

DIGITAL TRANSFORMATION



Hey imposter

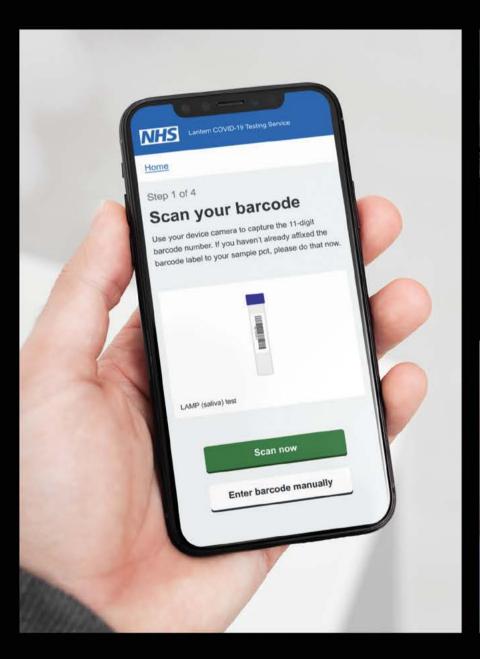
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DIGITAL TRANSFORMATION

THE TIMES

Published in association with



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ORGANISATIONAL BEHAVIOUR

How the rise of AI is putting flat management to the test

Will hi-tech firms adopt more hierarchical, authoritarian structures to ensure that their staff will keep working in the best interests of the business rather than protecting their jobs against automation?

i-tech companies have been among the most enthusiastic adopters of ultra-flat management models such as holacracy, whereby fluid teams decide what work must be done, who will do it and even how they'll be rewarded.

The underlying idea of this approach is that a conventional hierarchy would only stifle the output of highly educated tech workers, who have an intrinsic interest in their occupation and are perfectly able to self-manage. They aren't doing menial work; they've been hired for their creative problem-solving skills. It would be impossible for a management team lacking their technical knowledge to understand every aspect of the complex work they do. Indeed, many such professionals would probably resent being subjected to top-down management.

But what happens to that intrinsic them to start designing away a significant proportion of their work? ChatGPT has hit the headlines because its responses can seem sentient, for instance. The technology has learnt to perform some tasks that, until now, only people could do.

But this quantum leap in artificial intelligence is not necessarily the biggest star in the automation show. For instance, AI-assisted robots have made a breakthrough in what was good left-field ideas," Lee says. previously a 'bottleneck skill' - that is, something machines couldn't do. The first few generations of robots, such as those on production lines. performed only programmed tasks in completely predictable environments. But the latest ones can handle objects of varying dimensions in unpredictable orientations with ease.

A study published by the OECD in December 2022 estimates that, on average, "occupations at highest risk of automation account for about 28% of employment" in its member nations. Its research report states that "only" 18% to 27% of the abilities required by high-skilled occupations are "highly automatable". But this still suggests that a significant percentage of what some highly skilled people currently do will one day be done by a machine.

Could that create any tensions in firms that place a high value on self-management? And might they need to change their approach as the march of automation continues?

The most innovative companies are unlikely to grab back the reins, according to Michael Y Lee, assistant



professor of organisational behaviour at the Insead business school. CEO of payments company BlueSnap. These firms typically seek out the most talented people and make the educate their teams as to why this most of that talent, so a flat, decentralised approach will normally suit their requirements, he argues.

"Research shows that the more

A decentralised approach does have its risks, of course. Such organisa- liery by changing the way they tions tend to be harder to lead and. while they offer a conducive envir- firm C&S Wholesale Grocers also leave high-level tasks to humans. onment for ideation, that's likely to produce more bad ideas than average how best to meet certain targets as well as more good ones.

"As tech firms automate their processes, there's still a human element

stresses Ralph Dangelmaier, global "Managers have a responsibility to enhances, rather than replaces, people's jobs.

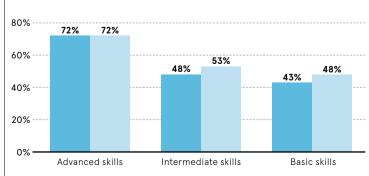
that needs steadfast management." | local level and the edges." Lee says.

The self-management model has the potential to benefit any business. hierarchical a firm is, the less inno- For instance, a landmark 1949 study vative it will be. Decentralised firms. | published by the Tavistock Institute by contrast, tend to miss fewer of the of Human Relations revealed how a group of miners in Yorkshire had boosted the productivity of their colworked, And, some 40 years later, US showed how letting a group work out could greatly improve outcomes.

"If you shift decision-making down, you get more responsiveness at the

JOB SATISFACTION AND SECURITY AMONG DIGITAL WORKERS

Share of digital workers worldwide reporting high satisfaction and security, by skill level High satisfactionHigh security



The flipside is that a self-organised firm may take longer to mobilise support for a major shift.

RACONTEUR.NET — 7 — 03

And a "major shift" is exactly what big tech firms are going through. But the huge number of redundancies across the sector in recent months may not be as damaging to morale within these companies as outsiders might imagine.

"Decentralised organisations tend to have stronger cultures," Lee says. 'Their people probably buy into the argument that only the strongest performers should be on board, so they may accept layoffs."

He points out that there are, in any case, two types of self-management One is more libertarian, placing the greatest value on autonomy and free dom. The other is more cohesive and community-based, valuing citizenship and reciprocity. And, while irms in the latter category tend to be nore reluctant to cut jobs, it's not rue that a big round of layoffs will necessarily turn those remaining in

the business against automation. Dangelmaier argues that automa tion offers benefits that staff will embrace, especially where it removes arduous tasks. "In the accountsreceivable process, 25% of employees have reported an increase in morale under a management style based on automation. Increasing automation does not necessarily conflict with team goals. Instead, it uplifts teams.

Lee agrees: "The shift towards automation could make self-management more compelling. It should remove low-knowledge work and That will raise the bar of what it takes to be employed."

This in turn would leave manage ment teams having to deal with organisations full of experts. Such companies would move even further away from a hierarchy, according Lee. He suggests that this will require business leaders to focus on getting people with specialised ex pertise to cooperate effectively.

"It's never just one person who cre ates an innovative product. An effec tive, collaborative team is where the magic happens," Lee says "How you design the team, choose the right people and create direction is what matters. The design part tends to be neglected in management training.' Warning that the natural place for all of us to be is in a hierarchy, he adds: "Self-management is a bit like the road to enlightenment. There is no destination. It's a continuous process of gaining greater capacity, Amazon Web Services, 2022 | flexibility and skill."



ARTIFICIAL INTELLIGENCE

ChatGPT – AI assistant or robotic replacement?

The chatbot's arrival has caused a stir in several sectors. But is it a true technological breakthrough – and is it coming for your job?

ChatGPT hitting the head- Holland reports. lines. Most of the coverage has focused on the sheer power of its potential to change the world of work. Is all the hype justified?

ChatGPT was released by OpenAI already making its presence felt in the workplace. That's the view of David Holland, founder, CEO and ness and truthfulness." chief strategist of Exela, a specialist in the customer service sector.

In a tweet in December, OpenAI's posts, press pitches and other mar

this controversial new chatbot and caveat: "ChatGPT is incredibly limited, but good enough at some things to create a misleading impression of greatness. It's a mistake to be at the end of November 2022, but it's relying on it for anything important right now. It's a preview of progress: we have lots of work to do on robust-

Despite such clear warnings about in business process automation. He | its potential to generate inaccurate thinks that, although the techno- or unoriginal content, some profeslogy is far from fully developed, it sional writers have embraced the is proving a transformative tool for | tool with enthusiasm and are using certain businesses, especially those it daily. One of them is Catherine Gladwyn, an author who also spe-"It's already enabling faster com- | cialises in coaching women seeking

ardly a day goes by without | employees, saving everybody time," | She has been using ChatGPT to help

CEO, Sam Altman, offered a strong

The main concern will be about validity. How can a user ensure that the results produced by ChatGPT, even from munication between customers and to become virtual office assistants. | controlled data, are valid?

her write blog updates, social media

"It has enabled me to grab people's

attention without having to learn a

new skill," Gladwyn says

She adds that she was recently asked to add some "colour" to her copy for a website she was working with. "I asked ChatGPT to make the text less formal – and it did. I've also asked it to write some copy aimed says that the technology has a long at certain demographic groups. If it way to go before it has the power to could read things I've written before put a large number of jobs at risk. and emulate my tone of voice, that

would be a total game-changer."

2017

2018

2019

2020

Andrew Hall, chief commercial officer at digital outsourcing firm Ouantanite, believes that ChatGPT's greatest potential in business lies in ts power as a conversational tool.

"This alone has the ability to reshape the future of work," he argues. "The only question is how long it will take people to get used to the idea of generative systems."

In certain departments, such as contact centres, ChatGPT could be integrated with other applications and services, Hall suggests. "It will provide even more personalised and detailed answers without any delays and, ultimately, deliver far better customer service."

James Bore, a consultant specialising in cybersecurity, reports that further significant advances in this field are already being made. But he also stresses the fact that ChatGPT is primarily a language model that "doesn't perform any analysis, so there is no verification of data. It should therefore not be treated as a source of truth."

The fact that more than a third of the world's population still don't have web access is also problematic. according to Holland.

"AI can only work with the data that's available to it. For it to truly offer a more accurate and valued service, the internet itself must become more accessible," he says. "If the data it holds doesn't embrace a wider representation of humanity, the system becomes biased, so any trust in it will be eroded quickly."

While ChatGPT may be able to perform basic tasks, such as answering questions about company policy, it will be a while before it can handle more complex work, Holland adds. How concerned should people be

that ChatGPT or something like it could replace certain occupations? Jonathan Stewart, owner of the Simplicity Specialist consultancy,

"Ultimately, this is nothing more than a very clever computer that

THE BUSINESS USE OF ARTIFICIAL INTELLIGENCE GLOBALLY HAS PLATEAUED AT ABOUT HALF OF COMPANIES IN RECENT YEARS

Share of firms reporting the use of AI by at least one function or business unit

20% 47% 58% large-scale redundancies – quite the

50% 2021 2022 50%



A brief history of artificial intelligence

The origins of artificial intelligence, like so many things, can be found in Greek mythology. The inventor Daedalus was said to be the first mortal to create 'living statues' in bronze that could show emotion and speak.

Although it was in 1950 that Alan Turing devised his famous imitation game to test a machine's ability to display human-like intelligence, the term AI was coined by a group of US computer scientists convened by mathematician John McCarthy in 1955.

In 1961, prolific inventor George Devol created Unimate, the first industrial robot. Its first job was to transport and weld hot die-castings at a General Motors assembly line, relieving the workers of two dangerous tasks.

The first chatbot was invented by Joseph Wiezenbaum in 1966 in the Computer Science and Artificial Intelligence Laboratory at the Massachusetts Institute of Technology. Named Eliza, it provided programmed responses to users.

The creation of the Artificial Linguistic Internet Computer Entity (Alice) by Richard Wallace in 1995 provided the next big breakthrough in this field. Alice was strengthened by natural language processing

a program that applies algorithmic pattern-matching rules to conversations.

The development of intelligent workplace computers has gathered pace since then. In 2014, a restaurant in Ningbo China, replaced human waiters with robotic ones. The machines, which cost about £6,000 apiece, can take orders, move heavy items around and even talk to customers.

