. Users in 15 countries
pay for the apps through their mobile
phone bills, meaning they don't have
to view any ads. The Birmingham firm
was started in 2010 by chief executive
james Macfarlane, 29, who grew sales
to an annualised £14.5m this year.

e electricity for 20m people in the devel
40 WorldRemit 95.07%
Currency transfer provider
After a career at the United Nations,
Somali-born Ismail Ahmed, 57, started
WorldRemit in 2010 as an alternative to
expensive high-street money transfer
services. The company has raised
\$ISSM (El42m) from venture capital
firms, including a \$100m round led by
the \$Iliton Valley investor TCV in 2015.
Every month, WorldRemit processes
more than \$650,000 online money
transfers from 50 countries to over
140 destinations. Headquartered in
London, it has opened offices in
North America, Africa and Asia, Sales,
which represent commission, grew to
£41.lm in 2016.

All BBOXX 94.77%

Solar system manufacturer
This producer of solar-powered
battery packs aims to provide reliable
electricity to 20m people living off-grid
in the developing world by 200.
Founders Mansoor Hamayun, 28,
Laurent Van Houcke, 30, and
Christopher Baker-Brian, 30, met while
studying electrical engineering at Christopher Baker-Brian, 30, met while studying electrical engineering at Imperial College, London and set up Imperial College, London and set up the business in 2010. They have since sold more than 70,000 solar kits in 35 countries, lifting sales to E8 ym in 2016. The company's 450 staff work across Africa, Funded by \$35m from investors including Canadian bank MKB, BBOXX

also provides software to monitor

42 Double Eleven 92.32%
Video games publisher
Led by founder and chief executive
Lee Hutchinson, 36, Double Eleven is a
publisher and developer of interactive
games for clients such as Sony
Interactive and Traveller's Tales. It
primarily adapts PC games for use on
consoles such as the Xbox One and
PlayStation 4. Its portfolio of games
includes the PixelJunk series, Goat
Simulator and a recent edition of the
Bafta-award winning Prison Architect,
which allows players to build and
control their own prison. More than
10m people have played the company's
games since it started in 2009. Growth
in its publishing business helped to
boost sales to 16.1m in 2016.

43 Symetrica 91.72%
Radiation detection equipment
This University of Southampton
spin-out designs and manufactures
equipment used by customs and border
protection agencies to identify materials
that could be used in dirty bombs. Its
patented technology can be found in
handheld detectors, used by the likes
of the US Department of Homeland
Security, and in drive-through scanners
at ports in Europe, the Middle East and
Latin America. It has raised 57m from
investors, including innovation charity
Nesta. Led by chief executive Heddwyn
Davies, 65, the company grew sales to
E8.2m last year.

44 Media IQ 91.20%

Digital marketing agency
Online advertising veterans Gurman
Hundal, 34, and Lee Puri, 43, set up
this digital marketing agency in 2010 to
help clients use data more effectively.
Its proprietary analytics platform, AiQ,
stores and processes more than one trillion data points every day,
allowing it to provide insight reports
and targeted advertising campaigns to
brands such as Mastercard and Sony.
Overseas expansion – including the
opening of offices in Germany, North
America, India and Australia – helped
sales, which include media bying for
clients, hit 59.5m in 2016. In July
Media IQ rated an undisclosed in the from private equity me Ecl Partners to
help it continue to expand abroad and
invest in product development.

45 Kano 87.88%
Educational computer developer
More than 29m lines of code have been
written by 85,000 amateur developers
using this firm's build-your-own
computer kits. Primarily for children,
the £140 kits come with storybooks to
guide young techies on how to code
games, art and music. Chief executive
ALE Klein, 27, co-founded Kano in 2013
with a \$1.5m (£1.1m) Kickstarter
campaign, and raised a further \$15m in
2015 from Breyer Capital. Customers in
more than 86 countries — and partnerships to stock its products at Barnes &
Noble and Toys R Us — boosted sales
to £6.3m in 2016. Kano aims to have
100m global users by 2020.

A6 Black Swan Data 87.22%
Analytical software developer
This London firm's technology helps
companies to predict sales by analysing
data from multiple sources, including
social media and weather sites. Started
by Steve King, 42, and Hugo Amos, 35,
10 2011, its first customer was Disney,
for which it helped to predict ticket
sales for new films by using a range of
metrics, including reviews and Twitter
activity. Today the company provides
services to many multinational clients.
These include Panasonic, which uses its
technology on inflight entertainment
systems to analyse passenger behaviour.
It raised 16.2 ml ast year in a funding
round led by Albion Ventures to further
accelerate international growth and
excelop is Ingray, Amora, Suith
Africa and the Far East, the company's
sales hit £15.1m in 2017.



ck Swan Data, No 46, founded by Steve King and Hugo Amos, helps companies to predict sales by analysing data



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enet has joined the board of Farfetch. No 52, which was founded by José Neves. The company is reported to be considering a \$5bn float set up in 2009 by Juan Lobato, 44, and Salvador Garcia, 40, and has a list of clients ranging from online retailers to charities. The company has raised a total of SSsn in funding from senture capital and private equity investors, including ESOn from a consortium led by Vitruvian Partners in 2015. The money helped it to launch in 20 countries, contributing to sales of £38.1m in 2017.

AT Adaptive 86.24%.
Financial software developer
Adaptive builds bespoke trading systems
for financial clients ranging from
financial clients ranging from
technology companies. Founded in
2012, it initially worked solely for one
client, an investment bank, but now
provides software to more than 30
customers from offices in London,
Barcelona and Montreal. This helped
2017 turnover hit £15.2m. Co-founders
and directors Matt Barrett, 36,
Olivier Deheurles, 36, John Marks, 40,
and Loic Roze, 37, plan to launch a
New York operation later this year.

48 Capital on Tap 84.49%

48 Capital on Tap 8.4.49% Business finance provider More than 25,000 small businesses have borrowed over £200m from this London-based online lender. It says it provides an all-in-one underwriting, collections and payment processing service. The business was started by serial entrepreneurs George Karibian, 52, and Jan Farrarons, 41, who also set up Paymentsense, which ranks at No 63 in this league table. Chief executive David Luck, 34, led the company to sales of £9.1m this year.

