Observation is everything. That's where most of my ideas come from. Ask yourself: what the hell are others doing? Could you save a bit of cash by doing it differently? Can you see a way of doing it better than they are?

Interview

## Made tolast

At 78, David McMurtry has no intention of slowing down. The Dublin-born inventor and billionaire co-founder of British precision-engineering and technology company Renishaw may have recently handed over the role of chief executive, but he is still to be found heading up the company's R&D department



**John Reynolds** 

a week, and is busy thinking up the next generation of the precision measurement and manufacturing technology, medical robots and 3D metal printers his company Renishaw makes. He has also, he tells me, invested in an electric car start-up.

on the sprawling site of the Renishaw HQ, in a that level. green Gloucestershire valley about 40 minutes' drive from Bristol city centre

we chat, and his desk at the other end. Head of have almost doubled in that time. communications Chris Pockett sits in as well. This is McMurtry's first interview since handing fellow engineer John Deer after they met at Rollsover the reins to new chief executive Will Lee. Royce in 1972 – which the Irishman had joined

has gone back to the work he enjoys the most: fuel and oil pipes in the early stages of the design research and development. His official title is of the Rolls-Royce Olympus engine they were executive chairman with responsibility for group working on at the time. A prototype of the eninnovation and product strategy. Spending 60 years living in England has given surrounded by leather seats and shelves full of a 'burr' to his accent, though at times there is books and journals a hint of an Irish lilt. In person, McMurtry is a "My role at Rolls-Royce was mainly on the

curious mix of modesty with underlying distinct version of that engine for military jets, initially as self-assuredness and certainty of vision, all with a a project manager. Then after I'd been promoted dry and irreverent sense of humour. His scientific to deputy chief designer, I had a role across all **The Collison brothers: 'Good luck to them.** curiosity brings to mind the late Pearse Lyons, the the engines, including the Olympus one for the **They're an amazing success'** founder of Alltech A keen tennis and squash player, McMurtry at this particular problem with measuring the

spends his spare time reading, tinkering with pipes, and that was when I became even more cars or enjoying time with his family. The Irishman owns a 36 per cent stake in Re-

nishaw worth €1.56 billion, from which he has gineering tool and spun off others that have banked fees and dividends of over €95 million underpinned Renishaw's success. Fuelled by since 2009. Control of the 17 per cent stake be- McMurtry's early inventive talent and then his longing to his co-founder John Deer gives him ability to develop, aid and inspire it in his R&D effective control of the company Its global workforce is now over 4,580 – in become a Ftse-listed €4.3 billion manufacturing

70 offices in 35 countries – and could reach the and exporting powerhouse. 5,000 mark early next year. Sales for this financial He explains his move back to R&D. "As chief year are forecast to hit as much as €690 million, executive, and because the company has got so big while pre-tax profits could reach €180 million, I was often distracted from what I love doing, with according to the most recent update. Employing more than 400 software engineers and other functions. I've now been able to very alone, Renishaw's staff is split with roughly a third clearly refocus, and hand over the responsibility working on R&D, another third in manufacturing for a lot of that to Will. I can again focus on what

and the remainder on sales, marketing and other corporate functions. Its software and design engineers are high-

ly prized. A search of LinkedIn reveals several people far better than me at running such a large Google, IBM, Rolls-Royce, Tesla and Dyson.

from 3D printers, there are Raman spectrosco- technology backwards. He can spin many more 3D printing and medical robots still apparently the rise in cars featuring electronic displays also ponents, engines, planes or jet engines, electronics py machines, products used in dental care and plates than I can and keep them spinning. He's only bring in a small share of revenue compared increases the requirements for high-precision and what have you. It's always interesting to see brain surgery. There are laser, metal and magnetic one of the many stars we've got and we were to core products such as the Equator and other manufacturing. encoders, machine tool probes, styli for them, lucky that we had many candidates for the chief precision measurement and metrology products. coordinate measuring machine probes, machine executive role to choose from, and we chose him. Renishaw's latest 3D printer has four lasers, giving Renishaw never comments on its customers – to go with them all.