In 2020, we were introduced to a revolutionary tool called generative pre-trained transformer 3 (GPT-3) a linguistic model based on deep learning technology. But workforce chatbots weren't just becoming more intelligent; they were also becoming more human. Last vear, HomeServe USA Corporation, a provider of domestic repair services, introduced an Al-powered virtual agent called Charlie - a 42-year-old biracial mother of two from Ohio who likes jazz. Charlie answers 11,400 calls a day and will even offer advice to her human colleagues.

OpenAl's ChatGPT has caused a sensation since its release in November 2022 because of the seemingly high standard of its responses. This powerful chatbot, which has already been downloaded more than 100 million times, has transformative potential

get – even if we can use it to enhance our ability to think critically and even worse, disinformation." develop ideas – it won't replace us." Michael Manoochehri is a former

"I see no reason to believe that this will drastically affect the workforce," Manoochehri says. "I foresee | and practise a whole set of techend up creating more employment | provides are trustworthy." opportunities for people, even those in non-technical jobs.'

ethical considerations surrounding replace, our own efforts. But that's generative AI, according to Stewart. | not to say that we can't enjoy exper-

abused by others." he says, "A tool have used it to write this article.

predicts what to say next," he says. | that follows our instructions with-"No matter how advanced it might | out question could lead to the wider dissemination of misinformation or

Manoochehri agrees. "Concerns about ChatGPT's biases and use of Google engineer and manager who's | intellectual property are real and now CTO of Switchboard, a software | require scrutiny. As for the many developer that he co-founded in practical applications of the tech-2014. He also believes it's unlikely nology with custom training data, that the rise of ChatGPT will lead to the main concern will be about validity," he says. "How can a user ensure that the results produced, even from controlled data, are valid? ChatGPT users will need to develop that ChatGPT, and tools like it, will | niques to ensure that the results it

So maybe we need to embrace this quantum leap in AI and treat it as a Perhaps more worrying are the tool that will enhance, rather than "I am cautious about how this is | imenting with ChatGPT while it's going to be used and, potentially, still a novelty. Maybe I could even





Several problems are impeding the digital transformation of council services nationwide. Barriers to innovation include legal constraints. skills shortages, fiscal limitations and deeply embedded legacy tech

Jonathan Weinberg

town and county halls regional leaders are grappling with a conundrum. Few of them doubt the power of digital money must be demonstrated." technology to make council services more accessible and cost-efficient. but several limiting factors are combining to hinder progress

Amit Shanker is an expert in data analytics who has worked for bluechip companies including HSBC, Microsoft and real-estate giant JLL. In January, he joined the London Borough of Newham as deputy CEO and chief digital officer, having led a business transformation project at the Financial Conduct Authority.

He points out that local authorities have a long list of stakeholders to keep happy, from their employees and the communities they serve to central government and the media. They must also satisfy a whole set of legal and procedural requirements. Businesses, meanwhile, can usually focus on satisfying their customers and shareholders

"Statutory obligations mandate that a public body continues to discharge its services even while redesigning these as part of a digital

to do more with less. Value for

A key factor that's frustrating councils' plans is that the digital agree that, while there's no shortage skills they need are in great demand and therefore don't come cheap. pered by so-called software lock-in While businesses are prepared to pay a premium for these, Shanker disruption) incurred by replacing suggests that the public sector tends to hire people on temporary con- be so great as to be prohibitive, tracts for such work, which often proves to be a false economy.

Working in a newly created role Shanker has already identified some quick wins, such as straightforward ways to make certain systems more user-friendly for staff. His medium-term plan is to modernise the tech stack and, in the longer run, he envisages making extensive use of the internet of things and digital twins.

He acknowledges that there is much work to do to build a smarter days to four. Newham. Public-private partner-

areas to achieve this outcome. "Unlike businesses, public sector

out, "With councils under increased | an ROI horizon of five, 10, or 15 across the land, local and fiscal pressure after central funding vears, which provides a more con reductions, they're being expected vincing impetus to invest up front. Shanker says.

> Many people working on transfor mation projects in the public secto of ambition, they are often ham This is where the initial cost (and embedded legacy technology would given the funding constraints tha councils are working under.

Despite this, there have been som success stories in recent years. Take Swindon Borough Council, for example. The authority's collabora Web Services (AWS) in 2021 to har ness the power of artificial intel ligence has drastically improved its response to fly-tipping around the town. The average clear-up time has been reduced from more than 10

Anyone who comes across illeg ships will be required in certain ally dumped refuse can pinpoint its location for the council using a map on its website, describe the contents organisations undertaking digital and upload photos. The AI system transformation." Shanker points transformations would benefit from analyses this report to determine

The public sector is dogged by a combination of financial and cultural constraints. which have historically frustrated ambitious digital transformation efforts

to remove the load. It helps the from doing so, he argues. council to manage its resources so that rubbish appearing to contain hazardous materials is prioritised.

Quoted in an AWS blog post, Sarah | spect. The software lock-in problem Talbot, leader of the council's is stifling creativity, which is forcemerging technologies team, said she thought that the project's success had changed attitudes among the wider workforce.

"They can see the value of the real issues in tangible new ways,' Talbot explained.

Nonetheless, the digital transformation of the nation's public services has generally been "patchy" to date. So says Simon McNair, head whereas centralised digital teams of the UK public sector business of Iron Mountain, an S&P 500 con- tor could radically reduce cost and stituent specialising in enterprise information management systems. His company has been working with numerous local authorities in as waste collection and the provi-England and Scotland, including Birmingham City Council and the they couldn't be more different City of Edinburgh Council.

podies is often behind where it is in private organisations," McNair says, although he adds that the gap is not always as wide as people might imagine.

McNair believes that local authorities should focus their resources on digital transformation where the cost-saving potential or the opportunity to improve the user experience is greatest.

"The public sector is dogged by a combination of financial and cultherefore a user, not a customer." tural constraints, which have historically frustrated ambitious digital transformation efforts." he says. acy paper, which is costly to review and then digitise or destroy."

Adam Walther is head of digital and transformation work at Woking | that local authorities should priori-Borough Council, which has been | tise providing "excellent services under "significant financial strain". | that are online by default". But he The fact that money is tight is even | adds: "We're having to be more open more reason for the authority to and honest about finances and ser-

nflation-adjusted settlement funding in English local government (£ per capita)

what kind of vehicle will be required | cost-efficiencies that could accrue

Walther estimates that only 10% of local government organisations are being truly innovative in this reing "services to be designed around legislation at best - and archaic software provision at worst".

The pooling of resources across the sector could help to mitigate this work - and that our focus and and other problems. It's something drivers are around helping with that the Department for Levelling Up, Housing and Communities is attempting to coordinate, according to Walther.

"We're still duplicating the same processes 350 times for each council. working on behalf of the whole secimprove delivery," he says. The transformation parameters

are much the same for aspects such sion of public leisure facilities, but when it comes to the council servic "Digital transformation in public es that cover highly sensitive areas including social care and housing, Walther observes. Investment and implementation here are subject to tighter regulatory constraints, while users must take priority.

"A common mistake is to view such people as 'customers', which implies choice on their part," he says. "If you don't have the means to pay privately for social care, say, the council is your only option. You are

This forces local authorities to pull in "contradictory directions" on digital transformation, argues "These include the challenge of leg- | Walther, who believes that their outsourcing of complex services to third parties "has mostly failed".

Looking ahead. Walther believes digitally transform itself, given the | vice delivery than ever before."

DIFFERENT AUTHORITIES ATTRACT DIFFERENT LEVELS OF CENTRAL FUNDING

 Metropolitan districts
London boroughs
Unitary authorities
Shire counties and districts 2019-20 2020-21 2021-22 2022-23 2016-17

'Socially conscious organisations must not be left behind'

Grace Boyling explains how 180 Degrees Consulting is helping charities with limited resources to digitally transform themselves

he march of globalisation priority for many enterprises. It allows them to install the latest | are also a significant component of technology and adopt innovative, future-proof working methods. This not only enables them to carve out new business opportunities; it also boosts their engagement with customers and clients. at 180 Degrees Consulting can help Ultimately, the exercise is about creating a more reliable and proworking environment ductive through improved connectivity and seamless workflows.

But transforming an organisation introducing new tech, altering deeply embedded processes and challenging the norms of decisionmaking - is difficult. It requires specialist skills that even multinational corporations sometimes lack. strategy across its digital plat-This is precisely why firms turn to forms and directed a complete reexternal consultants for help.

to afford big corporate consultan- provided the expertise needed to cy fees, it's an unfortunate reality that charities and other not-forprofit organisations are priced out of this market, almost without exception. We at 180 Degrees Consulting believe that cost should not prevent such enterprises from accessing the skills and services they require to advance their causes.

Our enterprise is the world's largest university-based consultancy | greater efficiency - and cost firm that caters specifically to the needs of not-for-profit organisations. We provide affordable highquality consultancy services aimed at enabling socially conscious enterprises to reach their full poten- can leave all else aside and focus tial and maximise their impact.

Third sector organisations have become increasingly interested in digitally transforming their operations. Our firm has helped to make that possible for those that would not otherwise have had access to the requisite support.

One success story is that of Seasid Scavenge, a not-for-profit organisation that aims to clear up Australian waterways and promote education about environmental sustainability. With the assistance of 180 Degrees Consulting, the charity moved from paper-based operations to a fully digitalised model, working to integrate its databases in a new online format using a bot created by our consultants. As a result, Seaside Grace Boyling Scavenge reduced the time spent on | Global PR specialist, certain key tasks by more than 70%. | 180 Degrees Consulting

This is an example of an organhas made digital trans- isation using new technology as a formation a key strategic | means for transformation. But it's important to remember that skills a digital transformation. For third sector organisations, many of which rely on volunteer workers. the lack of in-house transformational skills is often magnified. We them fill those gaps. We recently assisted Teach for

India (TFI), an organisation working towards educational equity among the most disadvantaged children in India. TFI had a fixed marketing strategy that focused mainly on YouTube and Facebook, targeting a certain demographic of assessment of the organisation's design to help it enhance its reach Although businesses may be able and cater to new audiences. We overhaul TFI's social media presence and expand it to platforms with a vounger user base, such as TikTok and Instagram.

Digital transformation can play a critical role in boosting the performance and impact of organisations. Not-for-profit and socially conscious organisations must not be left behind in the quest for should not stand in the way of their transformational aspirations. With the aid of consulting services such as ours, not-for-profit organisations and social enterprises on what's most important: maximising their impact and helping people in need.





How innovation can transform public services

mpactful solutions."

tom-up innovation

f Defence (MoD), for example,

Last year, PUBLIC was commissione

o run an innovation and leadership

rogramme called the Percy Hobart

ellowship. Participants from defence

new technologies, accelerate trans

ormation around citizens' needs and

asting impact. The programme also

digital concepts for improving ke

ital programmes. This has effectively

saved the MOD money by reducing

the amount it might otherwise have

spent on contractors, while also

with hands-on experience.

The public sector needs to empower bottom-up innovation and engage with a wider range of suppliers to deliver on its digital ambition

e government recognises | Empowering change agents the importance of digitally transforming public services. In the Transforming for a Digital Future strategy, for example, there is plenty of desire to deliver better citizen experiences and upskill civil servants. But ambition is one thing; results

are another The UN E-Government Development Index, which assesses the digital maturity of UN member states, found that between 2016 and 2022 the UK declined from first to 11th place. Yet since 2016. the UK has also ranked within the top five countries in the Global Innovation Index In other words there is a disconnect between the wealth of innovation available in the UK and its impact within public services.