49 Zopa 83.49% Peer-to-peer lending platform Zopa, which says it was the world's first peer-to-peer lending website, was founded in 2004 by chairman Giles



No 57, builds up to 12 flight-ready mini-satellites each month

Andrews, 54, and managers of the former internet bank logs. The company generates review by Garaging a fee to facilitate loans between individuals, with E/hn having been advanced through its platform so far. Jaidev Janardana, 38, who succeeded Andrews as chief executive in 2015, oversaw sales of £33.2m in 2016. Indian finance group Wadhawan Global Capital led an investment round of £32m in June, as the company prepares to launch a "next generation" bank.

50 Cloud Technology Solutions 82.62%.
Cloud software developer
Som Water developer
Son targeting growth in America

51 Ebury 82.12% Business finance provider Small businesses that trade internationally use this company's online platform to arrange currency hedging, payments and loans. Ebury

52 Farletch 81.90% Online fashion platform London-based Farfetch is an ecommerce platform for luxury fashion brands that are keen to reach a global audience but are reluctant to appear on Amazon or Alibaba. It was founded by Portuguese entrepreneur jose Neves, 43, 12008, and today more than 700 independent fashion boutiques and brands use it to self their wares. It has raised more than 5200m in venture capital to help fuel its expansion, including a \$397m (305m) investment from Chinese ecommerce business JD.com in June. In the same month, Farfecth announced a comerce and commerce partnership with Conde sold through the site – almost doubled to £622m last year, when it made a large loss. In February it appointed Net a Porter founder Dame Natalle Massent, 52, as non-executive cochairman. Farfetch is reported to be considering a \$5bn stock-market float.

Payment systems developer
When a struggling shop in the Channel 4
series Mary Portas Secret Shopper
required a more modern way or required a more modern way or reading the systems of the systems of the systems of the systems of the systems are used by more than 30,000
businesses ranging from shops to hotels are used by more than 30,000
businesses ranging from shops to hotels and bars. Former bar owner Jacyn
Heavens, 34, started the company in
2011 after becoming frustrated with existing technologies for monitoring stock and sales. Last year's opening of an American office in Florida helpedit to boost sales to £13.9m this year. The business is investing £10.5m in an expansion plan under which it will create 150 jobs.

d by José Neves. The company is report

S4 Performance Horizon 77.61%

Marketing software developer
Performance Horizon's software enables
companies such as Adidas, Expedia and
Sainsbury's to monitor and manage their
online business partnerships. The ensilone software enables
companies such as Adidas, Expedia and
Sainsbury's to monitor and manage their
online business partnerships. The ensilone
Newcastle upon Tyme, also manages
payments in 60 currencies to partners
all over the world. Sales, which are
made up of its set fees, hit fell J5m last
year. The company's co-founders,
Malcolm Cowley, 39, and Paul Fellows,
45, previously started the online
marketing business Buy,at, which
featured in Tech Track 100 in 2007

55 Qualasept Pharmaxo 76.95% Pharmaceuticals manufacturer This company began in 2005 as Bath ASU, a spin-out from Bath University, le by co-founders Richard Wastnage, 52, Christopher Watt, 49, and Maria Watt, 47. It prepares specialist medicines individually tailored to patients' needs, such as chemotherapy doses. In 2010 the group launched a sister business, Pharmaxo, which provides traditional

pharmacy and hi-tech homecare services. It has developed what it says is the single biggest aseptic clean room in the UK, a move that helped to boost the group's sales to £87.9m last year.

56 iPulse 72.47%
Hair removal technology
The devices created by this Swansea
manufacturer use high intensity pulses
of light to target unwanted hair and stop
growth at the root. The products scan
the user's skin tone before automatically
setting the energy level required. The
company began by making hair removal
devices for professional salons, but now
sells its SmoothSkin products direct to
UK consumers from high-street shops,
including branches of Boots and Argos,
as well as in II other countries. Backed
by BGF chairman Sir Nigel Rudd and
early Betfair investor Richard Koch,
the company increased its sales to the company increased its sales to £17.5m in 2016 under chief executive Giles Davies, 49.

57 Ciyde Space 71.95%
Satellite manufacturer
Glasgow-based Clyde Space designs and
makes miniature satellites, including its
CubeSat range of nanosatellites. In
CubeSat range of nanosatellites. In
CubeSat range of nanosatellites. In
European Space Agency to Outernet, an
American broadcast data company that
plans to provide free internet globally
through hundreds of nanosatellites.
Chief executive Craig Clark, 45, started
the firm in 2005, and it is chaired by
Will Whitehorn, 57, who helped to
conceive Virgin Galactic. Sales grew to
E.5. 3m last year. It completed a large
order for a Mexican client in February
and is planning to secure more business
from Latin American customers.

F8 CashFlows 71.91%
Payment services provider
This company's platform is used by
more than 1,500 small businesses and
large corporations in the UK and Europe
to take credit and debit card payments
online. It also processes withdrawals—
totalling £1.70 in 2016—from more
than 35,000 cash machines across
Europe. The Cambridge business was
founded in 2003 and has partnerships
with both Visa and Mastercard.
CashFlows received backing from
angiority investor Pollen Street Capital
in 2011, and in 2016 acquired the online
payment provider Icheque for an
undisclosed sum. Sales – chiefly
comprising fees for the use off its
platform—hit £37.3m last year. The
company is led by chief executive and
chairman Martin Belsham, 57.

S9 CitNOW 71.89%
Video software developer
This company's technology allows a
car dealer to give a tour of a vehicle
without the customer setting floot in a
some proper of Vollewagen, which has
brought in CitNOW across its UK
dealership network - uses its app to
record a personalised video about a
car and send it to the customer.
Mechanics use a separate app to
update owners on work needed on
their vehicle, and another allows
owners to film their car and get
a valuation. Under the Wokingham firm's
founder, Andrew Howells, 56, sales hit
E7m last year.

60 geo 71.76% Smart energy monitoring This company designs and manufactures smart devices to help people monitor and control the amount of energy they use in their homes. Its products, which can be controlled by a smartphone or PC, include smart thermostats and metering devices. Patrick Caiger-Smith, 55, and Simon Anderson, 66, Sarried the Cambridge Dustiness in the company of the Cambridge Dustiness in the company of the Cambridge Dustiness in the since sold more than 4m devices, mostly through utility companies such as Britist Gas and EDF, lifting sales to £22.6m in 2017. The company is backed by the Low Carbon Innovation Fund and has other investors, including former Dragon Nick Jenkins and Lord Oxburgh, a former chairman of Shell.

