## DIGITAL TRANSFORMATION



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#### **DIGITAL TRANSFORMATION**

THE TIMES





**Alice Broster** 

A freelance journalist specialising in health and

technology, who is

how the internet is

Sam Forsdick

**Andy Jones** 

who has written for

produced business

An experienced journalis

national newspapers and

packages for TV and radio.

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A Fleet Street-trained

writing and for daily

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A journalist, editor and

business, finance and the

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consultant specialising in

future of work and society.

A freelance writer and

tech, business and the

copywriter covering

iournalist with extensive

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and application development, he is a regula contributor to Forbes and

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20-plus years' experience of with particular interests delving into commercial and in technology and the

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#### AMBITION

### No limits: moving beyond utility and towards growth

A transformation is so much more than an efficiency tool. Why do so many companies stick to the slow lane when reimagining their digital pathways?

nly 8% of companies have used a digital transformation to change their business models, according to a recent global survey of CIOs by law firm Baker McKenzie. It seems that the other 92% may have been missing a trick. Done right, it can serve as the rocket fuel for an enterprise with ambitious growth plans.

Take Babbel, a language-learning app created in 2007, for instance. Only a year after starting the business, the founders decided to rewrite the free product and change it into a premium service.

"The engineers had built a free vocabulary trainer and given it a user-friendly interface," recalls the firm's co-founder and chairman. Markus Witte. "But that interface taught us two things: that you would never learn a language from it and that we would never make money from it. Our offering looked great and was technically sound, but we soon realised that we needed to transform both the product and the culture of the business.'

To truly bake language learning into the digital product, Babbel embarked on a recruitment drive and hired more people with practical experience in learning languages who could help on the digital side.

Additionally, a bold change of management style helped to empower and motivate staff during and beyond the transformation.

"We banned the concept of 'asking your boss', because we found that this was stopping people from taking responsibility and hindering change," Witte explains.

These moves worked, with the new version helping Babbel to sell more than 10 million subscriptions.

than applying willpower, of course. There are issues concerning time money and staffing. A recent survey by Couchbase covering the US and Europe pointed to many of the hurdles ahead for IT chiefs seeking to transform their organisations. Well over half (61%) of those polled said that they'd found that past technology decisions had made their transformation efforts more onerous. In particular, they cited poor cloud infrastructure (48%); excessive complexity in implementing new technology (31%) and overreliance on legacy systems (28%).

Beyond that, the biggest obstacle to an ambitious digital transformation is cultural resistance. An



element of transformation that be hampered by data silos, a short-Babbel got right - but which is often age of skills and legacy technolooverlooked - was winning hearts gies. The initial vision is then and minds. So says Mat Rule. co-founder and CEO of software return on investment is depleted." firm Toca, which works on complex enterprise development challenges for large corporate clients.

help them develop

new ways to sell

being asked to deliver the impossi-Transformation is about more

compromised and delayed, and the

Many companies prefer instead to approach their digital transformations in small, manageable steps "Transformation projects fail be- that reduce cost and risk and cause people are working with one shouldn't disrupt the business hand tied behind their backs – unduly. That's the view of Helen Ashton, CEO of consultancy Shape ble within very tight budgets while Beyond, who has overseen digital understaffed," he argues. "Added to | transformations at Asos and in these factors, your transition can | private equity portfolio businesses.

of global digital leaders see

digital transformations as ways

process (how you collect the most useful data); and the conductor (how you apply this data to enhance the user experience). Businesses don't always have such clarity when they embark on a transformation. Many find it hard to articulate their vision and where to start. Ashton says. Nonetheless, a well-executed transformation can lead to huge wins.

RACONTEUR.NET -(3)-03

That way, even if it doesn't go to

plan, it will never be classed as a

failure - merely a lesson for next

time," she savs. A company that

takes this approach "almost doesn't

recognise it as a digital transforma-

tion: just everyday entrepreneurial

growth - and therein lies its suc-

cess. It's when programmes are

costly and never-ending that disap-

Another cause of failure is when a

firm isn't sure of what the outcome

should look like. WalkMe, a digital

adoption platform provider, polled

1,400 business decision-makers re-

cently and found that their enter-

prises had wasted \$16.6m (£12.7m)

on transformations in 2021 because

people didn't use their new technol-

ogy in the way they had envisaged

An effective transformation for

your company should unify three

key components of the user journey,

Rule says. These are the digital door

where users first encounter your

offering); the information-gathering

pointment is inevitable.

"This shouldn't be about simply increasing efficiency and reducing cost," she says, "It can, more excitingly, be a key way to generate reve nue by enhancing the customer experience and increasing engage ment. It can also expose bottle necks and show you what customer really want from your product."

Surprise wins could arise in areas such as customer experience, employee experience, cost control, product development and delivery speed. All of these things provide value to the business. In turn, such gains engender confidence and a culture of ownership, she says - a case in point being Babbel's move to empower its staff.

'When we launched, we had fewer than 10 people. Now we have a staff of 750," Witte says. "The hard part was getting everyone to think one way and embrace it, but the model we created endures to this day."

The success of Babbel's transfor mation hinged on a democratic and transparent analysis of its product and systems, which proved vital to the firm's global growth. Many others will look to follow its example.

of business model

have used them to

aid a total change

### Transformation once the Covid crisis is over: what to keep and what to drop

The high-octane acceleration of technological change during the pandemic is without question, but now's the time to become more considered about digital strategy

s days and nights were smudged into one and boundaries between home and work dissolved during the Covid lockdowns, it wasn't surpris ing that many of us felt unmoored 'Temporal disintegration' is the term that experts have applied to the phenomenon in which many people became dislocated from time and lost their sense of continuity.

One facet of life where everything seemed to accelerate was in the digital realm. As our physical lives slowed to a halt, the only way businesses could continue to operate at all was by making a breakneck move online. If enterprises did not have remote working policies in place when the pandemic struck. they were certainly feeling the heat as they raced to build the kind of infrastructure that would enable them to keep trading.

Frequently, that led to slapdash solutions - strapping together a bit of Zoom here, a touch of collaboration software there. It's under standable that businesses may have chosen their tech in a hurry, but their hastily contrived new methods could prove costly to them in the

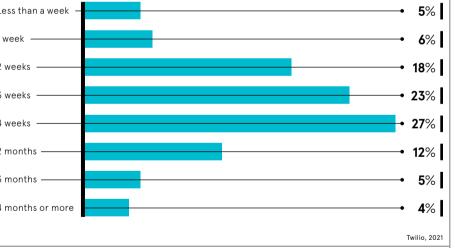
Ad hoc approaches are rarely strategically sound or sustainable. As this period of temporal disintegration draws to a close, it's an appropriate time for businesses to reflect - retaining the best of their pandemic-era solutions, ditching what isn't effective and devising a plan to be more deliberate from

Tools such as digital whiteboards and collaboration platforms – for example, Microsoft Teams and Slack – make the cut. With more than 80% of companies expected to their workplaces, Riber argues. during the depths of the crisis, as keep some hybrid working arrange- | Even as Covid restrictions lift, she | might be expected in a pandemic ments in place, according to the Chartered Management Institute, this kind of connectivity is here to stay - and with good reason.



HOW THE PANDEMIC HAS HASTENED DIGITAL TRANSFORMATIONS IN EUROPE

Percentage of European business decision-makers who say their firms began accelerating their digital transformations in the following periods after the initial Covid lockdowns in their respective countries



altered ways of working for most businesses, so it's a matter of necessity that they maintain some of the changes to fit employees' needs." So says Ulla Riber, head of group workplace management at ISS Global, a Danish provider of facilities management services. With the latest statistics from the

that there's no end to the great employees about data security. resignation in sight, it's vital that employers take stock of employees' expectations about flexibility and

to ensure effective participation from a dispersed workforce.

As the workforce became mor widely distributed at the start of the crisis, traditional perimeter protec up about the vast expansion o potential attack surfaces, as well US Department of Labor indicating as the importance of educating

Meanwhile, staff wellbeing should always have been a priority, but it became a more pressing concern notes that ISS's monitoring has | Surveys have shown that HR autofound continued demand for tech- mation increased drastically over nologies relating to the pandemic, this period, not only with perforsuch as systems for booking desks. | mance management tools but as a

"The pandemic has drastically | Collaboration tools are a clear way

vay to measure staff sentiment and vellbeing. Technologies that help people to stay healthy, be productive and remain secure offer employers a set of digital tools that will continue to be vital. Although the pandemic has un-

doubtedly proved the value of digitisation, there may also be a tendency to view 'doing digital' as a the advantages they have gained. solution to all kinds of problems. This attitude can place businesses in a tricky spot, with disappointing nplementations often deterring organisations from digitisation in general, observes Richard Jeffery, been strange, but rudimentary national director at social enterprise The Growth Company.

"I have seen a lot of businesses buying software or hardware just because they'd heard that they needed it," he says. "But, when that | he says. "Look at what it can do to tech failed, it became a big barrier to digital adoption."

Another problem that arose during the depths of the Covid crisis concerned accessibility, Jeffery adds. The most advanced digital technology in the world will be of little help if its intended users are hampered by a lack of training and

**Ensure that your systems and** processes are efficient before you digitise them – you don't want to digitise a rubbish process

heaval, cultural hangovers may be the trickiest problems to cure. One result of that temporal disintegration was a culture of long hours and presenteeism in which employees, knowing that they could be online at any time, felt compelled to show their faces for the sake of it.

"The pandemic has helped us start to challenge the principle of presenteeism," reports Ita Waller, group HR director at marketing agency Unlimited, "It's important that working hours are respected, especially by those at home, where it's easy to stay online."

Waller adds that maintaining a balance of genuine flexibility is vital because, according to recent Microsoft research, 67% of employ ees want to come into the office nore, not less. So, as businesses nove to hybrid working and reduce their office space, they need to be nindful of the needs of all staff.

"Making the office accessible for people to collaborate in person should be encouraged as much as respecting people's decisions to stay at home," she says, adding that this will require a careful balance of digital tech and physical space.

Digitisation is a process, so those ousinesses that have managed to turn the abnormal conditions of the pandemic era to their advantage should not rest on their laurels. Instead, they should try to build on

For companies at any stage of the process, this requires a step back going back to basics, planning and focusing on desired outcomes. Jeffery advises. The times may have principles such as being mindful about things like procurement have never gone away.

"Businesses should work out what they want to achieve with digital," change your vision. Can you attain faster, more encompassing change? And ensure that your systems and processes are efficient before you digitise them - you don't want to digitise a rubbish process."

Meanwhile, technologies such as robotic process automation should be adopted to mechanise routine daily tasks, according to Waller. This is about giving time back to employees to alleviate problems such as presenteeism, although the widespread move to hybrid working has been empowering for most peo ple, she notes.

Maintaining an open approach to hybrid working, while constantly reviewing systems and practices, should ensure that businesses of all stripes get the best out of digital, whether they're facing further disruptions or (touch wood) returning one day to plain old normality.

### **Succeed with SPEED:** the key capabilities for digital business transformation

Digital challengers have accelerated the pace that organisations need to adopt to remain competitive. Publicis Sapient CEO Nigel Vaz explains how a SPEED strategy connects the capabilities to bring about change



stream disappears overnight? That was the grave situation | change, such as a pandemic, that facing one global organisation operating in the travel and hospitality industry - already one of the sectors most thoroughly disrupted by technology and new digital challengers - when the Covid pandemic swept in and effectively blew up everything the business thought it knew about its industry and customer behaviours.

Change, and the ability to respond to change, is something that business leaders wrestle with the most. There is exponential and constant change,

THE D3 MODEL: DEFEND, DIFFERENTIATE OR DISRUPT

to disrupt markets and their own ways of working

Faced by a world of change, more established companies are seizing the opportunity

hat do you do when 90% I behaviours, societal expectations of your company's revenue technology and evolving business models. Then there is unforeseen blindsides entire industries or eve countries. In both cases, the qualities capabilities and behaviours require of leaders and their organisations are strikingly similar

Pre-pandemic, few business lead ers were willing to acknowledge of address the fact that what made their ompany successful in the first place not what will make it successful in the future. The misjudgement was under standable: for established busines turies of commercial success built or nected forces that include customer | well-established processes and ways

The ability to learn, unlearn and relearn to remain competitive is a shared characteristic among leading businesses

of what you know is a challenge.

Over the past few years - and particu arly during the pandemic years - a shift has begun to take place in the way that established businesses meet external change. Where companies have the choice to defend, differentiate or disrupt, there is an impetus to create new business models, markets and ways of working that simultaneously meet new customer needs while leveraging the strong brands and unique assets at their disposal. In the case of the travel and hospitality company, it chose this moment of existential threat to create a new platform-based business in one of the most lucrative segments of the market - building a portfolio of premium rental homes on track to deliver more than \$1bn (£768m) in new revenue. iust as Covid fears were keeping travellers away from its hotels.

There are similar stories of this new imperative to transform across industry. At L'Oréal, supported by innovative digital experiences, the company saw ecommerce revenues leap by as much as 400% in some regions at the height of the pandemic. As its chief digital officer Lubomira Rochet observed at the time: "The crisis has profoundly accelerated the digital transformation would have otherwise taken us three years to do.'

What is it about these companies that has allowed them to pivot more easily at a time of need - to transform and create new business models and channels that will drive future success?

unlearn and relearn in order to remain | data - together forming the fundamencompetitive is a shared characteristic I tal SPEED capabilities on which comamong leading businesses that have nternalised the fact that there is no end to digital business transformation.

The role of culture in the context of

transforming your business is critical.