There's a good chance its products were used in the manufacture or inspection of your smartphone, smartwatch, your big-screen TV, your computer or tablet, many of the components in

some degree at the age Renishaw inVia confocal Raman microscope and of 78. But Dublin-born an inVia Qontor system, where traditional laboillionaire inventor and ratory techniques, such as gas chromatography engineer David Mc- or mass spectrometry and infrared microscopy

We meet in the Clontarf native's modest first in one recent year, its sales rocketed up by floor office. It overlooks a lake and nature reserve that amount, while its profits are now nearing

Since I first interviewed McMurtry in 2012, the value of his Renishaw stake has almost quadru-There's a boardroom table at one end, couches pled, propelling him into the billionaire league – and a table in the middle of the room, where but only on paper, of course. Its sales and profits He founded Renishaw with Englishman and

legendary Concorde, and I was asked to look

The probe evolved into a key precision en-

my attention being needed in marketing, sales I like doing best. My wife jokes I'm working even

harder now than I did previously. "You can't be good at everything, and there are

manufacturers use their products as well

rom its establishment in 1973, it took 30 years of steady growth for Renishaw to achieve annual sales of €200 million, yet

an Oxford University graduate, whose MBA the as an apprentice after leaving school in 1958. company sponsored, and who has worked there 
The business grew out of his invention of a for 20 years. After 45 years at the helm, McMurtry touch-trigger probe to measure small diameter gine is proudly displayed in the lobby of the HQ,

involved." he savs.

staff, the business he and Deer have since built has

previous employees are in senior roles at Apple. global business efficiently. We've got an excellent focused on the next generation. That includes use Renishaw motion sensors – in particular thinking is interesting. Others now work for household names including team, and they're best left to get on with the job. our additive manufacturing [3D metal printing], and other consumer products is also a factor. The "I also enjoy visiting manufacturers in the sec-"Will has worked across many of our business our Neuromate medical robots and our Equator company expects China to increasingly take on tors our customers operate in. Makers of medical Renishaw makes a vast array of products. Aside divisions. He knows the business and all of our measuring and inspection probe."

"We want a lead in making the process comspeeds and reducing the cost per part. It's about making the process reliable and taking out the so much from improved control of the additive manufacturing process. That's how we hope to stay ahead." In short, the next generation of the inventive curiosity come from? printer needs to have more lasers and be able to A keen aptitude for maths and science – "I was

extenders. You need additive manufacturing to right through the skin.

and manufacture things faster and minimise colour and curves, with a critical eye costs because their margins are tightening. They also want equipment that's easy to use and doesn't require as many people to operate, because ers and innovators are doing" – also help to fuel they're finding it more difficult to recruit skilled McMurtry's inventive mind.

half its revenues, is a key growth market. A rise in I ask myself, 'why didn't I think of doing that?' demand for computer chips due to their increased The failure rate of them is enormous. Perhaps use in industrial robotics – some of which also 0.1 per cent make it to market. But some of the Korea in manufacturing big-screen TVs, while devices and implants, or others making car com-

One London City analyst believes – although their needs are." calibration and optimisation products, plus a "We work very well together and see each other it an edge over those of its rivals, which mostly that electronics and smartphone maker Hua- and product designers. "If there's an alternative whole range of accessories, fixtures and software every morning. While he's largely focused on the have two, including GE, which bought up sev- wei now uses its products in its manufacturing. way of doing what your invention does, you need

and Korean giants that make Samsung and Apple smartphones and devices were customers as well.

cMurtry describes R&D as his hobby.

It's one that's made him a billionaire, creating a global business that is at the top of its game. Where does his

hopeless at everything else" – informed him from as well. We are also looking at the role AI will 1950s, he also played in his father's tinned foods factory beside the river Tolka in Fairview. The "Our core strength in metrology means we're factory's clunking, whirring machines, which later produced boiled sweets, may also have fu-

'what have they missed?'.'

"Observation is everything. That's where most

electric cars, which could prove a growth market, the bone-anchored hearing aid of someone he though McMurtry believes hybrids are likely to met in a pub. He and his design team then coptake a bigger share of the market first. "We're ied the way it was hidden behind the ear and working with some companies that make range incorporated a screw into the bone that went

He describes in considerable detail how they another successful Irish manufacturing entreontain a small ultra high-speed gas turbine. "I preneur, Eddie McElhinney, who founded metal think more new cars [as with electric BMWs ceiling tile manufacturer SAS International, and currently] might come with one of these in your has been the go-to designer for some of the world's boot: you'll fire it up and it'll recharge the battery leading architects when they want the ceilings inside their buildings to look amazing. He looks Many of Renishaw's customers need to inspect at the design of everyday objects, their shape,

Reading books of university research abstracts "one-page summaries of what young research Asia, where the company currently earns about from a conference," he says. "They're fascinating.