HEADOUARTER LOCATIONS OF THE TECH TRACK 100



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Entrepreneurs developing the latest technology can tap into a lot of expertise and capital

BGF VENTURES



Britain's digital economy is coming of age. The entrepreneurs working on our latest ventures, from virtual reality to artificial intelligence, are able to draw on technical and commercial expertise, as well as capital, on an unprecedented scale. Many of them have been mentored or backed by an earlier generation of tech entrepreneurs who cut their teeth during the doctom

entrepreneurs who cut then teeth during the dotcom boom.

Those who sold their own wentures have not

disappeared to the golf course. Instead, many share their knowledge and reinvest their wealth to fuel the next their wealth to fuel the next seneration of innovators. The £24bn sale of Cambridge chip maker, ARM Holdings, to Softstank of Japan last year could help to reinforce this Silicon Valley-style effect. Some of the company's senior staff will capital to back a fresh conbort of potential world-beaters. We have already seen how Autonomy's Silbu sale to Hewlert-Packard in 2011 resulted in the British firm's founder Mike Lynch creating a new tech fund, called Invoke Capital, which is behind cyber-security specialist Darktrace (No.3) and other ventures. My own emrepreneurs in Journey also lilustrates the deposition of the Silburgh Capital (1994) founded the DIY website builder Moonfruit with my husband, Joe White, and Erik Pettersen and raised £8m to expand our venture. The doctorn

crash in 2000 hit us hard, and we cut back from 60 staff to just two as we boootstrapped the business. We turned around its fortunes, raised \$2.5m in 2010 to accelerate its growth and sold it to lithly for \$3.7m in 2012. We stayed on for almost three years to scale up Moonfruit within Hibu, taking it from sales of £8m, with a 95% profit margin, to £120m by the time we left. During the bootstrapping phase, I also became part of the launch team at Zopa, working with Giles Andrews, who is now the chairman of this peerst-opeer lender, which features for the fourth time in the Tech Track 100 – this year at No49. Its chief executive at the time, Richard Duvall, previously my boss at the former Egg internet bank, became an important angel investor for Moonfruit.

Having launched, financed, scaled up and sold wy own venture, for the past two years Joe and I have been working as general partners

at Entrepreneur First, a deep tech company builder. As a mentor and investor, I have helped young entrepreneurs create 21 companies. And this is where BGF comes in. The UK has done a good job of attracting venture capital – £1.60n in 2016 – into early stage companies. But too few tech finding the companies of the companies of the companies of the companies. But too few tech material stage of the companies of the companies of the companies. But too few tech material stage of growth capital and BGF was created to provide just that, which is why I have recently joined its why I have recently joined its venture team as a partner. It is a unique entity – a £2.5bn evergreen finds et up by the main banks – that invests its capital off its blance sheet, taking minority stakes and providing access to advisers who can help founders who can help founders who can be companied to the companied of scaling up a business. As a founder, I know the personal price entrepreneurs have to pay to get their ventures off the ground. I know deals don't always work out – the best-laid



Big hitter: Jonathan Gale of Ne wVoiceMedia, No 82, which is backed by BGF Ventures

plans can go awry. The key is how entrepreneurs, and their backers, respond to such setbacks. such setbacks.

A number of Tech Track
100 alumni have already
chosen to work with BGF. In
this year's table they include

UKCloud (No 22), Bullitt Group (No 90), M Squared Lasers (No 79), Milk Visual Effects (No 73), as well as NewVoiceMedia (No 82). The latter sits within BGF Ventures, which focuses on younger, high-potential tech

firms. With a £200m fund,

ithis. With a 2001 tithid, it typically invests between fIm and £6m, and has so far backed 18 companies with £50m in capital.

There are challenges to Britain's status as the leading technology hub in Europe.

single market for customers and talent across the European Union. New visas for "exceptional talent" have certainly helped to make it easier for smart, young people to come to Britain to set up wentures. But these founders also need to attract skilled people to work with them and Brexif fears do not help. We need assistance with this issue different the European Union. Fortunately, the UK's digital ecosystem is innovative and adaptable. It will find ways around such problems. And recent advances in technology, such as artificial intelligence, offer huge potential to change our lives for the better. Britain can be at the forefront of its development. In coming years, digital companies, such as those in Tech Trait arther than the exception.

TECH TRACK 100

61 Trak Global Group 70.60% Vehicle tracking technology This Crewe-based company's apps and black boxes are used to monitor motorists' braking, speed and driving style. Insurers such as More Than use the data to reward safe driving with lower premiums. In addition, lower premiums. In addition, automotive partners offer free insurance underpinned by the group's technology, and its Appy Fleet software allows fleet partners such as Rentokil to track their vehicles via employees' smarrphones. In June, Trak Global Telematics merged with sister business Carrot, a provider of insurance policies for young drivers, to create a group with combined 2017 sales of £25.3m. It is led by co-founder and chief executive Nick Corrie, 48.

62 RateSetter 68.00%

Peer-to-peer lending platform

This firm allows 50,000 investors to lend directly to borrowers and set their own interest rates. Under co-founder and chief executive Rhydian Lewis, 40, it has raised 230m from investors including veteran fund manager Neil Woodford and sales, which are made up of fees, hit legs. 73 m this year. In May, it appointed City veteran Paul Manduce as chairman, as it gears up for a stock market float. In July, Rate-Setter revealed that it had taken over two businesses and acquired a minority stake in a third, to protect investors from losses. Then, last Monday, it was reported that the company had put investors' money into investments offered by rivals without telling its customers. RateSetter says it no longer does this.

63 Paymentsense 67.54%
Payment services provider
Through its proprietary technology
platform, Paymentsense helps small
businesses process payments online, in
store, over the phone and on the move.
Founded in 2009 by serial tech
entrepreneurs George Karibian, 52, and
Jan Farrarons, 41, it now serves more
than 60,000 businesses – providing

64 Grapsehot 65.68% Advertising technology developer By using Grapsehot's algorithm, advertisers can search for and analyse keywords on billions of webpages in real time to reach the right audiences. Founders Martin Porter, 73, and John Snyder, 51, met at Cambridge University and created Muscat, an early search engine, which they sold in 1997. They launched Grapeshot in 2002, spending four years developing the technology before starting to trade. They have since opened offices in London, New York, Chizago, Singapore and Sydney, helping to lift sales to £9m





in 2016. The company has raised £17m from investors, including IQ Capital and Draper Esprit.