PUBLIC exists to forge those connections, working with government to translate policy into product by improv ing digital strategy, crowding-in startup nnovation and building user-centred solutions. "Combining best practice digital delivery, alongside a culture of innovation that incorporates a wider array of suppliers, is critical if the government is to take the next step toward better digital services," says Ryan Shea, managing director at PUBLIC. It's an urgent task. According to a survey

conducted by the Global Government Forum, only 42% of civil servants believe that their department has the tools, resources and skills necessary to use technology to transform public services. As departments are asked to do more with less, adopting new tactics to scale digital initiatives offers the best way to secure value for money.

Along with an `intrapreneurial' culture

inside government, a healthy supplier market is important for driving com petition and cost efficiency in governnent supply chains. Shea believes the across the organisation he cultural status quo prevents trans overnment should broaden the list of ormative ideas and digital initiatives suppliers it works with, so that smaller from scaling to make a real impact or rms can play a bigger role in delivering services. But change is possible nnovative technologies.

"Staff need to feel empowered to act "Government has begun to adopt n a more entrepreneurial way," says agile working, but digital services are Shea. "This is something leaders can neld back by linear procurement. support by creating work environments Service owners and commercial teams that encourage and reward creative hat engage with the ecosystem of problem solving, and providing good startups, innovators and businesses deas with the runway to develop into stand to learn more about where merging technology can generate Some government departments value within services," he says

its talent pool to sustain and improve

Leveraging an ecosystem

have made significant progress toward Shea advises commercial teams to his culture of innovation. The Ministry dopt agile and iterative procure nent, replacing long and complex mbedding innovation skills in perfor ender documentation with demos nance expectations and using a new prototyping and testing to make their skills framework to encourage bot ocurement approaches more agile nd user-driven

Challenge-based programmes are nother underused commercial tool ngaging with suppliers," says Shea Rather than starting with the thing you vant to buy, you start with the problen you want to solve and open that up to a apply startup methodologies to create nuch wider range of solutions.

Ultimately, by treating the wider ncluded secondment into a digita novation ecosystem as a strategic startup to provide those taking part asset to support and draw upon, the overnment stands to improve every Participants developed their own aspect of public service delivery

tasks in the military and have gone or to become leaders of large-scale dig-For more information visit public.io



Binning the bells and whistles: is 2023 the year of people-first digital transformation?

When it comes to digital transformation strategies, businesses often get wrapped up in big-budget initiatives. But getting it right can mean paring back and putting people first

annot be discovered by studying sales spreadsheets and consumer data. Sitting on the sofa of an elderly carer, TPXimpact's digital transformation team were getting familiar with how and when users logged on to the website of one of the UK's leading health support charities.

The carer revealed that, because of a dependent partner with constant care needs, they could only access the site to seek help late at night, sitting in loved ones. This point was reaffirmed by other users, who often found elements of the site difficult to navigate quickly in the finite free time they had to gain advice.

While designers on the project were capable of applying video, animation and interactive maps, this particular project required a minimalist, streamlined approach. The criteria were tors filling out funding applications in simple but critical: the site must be easy to read and navigate, it mustn't | Oscar winner incorporate large files that take time to load, and extensive questionnaires were off the table.

In these scenarios, CMOs and CTOs must collaborate with each other and end users. Otherwise, they risk creating shiny digital expositions that deliver on style but leave substance wanting something that is wasteful and antivalue during a cost-of-living crisis, says ganise a website; you start rewiring Rebecca Hull, managing director of digital experience at TPXimpact.

A similar people-first approach bore fruit during a digital transformation project for a global development charity, which was struggling to bring in donations during the economic crisis, Hull explains. "We needed to understand why users didn't donate more often. They said: you don't ask button was obscured by an image on

During a Christmas period where the choice between eating and heating | Essex County Council and the UK gov became a stark reality for millions of Britons, charities felt the squeeze at what is usually a peak time for fundraistion was to make their digital assets | with a shiny new product and web work as hard as possible through site says Byrne.

ere are some insights that | incremental, rapid changes to combat the harsh economic downturn.

> "Not all clients have big budgets, yet lot of our success happens by moving organisations with little digital maturity onto the next stage through careful steps," she says. "Very often, you cannot do that with a

For organisations that serve varied user groups and attract millions of online visitors each year, creating clear website design is especially important. Working together on a digital transfor mation project, TPXimpact helped a major British film and television organisation distil its huge offering into three distinct user journeys: cinema fans eager to catch a show at the IMAX, film geeks keen to study the back catalogue of their favourite film icons, and directhe hopes of creating the next

They then worked to entirely re-configure their website, decluttering content to leave a simpler and clearer interaction.

But that's not just good website design, says Jen Byrne, TPXimpact's managing director of consulting: "I order to create and enable new digital user journeys, you don't just reor the whole organisation. You re-navi gate that whole process to align those key customer journeys and how ser

Successful digital transformation isn't about dictating to front-line staff or dragging users along with Winning strategies mear heir preferences. It's also vital to allow digital staff to work alongside key workers. TPXimpact did just that when creating new digital visions for ernment's Department for Levelling Up, Housing and Communities.

Critically, staff don't want to know if they push as much online as ing. TPXimpact helped the charity they are on a digital maturity journey, increase their regular givers and and likewise, businesses don't want exceed their fundraising targets with a digital transformation teams to disclear, cost-effective strategy. The solu-



"We believe in blended teams. You'd | could help them punch above their walk into a government building and not know who was from TPXimpact and | tive Championship division. who were civil servants." She continues: "Successful transformation is about culture shift such as reversing waterfall management, everything comes from the top and trickles down. You have to observe, isten and swap skills."

Embracing Al-enabled

Organisations have realised that

possible, it speeds things up -

but can those who are not so

digitally literate stay with you?

TPXimpact's managing director data and insights, Andy Ball, previously worked alongside Rotherham United football club. He saw how sharing data seamlessly when transferring targets

financial weight in a fiercely competi-"Often, people are very protective of

the data and think if they share it, they might lose power. But actually, sharing data is the power. You're creating a truly transparent bigger picture. You only find success when you share that same vision, one that all departments and users can buy into," says Ball. Applied correctly, transparent, all-access data can transform a public entity, giving it a refreshed social pur pose in a changing world.

When Durham County Council wanted to provide access to resources from across the organisation, including records from their library, historic photographs and registry data, Ball's team placed algorithms over the top of the materials to help organise the large bank of content, capturing the richness of the Northeast past and present

Historic documents could then be inked back to local records and notices, which could then be tied to future documents. Using an advanced | For more information, visit cataloguing algorithm enabled the tpximpact.com council to surface content that was previously hard to find and collect it in one place to create a more accessible and interactive journey of discovery.

In this instance, Al and technology became a core component of a ser vice's entire purpose. But there is no use applying Al if you don't have the reporting systems to manage it. according to Ball. "Do you know where you are as a company at this place in time? How are staff performing, and who is able to use the new Al and who sn't? Without understanding the wider systems in your company, technology will never work successfully. When you can trust the data and the system, then ou can start accelerating," he says.

During economic change, both public Still, any changes must be reverse-en gineered so the public stays with you. ull concludes: "The whole world is speeding up, and the internet has amplified this massively. Organisations have realised that if they push as much online as possible, it speeds things up but can those who are not so digitally iterate stay with you?



Gap analysis: how to conduct a skills audit

While many firms know that they lack digital skills, they need to pinpoint where those deficits exist if they're to solve the problem

Rachel Muller-Hevndyl

mations. Although there have been countless reports warning that businesses in the UK are struggling to recruit and retain such skills. it's also becoming clear that many firms don't even know which ones they are most sorely lacking.

A digital skills audit may be a sensible first step for any enterprise, regardless of its size or sector, in en- as the pandemic has progressed, suring an effective digital transformation. Those that take it are more chain and the high number of likely to avoid making costly mistakes further down the line. The exercise could also give them some

strong digital skills power ommends that organisations priorsuccessful digital transfor- itise finding the skills gaps in their workforce. That starts with developing a thorough understanding of the expertise they do have.

> "Organisations must start identifying the skills they have and which ones are missing," says Sheth, who adds that a few factors are making such action advisable. "The macroeconomic changes that we've seen along with problems in the supply people leaving their jobs, have all highlighted the need to find the right talent with the right skills to

vanced teams, a digital skills audit

t's widely accepted that I transformation, at Gartner, He rec- I will help businesses to gain a full understanding of what they're un against. If you don't have the essen tial infrastructure in place, it's all too easy to fall behind.

Fav Bordbar, digital skills lead at accounting firm Mazars in the UK stresses that audits are the key to working out how tuned in your em olovees are to the fast-changing world of digital tech.

"People don't know that they don't know," she says. "Technology s evolving so quickly. You migh think that you've trained everyone that Microsoft has added new func It's key to develop a framework to plug the gaps and support the per



You could spend millions of pounds giving everyone training in Python, but how many people in your organisation actually need to know Python?

> With such considerations in mind, Mazars has established a partnership with Microsoft's Enterprise Skills Initiative to enable upskilling in Excel, PowerPoint and Outlook, as well as more advanced programs. This can be used in confor the Information Age (SFIA), we can make it all more available. which provides a common global language for digital competency. As the technology and benchmarks for digital skills change continually, the framework is updated regularly by the SFIA Foundation.

It's important to remember that look the same for everyone. It's obvious that the combination of skills needed for marketing probably won't be the same for finance. for instance. Gaining an understanding of each profession and the specific digital skills it requires is therefore vital

A blanket approach to upskilling could prove wasteful, as Bordbar points out. "You could spend millions of pounds giving everyone training in Python", she says, "but how many people in your organisation actually need to know Python?

Traditionally, it's been down to inlividuals to assess the skills requirements of their teams. Sheth suggests that a more collaborative firm to formally assess its digital approach can prompt a firm to think | skills once a year, a workplace culabout skills in a more sustainable way. This should help to ensure that its transformation efforts align with | that way, auditing the skills of your the overall needs of the business. people by understanding exactly Bringing together senior specialists | where they are now may prove far in corporate strategy, talent acquisition, and diversity and inclusion they need in an uncertain future.

should mean that any digital skills shortfalls are addressed cohesively. Drawing on the data from these stakeholders can help the business to work out how to close the gaps it has identified. But such collaboration in the auditing process should not only take place at a senior level. Involving employees at all levels should provide deeper insights into

Mazars, for instance, has been working on how to deliver training consistently across its various regional operations. The business is looking into offering subtitles and multiple language options, according to Bordbar.

"It's exciting because it allows us to think about how we can remove barriers to digital upskilling," she junction with the Skills Framework | says. "By modernising our process,

The next thing a firm should do is identify and nominate so-called skills disseminators in the workforce. These are employees who can train and coach others in their teams. They don't necessarily have to be the most technically able, but digital skills won't - and shouldn't | they do require the right interper sonal skills to act as mentors.

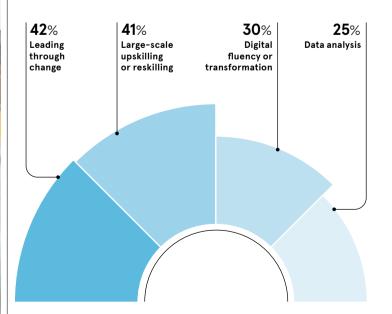
> Sheth points out that Gartner has found that its skills disseminators help to fulfil a few different needs within audits. When people on the front line deliver digital skills trainnvestment in that process. It also means that disseminators can alert the management team to areas in

"It helps everyone in the work force to see digital audits as some thing motivational rather than an additional task," he says.