He shares some advice for budding inventors

to consider it and patent it as well. But you also need to think how you would improve on an original invention or replace it and patent that

To have a competitive edge, inventors also need to consider how their invention can be efficiently manufactured. "There's as much innovation in how we make things as in an invention's original

Is it becoming more difficult to come up with new inventions in this age of exponential technologies including AI and robots? "No, I don't think so. The present environment is quite stimulating and opens more doors for new products to be invented. We're lucky to have a number of up-and-coming inventors within Renishaw. But Dyson did his own thing. Elon Musk is the same. There will be more like them. They can come from anywhere really."

Is he concerned that the business might lose its inventive and R&D impetus to some degree whenever he has to step down? There's a sense that he might be irreplaceable. Of course, that might be true of Dyson too, as with other businesses whose chief executives or founders are synonymous with them, the likes of Richard Branson at Virgin or Michael O'Leary at Ryanair.

"When I step down I'll let you know," he replies. good sleep, I have about two hours when every- of his aversion to debt. "We grew organically. thing tends to be fresh in my mind. Then I come We did it the hard way. It was down to the speed origin are a monster. It's unpicking 40 years here and do a few sketches. Everything starts with I could invent and oversee production, while of well-laid plans. The company has options," a sketch as far as I'm concerned." On his desk are John was selling and supporting, later running Pockett says. a number of them on graph paper.

with his R&D teams. "We have a good ongoing My mother had a saying that always stuck with would jeopardise the future of their operations relationship and dialogue. I've got solutions from me: 'Live within your means'." my experiences working in many different areas While his parents have been obvious influence over the years that I've gained from another divies, McMurtry's personal hero is fellow engineer sion where they haven't yet worked, or I'll suggest Isambard Kingdom Brunel, regarded as one of someone else who might help them.

from the R&D staff, then I talk to engineering the history of engineering. Perhaps best rememdirector Geoff McFarland and others to get their bered for the design of Bristol's Clifton suspension thoughts. We get a rapport going and then we go bridge, Brunel also designed tunnels, railways though he gives a clear indication of his fears. on to the next phase of the process."

off? He laughs. "Ah, we don't talk to journalists route between Bray and Greystones that the Dart about our failures. Only the successes. We've had travels on every day. a number of projects that have gone a long way, but haven't got to market. It's inevitable that you'll credible things in such a short space of time, and "One was a high precision rotary table [a posi-

tioning product used in high-tech manufacturing ability. Some of his designs are very original. And went to Poland – leaving Britain. processes, including in clean rooms.] There will be he got it all funded as well. What he did was unstuff in there that didn't quite make it either." year on the city's harbourside. the factory flooded seems to have shaped an Patrick and John Collison in a previous interview. "Here you find that death duties might make after me. They can make a real physical product. than words perhaps, in that regard," he says. "More

is also sometimes used for acquisitions.

David McMurtry says that

R&D, 'I can again focus on

with his move back into

what I like doing best

executive chairman with responsibility for group innovation and product strategy

**Lives:** Gloucestershire, England. Also owns a €34 million eco-home nearby that he designed himself. It once appeared in an episode of BBC's Sherlock

"Brunel was an incredible guy, who did in- it might be slow. more remarkable.

terms of scaling a business – aside from having country in Europe, and it's a country that man- work as well. You've got to go for the long term overlooked in any way by his homeland.





ability to recruit and retain like-minded and talented people – he's conscious of the dominance of the tech giants in the tech sector in business today.

"Increasingly for tech start-ups, it's about speed to market and access to huge amounts of money. Even with the right idea and tech, you can get overtaken if you raise your head above the parapet

ufacturing and indigenous businesses, and admires the German Mittelstand model. "Countries Ireland needs more Kingspans, as well as food and farming," he has said previously.