65 AnalogFolk 64.50%
Digital marketing agency
A multing marketing agency
A multing marketing agency
A multing marketing agency
A multing marketing marketing

Data security provider
Egress supplies data security services
designed to protect shared information.
The company's Switch platform enables
users to set date and time restrictions on
when their emails can be accessed, and
even revoke messages after they have
reached the recipient's inbox. The
company's software and support
services are used by public sector bodies
across the UK, including 35% of all
local authorities, uncluding 35% of all
olcal authorities, which will be a company
must be a second to the company
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67 TouchNote 62.07%
Personalised photo-card provider
Proud new parents and holidaymakers
are among the biggest customers of this
app for sending postcards and greeting
cards. Users upload a photo from their
martphone or tablet and add a
message; TouchNote then prints the
result and posts it. So far, the company
has sent more than 9m cards all over
the world. It has also started sending
personalised canvases and framed

photos, helping sales hit £5.1m last year under chief executive Oded Ran, 38.

68 Secret Escapes 61.31%

Online travel services

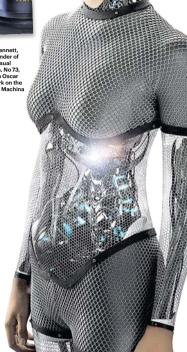
More than 35m people have signed up as members of this website, which says it aims to inspire the world to escape. They can choose from 500 deals each week for four and five-star hotels and holidays, ranging from UK country house hotel and city breaks to luxury brown to the same than the company has raised £5im from tech investors including Google Ventures and Index Ventures, helping it to launch websites targeting America and nearly 20 countries in Europe and Asia. Founders Alex Saint, 46, and Tom Valentine, 36, started the business in 2010 and have used television advertising to bring it to the public eye, helping to boost sales, which represent commissions, to £48.7m last year.

69 Giacom 60.73%

Cloud services provider
More than 4,000 software resellers,
consultants and IT service providers
use this company's cloud-based
MessageStream platform to bitware
and document storage to encryption
and anti-virus software. Founder Nick
Marshall, 47, started Giacom as an
internet services provider in 1959. He
de al management buyout last year,
from private equity firm IDC. Sales hit
26.6m in 2016. The company expects
them to double this year under new
managing director Mike Wardell, 36.

70 LPW Technology 60.69% Metal powder manufacturer LPW's metal powders are used to make everything from turbine blades and car parts to medical impalants. Its PowderLife software helps individual customers comply with their industry's manufacturing quality standards. LPW has offices in America, Germany and Italy and distribution partners in

Effects, No 73



a further seven countries, including China and Japan. Under founder and chief executive, Phil Carroll, 39, sales grew to an annualised £10.4m last year. Funded in part by April's undisclosed investment from American 3D printing investment from American 3D printing company Stratasys, the Cheshire firm plans to spend £20m over the next two years to develop its manufacturing facilities and product range.

Prepaid Financial Services 59.05%.
Payment services provider
Businesses and public bodies keen to monitor and control staff spending are signing up to the services of this London firm. Founded in 2008 by chief executive Noel Moran, 47, it operates in 24 countries and processes transactions in 20 currencies. Its flagship product is a prepaid eard that can be used across Europe. Other services include contactless payment systems, smartphone apps, multicurrency cards and corporate expenses products, helping the company to generate sales of £41.8 mi 2016. In Pebruary, it paid an undisclosed sum to acquire Malta-based Technologies in a move designed to accelerate its product development capabilities. It is the only company in this league table to feature for a fifth consecutive year.

72 Croud 58.75% Digital marketing agency This company played digital cupid on Valentine's Day, helping its client Interflora identify men who were searching for lowers on mobile devices and then sending ads to these potential customers. It lists Hiscox, Victoria's Secret and Virgin Trains among the customers of its services in search engine optimisation, content, paid search and social media. Croud uses a network of 1,200 digital marketing

experts, so-called Croudies, to drive marketing campaigns across 107 experis, so-caneer croduces, vortice marketing campaigns across 107 countries and 77 languages. It is based in London but has offices in Shrewsbury, New York and Sydney. International sales made up a third of its 2017 sales of £57.m, which represents fees. The company is led by founders Ben Knight, 37, and Luke Smith, 42.

73 Milk Visual Effects 57.94%

73 Milk Visual Effects 57.94% Visual effects developer An Oscar for co-founder Sara Bennett, 43, for creating visual effects used in the film Ex Machina – including a brain for robot protagonist Ava, pictured left – is among the many gongs this company has collected since starting just four wears ago, It also won an Emmy for has collected since starting just four years ago. It also won an Emmy for sequences in a special episode of the BBC's Sherlock and three Baffas for wor on television shows including Doctor Who. Led by co-founder and chief executive Will Cohen, 46, the company attracted new business after its award wins, helping sales grow to £10.3m this year. In June it raised £2m from year. In June it raiseu 22111 110... growth-capital firm BGF, to help it

74 The Media Image 56.77%

Digital marketing agency
Grant Macfarlane, 43, created this
digital marketing agency in London
in 2009 as a sister company to a in 2009 as a sister company to business he had founded in his business he had founded in his native South Africa 18 months earlier. The Media Image offers pay-per-click search engine optimisation, social media and design services for clients such as the cosmetics company Avon, bookmaker Coral and money transfer website Azimo. The business operates from offices in London, New York and South Africa, Gross sales, which include media buying for clients, reached E18-4 mi 2014.

75 Ipsotek 55.92%
Video analytics provider
Perimeter incursion, abandoned
vehicles and loitering are among the
scenarios that Ipsotek's patented CCTV
counter flootage in real time to look for
predetermined situations and then
tracks any dangers it identifies. The
software is used by Transport for
London, Network Rail, nuclear power
plants, government buildings and at 26
international airports. Led by chief
executive Bill Filind, 58, the bussiness saw
sales reach ES. Imi 2016, 529 this
generated overseas. The Wimbledonbased company also has offices in the
Middle East, Singapore and Canada.

76 Bedo Gaming 54.41%.

Gambling software developer
Bede's gambling platform handled
£2.5m of wages last year, for clients,
considered to the control of the control
bigo Chain. It offers access to more than
700 games from third party suppliers,
as well as bingo, solts and table games
developed by Bede staff at its offices in
Newcastle upon Tyne, London and
Sofia, Bulgaria, It is led by chief executive
Michael Brady, 39, one of four
experienced gambling industry
operators who set up the business
in 2012, Sales hit £8.2m last year.