At this stage, it might be clear that auditing is an ongoing process. While it would make sense for a ture that prizes consistent feedback and training is just as valuable. In more helpful than predicting what

LEARNING AND DEVELOPMENT IN AID OF TRANSFORMATIONS

Four popular training programmes worldwide, by the proportion of companies







Silver linings playbook

The cloud sector's explosive growth phase seems to be over at last. The market's increasing maturity could well be good for customers

etween 2009 and 2019 the | But this deceleration has to be put | In this period of economic uncer public cloud computing market grew into a multibillion-dollar industry. Spending on public cloud infrastructure services is on track to exceed £125bn worldwide, according to research consul- Research published by Eurostat tancy Statista. But revenue growth in Amazon Web Services (AWS) has | in the EU used the cloud in 2021, months, while growth in Microsoft's Azure – a star performer for the firm for many years – fell to 35% in Q3 2022 from 50% a year earlier.

The strategy of building cloud buy it has been on the decline for some while, according to industry | should level off at some point. Now analyst Dean McCarron, president of Mercury Research. In October 2022, he told Reuters: "The 'build | derstand more about its benefits | been coasting down since then."

into perspective. The cloud sector's growth has been phenomenal, with companies large and small benefiting from the lower cost and greater flexibility offered by its services. indicates that 41% of all enterprises mostly for email and file storage.

experience of the technology.

Pandemic-induced trends such as the proliferation of remote and brid multi-cloud managed services. hybrid working and the increased digitisation of retail and other services drove many companies capacity and waiting for clients to towards greater cloud adoption. It's while 60% of respondents on averinevitable that such rapid growth age hosted their applications in the cloud, 23% were planning to move that cloud adoption is maturing, some of them back to a data centre business leaders are starting to unin the future

ate their digital spend during the

tainty, they are also re-examining

their spending on cloud services.

In 2022, Aptum, a provider of hy in the UK and North America abou their cloud usage. It found that,

Although the cloud is promoted as more' happened in 2021 and we've | and its limitations – based on their | an opportunity for cost reduction some users have discovered that it may be best to leave it

the savings are not as substantial and immediate as they had hoped.

"We've seen some companies taking a U-turn on cloud after reaching the cloud has its technical limitsignificant scale, realising that the ations, reports Jags Ramnaravan, cost doesn't make sense once it hits | chief product officer at cloud dataa certain level of consumption."

"At that point, which will vary for different companies, the economics | useful storage options either start to break and there's a realisateam that can understand how applied on premises."

Companies have generally been relaxed about cloud costs when the going has been good. But their view

For new applications, utilising

the best choice. But, if you're

public cloud hosting is typically

running a legacy application that

has been in use for 15 or 20 years

and is still functioning properly,

has changed as the economic con ditions have deteriorated.

Some have also discovered that base firm MariaDB Corporation. He So says Matt Barker, president of notes that common databases in cloud-native solutions at Venafi, a the cloud, such as MySOL, are not cybersecurity specialist. He adds: built for horizontal scaling. They don't take advantage of a range of

"A new wave of distributed, cloud tion that they can save money by | native data management software moving applications back. This is is emerging to address these chalbeing made possible by having a lenges," Ramnarayan says. "One example is the second-generation cloud-native technology can be databases that run on multiple public clouds while also supporting on-premises workloads."

Like almost any maturing market, the cloud sector is becoming more ompetitive but also more diverse, specialised and sophisticated. The hyperscalers – as cloud providers such as AWS, Microsoft and Google among others, have become known - are being challenged by niche providers, according to Ramnarayan.

"Another differentiating feature of these second-generation cloud databases is their ability to deliver innovation, due to expertise and focus, that hyperscaler clouds cannot," he says. "Although the first-generation databases from the hyperscalers did meet core infrastructure needs, the second generation provide smarter solutions with optimised features that reduce overall costs.'

The cloud's benefits will ensure that it remains relevant to companies of all types and sizes. But it appears that the vast majority are deciding against putting all their eggs in one basket, whether that's in the cloud or on the premises.

According to Cisco Systems' 2022 Global Hybrid Cloud Trends Report: "Hybrid cloud models that incorporate both on-premises infrastructure and cloud-based resources have become the enterprise norm.'

The report also suggests that competition among cloud providers is increasing, with 92% of organisations opting to use more than two public cloud providers.

How should businesses choose between the cloud, an on-premises solution or a hybrid approach? Prashant Ketkar, chief technology and product officer at software developer Alludo, offers the following advice: "For new applications, utilising public cloud hosting is typically the best choice. On the other hand, if you're running a legacy application that has been in use for 15 or 20 years and is still functioning properly, it may be best to leave it as is. What should you do if your application isn't modern or legacy? In such cases, companies should evaluate three key factors: cost, user experience and security."

tain types of data on the premises for security reasons or concerns about latency - that is, communicaother platforms.

There are other advantages Simon Boreham, regional business lead for northern Europe and emerging markets at Exasol, a specialist in database management software. Retaining an on-premises presence means that, if the firm decides to move to the cloud, it can risking a "big-bang approach, cloud services will evolve, diversify which so often results in outages and mature over the next few years. and cost overruns, as well as un- In many ways that should be good happy clients and employees", he news for customers.

The amount of cloud expenditure that's wasted, according to IT chiefs

The average amount over budget

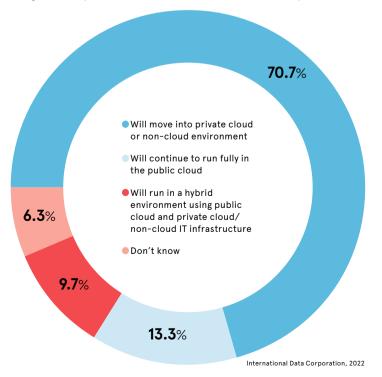
says. "There's also no guarantee that data sets are compatible with the new cloud system. A solution to this is to consciously adopt a hybrid Many companies will keep cer- strategy, planning a staged approach rather than abandoning old systems altogether."

Keeping data both on the premises and in the cloud means firms can be agile and react to shifts in demand, while freeing them to work with data adopting a hybrid approach, notes | in ways that best suit their specific needs Boreham adds. "A hybrid approach can de-risk and save organisations time and money, because only data that would benefit from being in the cloud is moved there."

Greater competition and a betterinformed, more demanding user migrate at its own pace instead of base means that the market for

FIRMS ARE RETHINKING THEIR RELIANCE ON PUBLIC CLOUDS

Share of companies giving the following responses when asked how they intend to organise their public-cloud-based workloads over the next two years



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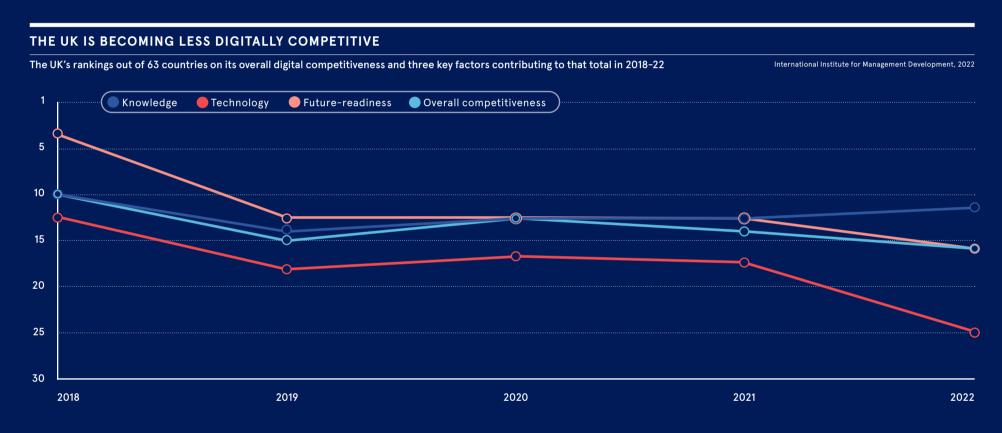
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HOW DIGITALLY COMPETITIVE IS THE UK?

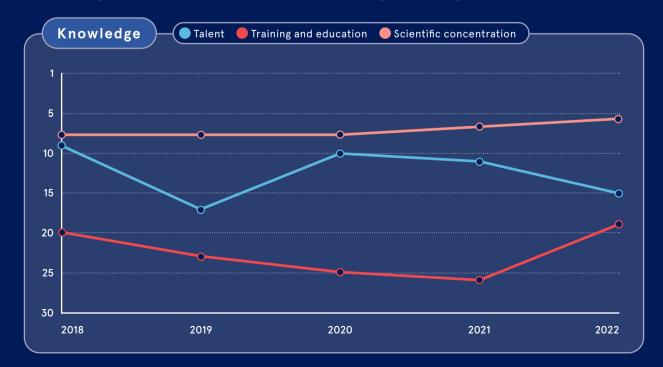
While digitalisation is not a zero-sum game, countries that do it better are likely to be more innovative and productive than average, attracting more investment and talent too. Their success in this respect could ultimately make them better places to live and do business. Considering the benefits of digital integration and preparedness, it's valuable for nations to benchmark themselves to understand where they excel and where they may be lagging the pack. Digging into the nuts and bolts of digital competitiveness, how does the UK rank against key comparators around the world?



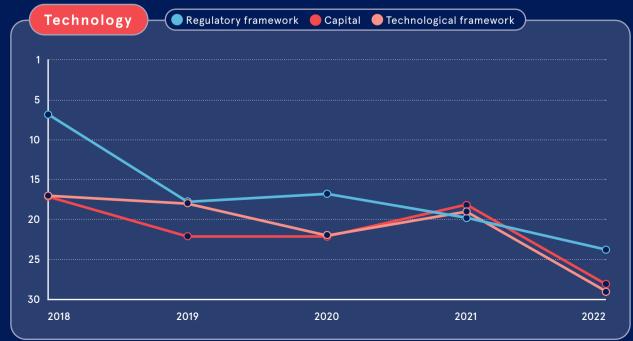




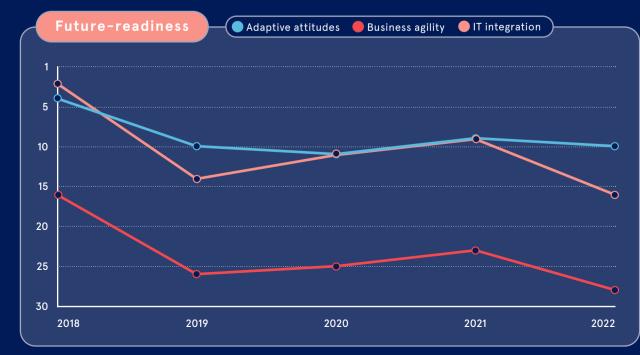
The UK's rankings out of 63 countries on the three sub-factors contributing to its knowledge scores







The UK's rankings out of 63 countries on the three sub-factors contributing to its future-readiness scores



DIGITAL DESIGN

Anarchy in the UX – and how to prevent it

Some companies, in their eagerness to adopt the Next Big Technology, risk losing sight of their customers' needs. This is where digital design researchers come into their own

n March last year, high-end clothing brands including Dolce & Gabbana, Etro and Tommy Hilfiger placed themselves squarely on the digital front row of the first ever fashion week held in the metaverse. Elsewhere in this immersive 3D realm, JP Morgan opened a banking lounge. Users were able to create avatars of themselves to wander the space, where they could admire a portrait of CEO Jamie Dimon on the wall, along with a list of the firm's achievements. Visitors couldn't do anything as practical as speaking to staff in what was clearly an experimental facility, although they could at least interact with its resident virtual tiger.