He also previously questioned the approach of Enterprise Ireland to backing start-ups, and said that Irish taxpayers' money might be better used in helping companies that had already achieved

need to be able to take quick decisions".

thropy, McMurtry is perhaps understand-

in Britain

degree of success to scale up. McMurtry also previously questioned Britain and Ireland's reliance on FDI. "It's great for achieving short-term political goals, but it's not a sustainable long-term view." Serving as a reninder, German manufacturer Bosch, which moved its operations back to the continent, pre-

viously occupied a factory Renishaw now owns He has also said in previous interviews that he with regulations, of which there will probably have preferred the autonomy of staying private,

Does he share the fears of Elon Musk and the to his and Deer's combined 53 per cent stake. Al and robots might pose in the future? "I do share name, McMurtry has at least 195

tion, as long as it's tolerable. If things go horribly long-term view."

apprentices and graduate recruits, with a specific "On the regulatory side, things like rules of focus on girls and young women

female Nasa scientists.'

"I don't think they can let the likes of ARM "In south Wales, we've got a classroom for level. Of course, at the beginning when it comes R&D alongside McMurtry. "I hope the government is realising that industry to digital, kids are just interested in social media,

"There's a row of 3D printers with which they strengthen.

hen it comes to attracting talented people, and nurturing the next generation of inventors and

"We've always done well growing our own lent. Our applications for graduate entry, worl the moment. We also have a good conversio that people with only academic interests aren't

t the nearby Bristol Aerospace Museum of which Renishaw is also a patron, one of the last remaining Concorde aircraft see it up close. It looks futuristic, and vet it's nov a spaceship than the Boeings and Airbuses we're all used to, and to whose design we give compa

"It really does, doesn't it? It still looks futuristi flew on it twice when I was involved in the tw days of Renishaw. One was with a US distribute and the other was with a manufacturer, Zeiss. vas almost needed in two places at once, so I was trying to get back to England after attending the cases in the US as fast as I could," McMurtr

you were pushed back in your seat on it. The used to on planes today. It was great to fly on. Or my flights, it took a little over three hours fror

doesn't apply at this point in time," is all he will say. seats of today," he laughs. "The windows were very small as well – a necessity of the design sat in the window seat, you could really feel the

gone on for many years now, and that's as much kind of a replacement for it, that's for sure. Pe haps Elon Musk has the answer, with a rocke we can all go on," he laughs. "But I think it might take more than a decade for us to see whatever is going to succeed Concorde and fly us at that sort of [supersonic] speed."

s McMurtry not only Ireland's most prolifi living inventor, but Britain's as well, insofar as it may claim him

and other products. If you don't own one of his used one of his hand dryers. Given that he is a household name, his might be the first name that comes to mind as an answer to the above question However, the European Patent Office's register

Losing control would have brought "the hassle of their fears, but it's unlikely to affect me during The official line from Renishaw is that McMurtry filed 47 in his Rolls-Royce days and has over 150.

As with so many other European businesses, at a political level because people's politics will for a longer period than, say James Dyson, and of course he's still inventing today.' McMurtry's amount to more than the European and that we can carry on as we are. Our Irish optoschools in Wales and Gloucestershire where patents than entire Irish companies have, such as eration could be an advantage if we have a hard as many as 70 per cent of the pupils are from Kingspan, with 139, and Glen Dimplex, which has

Enquiries to Britain's Institute of Mechanical "It all depends on the outcome. It's the friction trying to raise aspirations, and hopefully that will Engineers, the manufacturers' lobby group EEF, that's the issue for us rather than the tariffs. As we benefit us all. As a business, we've got to do our Institute of Patentees and Inventors and the British sell around the world, we're used to a bit of fricbit and the company has always done this. It's a Inventors' Society about whether there might be a British inventor with more patents had not

The reason he and Deer took 30 years to see what the deal is, we will look at our resources improve its outreach work to try to attract more While Thomas Edison filed 1,063 patents during his lifetime, America's most prolific living inventor seems to be 35-year-old Lisa Seacat DeLuca, an "We work with some Brownies in south Wales" engineer who works at IBM and who has 370. Last year, meanwhile, Britain's Chartered Insti-

some sub-contracted manufacturing. We had the Our interview took place before Airbus and particular industry as early as six or seven, in fact. working on immunotherapy to cure cancer, Alex "We've done work on International Women's Powesland, as Britain's most prolific inventor Engineering Day, we've distributed a book, Little for 2016. He was named on 33 patents last year. McMurtry has a list of awards, honours, fel-Little Miss series, and we've sent some of our lowships and doctorates one and a half pages brightest young women – Stem champions – into long, most notably a CBE and knighthood. But