LARGEST EMPLOYERS IN THE TECH TRACK 100

52	Farfetch	Online fashion platform	1,242
27	Funding Circle	Peer-to-peer lending platform	741
5	TransferWise	Currency transfer provider	598
51	Ebury	Business finance provider	480
3	Darktrace	Cyber-security developer	475
41	BBOXX	Solar equipment maker	447
4	Hunter Macdonald	IT consultancy	437
82	NewVoiceMedia	Contact centre software developer	370
68	Secret Escapes	Online travel services	368
84	Brandwatch	Social media monitoring	35.4

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Computer games developer
Amateur Surgeon, in which players
attempt to perform surgery using
household items such as a pizza cutter, is
among the mobile games created by this
London company. Other recent projects
include a mobile game for Harry Potter
prequel Fantastic Beasts and Where to
Find Them, which it developed with
Warner Bros. In 2012, Mediatonic raised
an undisclosed sum from venture capital
firm Frog Capital and angel investors,
including Games Workshop cor founder
lan Livingstone. It has since opened
studios in Brighton and Canterbury,
helping sales to hit E7-Am in 2016. The
company is led by co-founders Dave
Bailey, 33, and Paul Croft, 33.

78 InfoMedia 52.34%
Mobile payment provider
Mobile-phone users increasingly chargesmall tiems such as car parking and
coffees to their mobile-phone bills, or
deduct them from pay-asy-oup credits.
Northampton-based InfoMedia has
developed a plaform that links the two
sides of the transaction, the mobilephone companies, such as EE and
Etisalia, and the merchants, such as
EA Games and various coffee chains. Led
by chief executive Michael Tomlins, 38,
the company has invested to ensure its
platform is scalable. The growth in app
and smartphone use helped sales to
reach £34m in 2016.

79 M Squared Lasers 52.13%
Laser designer and manufacturer
This Glasgow company designs and
manufactures lasers and photonic
instruments for a range of applications
in quantum technology, biophotonics
and chemical sensing. Its customers
include research institutes at universities
usuch as Cambridge, MIT and Harvard.
It was founded in 2006 by Graeme
Malcolm. 48. and Gareth Maker. 52. It was founded in 2006 by Graeme Malcolm, 48, and Gareth Maker, 52, serial entrepreneurs who had previous spun out the optoelectronics firm Microlase from Strathclyde University

before selling it to Nasdaq-listed Coherent for £2m in 1999. Since 2012, M Squared has received £6.3m from BGF, the growth-capital firm, helping sales to reach £13.9m this year.

80 Kimble Applications 50.80% Software developer More than 30 angel investors back this London company, which provides professional services firms with software. Its features include budget tracking, forecasting and resource scheduling. Kimble Applications was started in 2010 by some of the team behind Edenbrook, an IT systems integrator that featured in the Tech Track 100 four times before

it was bought by Hitachi for an undisclosed sum in 2009. Chief executive Sean Hoban, 49, oversaw sales of 55.2m in 2016. In May the company launched new software that identifies patterns in data to suggest what steps are needed next in project management.

81 Infectious Media 50.53% Advertising software developer By tailoring ads to individual consumers. Infectious Media helps the likes of Adidas and Expedia to convert ad views to sales. The London firm's recent projects have included working with Waitrose to improve the efficiency of the digital advertising so as to drive up the

number of purchases that consumers make on its online grocery site. Infectious Media's advertising platform, Impression Desk, collates, processes and integrates campaign data. The opening of new offices in Chicago and Singapore boosted its 207 sales to 45.5 m, which includes media buying for clients. Co-founder Martin Kelly, 41, leads the company as chief executive.

Contact centre software developer
NewVoiceMedia provides cloud
technology that integrates telephony
systems with existing company data to
improve the performance of sales and

support staff. Working with clients such as Vax, Parcelforce and Berry Bros & Rudd, the Basingstoke company says has benefited from the move toward cloud computing, especially by larger enterprises. The company has raised more than £100m in funding since 2016, from investors including BGF ventures. In June 2016 it held its inaugural Connect conference at the ATRT park in San Francisco, home of the Giants baseball team. Chief executive Jonathan Gale, 49, led it to sales of £32.2m this year.

83 ActiveQuote 49.02%
Price comparison website
Consumers can use this Cardiff
company's website to find the deals that
best suit them for health insurance,
income protection and life insurance.
Its technology is also used by other
comparison websites such as
Confused.com, GoCompare and
uswitch. Sertal entrepreneur Richard
Theo, 54, made use of his PhD in
computer networks to start ActiveQuote
in 2009, putting in his own money
before securing film in funding from
16 business angels in 2014. Under his
leadership, the company increased
sales to £7.6m in 2016.

84 Brandwatch 48.96%

84 Brandwatch 48.96% Social media monitoring Each day this Brighton business analys more than 200m pieces of online data help brands such as Sony Music and L'Orèal understand their customers its tethnology tracks social media conversations to uncover trends and opinions and offer companies insights on what consumers are interested in. Founder Giles Palmer, 48, led at E23m fundraising in 2015 from investors including Partect Ventures to help expand the business in America, its biggest market by revenue. Sales grew to £29.1m in 2016. In June the firm launched an image-recognition launched an image-recognition platform, Brandwatch Image Insights, to help companies keep track of instances where their logos appear online.

85 Lyst 48.66%
Fashion search platform
Co-founder and chief executive Chris
Morton, 35, set up this global fashion
search engine in 2010. Its 65m visitors
are recommended a selection from the
4m items available on Lyst's platform,
depending on their search history.
Computer algorithms tell shoppers
when a favourite brand has new items
available. Making this possible is the
company's 45 engineers and dark
scientists, who represent nearly half of
its workforce. Lyst hars raised £39m from
investors including Accel Partners,
Balderton and Groupe Arnault. Sales in
2017 totalled £10.5m, which represents
commission paid to Lyst by retailers and
brands such as Burberry and Valentino.

86 Godel Technologies 48.65%.
Software developer
Godel provides software development services to companies such as Virgin Holidays, Boden and Experian. Its current projects include developing ecommerce software for the White Company, Godel has its headquarters in Manchester, but most of its staff and based at its two software development centres in Belarus, where the firm was started in 2002. Under chief executive Neil Turvin, 36, sales hit 93.1m in 2016. The company is planning to double its 350-strong workforce by 2020.