Several big businesses invested heavily in digital real estate in 2022. but few people were interested enough to visit their shiny new metaverse properties and see what these had to offer them. By the end of the year, only 9% of Meta's creator built worlds had ever attracted more than 50 users and the company for merly known as Facebook, which had engineered much of the metaverse had lost \$30bn (£25bn)

Too many companies rushed head first into Web3 ventures such as the metaverse without even having mastered Web2. That's the view of Shama Hyder, founder-CEO of marketing and PR agency Zen Media and the author of Momentum: how to propel your marketing and transform your brand in the digital age.

She compares the hype that sur-



It is easy for some brands to find themselves disconnected from their end users, given the lines of code, pixels and glass between them



download 'one more app'.'

Ashton Snook, senior design and lieves that too many firms became so dazzled by the potential of the metaverse that they lost focus on their customers' needs and even abandoned sound research.

"It is easy for some brands to find themselves disconnected from their end users, given the lines of code, pixels and glass between them," he says. "Understanding your audience's desires, activities and ambitions is paramount. You need to retain their voice as you balance brand personality against technology to produce something of merit."

When Mental health charity Mind decided that it had to revamp its digital platforms, it called on the services of design researchers to inform the process. To give the organisation a better understanding of its users' access needs, they conducted a range of usability tests. Some of these took place in people's homes and others in a mobile lab.

An important factor for Mind was that the participants should use their own devices wherever possible | Wunderman Thompson, 2022

during the period when "every firm also invited people with a wide users and keeping an open mind, under the Sun created an app but range of access needs and varying few actually needed one. Many of | levels of confidence in using digital | director at Nexer Digital, the design | them offered very poor website ex- tech to participate in the study. periences yet they still wanted to Where necessary, they allowed for build an app. After the novelty wore the use of assistive software and off, most apps were abandoned. hardware, such as screen readers. because users simply didn't want to | magnification tools, special glasses. gloves and even simulators.

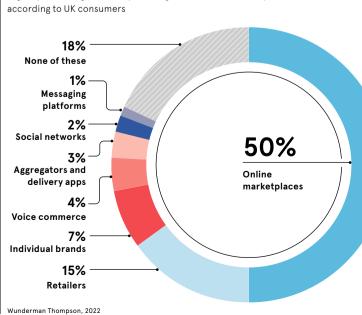
While all these processes offered

the buzz generated by mobile apps | when using its site. The researchers | regular face-to-face contact with stresses Simon Wissink, account and development agency that collaborated with Mind.

"Typically, we run these sessions on weekly for different clients," he says, "The research is augmented with surveys, in-depth interviews and diary studies to capture user research manager at Vodafone, be- valuable insights, the keys to the input over a longer period. These are market as the starting point. She success of this study were having | all qualitative methods, but we use

TAKE A TIP FROM ONLINE MARKETPLACES

Digital purchasing channels providing the best customer experience,



with analytics tools."

Such regular contact with the designer serves to give the user the smoothest possible experience, says Hyder. She adds that this is some thing that consumers are coming to expect whether they're engaging with a brand online or on the high street - especially at a time when the line between the digital and physical UXs is blurring.

"Take purchasing cosmetics as an example," Hyder says. "Customers want to walk into a store and buy what they need there, but also go online and have a similar experience, with digital lipstick try-outs and all their preferences saved on the site for next time.'

After Nexer Digital (whose other clients include AstraZeneca and the Department for Education), finished its work, Mind saw a growth in user engagement with its campaigns and an increase of more than 70% in average monthly donations.

To work out exactly how people are using apps and websites, design researchers require a wide range of skills. First and foremost, they need to be excellent communicators, says Christa Simon, user experience researcher at Figma, a cloud-based collaborative design platform.

"As a design researcher, you must be able to ask the right questions, actively listen to the answers and then present your findings clearly and concisely to the rest of the team," she says. "That means you need to be good at building relation ships - you're not only researching your users; you're researching stakeholders to ensure that you are all aligned."

Hyder argues that an effective dig ital researcher will come up with a clear strategic plan as to where a company should engage with the public and how, taking its target stresses that its "customers will simply look elsewhere if they expe rience too much friction".

Digital design researchers often have a background in psychology, anthropology or human-computer interaction, notes Simon, who adds: "Most crucially, they need to be curious, creative, and empathetic They must be able to put themselves in the users' shoes, be willing to experiment with new research techniques and think creatively to solve complex problems.'

To meet the demands of a varied customer base, the design team should ideally contain members whose backgrounds reflect those of the users, according to Wissink.

"People of different ages, ethnicities, genders, abilities, classes and education levels will interact with something in different ways," he says. "Including them all in the design and testing stages will ensure that their experiences inform the end product."

Sky's the limit: how the cloud can bring brighter days

If leaders get their strategy right, cloud technology can help businesses achieve success, remain efficient and relevant, and continue to innovate

occasional extravagance. Forward-thinking companies continually seek ways to grow and evolve, eliminating or automating non-competitive work to free up time and people to do this

When implemented correctly, a solid cloud migration strategy can be a crucial piece in the transformation puzzle, especially when companies are facing a squeeze. In fact, the initial allure of the cloud for most leaders is financial. Running an in-house data centre requires significant upfront capital investment and this technology is often not even used to capacity. The alternaa co-located data centre means being study by IDC found that typical data centres are 45% underutilised. So why ideas into action. invest in a resource that won't be used half the time?

In the cloud, businesses only pay for the computing power, data storage | from observing what a diverse range and services that they use. They can scale their technology consumption | Dunelm, Sainsbury's and Nationwide up or down based on business and Building Society are able to do in the customer demands rather than cloud," he says. according to some arbitrary licensing agreement. "You can do more, for less, more cost-effectively", says Phil Le-Brun, director of enterprise strategy at Amazon Web Services (AWS), the world's most broadly adopted cloud provider

The Covid-19 pandemic shone a light on the flexibility and affordability of the cloud, says Le-Brun. "Travel companies operating on AWS Cloud could quickly cut consumption and, therefore, costs, while supermarkets could ramp up their ability to handle a large number of

However, the benefits of the cloud | to achieving this goal." go beyond cost. And as customer experience becomes a key differentiator for business success in the rate vice president for global technol modern era, having access to the ogy development. Here, he saw first technology that enables excellence in | hand the business advantages of customer service and fulfilment is working with AWS Cloud. His company becoming vital.

The cloud enables businesses to what became a multi-billion-dolla focus on exceeding customer expecta- | home delivery business in months. Thi tions with new insights, products and | was facilitated through its cloud

novation shouldn't be an | services, rather than wasting time and money on running their own data cen tres or managing complex, expensive icensing deals, says Le-Brun. The real power of the cloud is that it allows

"In all, AWS Cloud enables busi idea, to scale it globally in minutes, not nonths or vears," savs Le Brun Offering a global infrastructure accessible to the newest startup through to the largest organisation, AWS allows more experiments to be run to find those magic ideas that will wow customers. Unsuccessful experiments tive of outsourcing computing needs to | can be shut down and successful ones ushered quickly into customer tied down by long-term licences. A hands. This capability to test, pivot or scale allows companies to rapidly turn

"We believe this ability to be agile and fast are universal, sustainable competitive advantages. And I say this of customers such as Formula One

A good example of this fast innova tion is the Amazon Just Walk Out tech ology that many retailers are now using to rethink the retail experience Customers can pick up items in-store and leave without the inconvenience of queueing to pay, with the bill comin through their Amazon account. "It was an initiative started with a clear cus tomer need in mind, although the 'how' to achieve it wasn't initially clear," says Le-Brun. "Fast experime plethora of technology available in the cloud, enabled the team to find a path

In a previous role, Le-Brun worked at a fast food chain, where he was corpo gained the ability to build and scale

infrastructure, though it was achieved by focusing on its business needs, not the underlying technology or negotiating a multitude of licenses.

A move to the cloud can also help inspire, attract and retain staff. Employees want to work with modern technology that allows them to deliver value faster. Le-Brun points to the dynamic team structures that AWS enables in organisations.

"Within AWS, we organise around what we call two-pizza teams: teams of six to 10 people small enough to be fed with two pizzas, thereby enabling agility. These teams are responsible for delivering not just technology, but an actual business outcome. It's an approach we help our customers adopt, speeding up decision-making, giving talented employees access to the latest cloud-based technology, and allowing them to deliver real, purposeful change to businesses rather than feeling like a small cog in a large

The cloud offers a way for all of

us to operate in a more secure,

resilient and sustainable way

impact. AWS, for example, has carbon footprint tool designed to delive his level of insight and actionability. f the confluence of critical events facing the world in this era of "polycri sis" across the economy, politics society and climate. And customer preference and fickleness continue to keep businesses on their toes. Leaders need to be multi-dexterous and nav

gate the world's increasing complex-

become more resilient, more effec

adoption - according to AWS CEO

ity. They need to simultaneously

company found that operating in the

cloud can result in up to an 88% smaller

carbon footprint. And that is when

company is using the same processing

n the cloud as in a regular data centre

The flexibility in the cloud enables

organisations to continue to optimise

for performance, cost and environmen

tive in using their resources and mo ocused on growth. These are still early days for cloud

also expect their employers to recognise their obligation to operate sus tainably. Increasingly, forward-looking organisations understand that there both a moral imperative and business upside to considering the environmer oving to the cloud typically brings in their operations. A 2021 report from a five-fold improvement in energy 451 Research found that simply moving efficiency in EMEA to the cloud typically brings a five-fold nprovement in energy efficiency EMEA, and 2019 research by the same

Adam Selipsky, in 2021 only between 3% and 15% of possible applications esided in the cloud. With so much

otential already being realised, there still a huge opportunity to reinvent As Le-Brun says: "The cloud is liber ating. It offers employees an opportuhe ability to cost-effectively innovate

previously unimaginable ways. The loud offers a way for all of us to oper ate in a more secure, resilient and sus

To find out more, visit





Data centres and IT infrastructure strategy are key to digital transformation

IT infrastructure matters more now than at any point in history. If businesses are to fully implement a digital transformation strategy, they first need to rethink the physicality of data

nouses that sit at the heart of the world's boundless computing needs, are often overlooked. Yet they are the unsung heroes of our digital world. As 5G networks, the metaverse, cloud computing, the Internet of Things and remote working are embedded in society, there's an where humans congregate in offices increasing disconnect with the actual physical infrastructure needed to as well as generate business, places like serve these applications.

As businesses transform and become more data-led, their IT infrastructure needs will grow and the nature of their data centre requirements will change as a result. The challenge therefore is delivering IT infrastructure to meet these needs, both in terms of capacity and data in the right place, at the right time, connectivity. Corporations may have a digital transformation strategy; few have a data centre strategy. This needs to change if they're to remain competitive.

"Every business is a digital business, and as they roll out new innovations, new apps or products, which they want to scale-up and industrialise, then they will encounter bottlenecks in terms of performance and cost unless they really think about the data infrastructure that serves them. Corporations must question the underlying architecture first," says Patrick Lastennet, director for enterprise at Digital Realty. the global provider of cloud- and carrier-neutral data centre, colocation and interconnection solutions.

He adds: "What's changed now is that the computing power must gravgenerated not the other way around. large and is growing at such a rate that | costly. However, not every IT workload | processed and stored

ata centres, the power- | it needs to be processed as close to where it originates as possible."

Data cannot be ignored

The term 'data gravity' is increasingly used to describe this concept. Data has the greatest gravitational pull where it has the largest mass. This tends to be and homes and where they consume, mega-cities.