Culture is the driving force for a company - creating the context in which t operates and how it will evolve to keep pace with the change taking place around it. An inconvenient truth is that many companies are great at their core ousiness, but not great at reimagining the future of their business. A successful organisation today needs a clear reason to exist, in line with customer needs, as well as the ability to adapt and transform to the rapid change brought about by digital. In this sense, established companies need to be able to evolve their cultures to be digital-first. At LEGO, its mission to 'inspire and develop the builders of tomorrow' is underpinned by four promises around people, play, partners and planet. From near bankruptcy in 2004, LEGO has turned itself around with renewed purpose and a radically revitalised business that today encompasses digital, content and entertainment. Not all businesses get it right the first

panies make around digital business transformation is that they make large technology investments but don't see the expected returns. Take the global banking group that had a compelling ousiness strategy for a platform to con nect its clients with their wider communities. The company had gone all-in with its transformation ambitions; in terms of the D3 model of defend, differentiate, disrupt, it had identified new adjacent markets where it could create value, yet it chose to pursue the transformation through a series of separate IT and customer initiatives. the outcomes that the company hope for, and ultimately the transformation programme had to begin again - with a new approach based on connecte capabilities rather than purely on tech nology-driven solutions.

time. A common mistake that com-

These connected capabilities are There is an adage that `culture is what is | crucial to any successful digital busileft after you've forgotten all you have ness transformation. They are strategy,

panies can build and evolve to create powerful digital products and services that create value for customers and the ousiness. Strategy is the capability that allows a company to develop and test hypothesis on priority value pools. Product capability enables the organsation to evolve at pace and scale Experience is the capability that allows t to create value for customers, while engineering enables it to deliver on nat promise. Data, and with it AI, allow the business to validate its hypotheses

while uncovering insights for constant

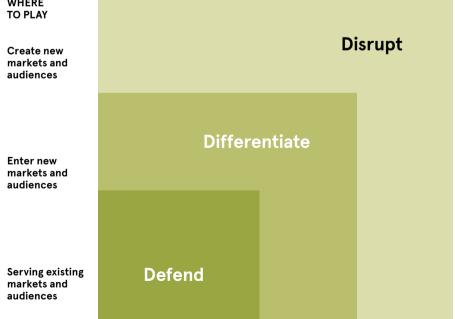
mprovement to its digital products

The SPEED capabilities are also a lefence against the uncertainty businesses face today – and whether there s a competitor that understands your customers' needs better than you do and can apply digital to disrupt how hose needs are met. The greater the uncertainty, the more profound the need for transformation underpinned by SPEED capabilities. In a meeting vith the chairman of one of the world's argest retailers, he began with only one item on the agenda: what to do about Amazon and the growth of the Amazon Prime service. He understood that for all its legacy, quality and cusomer trust, there was a need to reassess his company's capabilities and areas in which it could differentiate.

In every industry, in every market, here are digital challengers focused on identifying and addressing changing ustomer needs. Having the same digi tal-first culture, a learning mindset and he capabilities to identify and realise value through digital for your custhe creation of competitive advantage n a world where change is always just around the corner

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The emergence of low-code and no-code platforms has made it far easier to create new applications, offering benefits to amateurs and professionals alike

**Adrian Bridgwater** 

need more software. Their are never-ending, driven by factors such as corporate reorganisations. regulatory shifts and the emergence how to build the software required. of essential new hardware that sup- | This weakness has paved the way ports only the latest applications.

This state of affairs presents chalsoftware platforms and tools. lenges. Software development can be costly, complex, labour-intensive tionally been a one-sided process: programmers take 'requirements' from their user base, then happily disappear off to cut code according

isinesses always seem to | This model of software creation is effective enough, but it risks cutting | functions, componentised accelerarequirements in this area | out the input of people who are best | tors | and | reference | architecture placed to solve the business prob- against which users can craft their lem at hand but might not know for so-called no-code and low-code has to contain process controls to

There's a pronounced difference the limits set by established govern between the two approaches, with ance and compliance regulations and time-consuming. It's also tradi- the clue quite definitely in their So says Malcolm Ross, deputy CTO names. No-code suites offer users a visualisation layer that abstracts all egy at Appian, which offers a lowof the lower-level coding mechanics and functionality into a drag-and- software tools drop interface. Designed to be used by non-programmers to create these platforms have controls and

financial records or other personal nformation in question, you need ensure that your provider adheres to global regulatory standards. Otherwise, your staff could develop solutions that fail to comply with your IT governance rules." By incorporating such controls into its low-code platform of choice

standards baked into them," he warns. "Whether it is health data,

a company can avoid the spectre of dangerous 'shadow IT', where apps are built beyond the view of central IT management, Ross says. He stresses that platforms in this space should adhere to industry standards when it comes to regulations such as the Data Protection Act 2018 or the US Health Insurance Portability and Accountability Act 1996.

"Teams across an organisation can then build the solutions they need, while IT leaders can rest easy knowing their standards are being met." he adds, "We know data can sometimes sit in silos. But, with ow-code executed diligently, an enterprise has the option of gaining a | ing interactions with other softinified view of its data in a single. ccessible and compliant solution."

In the low-code software market, wo main types of platforms are oming to the fore. First, there are dedicated low-code specialists that evelop tools to accelerate programning, including Appian, Mendix and OutSystems. Second, there is a new breed of low-code platforms that are attached to cloud software companies: ServiceNow, Salesforce and Microsoft are clearly not pureplay low-code companies, but these firms' low-code tools offer customers an extra degree of freedom to innovate, customise and prototype as they go.

The wider benefit offered by technologies such as Salesforce's low- past," Cummins says. code offering, ServiceNow's Creator Workflows and Microsoft's Power Apps is that these vendors won't will always come down to the tradenecessarily need to support every off between simplicity and perforconceivable feature that users mance. As we embrace the layers of build. That helps the customers too. | abstraction in these development because they don't have to draw on | tools, it's important to remember the vendors for maintenance and support services.

Dr Holly Cummins is a senior principal software engineer at Red Hat, stand, interpret and manage the a developer founded on the principles of open source, which is now part of IBM. She says that no-code tools "can eliminate a lot of tedium | code software to gain a competitive from software development. They also make it far more accessible. hardcore programmers, they can With the right tools, anyone can create software and do it quickly. The plex structures, all of which they catch is that these kinds of tools are most suited to certain kinds of basic | further into abstracted tool sets. tasks, such as filling in forms and simple approval workflows."

With low-code executed diligently, an enterprise has the option of gaining a unified view of its data

While no-code tools make the easy things easier, they can also make hard things harder. Although they are accessible to people who aren't software engineers, Cummins notes that in some ways they're less accessible to software engineers, who may find their usual tools and practices don't work when they must dovetail with the no-code offering.

"Most software developers will tell you that typing out code is only a small part of their skill set. Managware, making updates seamless and catching weird bugs is where the intellectual heavy lifting happens," Cummins explains.

But there are always potential weaknesses. All software is prone to becoming fragile over time, she adds. That's particularly true in the case of certain shortcut low-code and no-code systems, which are typically locked tightly to the par

applications harder to maintain and harder to integrate with newer sys tems. It also makes them more diffi cult to understand and monitor. As it matures, the software industry is starting to feel the weight of its

The bottom line is that the value of no-code and low-code software that application flexibility itself is not a factor of software code. It depends on how well we can under code blocks we create.

Working to the appropriate constraints, even novices can use noadvantage for their firms. As for the focus on building even more comcan ultimately compartmentalise Order a bigger pizza, dear software

6%

More than

### How will customer experience in financial services evolve by 2030?

Banking in the metaverse might not be for everyone, and technology solutions are devoid of empathy for now. But, according to our expert roundtable panel, financial services operators can build trust and loyalty by embracing data and staying committed to understanding and supporting customers

#### **Oliver Pickup**

What could customer experience (CX) look like for financial services operators in 2030?

the likely trajectory. The concept of United States, where customers can every customer having their bank in use subscription-based models to their pocket will evolve, and that bundle insurance products from varimore fully featured, contextual and busy playing catch up, but the regulasimplify financial services in general and banking in particular. The industry needs to draw on the best CX in other environments like the retail or automotive industries.

There has been such a significant shift to digital banking. We have gone from zero to over 10 million registered app users in just eight years. No technology can provide empathy and human touch, though. We still need to make it easier for people to access face-toface services, either in-branch, over the phone, or through video calls. Technology is opening up channels and opportunities for banking to go into people's homes.

KR A lot of foundational work needs doing to curate cross-channel journeys - so someone can start something in-branch and complete it later at home. While digital channels will be more developed by 2030. important. Research shows that three technology to manage their money but what about the remaining 25%?

#### **Panel**

Susan Allen, head of customer

transformation. Barclays UK

Adam Powers, design, HSBC Wealth and Personal Banking

Samantha Richardson. senior visioneering consultant, Twilio

Kat Robinson. customer experience director, Metro Bank

Ahmed Sheikh. digital technology director, RSA

The banking sector has come a long way in its digital evolution but others in the financial services industry lag behind from a CX perspec-Future forecasting is always tive. For example, it's interesting to risky, but key things point to compare what's happening in the smartphone experience will become ous providers. Insurtechs here are personalised. There is also a push to tors need to play a part and not stifle innovation

> There is a massive drive to make financial services more accessible and integrate them into our lives. Twilio works with customers worldwide, and in some regions. we are seeing the rise of WhatsApp banking. And in the US, it's possible to complete an insurance claim fron start to finish over SMS. Over in Asia tomers to purchase goods wherever

What are the biggest current CX challenges and opportunities for financial services operators?

The role of the brand experience underestimated in many organisations, not just in financial ser vices. There should be a continuity of experience across every channel across our products and services. I there isn't, you'll lose the customer's face-to-face banking will remain trust. Marketing and CX design teams need to collaborate more. Additionally in four Brits are comfortable using we are implementing the latest cyber security technology and authentica tion as we want our customers to feel secure in an environment where fraud and scamming are accelerating.

One of the main challenges that the cost of technology implementation will increase, espe cially for financial services with complex legacy systems. Operators want t meet rising customer expectations but at a reasonable expense. As w advance, this is the most significant practical implementation concern and could limit digital transformation. Similarly, cyber risk needs to be managed and mitigated, but organisations don't want to get too bogged down. It's a tricky balance to strike, as customer need to have that protection

There is a technological arm race between the banks, and smaller challenger banks, like Metro don't have the deepest pockets. It's easy to fall into the copycatting trap. You have to be clear about your cus tomer base's wants and needs and develop products and services that will | text messages were sent in the UK improve their experience. I'm not sure | last summer alone, security mechaour customers will be banking in the

There's ample opportunity for banks to simplify digital functions and use data and artificial intelligence to personalise what customers see in their bank in their pocket. There is so much functionality in apps today, but the average person only needs to access about three things. We want to make the digital app experience more relevant to our users. SR One exciting thing we are

metaverse in 2030

seeing is the change in the way some legacy financial services companies are operating in terms of CX. They are collaborating more, recruiting developers, but sitting them next to the customer service team to learn from that first-hand experience, and there is genuine integration. That way, they can respond to create a human, customer-centric experience. Also, considering about 45 million scam

operators ensure trust remains at the heart of their CX solutions?

We are trying to be more imaginative as a bank and thinking bevond money. We have started running in-person and virtual network events and workshops and have a financial education programme that, for example, explains how to spot scams and online fraud. We also run a school programme that culminates in a branch visit to show that they are not intimidating places. These services, which don't cost a lot to provide, are designed to understand, engage and support our customers

better, to build trust. Even now, going into a bank branch can be daunting for many people. We want to take bankng to our customers and go deeper nto the communities we serve. We are trialling different formats to see where people need us most - in libraries and shopping centres, for instance. There is a big demand for inancial education and help fro banks. Recently, we offered 400 video appointments and had to close the lines within two hours. with over 1,000 people on the waiting list. Enabling more people to feel in control of their money i critically important.

At HSBC, the customer research team is part of the experiences group. That collaboration is growing in mportance and helps engender trust. We need to be more sophisticated in how we contact our customers and how we garner insights. Research needs to be done across the entire continuum to drive the kind of propositions that we develop and right to the other end in terms of customer lifetime

value and enhancing services. If financial services get the CX wrong, people are now quicker o complain online, especially on social media platforms. So operators need to be vigilant and respond fast to bad press and negative comments. It's an opportunity to understand why the customer is unhappy and fix something that is broken, but it also allows you to ensure the customer that you are there for them and listening.

Building excellent CX on top of banking is easier than building banking onto great CX. Those that and show a genuine drive to meet and care for customers in their preferred channels will win trust and custom i

To find out more, visit twilio.com,



#### **HOW EFFICIENT IS LOW-CODE DEVELOPMENT?**

2%	3%	11%	27%	28%	18%	5%
traditional	Same pace as traditional development	1-20% faster	21-40% faster	41-60% faster	61-80% faster	81-1009 faster

workflows and even quite sophi

sticated application functionality

no-code will corral a given set of

software processes and offer them

in a sort of intelligent Lego box that

specifies how the pieces can be

connected, potentially encouraging

Low-code software works on a sig

nificantly higher plane. Designed to

be used by trained developers with

scientific knowledge of program-

ming, it offers shortcuts, templated

next applications or data services.