87 PrivateFly 48.38%
Online private jet hive
Former RAF pilot, Adam Twidell, 45,
and his wife, Carol Cork, 44, raised £2m
And his wife, Carol Cork, 44, raised £2m
St. Albans firm in 2008. Its website and
app, built in-house, enable customers to
search for and book flights on 7,000
privately owned jets. Last year the
company opened an office in Fort
Lauderdale, Florida, to serve its growing
American clientele. Increased uptake by
leisure and business customers, including celebrity jetsetters and high-flying
executives, helped sales—the total value
of bookings – reach £22.3m this year.



Find the right backers and you can reach for the sky

A young business's upward trajectory is smoother and more certain with the backing of expert investors

TIM COCKROFT N+1 SINGER



Have you ever packed up your office, taken down the pictures and contemplated your next role?

Most entrepreneurs, like those who run this year's Tech Track 100 companies, experience at least one moment when everything is going against them. Yet instead of turning their backs on the venture, they keep at it – this is what makes them entrepreneurs.

we set up N+1 Singer in April 2006 backed by Singer & Friedlander, but at the

height of the credit crunch it went into administration and all hell broke loose. Our clients rang up to say that, while it was not personal, they would not be doing business with us until they could see we were going to be OK.

It was time to pack my bags. But after the embarrassment of walking out with my possessions in a box, I got home and realised that we had to try to resurrect the business, so we got on with finding a solution. By May 2009 we had bought out Singer & Friedlander and brought in a team to restart the business.

brought in a team to restart the business. We found new partners, our clients came back and we have since raised billions of pounds of growth capital for British businesses. I have been lucky enough to be involved in two startups, having also been one of the founders of advisory firm Peel Hunt in 1989, where Charles Peel showed me how to build a business. We floated Peel Hunt in 2000 at

a valuation of £137m and it was later sold for £268m.
Because of my own experiences as a founder, I have seen companies in all the different stages of growth from the inside. This puts us in great stead when talking to entrepreneurs about how to fund their businesses. Nothing ever performs the way it does on a flip chart – it might be close but, in reality, none of us can

way it does on a flip chartit might be close but, in
reality, none of us can
predict the flight path of
young companies. What we
can do is ensure a business is
properly funded during its
development and as it begins
its commercial journey.
Last year, we worked on
the 13-4m float of online
accounting software firm
FreeAgent, which was a Tech
Track 100 Ones to Watch in
2014. It had raised money
from crowdfunding and
wanted to step up into the
markets by listing.
As co-founder and chief
executive Ed Moyneus says
executive Ed Moyneus says
executive Ed Moyneus says
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also in terms of increasing validation in the company, the visibility of the company, and also starting to generate liquidity for some of our early investors." In listing FreeAgent, the executive team maintained control, had a new board and found supportive yet

executive team maintained control, had a new board and found supportive yet passive shareholders – this is the secret of equity markets. Perform well and the shareholders will remain passive; they are giving you permanent capital to build your business, with the strategy approved by the company's board.

Even for tech firms, floating in London is a viable alternative to the siren call of a Nasdan listing in New York. We encourage companies to remain big fish in a smaller pool by listing here, rathen become small fish in a smaller pool in American for the sirened E34-bit no farst his year. Market participants are looking for growth and will back firms with potential. There are several



Ed Molyneux floated former Tech Track 100 firm FreeAgent on the stock market in 2016

characteristics that investors look for in such businesses. These include the ability to use capital efficiently and expand effectively. One example of a business in this year's league table that meets these criteria is

Virtus Data Centres (No15), which is benefiting as more organisations opt for secure offsite IT networks. The firm is owned by the property investor Brockton and the Singapore-based technology investor ST Telemedia. It

plans to open a fourth data centre next year after sales reached £23.6m in 2016.

Another strong performer is the peer-to-peer lending platform RateSetter (No 62), which matches borrowers with 50,000 lenders –

myself among them. It has raised £30m from investors including veteran fund manager Neil Woodford, and the company's sales hit £23.7m this year. In May, RateSetter appointed City veteran Paul Manduca as chairman, a move that signals that

Paul Manduca as chairman, a move that signals that its management and shareholders – which include Artemis, one of our shareholders – are exploring their options on ways to scale up the business, potentially through a float. At N+1 Singer, we look for good management teams running businesses with great growth stories to

with great growth stories to tell. We find them equity capital so that they have the time, stability and control to

when ambitious and innovative businesses, such as those featured in Tech Track 100, have access to track 100, have access to the right funding, there is no limit to what they can achieve. Tim Cockroft is founder and chief executive of N+1 Singer

TECH TRACK 100 N+1 SINGER

88 Spektrix 48.04%
Ticketing software supplier
Birmingham's Symphony Hall, the New
York Theatre Workshop and Chichester
Festival Theatre are among 300 arts and
reland and North america to work with
Spektrix. The firm delivers ticketing,
marketing and fundraising software,
with features such as real-time audience
analytics and email marketing. Under
co-founders Michael Nabarro, 36, and
Matt Scarisbrick, 37, the company grew
turnover to £5.2m in 2016, when it
handled sales of more than 15m tickets,
with a total transaction value of over
£300m. In the same year, it also
processed 516,000 merchandise
transactions, 40,000 memberships, and
nearly 400,000 charitable donations.

89 Chameloon 47.97%
Smart energy monitoring
Nearly 2m of this company's energy
display units have been installed in
homes around the UK since it was
started by Gary Martin, 37, and Mike
Woodhall, 50, in 2010. Its devices help
customers monitor and reduce their
energy consumption. The company
designs and manufactures the display
units, and then sells them through
energy providers such as Eon, EDF,
Scottish Power and Ovo, as part of the
government's smart meter rollout.
Sales hit E10.9m last year.

90 Bullitt Group 46.86%
Consumer electronics designer
This Reading manufacturer designs and
produces rugged mobile phones and
other consumer electronics under
lience from global brands such is also working
Caterpillar and Kodak. It is also working
Caterpillar and Kodak. It is also working
company raise 61.55 m in investment
from growth-capital firm BGF in 2012,
and last year it released a smartphone
under the Kodak brand designed to
bridge the gap between high-end digital
SLR models and mobile phone cameras.
Bullitt is led by chief executive Peter
Stephens, 50, formerly of Virgin Group,
who works alongside co-founders and
directors Richard Wharton, 45,
Colin Batt, 59, and David Floyd, 54.
Sales were £595.7m in 2016.