Therefore, the locations where data is handled matters. It means where data centres and their connections are located is also mission critical. Businesses won't be able to transform digitally unless they are processing especially as corporations become more data-led and digital first, automating processes and plugging into more data from their supply chains and

"CIOs and decision-makers need to hink hard about where the majority of their data is being produced, how nuch is going to be generated now and in the future, and where it needs to be processed and stored. Many enter prises are at the start of their digital ransformation journey. It is important that this conversation is had right now

Data infrastructure spending

is under review Cost management is also a big issue Cloud computing may provide mor itate towards where the data is being computing power and a more inno vative space for development teams That's because the volume of data is so to operate from, but it can be more



a fine balance to be had.

Commercial feature

"Right now, we are in a very volatile, deal of uncertainty; that's why the cost of data-centres is in the crosshairs. Businesses are starting to look at this needs traditional data centres for the

CIOs and decision-makers need

to think hard about where the

majority of their data is being

produced, how much is going

to be generated now and in the

future, and where it needs to be

tion, but it also needs cloud capacity tion lines or rerouting logistics and to deliver new applications and digital economic environment, with a great transformations," Lastennet says. "A data-centric architecture approach is crucial, one that is built around data | Legislation and regulation increasingly flows and understanding the cost and with a more granular perspective. IT performance attached to each workload and whether it can work in the cloud or outside it."

> Data mapping is essential where ousinesses map out their data needs first, how and where it is stored, and what their data footprint is likely to be in the future. Then, businesses can engage data centre rationalisation, in which they realign and refine their IT resources and networks to data platform should be configured. No meet their needs both operationally and strategically.

If businesses want the best performance at the right cost, they have to question how the underlying physical For more, please visit data infrastructure is going to be deliv- digitalrealty.co.uk ered. Right now, many multinational companies and larger enterprises are rewiring how they conduct business around the globe, whether it is near- or \mid \blacksquare \checkmark

supply chains post Covid-19.

Businesses are also shifting to where there are greener sources of energy. determine data locations. Enterprises now favour running data centres within urisdictions where there is geo-polit ical and economic stability, as well as accountability. All of these issues, have nuge implications for IT infrastructure

Lastennet says: "if you take the long going to change in terms of where your data will originate and how your global



CORPORATE DATA STRATEGIES ARE EVOLVING TO SUPPORT DATA GRAVITY data hubs to support data analytics, over \$1bn keep their data in sharing and governance by 2024 COLOCATION OF COMPANY DATA IS INCREASING **62**% of companies with over \$1bn in revenue have 97% have at least 21 locations 93% will add new business points of presence by 2024 will add at least six points of presence will add more than 10 business points of presence FORMAL DATA STRATEGIES ARE BEING DEVELOPED TO SUPPORT THIS GROWTH IN DATA have a formal data strategy in data strategy plans or data data strategy early adoption that is actively in the planning executed stage Digital Reality, 2022

Q&A

Digital transformation needs to reflect data reality

Séamus Dunne, managing director for UK and Ireland at Digital Realty, discusses how digital and business transformation is demanding more from data and IT architecture



driving change?

digital and data-led, it means that IT infrastructures are evolving porations, trying to navigate the issues from being cost centres to revenue generators. The demands on the CIO are therefore huge and complex, since to us, they know that having their own IT must increasingly deliver, because it's critical to business growth. IT also office is not the future. It's not the needs to be resilient yet agile at the same time, deploying everyday work- tive. They would like to move it into loads, and new applications at scale.

This is no easy task. Increasingly the cloud has been it offers the firepower that businesses solutions start to eat into revenues. some companies have repatriated workloads into on premise data centres. It is why a hybrid IT approach is increasingly deployed, which marries the best of the cloud with traditional on-site data capabilities. Yet this approach needs significant networking capacity, since data must move effortlessly between workloads. It is | If businesses are also more complex in its architec ture, this is why when we build new colocation data centres, we start with networking capabilities involving a plethora of telecom, subsea cable and Internet providers. A connectivity hub is now vital for implementing hybrid IT

What strategy should businesses take?

f businesses are to capitalise on the hallmarks of digital transformation, including data analytics, artificial intelligence and machine learning, as well as tackle cybersecurity, they need to seriously rethink how their IT infrastructure is configured. Many CIOs know what they need to achieve strategy wise, they just don't know the best way to implement it.

ecosystem of partners in order to deal a destination. It's a process that's with this level of complexity. It's why we are increasingly a conduit for corand develop cost effective solutions. best way to do that involves deploy-We're seeing a lot of businesses come data centre. This gives corporations data centre in the basement of their answer from a sustainability perspecthe cloud, but that isn't the whole solution either. They cannot just shift their IT infrastructure to a colocaused to drive new applications, since | tion data centre with a network fabric overnight. What's the right way? This need. However, as the cost of cloud is where corporations need trusted partners to implement change.

to capitalise on the

hallmarks of digital

need to seriously

rethink how their

IT infrastructure

What advice would you give to

Digital transformation involves

a series of transitions and it's

transforming businesses?

is configured

Q

the flexibility to access the public cloud, migrate it or repatriate it into data-centres across multiple locaions and urban centres, globally. Future-proofing your IT infrastrucure is also vital as businesses transorm. This is difficult for CIOs to do on heir own cost effectively. At Digital Realty we are also on a journey to build competence and agility, as well as evolve over time. Businesses need to align themselves with ecosystem play-

ers that are on a journey to improve

managed over time. Businesses also

need the agility to be able to pivot

uring that journey. These days the

ing IT infrastructure in a highly net-

vorked, highly connected colocation

What other issues are

transformation, they

businesses dealing with?

As businesses transform one of the biggest challenges is dealing with the net-zero agenda and reducing carbon emissions. Everyone now wants to know about the sustainability agenda of their suppliers. These days, data centre service providers must have a strong sustainability strat egy with results. Through power purchasing agreements or PPAs, we can purchase many megawatts of renewable energy to power our data centres; this underwrites fresh capacity, such as new wind farms. We're now anchor buyers of renewable energy across Europe. Power usage efficiency in data centres is also important. If you run your own data centre on premise it is impossible to run it efficiently, because you cannot utilise it enough. Colocation data centres are better in this regards, since they are optimally configured across many clients.

Kings of the (super)highway

Many fleet managers remain doubtful about electric vehicles' sustainability credentials and the lack of charging infrastructure. But the sheer amount of data these products can provide may yet win them round

ride for electric vehicles (EVs) so far. Governments have introduced regulations and tax incentives to encourage their use, while Tesla has made them attractive to aspirational consumers. About 10.5 million new EVs (both plug-in hybrid and fully battery powered) were delivered worldwide last year, 55% up on 2021's total, according to the EV-Volumes database. But the industry has yet to Randerson, chief technology officer provide satisfactory responses to at WNVTech, a manufacturer of those concerned about the environmental impact of the manufactur- of diesel- and petrol-powered vehiing process and the continuing lack | cles, this could be provided only of charging infrastructure.

One aspect of the EV revolution that's tended to go under the radar is the access it offers fleet managers to behaviour. Employers with big fleets have a chance to use this wealth of in areas such as cost-efficiency, sustainability and customer service.

"Data is of critical importance to any fleet manager," says John zero-emission buses. "In the case

He continues: "Every fleet manager will have their own specific data requirements, depending on the size of their fleet, its sector and the environment in which it operates.

vehicle. By contrast, the ability to

provide data is an integral part of

modern EVs, meaning that more of

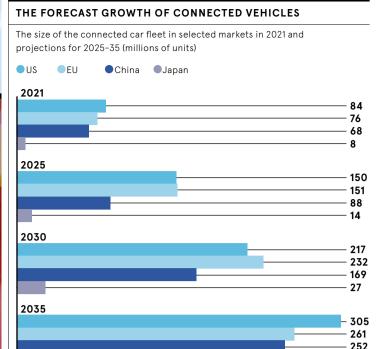
it is available from them."

can work with software architects to produce a vehicle that provides data to suit each manager's needs." An EV can offer a host of information, ranging from the topography of the route it's taking to how smoothly it's being driven. Certainly, this telematics data could solve some of the problems that electrification has

Philip van der Wilt is a senior vice-president at Samsara, a software developer specialising in the internet of things (IoT). He stresses that, "for the transition to EVs to work, fleet managers need IoTenabled data to manage their vehicles and plan their operations". Without such data, "the scenes over hours at supermarkets and service

been causing many fleet managers.

For the transition to EVs to work, fleet managers need IoT-enabled data to manage their vehicles by overlaying software on to each | and plan their operations



"The data that we monitor has

changed from preventive mainte-

which time the industry will be

worth about £720bn. It's likely that

the market for tech that can extract

Greg Hanson is a vice-president at

Informatica, a specialist in cloud

data management, where he leads

sales teams in EMEA and Latin

America. He says that, in the future,

"data from the thousands of sensors

on the outside of an EV could be

used to predict its battery life and

range more accurately, accounting

collect information about weather

patterns. So, for instance, a car-hire

firm with thousands of cars in act

ion nationwide would have valuable

real-time meteorological data and

Concerns about the lack of charge

ing points and the cost (both finan

cial and ecological) of EVs will

continue as the technology devel

ops and the infrastructure is rolled

out. Nonetheless, the wealth of

actionable information that these

vehicles have to offer - which could

help firms to achieve crucial cost

efficiencies in tough times - may

give sceptical fleet managers the

reassurance they require to join the

electric revolution.

for factors such as the temperature

boom alongside it.

stations to be recharged will be nothing compared with the sight of whole fleets left stranded because they've run out of charge".

Van der Wilt points out that fleet nanagers need such data to plot | forecast with our route planning to the most efficient delivery routes based on the range of each vehicle, accounting for variables such as the load it's carrying and the weather

"They need to be able to make intelligent choices about where and significant efficiency savings. The when recharging stops should be data revolution also affects our made – preferably at booked sta- people, who are learning new skills tions during the drivers' scheduled breaks - so that they can get moving again as soon as possible," he says.

Aidan McClean, CEO of all-electric car rental service UFODrive, uses an analogy likening a conventional vehicle to an old analogue telephone When creating EVs, manufacturers | and an EV to a smartphone.

> "The analogue telephone remains very good at a few things, but the and analyse data from EVs will smartphone is the platform to build on," he explains, "Traditional telematics and data enable you to aggregate and track specific data points. Engaging directly with those data points takes a lot of work, but the result is that it helps you to build automated operations and real-time

> For example, a fleet manager can use the cameras on an EV to provide identity verification that allows the and wind speed. They could also driver to access the vehicle, saving time and administration costs, McClean adds. While the EV is being driven, data from the vehicle can be analysed to provide a continually updated prediction of its range. Platforms such as the one run by UFODrive can identify the most cost-efficient charging option en route and automatically book a slot for the vehicle.

Waste management Veolia operates about 200 electric street-cleaning and refuse-collection vehicles. It is integrating different data sets with operational systems such as battery, vehicle and charging infrastructure to make decisions aimed at optimising routes and prolonging its EVs' working lives.

nance predictions to proactive performance optimisations, such as integrating next week's weather ChatGPT-infused Bing search cold conditions," says Veolia's CIO on the world, it wasn't long before it in northern Europe, Stuart Stock ran haywire, comparing journalists to "This is crucial to making electriication a viable long-term decar course, these deranged tirades were onisation solution by achieving of that sci-fi ilk; the tool is a probabilistic program that, having scraped the to make the transition to EVs as source, returns answers that it thinks smooth as possible for customers. are likely to be correct. The whole epi-Research by Statista indicates that sode did, however, highlight the need the global EV market's revenue will grow at an average annual rate of deployments, especially when they're 17% between 2023 and 2027, by public-facing. Above all, it demon-

> right track. ChatGPT have done the world a favour." comments EMEA field CTO at Databricks, Dael Williamson, "because on the one hand, they've shown us the art of the possible - but they've also | most businesses will be seeking to use shown us the respect we have to give to Al to improve their business processes training data."

strated that AI needs precise use cases

and guardrails to ensure it's on the

How can

from AI?