Whether it's low-code or no-code

any system of software shortcutting

ensure that applications stay within

and vice-president of product strat-

code platform and corresponding

"Organisations must verify tha

users in a certain direction.



into our lives

There is a massive drive to

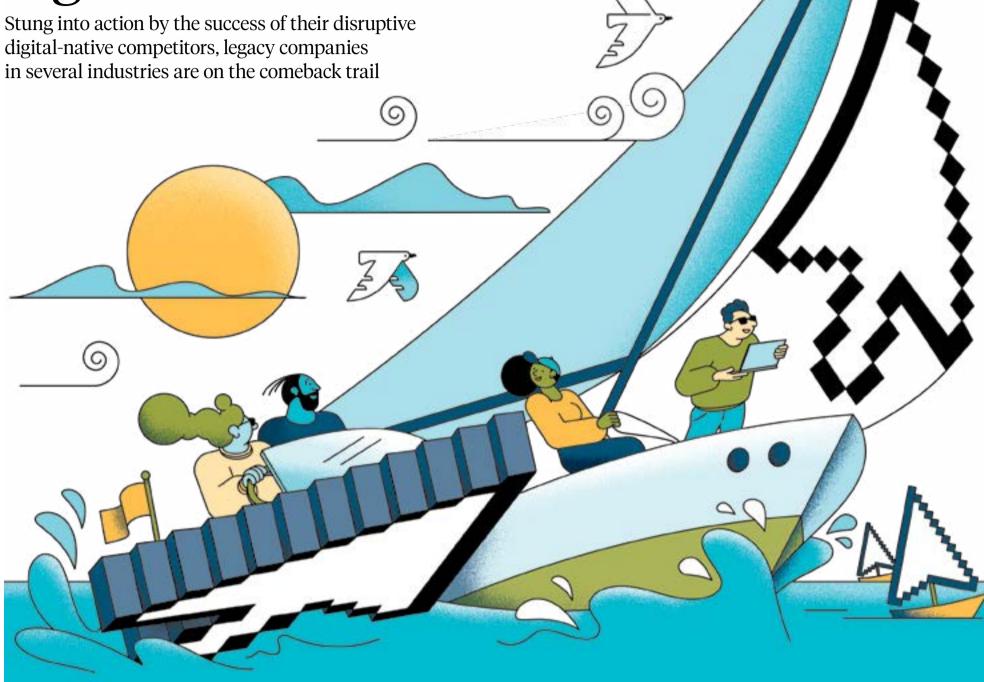
make financial services more

accessible and integrate them

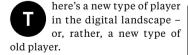
DISRUPTION

### Charting the rise of digital incumbents

Stung into action by the success of their disruptive digital-native competitors, legacy companies



#### **Christine Hortor**



An influx of digital-native companies has disrupted numerous industries in recent years, turning traditional business models on their head. Among the best known of these firms are Uber, Netflix and Airbnb. They have overtaken their established rivals in the technological innovation stakes and forced rapid changes in how prod-

ucts and services are consumed. Nonetheless, legacy companies with strong digital capabilities are starting to catch up. They are investing heavily to become more agile and innovative, enabling them to compete with their digitalnative rivals. These firms have been termed 'digital incumbents'.

Consulting Group (BCG) describes | wave of digital disruptors. In redigital incumbents as traditional cent years traditional manufacturbusinesses that have successfully executed a digital transformation | the arrival of new rivals - often and are making progress in systematically building digital capabilities. They include companies such as Adidas, Diageo, ING, John Deere, KLM and L'Oréal. In many cases, their capabilities already overlap those of digital natives.

They are "indeed building the houses in good working order and a successful digital transfor- achieving economies of scale and mation is the critical first step."

Take the automotive industry, for instance, where legacy companies | ruptors are experiencing similar | unexpected new ways

here's a new type of player | A recent report by the Boston | are going head to head with a new ers have been forced to respond to transplants from the tech sector looking to capitalise on the industry's move to electric vehicles. Research published in Novembe

2021 by Hexagon Manufacturing Intelligence indicates that the incumbents are prevailing against the odds. It reveals that only 8% of same digital capabilities as digital | international automotive leaders natives and can participate in view digital natives as a threat, value-creating growth from dis- even though Tesla, Foxconn and ruptive innovation", BCG notes. Lucid are gaining ground. Instead They start by putting their digital these traditional manufacturers say they're more concerned about

solving supply chain problems. The report suggests that the dis problems, suffering through the | time required to program robotic endless semiconductor shortage. inspections from several days to Meanwhile, the incumbents are four hours. This has also reduced devising new and creative ways of | the effects of skills shortages on overcoming them, equipped with the factory floor. experience and heritage.

For example, by using a new type of robotic programming and control software, Škoda has cut the

There's an innovation race

are trying to work out how

to serve their customers in

going on... Incumbents

Meanwhile, French automotive supplier Valeo has been using virtual prototyping to design new electric drive units, reducing the

Citroën Ami One's time to market

from two years to 18 months. Many companies' digital trans formation plans were fast-tracked at the start of the pandemic, which could be attributed to the revival of the digital incumbent. But just as important has been the greater focus on the customer experience, especially in the digital world.

According to research published in February 2021 by MullenLowe Profero, poor digital experiences could cost British firms up to £12bn



in lost UK online sales annually. It found that 24% of consumers were frustrated with a brand that didn't seem to understand them.

"We need to give customers reasons to keep coming back to us,' says Kevin Lee, chief digital officer for BT's consumer digital products and services. "In a very real sense. for a growing proportion of these customers, such loyalty will be rooted in their having an amazing digital experience with us, whether they're considering a new service or seeking out support when they encounter an issue."

BT recognised that it had to be more agile in the way it developed these customer experiences (see panel, top right). Lee reports that the company has drawn on a wide range of data and used artificial intelligence systems to inform and instil change

Over the past year, the firm has brought online an automated AIbased chat service called Aimee. This draws on millions of customer chat logs, Lee says, and is already answering customers' queries first time in 60% of cases. This is just the beginning, he says.

"To build and trial new services like this, we need to [apply a holistic approach] to design that incorporates the needs of customers. with our underpinning data and technology platforms. Everything needs to work together."

Digital incumbents are breaking away from both their digital-native rivals and their traditional competitors by building the capabilities that can drive growth from disruptive innovation.

In doing so, they need to remember that they're not only position ing themselves against the latest wave of disruptors; they're also setting themselves apart from those legacy firms that are yet to achieve any significant digital transformation. It is these organisations that are under the most pressure from the digital natives.

"We can see that there's an innovation race going on. To stay relevant, digital incumbents are trying to work out how to serve their customers in unexpected new ways,' reports Sarita Runeberg, business development director at Reaktor, a Finnish tech consultancy that has worked with Adidas on its digital transformation (see panel, right). "Being open-minded and building a culture of experimentation is the way to innovate. Don't be afraid to test new things and be ready to invest in new ideas."

Now that the digital experience is a key battleground in the fight for customers, her advice should serve any digital incumbent well.



#### Boden reaps the rewards of modernisation

Four years ago, clothing retailer Boden embarked on a digital transformation. The company, which has more than 1.5 million customers. worldwide had launched boden com back in in 1999, but it realised that the legacy tech it had relied on for several years was no longer sufficient to enable the level of responsiveness needed in modern retail. The systems in place for catalogue-driven sales were struggling to keep up with the company's growth and new omnichannel, digital-first approach

With these factors in mind, Boden sought to create a new IT architecture based on microservices and data in motion. This enabled the company to update, rather than replace, essentia systems. It also facilitated the shift from catalogue to online sales. It meant moving away from the traditional approach of running reports overnight to instead be able to see what was happening while it was happening.

Having connected all its data footprints with event streaming via Confluent's data platform, Boden reports that it is benefiting from modernised infrastructure, real-time analytics, enhanced customer experience, improved efficiency and reduced costs, as well as improved click-through rates and revenue.

#### BT focuses on the customer experience

BT is undergoing "a dramatic transformation behind the scenes" as it seeks to modernise its underpinning technology and platform, according to the company

This includes rethinking how teams collaborate to build and ship products. BT has reorganised its product, engineering and design teams into a "product squad" model, where smaller, more flexible teams are accountable fo their products at all stages.

While this encouraged a more collaborative approach, it also highlighted workflow problems. These included an excess of tools, inefficient processes and communication hurdles, which meant more time was spent on version control - tracking and managing changes to software code - than on tackling the problems it needed to solve.

BT reacted quickly, deploying a collaborative design platform called Figma for designing and shipping products. It says that it has replaced siloed working and handovers with continual collaboration that can be done from anywhere, boosting teams' agility, speed,



efficiency and transparency. It can also go from wireframes – a blueprint of a concept to clickable prototypes more rapidly, allowing BT to rapidly iterate its product delivery.

"We've saved 50% of our design costs and elevated the importance of design in the organisation," reports Kevin Lee, chief digital officer at BT. "This means that a greater focus on the customer experience is coming through in our products and services. It's something we know will go a long way in ensuring that we keep our customers' needs front and centre of everything we do."



#### Adidas: a box-fresh transformation

In 2017, the CEO of Adidas, Kasper Rørsted, declared that the company's "single most important store in the world is our dot-com store - there is no comparison"

The firm set an ambitious goal to quadruple its online sales to €4bn (£3.3bn) by 2020. This became a lifeline when 70% of its physical stores were forced to stop trading

at the start of the Covid crisis. In 2021, Adidas surpassed its €4bn goal

"Big retailers have had to think differently about how they reach customers," says Sarita Runeberg, whose firm, Reaktor, helped Adidas with its transformation. "Doing so digitally has taken on much more importance Throughout the pandemic, many retailers have invested in ecommerce strategies as a way to stay resilient to change rather than as a temporary contingency measure."

For an online store, speed translates directly to revenue in the form of higher conversion rates. Adidas.com has reduced its page-loading times by 60%, significantly increasing conversion rates and the brand's overall income.

"We wanted to improve discoverability on the website, ensuring that visiting it would feel like stepping into an actual store," Runeberg says. While 'experiential shopping is often discussed, in practical terms this simply means "keeping up with fast-changing consumer demands", she adds.

#### **Thames Water customers**

Thames Water is the UK's largest water and

Mike Potter was group CIO and executive

the sheer amount of customer enquiries meaning that it's almost impossible to manage," he recalls. "These experiences caused us to realise the need to invest in a digital transformation to ensure that such difficulties would never arise again."

Tecknuovo to turn around a rapid digital transformation project, with the first three application programming interfaces designed, built and deployed into a live environment – a first for Thames Water. This took place within weeks during the second national lockdown in late 2020. Since the initial go-live date in February 2021, the team designed a further 18 integrations less than 10 weeks after requirements were agreed.

process more than 1,500 concurrent calls three times more than its original capacity. The transformation led to a 52% year-on-year reduction in the number of customer complaints referred to the Consumer Counci for Water between March and October 2021

Successful transformation projects often rely on peer recognition and proving the value of the project early on to internal stakeholders, according to Potter.

"Any business looking to embark on such a project should take advantage of the power of storytelling as a vehicle to showcase early successes in a way that engages everyone, whether they're technically minded or more concerned about the bottom line," he says. "The stronger the success story, the quicker



tap digital dividends

wastewater company, providing services to 15 million people across London and the Thames Valley. The firm has undertaken a wholesale digital transformation, which includes a move from legacy on-premises infrastructure to modern cloud platforms.

The main problem with the company's previous customer contact system was its inability to manage peak traffic during times of crisis, such as when the so-called Beast from the East storm struck the UK in February 2018. The risk was that callers would be left unsupported or unable to be diverted to the correct help systems just when they were most in need of assistance.

director for digital transformation at Thames Water throughout the project. "Historically, severe weather events prove particularly difficult for Thames Water, with The company worked with consultancy

The contact centre now has the potential to

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### Divide and conquer

When you split your code into manageable chunks, life gets a whole lot easier. It's one reason why microservices are key to the future of applications

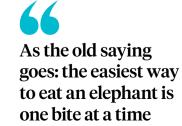
**Charles Orton-Jones** 

olstoy began Anna Karenina with the immortal observation that "happy families are all alike; every unhappy family is unhappy in its own way". It's also true of tech companies.

Each of the hapless ones is unique. producing its own particular hotchpotch of back-end horrors, whereas the successful firms look spookily CTO, explains: "In software terms, similar when you open the bonnet. Take Amazon, eBay, Etsy, Facebook, Google and Spotify, for instance. They all run on a parallel set of tools and ideas. An engineer could move from Amazon to Spotify, say, and know their way around on day one.

One of the key attributes that these giants have in common is their use of microservices. The concept has become so important that any company failing to rebuild itself around microservices could be considered obsolescent

A survey of CIOs and CTOs in March by US software company Kong found that 86% considered



microservices to be the future of applications, Moreover, 84% agreed that any firm that can't ensure the reliability of the application programming interfaces (APIs) that link microservices-based apps is likely to lose market share to rivals

that can.

Microservices seem to be crucial. then, but what do they actually do? for every upgrade. Now that each In the simplest terms, they are activity has been rendered autono the alternative to monolithic codebases. In the old days, software would be composed as a single block, which would be a nightmare to update. Teams would squabble over how and when to commit new code. Any error meant that debugging teams needed to scour the whole codebase to find the culprit.

In essence, microservices divide an application into autonomous chunks that work independently. The separate parts sit in the cloud and communicate with each other via APIs. This set-up has numerous important ones is that it enables one team to update a microservice in its own time without having to bother any other party. Errors are easier to pinpoint and fix.

WealthKernel, a provider of financial software, is a strong advocate of microservices. Chris Wright, its the decomposition of large systems into microservices means that they can be worked on and deployed independently. As the old saying goes: the easiest way to eat an elephant is one bite at a time. This allows for increased team autonomy faster release cycles and improved isolation of faults."

He reveals that WealthKernel's production platform consists of 51 microservices, but adds that "this number will grow every time we incorporate new functionality. We expect to have about 70 by the end of this year."

The usual practice is to grant each function in an application its own microservice. Suresh Chintada, CTO of Subex, an Indian firm specialising in software for telcos, explains that "each microservice does one thing really well. This underlying concept allows us to set the bounded context and focus on delivering that single capability with high quality.'

Gone are the days when teams had to coordinate their activities



mous, teams can intervene when ever they see fit, he adds.

"Development teams can worl independently to build or enhance a product by focusing on the servi ces they own. This allows them to operate in parallel, as it's only the interfaces that they care about to interact with services being built by other teams," Chintada savs.

Ease of deployment is anothe feature. It is possible for a micro service to be hosted in a different form such as Microsoft Azure, for instance – and work with related microservices hosted on Amazon Web Services or Google Cloud.

"Microservices offer high scala bility," Chintada says. "As each service is a separate component, we can scale it up or down without having to do the same thing with the entire application.

Naturally, there are disadvantages to this highly modular architecture. With scores or even hundreds of microservices needing to com-

environment - a public cloud plat- | municate with each other in some cases, there is a greater exposure to cyber risks. Conversations about data security are never far away.

> Governance can be trickier too: in situations where dozens of teams are operating independently with different agendas, it can be hard to coordinate large-scale changes The costs of implementation and ongoing staffing also tend to be relatively high for microservices.

> Such downsides encourage smal ler software firms to continue with their traditional monolithic codebases. A compromise approach known as service-oriented archi tecture (SOA), may be a better bet for some of these companies. SOA is a design principle under which software components are loosely coupled but mimic independence.