> local schools to read it. We've also been showing while other countries including the US, Japan, the movie Hidden Figures about the three black Wales and Scotland have recognised his talent and achievements, sadly Ireland has yet to do so. He often visits family here, and sometimes We're really trying to up our game. There's no silver visits manufacturers here too, most recently in bullet in recruitment. We have the same battles the medical devices sector. Renishaw's Swords,

for which the company owns two more buildings work shows, it's all about the long-term view," on a site adjacent to its existing one. It could yet play a vital part in its Brexit strategy. have some false starts. The last one was stopped with none of the tools and technology that we've Holdings [which was sold to Japan's Softbank in kids to do 3D printing and software coding. It's to board of Renishaw. Mark Moloney manages its because we didn't have the marketing capability got today, which makes his achievements all the 2016, and whose former boss said last year that he show them they can write code in C++ and make operations here and in India and France, while

Moloney, an ex-DCU graduate, has quietly

evel, and perhaps that might inspire them to take say anything more than that. Actions are better and more will go that way. You can't take it with



McMurtry with Renishaw co-founder John Deer



James Dyson is a household name, but in fact he holds fewer invention patents than McMurtry

current generation of our technology, I'm solely eral 3D printer makers last year, but has yet to Analysts previously figured out that the Chinese **to page 9** 

maintains its lead. man-hours for our customers. We're learning

work faster, but in a controlled way. "It's a fast-moving sector and we have to put in an early age. Model plane-making - "a major a lot of effort to make sure we're not left behind. distraction to my education" – helped to nurture Targeting areas our competitors aren't in helps his innate talent. Growing up in the 1940s and

play in this. seeing opportunities growing rather than shrinking. Asia is a big focus for us. In any manufacturing elled his inventive curiosity. process where you're making things in very large More recently he sought inspiration at the quantities, and you don't want anything to go world's biggest annual trade show for makers of wrong with the process – and where you need manufacturing equipment in Beijing. "All the time total traceability of manufactured parts, from jet l'd be looking for opportunities, asking myself engine blades, to car components, electronics, microchips, electronics and electronic devices with screens – that's where you'll find our equipment." of my ideas come from. Ask yourself: What the Additive manufacturing helps manufacturers hell are others doing? Could you save a bit of

facturing times by at least half in the case of a of doing it better than they are?'

make their heat exchangers.'

become vastly more efficient, reducing manu- cash by doing it differently? Can you see a way has reduced the time for a process used in facial to make a 3D-printed device that could deliver reconstruction from an hour down to a minute drugs directly to the brain for the treatment of cancer, Parkinson's and other brain diseases -It can also be used to make range extenders for gives an idea of his genius. He was inspired by

His way of looking at the world brings to mind

"Geoff has just brought back a new pile for me

what they're doing, hear their thinking and what

children and a number of grandchildren **Favourite book:** 'I enjoy reading lots of academic papers on manufacturing

Favourite movies: 'We've recently had screenings at our HQ of Hidden Figures about the three female Nasa scientists, aiming to inspire more women and young girls to become engineers and inventors'

"When I wake up in the morning having had a achieve a turnover of €200 million was because and hopefully make sensible choices. He enjoys problem solving and collaborating dream team, and we didn't borrow any money. BMW said that the lack of progress with Brexit

a demand for it in the future, and it was shelved believable," says McMurtry wistfully. Renishaw is so important because it's wealth-creating. If so this is to get them to think about the practical established strong links with academia here to because of our marketing capability. But if I open helped to fund the establishment of the Being you look at how an area like financial services level," McMurtry says. one of the drawers at my desk, there's a load more Brunel Museum in Bristol, which opened this here might not be the same after Brexit, they Underlying his inventive curiosity are other As far as Irish entrepreneurs go, he name- ownership of companies. Ithink it might change get a small sense of their abilities, at a practical thropy here as well as in Britain. "I'd prefer not to traits. Seeing his father go out of business when checked Stripe founders and fellow billionaires dramatically.