As various high-profile fiascos have demonstrated, getting your data house in order, building guardrails

and winning trust are key to effective

artificial intelligence deployments

businesses get

the most value

antics of abusive chatbots might be, Databricks technology review survey, what will really be front of mind for | CIOs estimated that AI spending ove

unleashed a age artificial intelligence is how it can Hitler and gaslighting its users. Of career in proteomics, with simulations for drug discovery that used to take 25 not really an Al going rogue or anything days now taking just a few hours. And across all kinds of industries, bus nesses are using AI in ways that might internet and all the junk on it as its | not make headlines but are helping them provide better solutions and services. Whether we're aware of it of not, many of us interact with AI on a for a considered approach to Al daily basis - from the navigation tool that plot courses for Uber to Amazon' recommendation engines.

"It all starts with data," says informed by good, up-to-date data, Williamson. "Before businesses can create Al models that actually deliver value, they need to ensure the source "Microsoft, Bing, OpenAl and data they're building from is accurate complete, timely and fair."

While the transformational potentia of Al really is enormous, and may change the world in unforeseen way Decision-makers have certainly noted As amusing as the headline-grabbing the potential. In a recent MIT and

data environment. "We call it the 'lakecarefully, rolling out Al deployments house' concept - think of it as the production and distribution of data and models," says Williamson of this open architecture proposal, "where it covers

Before businesses can create Al models that actually deliver value, they need to ensure the source data they're building from is accurate, complete, timely and fair

> the next three years will increase in security by 101%, data governance by 85% and new data and Al platforms by 69%. To ensure that it's Al driving the efficiencies rather than a tail wagging the dog situation where the technology is in search of a problem, businesses will need to first identify the use cases that would actually benefit from these ollouts and, crucially, ensure their data is in order

Artificial intelligence is only as good as the data that feeds it. Unfortunately for weary data scientists, who spend an stonishing 80% of their time searching for the stuff, most organisations are sitting on incredible treasure troves of data, but it's scattered and hard to find. This is unsurprisingly a barrier to using it effectively, let alone for building effective AI models.

If not hidden down the proverbial sofa, this data is siloed, disconnected and sorted in different databases and formats. In short, staff in department A may not know about the data in department B, and even if they do, they'd struggle to connect it. To get around | road. Change can take time, and that's this, businesses need to unify their why it's so vital organisations manage it

all the value units you'd typically want to have vour data go through."

By unifying all of your business data and applying governance to it, the data becomes much more observable making it easier to maintain and manage data integrity. With this data organised, accessible and standardised, businesses can pick and choose which data sets are the most appropriate for the model they're building whether that's large language models, computational models, deep or machine learning, and then build the applications on top of that.

"That's the technology, but the hard bit is change management and trust," says Williamson. No wonder: those aforementioned fearful headlines often frame artificial intelligence as a niquely disruptive force that's set to play havoc with society as we know it, nredding the social contract and dis carding its hapless victims. That's not he case at all - most businesses wil simply be attempting to drive efficiencies, using automation to sluice away the most dreary manual tasks, which often don't scale without a little tech nological assistance. Take the humble elevator, for exar

ple, notes Williamson. For many years lifts were staffed by an attendan greeting users and pulling the levers. I took a long while before people trusted these newfangled automated contraptions enough to press a button, but now it's as intuitive as crossing the

with openness and transparency. At the very least, they should work with echnology that operates a sort of 'glass box' model - as opposed to an ppaque 'black box' with all the inner workings hidden away - so that users understand exactly what is going on

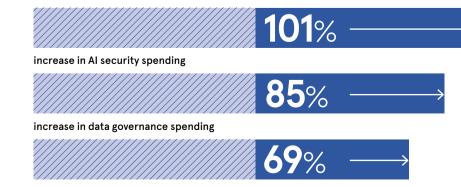
"If you translate it to people, process and technology, technology needs to pe simplified and made uncompli cated, while process is the real unlock' to create efficiency, build rust and transparency through that, savs Williamson

Today, it's really only the dawn of the l era, but soon enough it'll become evident that people will largely interact with machines as co-pilots, much the same as other transformative technologies like the printing press and the nternet. Communicating this to users data and trust," Williamson says, with staff outside of data science func ons. "The few enable the many that's the bottom-up way of thinking down commitment from the C-suite and all business leaders to work ogether; a partnership between those two groups, where everyone is rowing n the same direction."

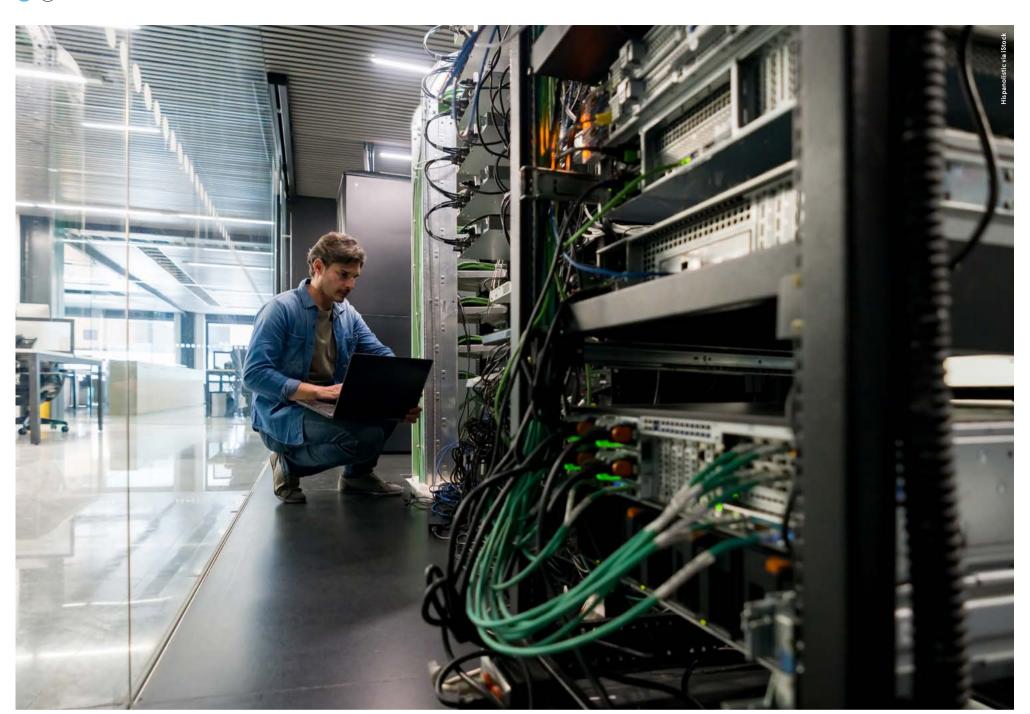
To find out more, visit databricks.con



PERCENTAGE LEADERS EXPECT TO INCREASE THEIR AI AND MACHINE LEARNING SPENDING BETWEEN 2022 AND 2025



increase in spending on new data and Al platforms



Needle in a tech stack

The crowded 'digital solutions' market can be a confusing place for buyers. To ensure that they choose the best possible products for their needs, businesses must go back to basics

Rich McEachran

rations with deep pockets can afford to throw money at a major project if things aren't going to plan, most firms don't have that luxury. They must be smart with their limited funds, which time in a digital transformation.

ing Group (BCG) surveyed nearly going to be spoilt for choice." 2,700 senior decision-makers in 13

hile multinational corpo- 93% admitted that their companies were "struggling to navigate the rapidly growing landscape of disruptive new technologies".

James Lupton is chief technology officer at IT consultancy Cynozure. He believes that "the technology means that it's crucial to get the landscape has never been more sattechnological choices right first urated. It offers everything, from exceptionally niche vendors right But business leaders are often unthrough to platforms that promise sure about where to spend their IT | to do it all. Any company embarkbudgets. When the Boston Consult- | ing on a digital transformation is

With such a huge array of options countries last year, it found that on offer, it's no wonder that business 96% were planning to either main- leaders are struggling to pick out the tain or increase investments in right ones for their firms. While it digital transformation in 2023, yet | may be tempting for them to choose

the flavour of the month because everyone else is doing so, they would be well advised to ignore the latest trends, according to Lupton.

"Businesses suffer in the long run when they base decisions on how fashionable a piece of technology is. This can lead to impulsive choi ces that aren't the most effective use of budget," he warns.

Another classic mistake to avoid is buying tech because you're familiar with the brand or another company has recommended it. So says Amanda Russo, founder and CEO of Cornerstone Paradigm Consulting, which helps firms in several sectors to streamline their operations.

But before they even look at what's on the market, companies need to determine the root cause of the usiness issues at play, she stresses If they don't do that, they're likely to waste their IT budgets on tech that not only fails to solve those problems but also creates new ones.

Shaun Connolly, vice-president of international strategic services at software developer Precisely, agrees. To pinpoint the right technology for a transformation, companies must first be absolutely clear about the processes they need to improve and the outputs that would make the project a success, he says. Although this may sound basic Connolly points out that, in his



Businesses suffer in the long run when they base decisions on how fashionable a piece of technology is

> experience, "businesses will often implement a new tool without having defined outcomes; without considering how it will align people and processes; and without having effective ways to measure the return on investment".

Lupton stresses the importance of gaining a full understanding of the ceeding any further with a transformation, adding: "Establishing a clear set of selection criteria by which potential tech will be judged should ensure that any decisions are informed and rational."

Conducting an audit of all the IT in use by your company is a good starting point. This exercise should assess the effectiveness of each tool and determine which ones are becoming unfit for purpose.

"You're likely to find a lot of manual processes and tech that hasn't

of business decision-makers are planning to increase investments in digital transformation in 2023

are struggling to navigate the disruptive new technology

of business decision-makers consider advanced AI to be the most transformative business technology for the future

been stacked, as well as technology | lar solution. that's no longer serving the business," Russo says. "After uncovering what your current state really is implementation. This process is looks like, then you can start hav- far from straightforward, of course, ing that conversation about what vou need and don't need."

Once the tech stack has been mapped out, the next logical step is to get a handle on data integration, integrity and governance. Your ket can save you time and help you company's ability to manage the various types of operational data it's generating will have a direct bearing on the success of its digital | project. The right partner, he adds, transformation strategy, according to Connolly

Companies must ensure that there's a steady flow of data across | it's time to shop around again. their departments and consider how trustworthy that material is They can use it to monitor the health of tech stacks, extracting actionable insights from it to inform their decisions.

Once they have determined the root causes of their problems, Think of your mapped out their stacks and got a handle on data governance, companies are in the best position to go if it needs a new set of shopping for tech.

Just over half of the respondents to the BCG survey said that they to have to replace were the sole decision-makers in their company when it came to the whole vehicle

buying IT, while just over a third said they were part of a committee.

Lupton believes it's a good idea for purchasing decision-makers to consult other functional leaders during this process, so that they can understand their priorities. On the other hand, while a digital transformation will require the backing of several stakeholders, including external ones, listening to too many voices could prove disruptive. The final call is generally best left to the senior IT experts whose task will be to work with the new tech and keep on top of data governance.