Justin Biddle, head of UK strategy and business development at ecommerce platform Shopware, believes that there may be merit in taking the SOA route

"While microservices have their place. I'm against the idea that evervone should be using them." he argues. "Especially for mid-market

businesses, the best way to strike a balance between microservices and monoliths is generally to find the middle ground: the SOA  $\,$ architecture. This provides broader applications, with the ability to align best-of-breed services with a decent out-ofthe-box solution. This way, developers have enough flexibility to extend a platform as required without excessive complexity."

Nonetheless, microservices look set to become the default option in digital transformations. The human factor alone may decide it. After all, engineers want to apply the latest tools and principles and, right now, that means microservices. Who knows when an eBay or an Etsy might come calling with a six-figure salary for an engineer versed in their ways? When the big guns declare themselves in favour GitLab, 2021 of an idea, it's hard to disagree.

he pace of change in busi- | aren't well prepared for the sorts of ness is accelerating. To keep | digital behavioural change that we've seen in recent decades. The problem

but it's non-negotiable

enterprise might be painful,

How can businesses change their ways of working to accommodate the

accelerating pace of change? It's a tough ask but a composable commerce

approach is showing impressive results and helping businesses make the move

Becoming a digital

up, organisations must adopt new approaches like direct-to-consumer (D2C) strategies and composin common is an emphasis on customer- and data-first thinking, and us baffled. Even the previous benefian ingrained openness to fundamental change, across both mindset and the Amazons and Alibabas of the world organisational structures.

Sadly, most traditional businesses find these difficult to truly embrace, despite being necessary. According to Gartner: "Composable application architecture empowers such adaptability, and those that have adopted a composable approach will outpace competition by 80% in the speed of new feature implementation." Those enterprises that can successfully adapt to the changing demands of digital business will thrive an age of exponential growth, failing to

enterprises must adapt to survive

Adopting the right direct-to-

customers and drive growth

consumer strategies is vital for

businesses that want to win new

The D2C shift

**£96**bn

isn't recognising change, but the speed of that change. Exponential curve able commerce. What these have make sense in maths class but when applied to the real world, they leav ciaries of such exponential growth, like face disruptions as more companies bypass generic marketplaces, instead making the most of social media gig-economy logistics and micro-finance marketplaces such as Klarna. S if TikTok caught you off-guard, imagine what might be coming a year from now - especially if you take the exponential

#### Agility and customer focus provides

In the 20th century, if a company had a product worth selling it was heavily If that sounds unnecessarily harsh, of the distribution. Today, custom-

The pace of change isn't slowing down. With competition growing and consumer habits continuing to evolve

Composable commerce provides unrivalled flexibility and clarity. If your business is run by the more static technology suites, it will be like discovering Lego after only ever being able to play with Playmobil

ittle brand loyalty and can buy anyning, anywhere. To be able to provide engage directly with their customers remember that as a species, we just | ers have a huge amount of choice. | and capture data about their changing

#### preferences. This is the principle | technology to deliver services instead behind D2C. According to global business transformation agency Valtech, going D2C can be an essential move but will only be a success when com-

bined with a digital-first mindset. "Your D2C strategy will fail if it's not backed by a real dedication to become a digital enterprise. Power it with the right technology and enable it to connect with the constantly evolving new channels and you will get far. But to truly succeed, it's essential to consolidate it with the right data strategy and customer-service functions. This allows you to leverage your input for a competitive advantage and create an organisational structure that supports our customer interactions," says Joacim Jeppesen, global chief growth

"You must continuously use these nsights to position, optimise and differentiate your product or service. All these changes require more than just new digital infrastructure or ways of working. It's about adopting a digital-first mindset.'

officer at Valtech

Switching to a digital-first, flexible mindset across an entire business is not a straightforward process of shredding paper and letting automation rule the roost. The shift is painful because it is mindset-driven. "It will, and must, shake the core of your business," says Jeppesen, "Outside help and perspectives on strategy and technology are needed, but the drive and motivation have to come from within."

#### The power of composable technology Fortunately, while this shift might take

a lot of effort new technology allows ousinesses to adopt a D2C strategy while protecting themselves against shocks. This is the notion behind composable commerce. For Mandhir Gidda, EMEA CTO of Valtech, this represents "the realisation of a movement that began many years ago with service-orientation. It's a paradigm shift, reflecting digital thinking a every level of an organisation. It's the ultimate expression of being able to ccommodate change."

Composable commerce allows bus nesses to act quickly, efficiently and proactively to pursue direct relations with their consumers and customers both through their own and third-

party channels. In adopting composable commerce, a business's mindset will not only shift from focusing o projects to focusing on digital products, but it will also enable information

of systems. Spearheaded by global leaders like Valtech, who co-founded the MACH Alliance, it's the technological innovating element, providing a new way of adapting the digital landscape to the needs of a particular business and bringing all its data into one place.

"Composable commerce provides unrivalled flexibility and clarity. If your business is run by the more static technology suites, it will be like discovering Lego after only ever being able to play with Playmobil," says Gidda. "With composable commerce's flexible technical architecture, you can replace and improve the individual building blocks of your ousiness. This allows each element to serve the purpose they're supposed o in a better, more efficient way, al while providing you with the essential nsight you need from all channels to nake more strategic decisions."

drive a successful D2C strategy and be a key enabler of modernising digtal enterprise. With a composable oundation, businesses will naturally transition towards a digital-first mindset, as silos are deconstructed and customer data collected into a single source of truth.

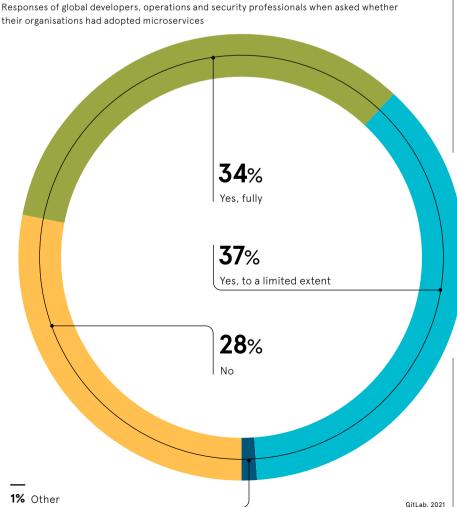
There is indeed an increasing argency to shift to digital across all aspects of a major company Consumers aren't waiting around. Jeppesen says: "Businesses that delay shifting to a more adaptable, consumer-obsessed approach will only fall further behind with every moment that they hesitate. Brands embracing the approach of composable comnerce will be more able to execute digital commerce and differentiation strategies, and we predict they will eave the competition behind."

Traditionally organised businesses night have missed the chance to be first-movers in this space but no one will want to come last

Unlock the potential of your D2C strategy with the global digital experts at Valtech. Contact us to find

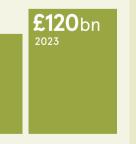


#### advantages, but one of the most HOW MANY ORGANISATIONS ARE MAKING THE MOST OF MICROSERVICES?



#### **Barriers to success**

Common challenges such as legacy IT infrastructures and inadequate data strategies are holding enterprises back



BECOMING THE DIGITAL ENTERPRISE OF THE FUTURE

The value of D2C sales for UK manufacturing is set to grow



of consumers believe retailers

did not have the technological

infrastructure needed to cope

with heightened or rapidly

changing demand

of organisations are delivering on their data strategy

#### Time to transform Enterprises must lay the foundation

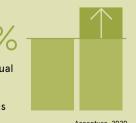
for future success - and they must start now



The percentage by which organisations that have adopted a 'composable commerce' approach will have outpaced the competition in speed of new feature implementation by 2023



average annual growth of data driven









### CFOs take the reins of game-changing transformation

Unprecedented business model shifts post-Covid have prompted a comprehensive reassessment of the role of chief financial officers, with a sharp focus on being facilitative, fair and building for the future

through digital transformation, accelerated by the Covid-19 pandemic, organisations have demanded new leadership styles. Executives must deliver purpose-driven strategies with enough flexibility to embrace the digi- their businesses face. talisation needed today and the ways of working powering tomorrow's success.

CFOs are at the forefront of these changes and are increasingly nurturing non-traditional skills at a time of intense competition for talent. As a result, new variations - or personas - of the traditional CFO role are emerging,

According to new research by Sage, which offers accounting, financial, HR



Business leaders' primary purpose is to prepare their organisation for the needs of the future

small and medium-sized | and payroll technology for SMBs, three | pusinesses (SMBs) lead the way distinct types of CFO are emerging: chief facilitative officers, chief fairness officers and chief future officers. To on the mantle. Some 69% of then thrive in the post-Covid environment. finance leaders must blend the attributes of each to meet the challenges

#### Chief facilitative officers

The research, based on interviews with 1,900 financial heads globally, highlights the rise of chief facilitative officers those who ensure goals happen.

Chief facilitative officers are particular larly prevalent in the UK, where six in 10 | finding a balance between purpose and respondents said this role most closely defines them. Many are leaders of technological change, with 81% having formation and 78% in charge of IT purchases - more so than for the other two categories of CFO. Such chief facilitators feel primed to evolve their roles towards fairness and a future focus.

"The growth of chief facilitative officers keepers of the purse, but the reality is also by the nearly four in 10 CFOs who CFOs actively empower business functions such as HR, IT, operations, sales of a growing number of stakeholders.

Many finance leaders who would not vet categorise themselves as chief facilitative officers are looking to take highlighted that over the past year the have taken charge of projects out side their core remit, moving furthe

#### Chief fairness officers

towards creating strategic value.

Empathy and understanding are o increasing importance to CFOs, the Sage research reveals, and this is par ticularly the case among chief fairnes officers. "These CFOs recognise tha profits is key," Howell explains. "The connect the numbers to sustainable business models, to foster a busines that takes its colleagues and custome on a meaningful journey."

to grow significantly in number: while only one in four UK CFOs say they are currently most akin to a chief fair ness officer, some 44% aspire to be is notable. CFOs are typically viewed as  $\mid$  one. The value of fairness is reflected much more nuanced," says Jonathan | view it as the most needed leadership Howell, Sage Group's CFO. "Today, most | quality. Finance leaders are increasingly "expected to meet the demands and marketing using financial data to | notes a recent report by EY, "who are influence operational decision-making." | interested in social responsibility

Chief fairness officers are expecte

sustainability, short-term financia

performance and long-term value". Younger CFOs most aspire to become chief fairness officers, the Sage research shows, with more than twothirds of 25- to 34-year-old finance leaders aiming to take on these characteristics. This compares to just under a third of 35- to 44-year-olds and almost nalf (44%) of 45- to 54-year-olds.

Chief fairness officers are having clear impacts on their businesses already: nearly half have removed location-based differences in compensation. They are also frequently responsible for diversity, equity and inclusion (DEI) initiatives, with 40% committing dedicated budgets accordingly.

#### **Chief future officers**

Business leaders' primary purpose is to prepare their organisation for the needs

of CFOs have ultimate responsibility

of UK CFOs believe cryptocurrencies

of CFOs are committing budget to diversity, equity and inclusion initiatives

of the future. CFOs are increasingly being expected to manage risk by planning for technological change, market shifts and the impact of volatile world events. A recent report by McKinsey notes that finance leaders "are deeply nvolved in determining how businesses adapt to significant changes in how work gets done", adding that their deep economic understanding of business nodels positions them well to drive ong-term value from transformation.

The Sage research found that 14% of CFOs have the traits of a chief future officer, showing they are only part of the way on the journey to truly having the future in mind when planning fo today. This represents an alarming disparity with the needs of their industry, with nearly four in 10 saying their sector's success is dependent on businesses having CFOs focused on integrating new technologies, empowering seamless remote work environments and attracting diverse talent.

"Chief future officers are integral to the success of a business in the long term," Howell says. "They are highly active in driving a strong environmen tal, social and governance strategy, which in turn improves customer sat isfaction and is essential in retaining diverse, excellent talent."

Nevertheless, there is a need ever mong such forward-thinking CFOs adapt further to change, with UK American counterparts in using crypcurrencies, for example. This is partly the result of perceptions, with almos half (44%) of UK CFOs believing crypto to six in 10 in the US. A lack of relevant talent and concerns about related environmental impacts are also hampering

#### Stepping into the change

Sage's research shows that the CFO role is changing largely because of the enormous economic and societal shifts prompted by the pandemic. The further digitalisation of tax - resulting from government initiatives and businesses' need to ramp up effectiveness - is also transforming the role. The economic fallout of the Ukraine conflict is expected to catalyse further deep transformation and squeeze an already tight talent pool.

"CFOs increasingly see themselves as chief facilitative officers and there's also a rise in the prevalence of chief future officers. Young CFOs, meanwhile, are particularly likely to be the chief fairness officers that see what lies ahead and begin preparing their businesses for massive change," Howell concludes. "Whichever of these per sonas they most naturally align to, they must balance the qualities of all three o influence strategy and drive succes

To find out about technology that empowers the CFOs of today and rrow, visit sage.com/uk/intacct

# How can digital transformation serve the government's levelling-up agenda?

Experts suggest that an increase in institutional investment, a better distribution of successful tech companies and the adoption of open source and low-code will break down regional barriers across the country



mission to spread prosperity to all parts of the UK, the Levelling Up white paper includes much talk of how technology and digital transformation can help. For example, it wants most of the

country to have access to nationwide and partner with the government. gigabit-capable broadband and 5G mobile networks by 2030, suggesting that communities must be digi- firm StateUp, believes that it will be tally connected in order to thrive.

Jonathan Weinberg

The paper also stresses the importance of new digital skills and infra- and tech startups. structure to power jobs and industry in the future, with Boris Johnson describing it as the most comprehen- are developing high-quality, consive and ambitious plan of its kind. | textually sensitive offerings to help Michael Gove, the secretary of state | address pressing challenges that | with levelling up at its heart, BAI for levelling up, housing and communities said that success would that the problem is not often about the council's Our Smart City scheme mean "where you live will no longer determine how far you can go".

coordinated digital thinking will be at the University of Cambridge. "We required if the plan is to succeed. | are living in an age of networks, vet accompanied by a huge investment, swathes of new legislation and genuine efforts to encourage the brightest digital companies to move to the UK

Dr Tanva Filer, founder and CEO of public-purpose tech-intelligence crucial to reduce the huge gap between public sector organisations

"Around the world, thousands of public-purpose technology startups towns and cities face. This suggests supply," says Filer, who also leads | to ensure that Sunderland benefits the digital state project for the from 5G and wireless infrastructure.

innovative technology companies siloed from one another and from the researchers and investors needed to shape the public-purpose tech ecosystem around levelling up."

the agenda would

Filer argues that innovative public procurement is also key to achieving more digital innovation. Research suggests that it can be "a powerful vehicle for supporting wide-ranging policy objectives relating to levelling up", she says.