91 Lineup Systems 46.16% Advertising technology developer Lineup Systems provides advertising platforms and services to some of the world's largest media companies across print, broadcast and digital media, such as the Toronto Star, Time Inc and News UK, publisher of The Sunday Times. Applications include integrating the booking and invoicing process across different media. The company wars formed in 2010 in a buyout from Metro International – now another of fits customers – led by chief executive Michael Mendoza, 41. NVM Private Equity invested £3m in 2012 to help the company's overseas growth. Sales reached £7.3m last year.

92 Ratio 46.11%
Price comparison website
People with a poor credit history or none at all are among the target customers of this company's Choose Wisely website, which aims to make it simple for people to pick financial products. Bournemouth-based Ratio also provides its software to power rival comparison services. Its other offerings include Briefd, a men's underwear subscription club, and Remora, an artificial intelligence tool that helps ecommerce websites to convert visitors into customers. Founders Marc Biles, 36, and Tara Flynn, 31, spun the company out of the Richmond Group business incubator in 2013 and led it to sales of £8.8m this year.

93 SaleCycle 45.85%

Marketing technology developer
Technology developed by this firm
encourages online shoppers to complete
abandoned transactions, helping more
than 600 brands, such as Tommy
Hilfiger, Hertz and Ikea, boost sales.
Potential customers might see an
onscreen prompt, for example, or be
tempted back later by a text message
or email. Chief executive Dominic
Edmunds, 39, started the business in
2010 and led it to sales of £12m this year.
Based in Tyne and Wear, it also so
fileses in America, France, Australia and
Singapore and operates websites in
Japanese, French and Chinese.

94 Feefo 45.07%
Customer review platform
Feefo, an abbreviation of Feedback
Forum, collects consumer reviews for
more than 3.500 brands, including
Paperchase, Expedia and Hiscox. The
Hampshire company's clients use it to
ensure that only genuine customers
share their opinions, and a new feature
means feedback requests can be
personalised to enhance the client's
brand. In March, the company
announced a partnership with



On top: marketing agency MVF, No 96, operates in more than 120 countries. Its technology helps clients such as British Gas to acquire new custo

Autotrader to provide online car review for dealerships. Feefo is led by founder Andrew Mabbutt, 53. Nick Wheeler, founder of Charles Tyrwhitt shirts, is its main investor. Turnover grew to £8.1m this year.

95 Dianomi 44.24% Content marketing services This London firm helps companies such as banks and wealth managers to reach 100m business news readers each

month. Its platform lets clients define their target audience using criteria such as demographics and location. It then such as demographics and location. It then websites, including Market watch, Reuters and CNN Money. Cabell de Marcellus, 48, Raphael Queisser, 43, and Rupert Hodson, 45, started the firm in 2003. Offices in Sydney and New York helped Dianomi to more than double its alse to 58.7 mlast year. It is planning to open an outpost in Germany.

Digital marketing agency
This marketing firm, ranked No1 on
Tech Track 100 in 2013, was founded in
2009 by five friends in a basement office
In London's Borrugh Market. It now
operates in more than 120 countries and
clients such as British Gas and Salesforce
use its technology to acquire new
customers. In 2015 the private equity
firm Bridgepoint acquired a 40% stake,
providing investment capital that was
used to open an office in Texas – MVF
strist overseas siste. Last February it
acquired the London publisher
Startups. coulk for an undisclosed sum.
Co-founder and president Thus Shary
Aj, oversaw sales growth to £54.3m this
youth of the country of the country of the country
Michael Teichein, 44, was promoted
to clief executive.

97 Know Your Money 43,94%
Price comparison website
More than 6m savvy consumers use this
comparison site each year to find the
best deals on credit cards, current
accounts, mortgages, insurance and
loans. Small businesses can also search
for products, including mortgages and
energy deals. Based in Norwich, the
company also provides written guides
for consumers and businesses, on topics
ranging from banking to buyto-let
mortgages. Additionally, it offers is
technology platform for use by 193
Simon Ames, 42, and John Ellimore, 38,
Launched the site with a £5,000 credit
card loan in 2004 and have expanded
it to sales of £8.4m this year.

98 Edge Testing Solutions 42.46% Software testing provider Founded in 2007 and based in Glasgow, Edge Testing helps companies to find defects in their software before it is Lage i esting helps companies to find defects in their software before it is released on the market. Developers video games, mobile apps and internet-of-things products are among the company's clients, alongside in, and the state of the st

99 M24Seven 42.43%
Internet services provider
This Manchester internet service
provider was founded in 2003 and
supplies wireless internet and other
connectivity services to customers such
as Intu, AO.com and Laing O'Rourke.
Backed by private equity firm
Livingbridge, which invested in 2014,
it acquired internet infrastructure firm
M247 for £47.5m last October. This was

100 CV-Library Holdings 42.03%

OO CV-Library Holdings 42.03% Online job site Prustrated by lis own time-consuming job hunt back in the days when he was a carpenter, managing director Lee Biggins. 41, started this online job site with a £9,000 loan in 2000. The company stores nearly 12m CVs that are accessed, for a fee, by recruitment agencies and companies including Sports Direct, C4S, Adecco and Signet Jewellers. It also advertises more than 160,000 vacancies at over 10,000 companies and provides careers advice. Outside the UK, it operates CV-library; in the Republic of Ireland as well as Resume-Library.com in America, where it opened an office in Boston in America, where it opened an office in Boston in Mare it opened an office in Boston in America, where it opened an office in Boston in Carpet Sports and Carpet Sports an

COMPANIES WITH THE BIGGEST SALES

Rank	Company	Activity	Financial year end	Sales £m	
52	Farfetch	Online fashion platform	Dec 16	**622	
16	Optal	Payment services provider	Dec 16	*129	
90	Bullitt Group	Consumer electronics designer	Dec 16	*100	
44	Media iQ	Digital marketing agency	Dec 16	*92	
55	Qualasept Pharmaxo	Pharmaceuticals manufacturer	Apr 16	88	
29	Neuven	HR software developer	Jul 16	86	
5	TransferWise	Currency transfer provider	Mar 17	*67	
63	Paymentsense	Payment services provider	Mar 17	*62	
96	MVF	Digital marketing agency	Mar 17	*54	
27	Funding Circle	Peer-to-peer lending	Dec 16	*51	



Bullitt Group, No 90, makes rugged mobile pho es and other

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Trailblazers with an ace up their sleeves

Claire Wheeler looks at some companies that didn't make the Tech Track 100 but have the potential to become the giants of tomorrow