**Family:** married to Teresa, three grown-up still be where they are today.

technology

the heroes of Britain's Industrial Revolution and "When I've drawn my sketches, I get feedback" one of the most prolific and ingenious figures in and steamships as well as other bridges during What happens to his inventions that don't take his 53 years. Closer to home, he designed the government is taking a greater interest in com-

insistence he has maintained, sometimes in the "Good luck to them. They're an amazing success." sure that a business doesn't stay family-owned, It's not just code to do something on a screen. face of criticism from investors in Renishaw, on If I was their age and good with software or tech- but that doesn't apply in Germany, which has

When I wake up in the morning having had a good sleep, I have about two hours when everything tends to be fresh in my mind. Then I come here and do a few sketches. Everything starts with a sketch as far as I'm concerned



the right co-founder in John Deer and then their Could a philanthropic foundation be set up in

According to filings in Britain, Deer and Mc-Murtry and their wives do have a small foundation that supports children's hospitals. Other philanthropic efforts are done very quietly or nonymously, it seems. "David has done a very As might be expected, he's a champion of man great deal for the local community as well, but it's done very quietly, without any fanfare. That's

> as we'd ever say," Pockett says. Is there any other great fear that McMurtry would have for the business? "I do fear a drop-off in the R&D budget in the future. I think if that's kept going, the business will be fine.'

his name at some point in the future, perhaps? "It

What are his thoughts about rising inequality and the increasing influence of technology companies on the future of society? "I think there will be a greater governmental pushback in the regulation. The likes of Facebook have to sell into

"I'm sure the tools exist to put some restrictions in place. I believe governments will threaten to shut down their operations if they don't comply

seeking money and permission to do things. You my lifetime," he replies matter-of-factly.

recruitment efforts, it might help in a small way (EPO) was founded. David has been inventing the firm largely has a wait-and-see approach to hopefully change." Brexit. "We're hoping common sense will prevail, Pockett outlines the outreach Renishaw does Brexit, or no deal. If you want to sell in Europe, it economically disadvantaged backgrounds. "None 87, according to the EPO online register. might be advisable to manufacture more there. of us is comfortable about rising inequality. We're

wrong, we have the ability to adapt. When we

at age seven and eight. The research we're seeing Miss Inventor from the Hargreaves' Mr Men and eluctant to talk about his private philan-

ably also reluctant to discuss any specifics "We're doing perhaps more than ever this year. about the future of his stake in Renishaw, "It's a dangerous area to discuss. The British panies here being sold so hastily. I think the po-As Renishaw's history of McMurtry and Deer's itical situation in that regard might change, but savs Pockett.

regretted selling it] ... and look at what happened

have to take a different view on retaining British can design and make things. You want them to McMurtry is also discreetly involved in philan-"We're also planning to extend our innovation you," he said in a previous interview.

rate of apprentices who go on to take degrees. we pay your fees, they're saying a lot of money We're looking for people with practical interest as well as academic ones. We sometimes find

"The one thing I do remember was how much

"The seats were quite small as well, with no a lot of legroom. They're more like the Ryanaii

Many readers will know James Dyson, the

but he largely maintained control anyway, thanks late Professor Stephen Hawking about the threat reveals that while Dyson has 117 patents to his

"Rising inequality, which may be helping to in his time at Renishaw. Most of the latter in turn He dislikes the short-term attitude that larger fuel populism, is not in anybody's interest. It led to further ones with over 300 being granted to investors and institutions can have to stockmarket will eventually blow up in your face. History the company, which has more than 1,500 in total. investments. It's difficult to judge whether keeping has shown that too many times in the past. As Renishaw's patent attorney Tim Jackson says: Renishaw private would have limited his or Deer's a business, we do what we can. Inequality is a "Your search may miss out David's early patents ambition in any way. There's a sense they would real concern, and if we can help in terms of our filed before 1978 when the European Patent Office

The company has recently made a big push to elicited a response at the time of writing.

uggests kids see themselves as working in a tute of Patent Attorneys named a research chemist

anyone else for more experienced recruits. But Co Dublin operation employs more than 200 with graduates and apprentices, it's a long play. people and is likely to expand in the near future,

There are also now two fellow Irishmen on the something happen, make something move or the aforementioned engineering director Geoff "He was really a dynamo, with great drive and with Cadbury's – much of the chocolate making perform an action that they can see at a practical McFarland is Irish too, and plays a key role in

cultivate graduate talent. Such links continue to

having a cash safety net of between €70 million nology, I might've had a go at something similar." the successful Mittelstand model. I believe that's centre here at our HQ to provide more space "I have never given it any thought, to be honest," and €100 million in recent years, some of which While he doesn't offer any particular secrets in under discussion here. Germany is the wealthiest for education, so that will help to increase this McMurtry says modestly when asked if he feels