Sunderland provides a good example of a public-private partnership Communications is working with

The project has supported trials of self-driving vehicles; remote learning across schools; and social care improvements using assistive technologies that enable vulnerable people to live independently.

Yet the UK could be falling behind other nations in the transformation stakes. Research in September 2021 for the European Center for Digital Competitiveness by ESCP Europe Business School ranked the UK 15th in its analysis of how the digital competitiveness of 140 countries had developed since 2018.

And in March 2022, when it was innounced that the UK's tech sector had surpassed a total valuation of \$1tn (£770bn), Chris Philp, minister for tech and the digital economy, called on British institutional investors to back more homegrown tech firms, suggesting that foreign investors were stealing a march on them.

Matthew Scullion, the founder and CEO of Matillion, a tech unicorn based in Manchester, believes that the UK must produce far more consequential high-growth technology companies outside the South East. Scullion, who sits on the prime

minister's Business Council, says: The steps the government can take are quite simple. We need to open eyes to the possibility of building these businesses anywhere. Running courses on high growth across the UK, especially at computer science faculties at universities outside London, will help to spawn a new generation of digital entrepreneurs whose ventures can power the UK's transition to a digital economy and ensure that it delivers for all."

He argues that entrepreneurs outside the South East bubble have not been given enough encouragement to "wake up one morning and think: 'I'm going to change the world and build a multibillion-pound business as a by-product'. We can fix that. We how to do it and help them to run it. sometimes it will work and sometimes it won't. When it does, it will encourage a more equitable distribution of capital across the regions, which will promote regional technology talent and skills too."

One way for the government to achieve its levelling-up mission. according to two experts, is by harnessing open source and low-code. The former is software that can be shared and edited by anyone for any purpose, while the latter offers a more straightforward approach to software development (see p6).

Alex Case, senior director and public sector industry principal at software developer Pegasystems, has worked at No 10 and led large-scale public sector reform initiatives in Canada. He suggests that the government should increase the uptake of low-code platforms to spread IT jobs more equally around the UK.

"This enables many civil servants n operational non-IT jobs to upskill and become a key part of digital transformation projects," he says, adding that it could also transform the relationship the government has with the public, giving citizens the chance to participate in service development and improvement.

This chimes with the findings of a recent survey from data analytics company KX, which indicated that nearly half of students in the UK believed that software coding skills were at least as valuable as the ability to speak foreign languages.

But there is no short-term fix if research from edtech firm Emeritus is anything to go by. This indicates that levelling up digital skills across England could take decades, with London at least 15 years ahead of the rest of the country and the North East 30 years behind the capital.

Amanda Brock is CEO of OpenUK. a not-for-profit industry body pronoting the use of open technology. She thinks that the government has to improve its understanding of open technology and collaboration to underpin digital transformation and "make the economy tick".

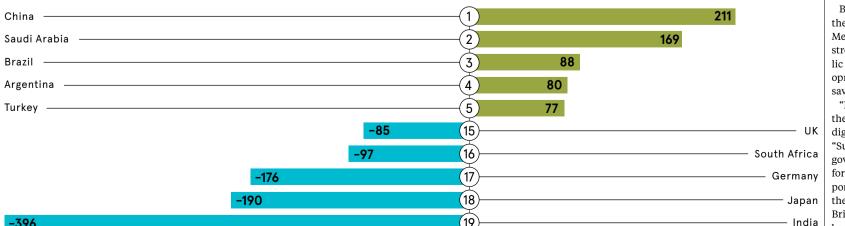
Brock, who has been working with the Department for Digital, Culture, Media and Sport, highlights the strength of open source for the public good. A successful piece of development can be adapted and reused. saving time and money, for instance

"If we get this right, we'll provide the building blocks for our national digital infrastructure," she argues Such assets can be used by other governments for their digital transformation projects. This would support more companies in developing their products and services around British outputs and enable our UKbased talent to service the world."



European Center for Digital Competitiveness, 2021

Selected G20 countries ranked by the European Center for Digital Competitiveness, which defines a nation's digital competitiveness according to its "ecosystem and mindset



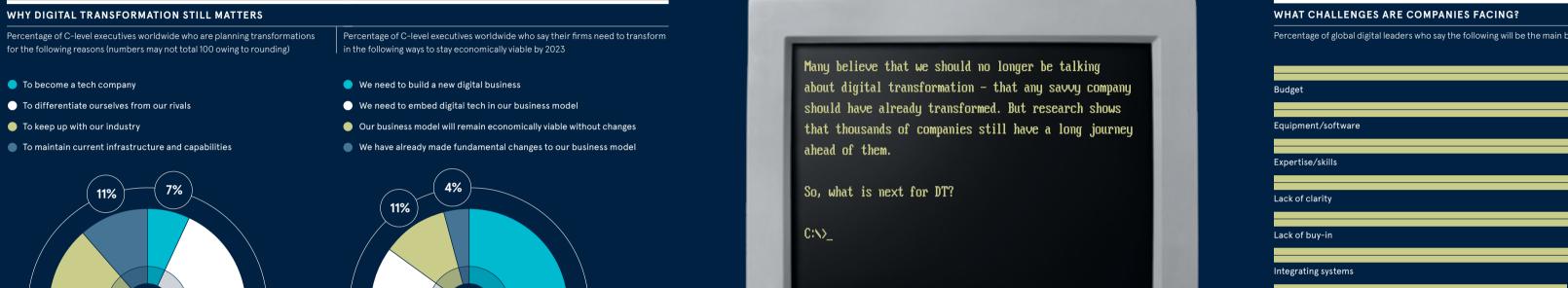
# THE FUTURE DIGITAL TRANSFORMATION ROADMAP

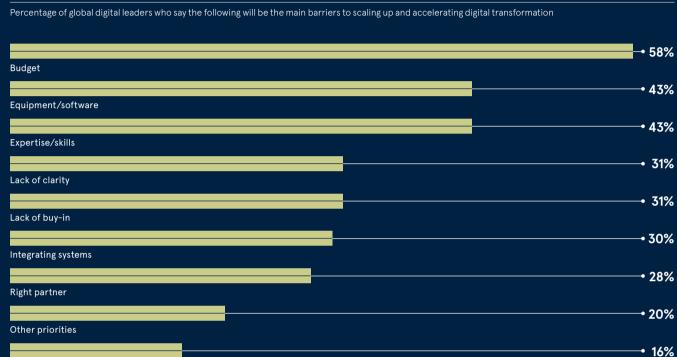
54%

56%

of IT executives said digital transformation was a priority for their enterprises in 2020 said the same in 2021, making it their top priority

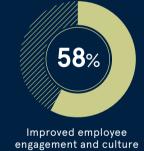
Flexera 2021





#### WHAT BENEFITS DO THEY EXPECT TO SEE?

Percentage of global digital leaders who consider the following to be the top expected benefits of digital transformation for the next 12 months



Development of existing products or services



Improved responsiveness to customers' needs



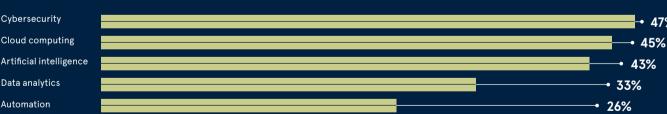
Baker McKenzie, 2021

Baker McKenzie, 2021

Development of new products/services



Percentage of global digital leaders who consider the following to be among the top strategic technologies for digital transformation

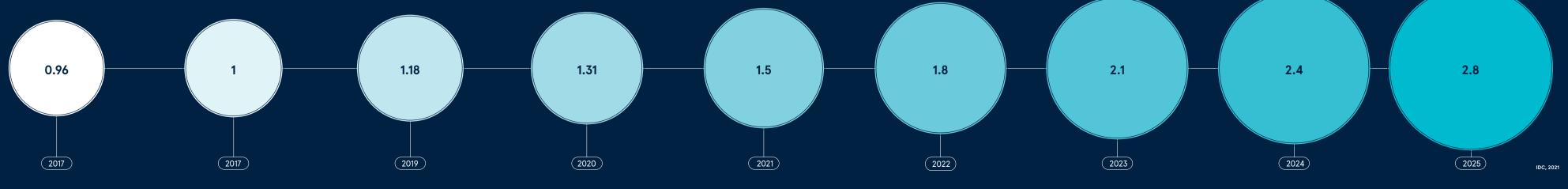


#### → 47% → 45% → 43% → 33% → 26%



#### COMPANIES ARE SPENDING MORE ON TRANSFORMATIVE TECH

 $Actual \ and \ projected \ expenditure \ on \ digital \ transformation \ technologies \ and \ services \ worldwide \ from \ 2017 \ to \ 2025 \ (\$tn)$ 



RACONTEUR.NET -(3)-17



### 'Trust is the main currency of the future of commerce'



Personalised customer experiences are so last year, according to Shimona Mehta, managing director of Shopify in EMEA. She explains why the retail sector must focus on building 'brand communities' instead

#### **Oliver Pickup**



2020, is itself blossoming

Ottawa-based multinational powers "millions of businesses in 175 countries", she says. According to recent content management system, placing it second behind only WordPress in the popularity league.

Retailers and direct-to-consumer brands would therefore be well advised to take careful note of any insights arising from Shopify's vast

Mehta predicts that non-fungible Retailers need to accelerate their connecting with consumers."

pring, the period of fresh | digital transformations to take full starts, is a fitting time to advantage of these trends, she says.

Data to support her forecasts can became MD for EMEA in November | experience has been the holy grail for many marketers in recent years, The technology provided by this yet 80% are likely to stop doing this by as soon as 2025.

The main reasons for the decline of personalisation are that tightresearch by W3Techs, 440,000 of ening regulations are making the 10 million highest-ranking data-tracking harder; innovating websites in the world use Shopify's with first-party data is unlikely to produce many lasting customer relationships; and the most promi nent web browsers are phasing out support for third-party cookies.

'The biggest challenge for firms is building long-term relationships with their customers when it's possible to shop across several channels from a multitude of brands," Mehta tokens (NFTs), augmented reality says. "New internet privacy regu-(AR) shopping experiences and lations and the changes affecting social commerce – buying and sell- third-party cookies are pushing up ing directly across social networks – the costs of customer acquisition. will play significant roles over the This represents a sea change in how coming years for online merchants. brands have been thinking about

January 2017 as head of sales enablement in her native Canada argues that improving customer retention using "brand communi ties" will become key. This is where retailers - and business leaders operating in other industries should focus their digital transformation efforts. In much the same way that a clunky etail experience will lead consumers to abandon their shopping carts, any organisation will lose potential customers if it offers them an unsatisfactory digital journey.

"There have never been as many opportunities in this space, but there has also never been as much competition. Creating a seamless customer experience is key for organisations wishing to emerge from the crowd," she says. "The most successful brands are transparent, authentic and readily available to their customers, wherever they may be. Trust is the main currency of the future of commerce. Retailers that stand out online and retain their customers build bidirectional, meaningful relationships with them."

But establishing and maintaining that sort of relationship is neither simple nor cheap. At the heart of the process, though, is a digital transformation featuring the adoption of tools with the capacity to empower merchants and make consumers feel comfortable using any channel they choose.

England (rather than Ontario) when she became head of Shopify Plus for EMEA in March 2019. emphasises the importance of investing in digital transformation been as much competition

customer experiences are not disjointed. Powerful technologies including artificial intelligence and big data analytics can predict likely spikes in demand, enabling greater efficiency in supply chain management. All data points ought to inform strategy.

"There are more contact channels than ever, be they websites, mobile apps, social platforms or the point of sale in a physical store," she says. "An omnichannel approach is about aggregating these varied touchpoints. Operating an omnichannel business requires a lot of long-term planning and future-proofing strategies to absorb new technologies and avoid offering disjointed customer experiences."

It all comes back to engaging with consumers and learning from them to better serve customers and enrich the brand community, argues Mehta, who adds: "The emergence of social commerce represents a particular opportunity for businesses to regain control of their brands in digital channels."

She points to Lounge Underwear's 'hybrid approach" to influence: marketing as a good example. "To

Mehta, who relocated to London, There have never been as many opportunities in this space, but there has also never

used both big names and micro- haven't wasted a ton of investment influencers. It believes that the latter have a better conversion rate, as consumers find them more authentic and relatable."

Shoppers are increasingly using social channels to discover brands, partnering to boost digital capabilipurchases, Mehta reports. "More of our merchants are unlocking the power of social commerce through performance marketing - consumincreasingly completing checkouts | continue to grow." directly through social channels."

Linked to this, livestream selling selling apps was 40% up on the total improves the customer experience. for the preceding three months.

Also on the rise are AR-enabled through a virtual try-on feature.

enables them to test things cost- ers where they are."

spread awareness, the brand has effectively. If they don't work, they

When retailers - and businesses in other industries - embarked on their digital transformations, they would not have considered NFTs. And here is where the benefit of ties can prove truly useful, according to Mehta.