Picking future winners on past performance is notoriously difficult, but we have achieved just this through a combination of good judgment and luck, with some of our Ones to Watch companies. Last year we tipped Wonderby and this year it has topped Wonderby and this year it has topped Watch - Darktrace, Hunter Mancdonald, Kano and LADbible Group - have also moved on to the list after developing innovative technologies and boosting sales by whining blue-chip customers. This year's 15 companies do not mean the criteria for the maint table but some are well on their way. With a reported valuation of \$1.75 nn, BenevolentAl's platform, which analyses data to speed valuation of \$1.75 nn, BenevolentAl's platform, which analyses data to speed up drug development, is attracting international attention. It has an \$200 minute of \$1.00 minute of \$



Cambridge University computer scientists and video game enthusiasts—Herman Narula, 29, and Rob Whitehead, 26— and says its pioneering technologies have applications in areas ranging from building design to disease mapping. Many of this year's Ones to Watch companies have flourished thanks to insights from their founders' previous careers. Dafydd Stuttard, 44, started PortSwigger Web Security after working as a professional backer testing Till security, and increased lis sales to £5.7m last year. Tania Boder, 40, used has tyear. Tania Boder, 40, used warfet Sorge device. Her firm features in our list because of its potential, but it has also not revealed its sales.

Two decades in insurance helped

Two decades in insurance helped Steven Mendel, 50, develop Bought By

Many, which it says turns the traditional insurance model on its head. Its technology uses social media to identify groups of people with niche insurance needs and helps to bring them together for greater busing power. Its customers include many the properties of the properties of 1937 and 1938 of 1939 of 193

Other Ones to Watch firms have hired experienced entrepreneurs to boost their potential. Jonas Almgren, 53, helped to lead two companies to stockmarket floats in America before joining Artifinder in 2012, where he relaunched its platform and helped it raise sales of LTZ missty ear. Will Franks, 52, sold the LTZ missty ear. Personal experience also counts. For Cameron Stevens, 39, the challenge of funding his MBA prompted him to start Prodigy Finance, backed by the co-founder of Betfair, Ed Wray. Its lending platform has facilitated \$2325 m of loans for 7,100 students from 118 countries. Revenue reached £5.5m last year, and last month index Ventures led a \$40m finding round to drive Us expansion. Crowdfunding has helped three companies to obtain early-stage financing, Educational computers from the companies of the c



ONES TO WATCH: 15 RISING TECH COMPANIES

Company	Activity	Location	Financial year end	*Latest sales, £000	* Forecast sales, £000	Staff	Founded
Artfinder	Art-buying platform	Central London	Dec 16	1,181	3,600	17	2010
Connects 10,000 artists in 10	8 countries with customers looking for pair	ntings, prints and sculptur	es. Half of the cor	npany's sales are i	n America, its fastes	t-growing marl	ket
BenevolentAl	Drug discovery and development achine learning to identify new drugs that of	Central London	Dec 16	2,585	7,500	80	2013
Valued at \$1.7bn, it applies ma		an be used to help fight d	iseases such as A	Izheimer's. It has la	aunched 24 drug car	ndidates since	starting
Bought By Many	Specialist insurance platform	Central London	Mar 17	9,700	20,000	51	2012 year
Says it analysed 40,000 socia	Il media comments from cat and dog owne	rs to develop its first insu	ance product. It h	nas raised £13m an	d plans to raise a fur	ther £20m this	
ClearScore	Credit-scoring technology developer	South London	Dec 16	13,300	30,000	127	2015
Over 4.9m people have check	ed their credit score on its platform, which	it says was the first free s	ervice in Britain. I	t was co-founded l	by a former UK mana	aging director of	of Google
Commuter Club	Season-ticket financing use this firm's online platform to buy seas	Central London	Dec 16	638	1,556	20	2013
More than 10,000 commuters		on tickets, disrupting a ma	arket that it says is	s worth £4bn a yea	r. It is backed by £2r	n from crowd i	nvestors
Curve	Bank card technology developer	Central London	Mar 17	600	4,800	30	2015
More than 75,000 people hav	e applied for its spending card. The firm ha	s raised £10m from ventu	re-capital and ang	gel investors as it b	uilds more financial	products into i	ts platform
Elvie Has raised £8.4m to develop a	Female health technology developer a pelvic floor exercise device that it sells in	Central London 60 countries. Two former	Dec 16 Dyson engineers	n/a are designing its n	n/a ext product, for new	30 mothers	2013
Improbable	Virtual reality technology developer	Central London	May 17	n/a	n/a	200	2012 ales
Was valued at more than \$1bn	in May when it raised \$502m from Japan's	SoftBank in the largest re	ound of venture fir	nancing in British h	istory, but it does no	ot disclose its s	
MarketInvoice	Invoice financing platform	East London	Dec 16	4,400	6,000	75	2011
Says its platform lends £15,00	10 a minute to smaller companies, which be	orrow against unpaid invo	ices. It expects to	have facilitated ca	ish advances totallir	ng £2bn by the	year's end
Onfido Has raised more than \$30m to	Identity verification software developer of develop its machine learning technology,	Central London which it says detects fake	Dec 16 documents for n	5,000 nore than 1,500 cli	20,000 ents in 132 countries	150	2012
Pi-Top Has sold over 75,000 devices	Educational computer developer and last year opened an office in America.	East London Its latest computer integr	Dec 16 ates with Amazor	2,170 n's Alexa and had 1	8,100 0,000 orders before	50 it was launche	2014 ed
PortSwigger Web Security Started by a former profession	Cyber-security developer nal hacker, this firm makes software that is	Cheshire used by Microsoft, Googl	Oct 16 e and Samsung ar	5,698 nd which it says is:	8,500 sold in 120 countries	25	2008
Prodigy Finance	Student finance provider	Central London	Dec 16	5,474	13,000	126	2007
Has facilitated loans totalling	\$325m to help 7,100 postgraduate student	s pay for their studies. In	August it raised \$	40m from investor	s led by Index Ventu	res to expand i	in America
Revolut More than 800,000 people us	Currency transfer provider se its app to spend, exchange and send mo	East London ney. It has raised \$88m ar	Dec 16 nd claims a crowd	2,363 funding in July rais	12,000 ed £4m in 24 hours	200	2015
Telensa	Smart city technology developer are used in 80 cities and cut streetlight ene	Cambridge	Mar 17	22,836	n/a	63	2005

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