A significant proportion of boards will be apprehensive about making radical changes involving new IT, especially when the economic outlook is poor. They could therefore be unwilling to allocate significant sums to a digital transformation. If this is the case, it may be worth starting on a smaller scale and focusing on a manageable process that clearly needs improving. Although there is nothing wrong with testing the water this way, it's still important to think big and plan for the long term, Lupton stresses.

Your firm's requirements will inevitably change over time, he says, which means that your chosen tech "needs to be scalable enough to grow in tandem with the business".

With this in mind, companies must weigh up the pros and cons of monolithic and modular approaches. The former may seem the more straightforward option, but it can prove costlier when the time comes to replace that tech. By contrast, a modular approach makes upgrading and replacing systems easier.

Lupton uses a motoring analogy to distinguish the two approaches. Think of your business like a car: if it needs a new set of tyres, you don't want to have to replace the whole vehicle, as you would with a monolithic solution. You merely want to change the tyres - that is, a modu-

The final stage, after buying the right combination of technologies. with 84% of respondents to the BCG survey complaining of poor coordination among vendors.

"Engaging with specialists who can help you to navigate that marto avoid pitfalls," Lupton says.

Digital transformation is a constant process, rather than a one-off will help you to extract maximum value from the new tech you've chosen throughout its useful life - until



business like a car: tyres, you don't want

Q&A

Embedding resilience in F&A

Companies that harness robust and comprehensive data to make rapid, intelligent decisions will be in a stronger position to adapt as the economy wavers, explains Mike Polaha, senior vice-president of finance solutions and technology, BlackLine



RACONTEUR.NET - 21

What are the key challenges CFOs face in 2023?

instability is adding more uncertainty to an already challenging and unpredictable global business environment. Organisations must carefully consider how they can respond and remain competitive, agile and resilient.

In our recent survey, CFOs identified the two biggest challenges facing them this year as increasing scrutiny and providing accurate data quickly enough to respond to market changes. 61% added that real-time visibility of finances would be a must for business survival next year as the external economic environment creates more | while 59% plan to do the same to demand for CFOs to provide visibility over important financial metrics.

But we also know that there is a serious lack of confidence in the numbers that are used to make crucial business decisions. In 2018, 71% of C-suite respondents

completely trusted the accuracy of their financial data compared to just 38% of finance and accounting (F&A) professionals. By contrast, our most recent survey found that C-suite trust was 58%. with F&A confidence at 45%. This suggests that many CFOs could be making decisions or providing recommendations based on out-of-date or inaccurate financial information - something that must be urgently addressed.



When combating economic headwinds, real-time access to financial data helps expedite decision-making

How can they balance growth and cost efficiency in the current economic climate?

npanies are torn betwee pursuing growth and achieving cost efficiency. 55% of CEO respond ents are worried their organisation wil face higher costs as interest rates con tinue to rise. A further 45% are con cerned customers and prospects wil spend less.

At a time when many are looking to drive out costs, investing in the right tools might feel counterintuitive. But 60% of organisations want to implement or scale automation solutions as a way to reduce costs long term improve working capital. There's real value there.

How can organisations gain Q better control and visibility of their financial data, processes and working capital?

Technology remains an impor tant part of the solution Although it can't remove economic uncertainty, it allows companies to become more efficient, reduce errors n financial data and provide the visibility that allows them to make more nformed decisions

Many organisations have automated areas such as accounts payable t improve efficiency, but the prev alence of manual, repetitive pro cesses in other areas poses serious issues. And unprecedented demands on F&A are also putting unsustaina ble pressure on people, processes and technology.

Accounting teams are being pushed to close their books faster, optimise working capital and improve operational efficiency while continuing to deliver real-time information to their business partners. Often, they're dealing with a range of disparate solutions, requiring them to process and analyse disconnected data and turn it into va uable business intelligence.

What digital transformation strategies should CFOs deploy in response to increasingly complex risks?

en combating economic head winds, real-time access to finan ial data helps expedite decision-mak ing and gives F&A professionals more ime to focus on valuable work. Another xample is applying payments to cusomer accounts quickly and accurately. his is one of the fastest ways to get cash nto your business. Manual processes slow things down considerably and nean that cash is trapped on balance sheets rather than being put to work.

Additionally, automation and the latest cloud-based software provide real-time reporting on status and action items, enabling staff to stay informed of risks, audits, issues and remediation activities or to address specific con-

rols, procedures and assignments. Manual work is also making existing oles unattractive for good candidates and hindering skills development. It can often be unnecessarily time-consuming npacting opportunities to learn new kills. But through digital transformation and automation, more time can be freed p for development, enabling F&A talent o focus on the value-add work.

How can financial automation software be used to transform finance and accounting operations

inancial accounting is a key area for delivering transformation om month-end close to reconcilia ion processes and beyond, automa ion can free up accountants to focus on more valuable activities. Instead of simply crunching the numbers and dentifying anomalies, they can truly

For more information visit blackline.com

nderstand them



RACONTEUR.NET — 23

CORPORATE GOVERNANCE

Why the boardroom market for marketers is heating up

Many firms are seeking to appoint non-executive directors with a deep understanding of the behavioural aspects of digital transformations. Seasoned marketing professionals seem to be a perfect fit for such roles

Matthew Valentine

t's become widely accepted in business that a successis not just about the smooth implementation of powerful new systems and processes. It's also about benefit the humans - chiefly, the with very specific 'human skills' to advise them as they work through their transformation projects. In the fundamental tasks of the marfessionals possess such skills.

of marketing and digital at Direct spent a decade with the insurer in portfolio career as a NED, he believes that there are two compelling reasons why seasoned marketers are well equipped to help steer digital transformations at board level.

The first is that nearly all corporate marketing teams have had to deal with the impact of the digital revolution since the late noughties, whether they've wanted to or not.

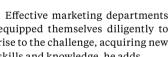
"The digital media landscape has transformed over the past 15 years or so - and we marketers have lived through every step of that. We have had to move from a traditional | that doing so has improved the analogue world into a modern digital one," Evans observes.

Effective marketing departments approach to change and apply some equipped themselves diligently to ful digital transformation rise to the challenge, acquiring new skills and knowledge, he adds.

"Through good fortune, marketing just happens to have got ahead miles on the clock."

many cases, senior marketing pro- keter is to engage with customers companies to seek out marketers and gain a full understanding of | to oversee their transformations is Mark Evans stepped down as MD | their needs and preferences – and | that the profession is focused on knowing your customer should Line Group last October, having be at the heart of any digital trans- trends and responding quickly to formation. To avert a 'computer directorial roles. Now pursuing a says no' outcome, firms must there- people who are curious by nature fore adopt a flexible and pragmatic

of companies that have adopted Al throughout the business believe customer experience they offer



perceived as a technological matter changing the plumbing and whether such a change will truly | by necessity," Evans says. "The | installing new platforms. But it experience simply hasn't been as genuinely isn't about that." Evans customers – it will affect. With this revolutionary for many other parts argues. "As much as anything, it is in mind, companies are seeking of the business as it has been for a matter of culture and mindset. I non-executive directors (NEDs) marketing. Our discipline has got vou default to a technology play, vou can fairly and squarely mis The second reason is that one of the point."

> Another factor that's prompting monitoring the latest consumer them. As a career, it appeals to and enjoy change, rather than those who are more set in their ways.

human sensitivity to the techno

"Digital transformation is often

logy they're adopting

The impact of the pandemic has highlighted the value of such flexibility, according to Evans. In 2020, the start of the Covid crisis gave many companies the impetus they needed to reach their customers via new channels

"The pandemic has had a slingshot effect, making firms realise the importance of accelerating their digital growth," he observes. "They need to improve their customer orientation in doing so, so they must elevate their marketing functions and bring that profession's averse enterprise of the need to do competence on to their boards."



Digital transformation is a matter of culture and mindset. If you default to a technology play, you can fairly and squarely miss the point

All of these factors - particularly marketing's need to keep on top of consumer trends in the digital world - are familiar to Sam Bunis director of brand and marketing at the Football Foundation charity and a NED at two other organisations. She reckons that her social media skills are good enough to keep pace with those of the average 12- to 16-year-old - because they

Like most other senior figures in her profession, Bunis also has experience of internal marketing. This is the process of 'selling in' marketing plans to other teams, winning their support to enact positive changes. Many marketing chiefs have had to rise to the challenge of convincing a conservative, changethings differently. In doing so, they

have developed persuasive skills that are very much applicable to digital transformation projects.

"One of my NED roles has been about how we get everyone in the organisation to understand the value of what we're doing in digital. That was also a big part of my remit when I joined the Football Foundation back in April 2019. They'd never before had a function to do what I was going to be doing - and they didn't 'get it'," says Bunis, who adds that, once your fellow directors eventually do 'get it', change becomes far easier to achieve.

But it's not all plain sailing for seasoned marketers seeking to pursue a portfolio career as a NED. While many companies place a high value on the marketing profession and what it can bring to the boardroom table, a significant proportion still don't. Stories abound from marketers about firms that haven't taken their contributions seriously. This is often because their function's effectiveness isn't the easiest thing to quantify.

Evans points to the eye-opening findings of a survey published by Fournaise Marketing Group in 2015. The poll of nearly 1,200 CEOs in the US, Europe and Asia revealed that 80% of respondents had little confidence in the work of their marketing chiefs.

Could some organisations be spurning the opportunity to gain

valuable board-level expertise simply because they still don't 'get' combination of conformance and marketing? Daryl Fielding, CEO of performance. And boards that are the Marketing Academy Found- better balanced in this way are, in ation, observes that marketers are a digital world filled with more too often patronised and pigeon- discerning customers, more able to

Foods and The Independent, also holds numerous NED and trustee roles. She says that the perceived value of a senior marketer to a digital transformation project might ninge on the structure of the com-"On all the boards where I sit, there are digital transformation projects under way. A lot of this is about seeking the one view of the

creative ones with the crayons Fielding, who has worked as an executive director for prominent brands including Vodafone, Kraft

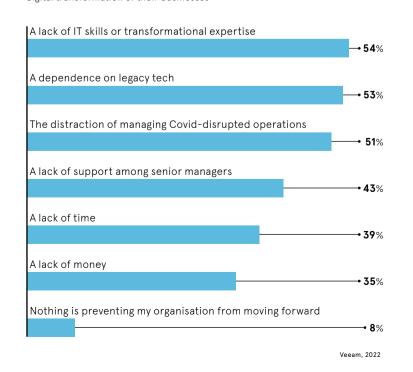
customer," Fielding explains. In most enterprises, the person who 'owns' the customer would be best placed to guide such projects. "That person would normally be regarded as the marketing director," she adds. "But, in many cases, it isn't true that they do own the customer," because most of the relevant data is collected and held by another department – the sales

eam, for instance. This might explain why some boards still shy away from appointing marketers as NEDs, preferring to hire lawvers and accountants instead. Non-execs play an important role in ensuring proper corporate governance, so some boards might seek to recruit such professionals to reassure themselves that they have this responsibility covered. But Evans believes that the conspicuous success of companies that have appointed more creative NEDs could prompt them to reconsider.

"This comes back to an interest ng point about what the role of boards and NEDs actually is," he says. "Many aspects of being a non-exec are conformance-related. but you can find any number of people with experience in that area. Marketers who understand governance issues can offer a good holed by other departments as the help their companies grow."

THE TOUGHEST TRANSFORMATIONAL CHALLENGES

Percentage of IT decision-makers citing the following as barriers to the digital transformation of their businesses



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