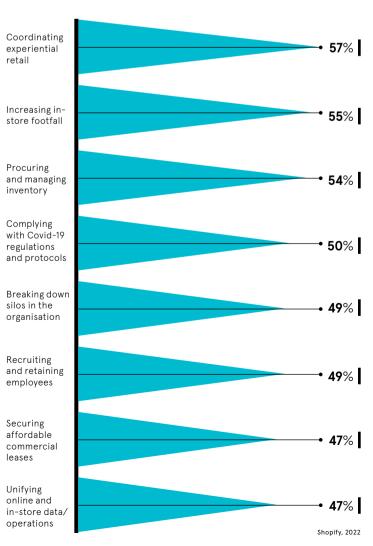
"NFTs are certainly an interesting way for firms to stand out and build our integrations with Facebook, relationships with consumers," she Instagram, Pinterest and TikTok. says. "As more merchants build fun, This is not about advertising or engaging experiences for their communities, I believe that interest ers are engaging with brands and | and excitement from their fans will

Overhyped or not, it could be a gamble worth taking, given that interactive videos through which | brands as varied as the Chicago viewers can buy the goods being Bulls, Martha Stewart Living demonstrated - has exploded in Omnimedia and Superplastic have popularity. Shopify merchant data | completed successful NFT 'drops' covering August. September and through Shopify. After all, it'll be a October 2021 indicates that the winning punt if it builds that allnumber of downloads of livestream | important brand community and

Mehta concludes by offering advice on how retailers can thrive mobile apps. Clothing brand by accelerating their transforma-Allbirds, for instance, has found | tion. "My main tip is to start now; success by using Shopify's custom | don't wait for the ideal moment. storefront tool to create a more Brands without a strong multichanimmersive shopping experience nel presence will miss out on a huge opportunity," she says. "For retail-"AR can make a big difference for ers at the start of this journey, focus the customer experience, although on building for the long term. it isn't for every brand," Mehta says. Choose tools that enable you to "If merchants want to experiment | develop your own ecosystem for with it, we offer a plug-in that commerce – and meet your custom-

#### ARE RETAILERS REALLY THINKING ABOUT DIGITAL TRANSFORMATION?

Share of global retailers who say that the following are the biggest challenges facing their businesses this year



### YOUR COMPETITION IS UNDERGOING A DIGITAL TRANSFORMATION. ARE YOU? Percentage of manufacturers 50% anticipate that more than half of their current business processes will be automated by 2025 **85**% plan to increase investment in business process automation 81% agree that data-driven management is essential to stay competitive

### Three reasons to adopt a digital transformation

The challenges of the future are upon us and only digital-ready companies will be primed to survive

ne world is changing fast - | but there's a risk of being left behind for companies that don't adapt to the digital acquired, merged or declared bank-Tom Siebel of McKinsey Quarterly.

McDermaid, director of business con- strategies for sustainability today. sulting at aPriori. Through his work with aPriori. McDermaid talks to scores of Volatility and resilience customers at different steps in their standing their problems. His analysis tries, different manufacturers, and the issues they face.

Whatever stage a company is at in The company automatically generates manufacturers collaborate across the product development process to make better design, sourcing and manufacturing decisions - yielding lower cost and more sustainable products delivered in less time.

"The journey of digital transformation creates a framework of valuable digital data we can analyse" he says. "We run simulations of future design, manufacturing and procurement scenarios that support critical decision-making much earlier than before."

By doing that, aPriori helps manufacturers and suppliers tackle what McDermaid calls the "three enormous challenges" they face today and in the rise? At what price point do comvery near future.

"Companies have to think today about how they are going to address sustainability in the very near term," says future. Since 2000, more than 50% | McDermaid. That transition can be of Fortune 500 companies have been eased by creating a digital model of the future, which will help proffer soluruptcy, being outcompeted by more tions and a path to follow, heading off innovative firms. The causal factor is sues that will soon come down the digital transformation, according to line. "As far as product sustainability is concerned, two of the key elements "Digital transformation offers an to consider are one: what is the prodopportunity for businesses to tackle | uct made of? and two: how does it get three primary business priorities that | made?'" says McDermaid. Companies exist across the globe," says Daye can and should start roadmapping

digital transformation journey, under- ity for businesses post-pandemic according to Deloitte's 2021 Insights in this article covers different indus- | Survey, McDermaid points to the pandemic's butterfly effect, using the following example to illustrate this priority. "Shifting supply chains over the their digital journey, aPriori can help. past two years resulted in the inability for a handful of nuts and bolts to manufacturing intelligence that helps be shipped to the production line of an engine plant. Because of this, the automotive OEM could not build their vehicle. Fleets of cars can't be built if we can't get enough bolts, wire har nesses, silicone," he says. "The prob em is huge, and supply chain volatility and resilience is now a guaranteed concern for the future."

Resilience is the number one prior

Adopting a digital transformation within your company allows you to utilise data to strategise around dif ferent future scenarios - and plan for how you will overcome them when they happen. Could I design to reduce supply chain risk and complexity? What happens if material prices pany profits disappear? "Exploiting

digitalisation today allows us not just to predict the future impact, but to nd indicators that allow us to plan

#### Labour shortages Whether it's losing your best talent or

not getting the right people into the orkforce in the first place, a lack of brain power can hinder a company's evelopment - specifically in engineering. That said, it's an issue for every company in every sector, and one that will become more prevalent as more work is automated, and collective knowledge becomes more limited. According to that same Deloitte survey, 50% of businesses anticipate more than half their current processes will be automated by 2025. Digital ransformation ensures your company will never lose that institutional emory, capturing years of intellience in manufacturing while also naking the process more efficient. "To repare for this, aPriori can help comanies to maintain a digital thread of nanufacturing processes and design owledge," says McDermaid.

Digital transformation provides rganisations with the added speed and agility they need to remain com petitive. By tying product design and nanufacturing operations together, key phases of the product developnent lifecycle are propelling new

To start your digital transformation today, visit aPriori.com/contact or call +44 (0)78517 91322 to arrange a demo



### Take it from the top

They've been there, done that and got the T-shirt. Having led a range of organisations through successful transformations, three seasoned veterans share the key lessons they've learnt

Sam Forsdick



#### Juliet Bauer, senior vice-president and UK managing director, Livi

Bauer has overseen numerous transformations, from the introduction of digital subscriptions at The Times to the launch of the NHS App. Now at Swedish online healthcare provider Kry, she is looking to scale up Livi, the company's UK business

challenge is establishing what you'd like to achieve. The clarity of that vision can be the biggest difference between success and failure. As a digital leader, you need to be able to stand up and passionately articulate why the organisation is trying to transform, so that you can bring people with you.

A key challenge at some of the bigger organisations I have worked with has been dealing with legacy issues. It's not that everyone does not see the value in transforming; enterprise will simply be at different points on that journey. When I worked at *The Times*, for instance,

elements at the start, but it became healthcare system. obvious that change was needed, as print circulations were declining and advertisers were spending It's important to work to high stand more online. The key idea around | ards - there's a real difference be which we decided to organise the ween transforming in a mediocre company's digital transformation was that good content is valuable. You should be able to explain why

you're undertaking a digital transformation in a way that's simple enough for everyone to understand, business might not have been fully patients, clinicians and partners, as people to access services,

any organisation, the first | up to speed on some of the digital | well as a good overall grasp of the

One problem is that firms some times don't set the bar high enough way and doing it well. When you do it well, your stakeholders will actu ally want to use the new technology

By contrast, when companies try to digitalise services for the wrong reasons, it becomes irritating for wherever they're working in the users, as they feel they're being organisation, and in a way that forced to do something they didn' it's more that different parts of an brings that story to life. That entails want to do. You need to create expe taking the time to understand your | riences that offer more value than various stakeholders and their before. Yet there have been cases in needs. At Livi, for example, we have | all industries where digital trans some people on the print side of the formed a great understanding of our formations have made it harder for

#### Peter Weckesser, chief digital officer, Schneider Electric

In previous roles, Weckesser oversaw the digital transformation of the defence and space division at Airbus and led the creation of an industrial internet-of-things platform for Siemens.

tion is understanding that it's a jour- change might never happen. ney, not a destination. At Schneider Electric, we start with a vision, which is usually based on a time horizon of about four years. Then we work in sprints, so that we deliver value for the company and its customers in relatively short cycles.

If you approach it purely from a This is not about introducing a few do things differently from how more tools. Instead, it should be vou've done them before. The most based on the question: how can we prove our efficiency and gain a com- the willingness to change. petitive edge? Such projects should be seen as a means of transforming the whole business. Digital transformations are there-

fore really business transformations, which is why they can be so hard to get right. There is usually cultural resistance to such change. The most successful organisations are those that embrace change.

This means that you must be willing to impose it to some degree. For example, when we saw an opportunity at Schneider Electric to get into ecommerce, some people thought it was a stupid idea. It's since become our fastest-growing channel. If you

The key to a success in a transforma- | listen to all the sceptical voices,

requires a visionary CEO who's willing to break the status quo and convince the rest of the organisation to support that process.

I am convinced that any transfor mation in an organisation, digital or otherwise, requires a permanent technical angle, you're likely to fail. disposition to lean into the wind – to important capability in this respect, utilise all these capabilities to imtherefore, is not technical skill: it's



#### Siim Sikkut, partner, Digital Nation

Until February 2022, Sikkut was CIO of Estonia's government - widely seen as an exemplar of how to digitise public services. Now he's helping other countries to build digital societies.

mic Affairs and Communications. Our task since then has been to lift how to incentivise them. all of them to the same level.

An effective leader in the public sector must have a grasp of the basics of technology and emerging an Estonian, I've always had an IT trends; be data-literate, so that they know what they can get out to think that the strength in people of this material; be user-centric; understand information security between the two worlds. We underand risk management; and know how to work with a digital team.

Slightly different qualities are re quired of someone leading a digital transformation in the public sector. You need the five fundamentals



We have a decentralised govern- | I've mentioned, but you must also ment in Estonia, which means that have good coordinating skills, so every department has its own digithat you can get different parts of tal agency. The services these were government moving in the same providing for the public were of direction. You and your team will varying quality when I started in | never be able to build everything my role at the Ministry of Econo- on your own, so you must be able to collaborate with others and know You do not need to be a techie

> vourself to lead in government work. I'm not a technologist, but, as enthusiasm for technology. I'd like like me is that we can translate stand what technology enables and we also know what it takes to use technology to change how govern-

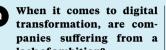
> And changing how we work is fundamentally what a digital transformation is. The technology itself is not enough; it must be put to good use. To achieve that, you have to understand the tech. But even more, vou have to understand the business of government.

You also need to build places to bring people together socially. In Estonia, that might mean organising a nature retreat, say, whereas some other governments might hold a big party. Such gatherings create team cohesion - it's a relationships game, Recruiting the right people to your team will make a whole lot of difference too.

#### 'As technologists, we must architect our services to be useful to society,

Professor Adam Beaumont, a member of the Digital Leaders advisory board, discusses how organisations can use technology for good

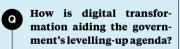
not a hidden burden'



lack of ambition? Take becoming carbon-neutral by 2030. This ambition turns into miles. This reduces the load on language such as 'reducing energy | national networks and also the cost nption'. What we've done is of delivering the content embark upon becoming 'less bad'. To be ambitious, we need to think about how we can be 'more good'.

The less-bad approach looks at how we use technology more efficiently. The more-good approach looks at how we use technology to transform our operations to become Humans are the only creatures on this planet who create waste that cannot be consumed by other parts of the food chain. Technology that allows us to eradicate this must be the highest priority.

Magic happens when two or more rapidly advancing technologies transport systems. All of this concombine in a synergistic way to create a transformational technology. Advances in materials science and 3D printing are enabling human atted or destroyed, so the output of a organs to be printed, for instance, data centre is heat. while 5G networks and robotics are enabling remote surgery.



mechanisms and data to operate ing advantage of waste heat. The UK more efficiently and provide a better | is 13% 'fuel-poor'. Our 5MW would quality of life for its citizens. But heat a lot of homes data flows rely heavily on good internet engineering

We take this engineering for granted. In the early days of the internet, all connectivity came from a hub in London called an internet exchange. Any data flowing between connected devices in Manchester, say, would have to go via London. The extra time involved in this round trip made it impossible to use a net work for high-speed processes such as controlling drones.

In 2008, I co-founded the first internet exchange outside London, called IXLeeds. These exchanges are now in most big cities, silently providing the underlying infra structure upon which we can build smart networks.

The exchanges don't just connect | Professor Adam Beaumo

**When it comes to digital** | drones. They also connect people to content. Much of the regional interpanies suffering from a net service providers' connectivity comes through these exchanges. It starts with the language | meaning that, when a person in a surrounding our ambitions. city uses YouTube, for instance, the content has to travel only a couple of

#### How can we ensure that our digital transformations are as green as possible?

As technologists, we must are chitect our services to be use ful to society, not a hidden burden. uses more energy than Argentina.

My company's data centres house the technology that supports much of this smarter future, from mobile network equipment to digital patient records to the connectivity for sumes energy. In Leeds alone, we consume about 5MW of electricity consistently. Energy cannot be cre-

Smart starts with smart policy. The UK Investment Bank is looking to fund circular schemes that will lay the foundations for smarter ecosystems. The challenge is to ensure ment's levelling-up agenda? | that industrial strategy dovetails A smart city is one that has with planning, creating incentives been empowered with the for new developments, such as tak-

> More and more tech is moving to 'the edge', meaning that more data centres will crop up in cities. One of the early smart opportunities is to design them into a holistic scheme that can help all citizens.



things such as cars, sensors and Advisory board member, Digital Leaders

### The need for speed in the new age of digital

To keep up with rapidly evolving customer expectations, organisations must tackle the underlying barriers to digital transformation and ensure low latency in their applications

igital transformation has come a long way over the past decade. When the need first emerged to meet demands from customers for a more digital experience most organisations took the simplest and least disruptive approach: deploying a series of new, greenfield digital applications.

While many companies might have called this digital transformation, in reality it wasn't. Real transformation requires replatforming of the underlying infrastructure, but the significant costs and complexities of doing this were, for a long time, a major deterrent. That is until cloud-native businesses started outpacing and out-innovating incumbents by offering bette customer experiences.

The realisation of the importance of cloud infrastructure to core business agility came about at the same time as Covid-19 upended the world, accelerating the urgency for real digital transformation. Suddenly, the lifeand-shift model was no longer feasible businesses had to start thinking about application modernisation - and fast. "The pandemic has driven trans-

formation at an unprecedented magnitude and changed how businesse interact with their customers," says Udi Gotlieb, vice-president of product marketing at Redis. "When you look at how cloud-driven companies use DevOps practices, agile development technology and microservices to break the silos between operations and development, legacy organisations can't achieve that kind of agility on their existing models and infrastructure." Amid the acceleration of digital ser-

vices, amplified by the Covid-19 crisis, it is now business critical to not only build new services quickly, but also to make sure they are delivering the best possible user experience. Latency is the new outage - it is costing businesses while their cloud-native competitors are delivering rapid speed for

Consumer expectations are higher than ever and they are increasingly correlated to how quickly applications can respond to customer demands. If they can't do this in less than 100 milliseconds, consumers won't waste time and will look for alternatives, making latency a crucial consideration in application modernisation. Technology is just one part of the equation, however.

"Any business can bring in new technology but if people don't know how to use it and companies don't acclimate the process around it, they won't be able to innovate."

savs Allen Terleto, field CTO at realime data platform Redis, "To break through the complicated barriers to genuine digital transformation, com panies have got to tackle people

From a people perspective, develop ers want to use the technology they like sing, yet the mainstay databases over the past five or six decades tend to be ranked at the bottom of user surveys. Redis, on the other hand, has cor sistently been named the most loved -memory database. By giving tal ented developers a tool that is simple owerful and fast, they'll be empowered ered to be more innovative

process and technology."

When it comes to processes, Redis Enterprise simplifies and automates neers (SREs) and DevOps people wil need to otherwise manage manually. That includes deploying multi-ten ant and geo-distributed services. Developers and engineers do not need to write their own conflict resolution logic or patch every different application to meet their enterprise SLAs. They can simply choose the right model and deploy uniformly with operational excellence.

Finally, Redis's technology is bui for the digital age. Because legacy relational databases were created 50 vears ago, when the cost of RAM was very high, they had to focus on reducng infrastructure costs as a first principle of their design, instead of simolifying data access and optimising for performance. Redis was built for mul--model data access and in-memory speed as a first principle, leveraging RAM that is now viable due to expo nentially reduced costs. Companies get the speed and access they need

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"Our customers are empowered for successful digital transformation ays. "Redis's simplicity and commu ity gives people confidence to move Our cloud-native real-time data plat orm meets customers where they are oday and where they are going tomor ow as we progress towards a digi

vithout the complexity.

For more information, visit redis.com



### Why there is no such thing as one size fits all

The term 'digital transformation' can mean widely differing things to different organisations. Here, three disparate enterprises explain the contrasting processes they have been through

#### **Morag Cuddeford-Jones**

#### The startup's story: a cheeky approach to digital-first

six years old, but it's already flour- order fulfilment process with one transformation trends. ishing. The producer of bamboobased paper products was recently valued at £75m, thanks to its focus on the double zeitgeist of hygiene and sustainability, along with its

The enterprise was founded by couple Chris Forbes and Julie adopting software as a service, an if you become outsized in one area, the foundation of what we've got.' off-the-shelf product, and automating the back office as much as possible, enabling it to scale up that piece off and put another on ble, but Forbes believes that vision efficiently, Forbes says.

"We started off as most new busi-

click of a button," Forbes explains. He points to The Cheeky Panda's understanding how to build a digi-

tech stack, where each element is tally future-proofed business from 'plug and play', whether it's an scratch, having helped to build ecommerce platform or a customer | PwC's consultancy business in relationship management system.

architecture: you can add things | edge of what world-class architec Chen. It has always been keen on and take them away. It means that, ture looks like - and that's shaped you don't have to completely transform the whole stack. You just take | may be neat and highly customisatop of it.

In fact, The Cheeky Panda has cessful transformation. nesses do, using accounting sys- not really undergone a process of tems such as Xero or Sage. But in digital transformation in the same what is it going to deliver for your 2019, which was still very early sense that larger, longer-established business?" he says, "As long as you for us, we adopted an enterprise companies might. Rather, it started understand the fundamentals of resource planning system with a out as a digital-first business. But the tech you're using and the end view that all of our other systems | the organisation's tech make-up | goal of the business, this should would hang off it. We can run a means that it's more than a match give you a mid-to long-term view.

The Cheeky Panda may be a mere | complicated order capture and | for the demands of future digital

former life. "I've met thousands o "We have got a component-based | architects, so I've used the knowl-

> The Cheeky Panda's architecture not tech, lies at the heart of a suc

"Technology might be cool, bu







#### Striding into transformation: the medium-sized enterprise

Walk the Walk Worldwide, a charity | We can work much more effectively focused on breast cancer care, has raised £100m since it was established in 1996, with about 500,000 people taking part in its challenges. Having started out by posting all sponsorship forms to fundraisers,

Social media is helpful, but picking up the telephone and talking to our fundraisers is even more important to us

website that also supports activities such as event registration, email marketing and social media activity.

Guy Aubertin, director of fundraising and operations, describes how its digital transformation evolved from hiring seasonal workdata from the paper forms, "We had

pool," he says. "Now there are two." Perhaps the most significant contribution of the digital transformation, aside from enhancing in by being free but now they turn the customer experience, has come the supply off unless you pay for it in improving efficiency and flexibility, according to Aubertin.

"It's been a great cost-saver. We helpful, but picking up the telework with contractors who no phone and talking to our fundrais longer have to come into the office. ers is even more important to us."

using tools such as Slack," he says. "When there are fewer of you, there is greater pressure, so you need to offset that by giving people the opportunity to work remotely.

While the pandemic may have forced people into a somewhat unnatural existence lived almost entirely online, Aubertin believes that true digital transformation for Walk the Walk is managing a more hybrid arrangement. He says that the charity is holding both a physical and virtual event this year.

"People want human interaction." There's an expectation with digital that you're always going to be new. How do I cut through all that other digital noise? Constant reinvention is very difficult and expensive, so physical events are where we're at," he says.

Aubertin notes that the speed of Walk the Walk's transformation was influenced by wider user habits, such as "the increase in the use of the internet, email becoming more the charity now has a sophisticated | than just a business tool and social media pushing things along". But he adds that the fundraising tea party is just as important as a round-robin email or YouTube video

Aubertin is also at pains to point out that for his enterprise, social media is very much a sharing tool ers – usually students – to key in for donors. For an organisation of Walk the Walk's size, the cost of 20 temporary staff, like a typing engaging fully with social media is too high.

> "It's incredibly expensive," he says. "It sucked a lot of businesses - and there's no certainty that you'll get results. Social media is

#### Big business transformation: delivering the 'fourth emergency service'

massive acceleration for Boots UK | nesses are about using the fear of "in terms of what we needed to do | missing out, timed offers and drifrom a digital perspective", says its ving calls to action", she adds. ecommerce director, Paula Bobbett.

Boots UK is one of the few higha dramatic rethink of how it man- killers within 20 minutes. aged its digital and physical estate.

"One lucky thing about being a huge business is that you have lots venient than some of our digital of stores, effectively turning them competitors. We couldn't do that into micro-fulfilment centres. That | without the strength of our stores." drove us to have a real rethink about their role." Bobbett says.

click-and-collect facility became an essential tool to the company, enabling it to "flex up capacity".

tus as an online business. "It's fair | an agile, responsive omnichannel to say online was underinvested, so business is a work in progress. the first year of the pandemic was about both tripling supply chain

But "that just doesn't work in the become a lot more agile."

The arrival of Covid-19 fuelled a | digital world, because digital busi-

As a result, initiatives such as a delivery trial in partnership with street retailers in the country that Deliveroo meant that the online has been allowed to keep its stores operation could ape the conveniopen throughout the pandemic. ence of the physical store, deliver-Nonetheless, the lockdowns forced | ing healthcare basics such as pain-

> "That has proved really powerful because suddenly we're more con-

For Boots UK, digital transformation is less about ecommerce and The Covid crisis has accelerated | more about "how you bring the two plans that were already in place. together and use the strength of But it has also revealed new ways of technology both online and in approaching not only digital but store." Bobbett says, "The next big omnichannel retail. During surge thing for us is to measure your store events such as Black Friday, the in the same way as you measure your digital business.

If this sounds like a 'click your fingers and it's done' moment, she It also transformed the firm's sta- is quick to admit that becoming

"It's harder to transform as a big business, as you're working with a capacity and really rethinking how | lot of legacy technology, you're not we trade our website," Bobbett says. | buying off the shelf and you're hav-In its previous incarnation, the ing to adapt old systems that aren't online store had followed physical | necessarily fit for digital," Bobbett stores' merchandising plans, such | says. "But, once you get the baseline as promotions lasting eight weeks. right, you can really accelerate and



#### It's harder to transform as a big business, as you're working with a lot of legacy technology





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#### CUSTOMER EXPERIENCE

### Humans or machines – which way for CX success?

Digital tech has enabled brands to engage with consumers in innovative ways during the Covid crisis, even removing the need for personal input in some cases. What innovations will stick once the pandemic is over?

can come into play. Sustainability and ethical consumption might be high on your list of priorities, for instance. Alternatively, low costs of a 2020 research report by Acquia, and short delivery times might be | Digital Experiences in Disruptive the winning factors for you.

has changed how we interact with digital experience with brands had brands, as we had no choice but to changed, with 43% of respondents go online for most things during the lockdowns. As companies have | did before the pandemic. necessarily responded to the influx of online shoppers over the past two years, consumers' relationships with brands and the retail experience have also evolved.

"Most brands realise that the Institute the pandemic has accelcustomer experience is part of the erated digitalisation in customer competitive landscape, so they need | and supply chain communications to adapt constantly to customers' by three to four years. changing expectations." So says Philip Graves, founder of the Shift consultancy and author of Consumerology: the truth about consumers and  $the\ psychology\ of\ shopping.$ 

"Tech has played a major role in

hen it comes to selecting | behaviour," he adds. "Shoppers the brands you support as don't want technological change but they are drawn to it for the psychological rewards if it brings a bet ter experience.

His view is backed by the findings Times. This revealed that 77% of However you feel, the pandemic UK consumers thought that their shopping more online than they

> The fact that 48% of organisations in the research said that they had created more content for customer engagement is revealing. According to a survey by the McKinsey

But what does a digitally transformed customer experience actually look like? Once you've found the item you've been looking for, clicked the 'Pav' button and received your order confirmation



Shoppers don't want technological change, but they are drawn to it for the psychological rewards if it brings a better experience

> "Perhaps the best answer would be 'nothing'." Graves suggests.

People return to a brand not necessarily because they like it, but quick and easy. He argues that, rather than developing a customer experience that people will actively that enable shoppers to move through their websites without too much thought. One-click ordering, saved payment details and retailer apps are key to making the cust-

requires little conscious effort from shoppers," Graves says.

Yet it takes a lot of effort and digital innovation to make users feel | having as personable experience as that their shopping experience is effortless. And, while most (if not be why they return. In a 2020 surall) brands focus on making it as vey by Zendesk, 57% of consumers easy as possible for customers to agreed that good customer service complete a purchase, that doesn't look the same for everyone.

Andy Hunter is the founder and bookstore that links thousands of readers around the globe. Soon because the purchasing process is after starting up in the US in early 2020, the company was forced to ing expectations when the pandemenjoy, brands want digital solutions | ic struck. The company has since expanded, with the launches of Bookshop UK and Bookshop Spain.

"Many of the stores we service had to lay off staff in April and May 2020. So, rather than outsourcing, we hired a team of these newly available booksellers," Hunter says. 'We've had to pay them more, but they offer book recommendations, contribute to social media and have because they are also book-lovers." The community-based model that

Bookshop.org has come to rely on has created a much better customer experience than the business would offer if it used algorithms for recommendations and an outsourced people are, which is getting harder third party to handle customer complaints, he argues.

"We call this the human touch," Hunter says, "We try to be as gener- trust. People generally prefer the ous as possible with our customers | familiar, even if they don't coneven if that isn't always the most sciously process that familiarity."

"Its familiar, frictionless nature | cost-effective route. In the long run, we're building loyalty." Creating a customer experience

where shoppers can feel they're they would if visiting a shop might was key to winning their lovalty. The ability to resolve complaints swiftly is another big win for a CEO of Bookshop.org, an online brand. An ongoing poll by Khoros reveals that, for 83% of consumers, independent book retailers with quality of service heavily influence es their purchasing decisions.

This raises the question of wheth er people expect more from brands adapt quickly to customers' chang- than they did. "The best thing a brand can do is give a customer the sense that you're reflecting their identity and that their identity is aligned with your brand's values, Hunter advises. "If you can tap into customers' aspirations and offer them an authentic experience, think you're in really good shape."

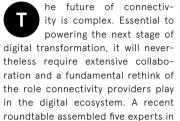
The desire to connect brands with onsumers through aspirations is not new. But technology and social media have made it easier for com potential shoppers, communicate their aims and outline how easy it is to use their products and services.

"Social media is about driving awareness and saliency." Graves says. "Brands need to go wherever because the media landscape has fragmented. Increased familiarity may generate a small element of

### How 5G and fibre are transforming the digital ecosystem

The latest in connectivity technology offers more than just a bigger pipe, it's the power partner to digital transformation

#### **Morag Cuddeford-Jones**



the connectivity space to share their thoughts on the challenge ahead. David Tomalin, group CTO, CityFibre,

explains that the only thing certain about the future is uncertainty. "Networks need to be based on quality, provide far higher reliability and have a level of intelligence that gives service providers and mobile operators insights to empower the customer experience. The experience that results from this can then be used to shape how we further develop our fibre networks and systems, enabling us to pretty quickly". continue to evolve and improve end customer experience over the next 15

to 20 years. Belinda Finch, CIO, Three UK doesn't mince her words. "I don't think people know exactly what 5G really means. With the right use cases, 5G could absolutely revolutionise where we are as a society. As long as we partner with the right people."

The telecommunications industry has not been noted for its spirit bigger pipe has to be an on-demand of collaboration and sharing to date. However, as Chris Holmes, director | that not just humans but machines of telecommunications. ServiceNow. notes, the times they are a-changing: | tivity," he adds. "The common theme at Mobile World Congress this year was ecosystems and how you bring relevant solutions. standards. It used to be a very closed

#### **Panel**

Azfar Aslam, CTO, Europe, Nokia

Belinda Finch. CIO, Three UK

Chris Holmes, Director of telecommunications ServiceNow

David Tomalin, Group CTO, CityFibre

Mirko Voltolini, VP innovation, Colf

he future of connectiv- I industry but the shift to opennes and partnerships is the key to unlocking the value across 5G and fibre."

This is also the opportunity for net work businesses to act as trusted advisors. "If we're not able to anticipate our customers' requirements in the digital ecosystem. A recent we are going to be left out. The reason we have to work proactively with these customers is because sometimes they don't know what they need," suggests Azfar Aslam, CTO, Europe, Nokia. "We can be most useful towards customers to help

est opportunity is in the B2B space, workforce, brought mainstream emerging segment that networks and mobile operators "need to solve for

Of course, the more complex th digital technologies that customers again, primarily enterprises - wish to engage with, the more critical 5G and fibre will become. Mirko Voltolini, VI nnovation, Colt, refers to mobile 5G and the fixed network as "the glue "Some enterprises are looking at leveraging technologies like artificia ntelligence, cloud, internet of things augmented and virtual reality. real-time pipe that you can contro can initiate and control that connect

The challenge is, of course, that organisations cannot simply wake up omorrow and forge a unified, brave That's through partnerships and new world together with a click of ecosystems but also through open their fingers. "Once we decided that we were going to make a commitment that would make a really big impact with some partners, it changed people's mentality - this is not a shor term thing," Aslam warns. "Let's go and learn what their objectives are what we have to offer today - and what we don't. The gaps lead to new product development.

The process of changing the approach of a whole sector, or indeed multiple sectors as partners join the new, intelligent connectivity ecosystem, may be a longer play. However, deploying those ecosystems on th ground has to become a much faster, more agile process, warns Finch "We need to make sure we have al reached the stage in our digital transformation where we can work with these partners quickly. We can't be



"How we make this pervasive across organisations is going to take time. Organisations [may] have thousands of employees, and this type of partnership approach needs to be tried across the whole business. We find it easier to work with partners that have shared values, are the same size and have complementary capabilities." Voltolini warns.

So, while we may be looking at the technology as the way to accelerate business transformation, in reality, it is a much more human challenge – being able to work together effectively – that will be the litmus test for success

"Particularly in our engagements with the industrial sector, trust

I don't think people know

where we are as a society

exactly what 5G really means.

could absolutely revolutionise

With the right use cases, 5G

trial automation cases, there are over 100 solutions that need to come together and no one party is likely to be an expert in all 100.

Tomalin reveals that the wide ecosystem CityFibre has already established relies on transparency from the top, "To build trust with our partners, we share data about network-related events via our ecosystem of APIs empowering them while demonstratng best in class principles." Voltolini points out that not every

cosystem will involve 100 entities. some may only have two. "Working with cloud providers has been a relatively easy way to bring together mostly just two parties together, driven by customer requirements." Providers need to be ready for almost anything.

Holmes claims service integrators (SIs) could come to play a vital role in building these ecosystems. An SI could ner loses their essential engagement with the process. Holmes notes that mobile operators, in particular, could be at risk, currently leading in only around a fifth of the current engagements where an ecosystem is in play.

Critically, Finch notes that the S has a vital role to play in facilitating a collaborative mindset. "You may not trust your competitor but having a trusted SI partner can bring that whole idea of collaboration togethe They're a really important partner."

end customer's needs, and all partners working together, it creates the best conditions for success for both provider and end user. Ultimately, this is where the battle will be won and lost. Tomalin insists: "We are so reliant on each other, we have to realise that service quality is a shared differentiator. To deliver exceptional service, we need to understand the

different expectations of our part-

With an ecosystem tailored to the

ners and their customers ' Holmes adds: "The best customer experience [comes from] providing the best employee experience ring them the best tools to do their iob." But, he warns: "With inaccurate data, incomplete inventory or a lack of transparency, we're just tying their ands behind their backs."

Finch concludes: "We all need to rust each other that we've got the customer at the heart of what we're doing. grow the value chain, as opposed to ust looking after number one

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TECHNOLOGY ADOPTION

### How to cut through the technology hype

Nearly all businesses like to think they're abreast of the latest developments in IT. But, as innovations proliferate at breakneck speed, it can be hard to make the right choices

Virginia Matthews

rom cloud computing and blockchain to the metaverse and machine learning, sifting through shiny new tech is a time-consuming business. How do vou decide if an emerging technology is a must for your organisation – and are there enough benefits to being an early adopter?

Migrating to the cloud took centre stage in the pandemic. For Sue innovation at trade association offering scalability and agility makes it the building block of any digital transformation

"Cloud computing is the digital foundation that allows all other techs to converge. In our view, moving your valuable assets over to the internet should be your top priority, whatever the size and nature of your business," she says.

When it comes to investigating the plethora of new digital innovations to use in the cloud, it's important that you don't allow clever new gizmos to become a distraction.

"However appealing a product or service appears, make sure that you know how it will achieve your objectives and fit with your existing tech infrastructure, because you may be wasting your money otherwise." Daley advises.

How to use data and analytics ing: the ability to capture, store, than at a remote data centre.

emerging tech under development Daley, director of technology and | will eventually be highly relevant for businesses. But, in the short techUK, the cloud's potential in term, investing in a system such as blockchains - digital ledger sys the internet of things - the term used for physical devices that connect via the web - may not offer any specific commercial advantages, unless it can be combined with something a business already uses, such as 3D printing.

> The much-hyped metaverse which enables businesses to digital equivalents of their physical products, offers a tantalising glimpse of our tech future. For now, though, many businesses are hampered by barriers as fundamental as poor

For these organisations, simply getting the basics right is far more | services remotely without being important than investing in advanced fingerprint mapping or augmented reality, according to repeated testing, organisations Martin McTague, national chair of that decide to trial an emerging the Federation of Small Businesses. | tech at a nascent stage can gain a

mobile connectivity.

"One in every three small busi software better is a key concern in nesses receives download speeds all industries. It could be well of less than 10Mbps, while close to worth investigating edge comput- half are affected by poor mobile connectivity," he says, "With the process and analyse data locally or cost of doing business soaring at the 'edge' of the network, rather | they should look closely at where new technology can add meaning It's likely that 5G, biometrics. ful value, rather than trying to star machine learning and all the other | ahead of the curve for the sake of it There's no use trying to run before

> vou can walk." When it comes to tech such a ems initially used for cryptocurrency transactions – businesse should look closely at the potential benefits and costs to determine whether any investment in them would add value in the short term.

> With most SMEs viewing cyber crime as a constant threat to their always be a high priority.

"When widening their use of tech, it's vital that small firms en sure that their staff can work safely from home without the threat of network breaches, while ensuring that customers can receive their compromised," McTague says.

With adequate preparation and

tech matures. But it is important to caused by gremlins in the machine review the organisation's existing processes and skills before doing a pioneer can turn sour quickly if so. Where possible, the business should identify an individual or a negative experience. team with sufficient IT knowledge to guide the initiative.

Ensuring that the new solution will be welcomed by your staff and lines the risks that early adopters not resented is another vital part of

"If you are satisfied that you possess the resources to steer it successfully through a trial, it's probably worth going ahead, as oeing an early adopter can give you knowledge and understanding," Daley says. "In order to give the technology a fair chance, though, you need to have your data in an lower prices once its teething probappropriate format and a digital framework that can support the great cost to the early movers. tech and demonstrate its ability to increase efficiency and improve tite for risk and digital maturity the lives of your staff."

as Tesla founder Elon Musk have amply demonstrated, an early sider is the likelihood that there presence in a market attracts the will be strong internal resistance lovalty of customers and employ- to change. For Hartgers, convertees and garners great publicity. But the risks of being an early adopter | more positive and pioneering one are equally clear. As technologies | may be the most vital step of all in

competitive edge as and when the | likelihood of reputational damage increases. The good PR enjoyed by early users of its new offering have

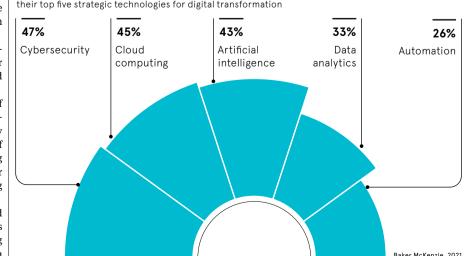
> Stephan Hartgers, vice-president of digital strategy at tech consultancy Mobiquity Europe, underare taking on. "With more users, technologies develop, the early mover advantage can quickly become a disadvantage when later movers produce new and improved versions of the original product."

Firms that come later to a technology also tend to benefit from lems have been solved, usually at

An organisation's overall appe should help it to decide whether As world-class innovators such | being an early adopter is a smart move. Another key factor to coning a technophobic culture into a become ever more complex, the a digital transformation.

#### WHICH TECH WILL ACTUALLY MAKE A DIFFERENCE?

Percentage of global digital leaders who class the following among



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PROJECT MANAGEMENT

### Turning divergence into digital allegiance

Is it time for leaders to treat failure as an opportunity to learn and factor it into change programmes so that success is assured more quickly?

Michelle Perry

formation over the next few years, demic to adopt remote working in how to get it right first time is at the forefront of many business leaders' minds. It has been widely observed have fallen short of their goals.

Global spending on digital trans-Spending Guide. Yet research by tions of employees and customers. McKinsey suggests that most profailing to learn lessons?

iven that the private sector | digital transformation projects in is set to spend trillions of uncomfortable haste as much of pounds on digital trans- the world was forced by the panearly 2020.

Any change attempted in a rush is inevitably a higher-risk undertakthat most such projects to date ing. And digital transformation projects have potentially even higher risks because of the dazformations is on track to exceed zling array of new technologies £2.1tn in 2025, according to the available, the urgent commercial International Data Corporation's need to reconfigure amid the pan-Worldwide Digital Transformation | demic and the changing expecta-

The myriad technologies that jects to digitally remodel businesses have become available to transform end in failure. Why are companies processes can bamboozle executives with their promises of revolu-One of the first reasons could be | tionary change. A common error is that all organisations had to accellinvesting in technology for technoerate, or in many cases start, their | logy's sake without understanding

its alignment with the overall strategy. But experts in the field agree that digital transformation is rarely about the technology. It's far more about people and business models.

"People focus on the tools, not the business model that sits behind them. This can be a distraction." observes Matt Spry, founder of tech consultancy Emergent, "The bigger questions concern how to use a tool valuably, whether it will add value and whether customers will gain

Take a seemingly simple example of a planned outcome of a larger digital transformation that will affect employees every working day: hot-desking. The fundamentals of the concept are clear - new tech unchains people from a sedentary working life and can cut the costs of office space. But evidence shows that, unless leaders engage the people it affects and under stand their behaviour, hot-desking will fail – as it has repeatedly done

and waste a lot of money. "The leadership team should be anticipating resistance, because it will happen," says Laurence Parkes, CEO of digital experience agency Rufus Leonard. "Leaders must listen to, and empathise with, both vocal detractors and insidious detractors, who are more of a danger."

The reasons for failure are varied

clear, experts say. The typical causes of failure in digital transformations include a weakly formulated vision and/or strategy; a lack of experience at senior leadership level: inadequate cross-functional collaboration: lacklustre communication; poor employee engagement; and weak implementation.

"A lack of engagement and adoption by employees and other key stakeholders is arguably the single biggest reason for the failure of technology transformations," says Nadim Ahmad, founder of transfor mation consultancy Clyde Moray.

When the prospect of missing the goal arises, instead of ploughing on and fudging problems, leadership teams should pause the project and take stock, he advises.

"My starting point as a leader would be to consider the accuracy of my assessment of where the organisation has got to on its journey. Ahmad suggests. "Review status



People focus on the tools, not the business model that sits behind and multifaceted but abundantly | them. This can be a distraction

reports and governance meeting notes to highlight some of the failure points.'

A review of schedules, budgets, contingency funds, the original business case and its scope should all be conducted at this point, experts say. Scope creep, for instance, can scupper the best-laid plans.

At this point, commissioning an assessment by a third party may be a way to avoid internal politicking. But this could also raise the issue of whether the leadership team failed to appoint the right people at the start - and it's often difficult to acknowledge mistakes, especially if failure is not an option.

"The other thing that I would look at to get back on track is to ensure that the project reporting and frequency is accurate," Ahmad says. "Make sure that you are continuously reporting - and continuously intervene when you start to see problems arising,"

The project's governance framework is also critical to correcting errors. If the steering committee doesn't feature senior decisionmakers who can help solve some of the problems that a delivery team tends to face, the project managers may struggle to get back on track.

Other experts suggest that 'a space to fail' should be factored into any change programme.

Jenny Burns, CEO of innovation consultancy Fluxx, says: "A lot of organisations try to tackle the whole thing in one go and make commitments to investors about milestones on a quarterly basis. The best way is to test and iterate and then scale up. Quite often, we see businesses without the mindset to be able to make mistakes, learn from them and move on."

A better starting point, Burns says, is to talk about a sequence of events, indicating how the budget will be drawn down at specific times to manage risks and investments based on evidence rather than assumptions.

"People are not learning from their organisations' own mistakes. On top of that, they've vet to gain the changes. Alternative storytellthe strength and confidence to ing methods will also showcase a learn from other players in the company's approach to inclusivity, same industry, or even outside the industry," she says.

Another option to correct the course of action is to revamp the lack of storytelling in businesses," communication strategy. Weekly email updates might not be the approach means that you can talk best communication channel nowadays, given that there are so many | what you're going to move forward different channels available.

that change is being forced upon them, they may struggle to embrace it," Spry warns.

Some good old-fashioned analogue communication methods are common and people are generstill work, though. Weekly 'town ally resistant to change. Unless hall' meetings, where the whole project team, rather than just a single executive, can field questions | to fail, the coming decade of digital from the workforce can be highly | transformation may prove a tumuleffective, for instance.

"Communication is essential," Parkes stresses. "Reflecting on the | the learning process is something praising people who have enabled | build their resilience. Isn't it time change and preparing everyone for that the grown-ups learnt this lesthe next wave of possibilities will son too? Small steps, done well, can also help get things back on track." lead to big changes.

#### LEARNING LESSONS FOR THE FUTURE

Percentage of global digital leaders who say who said that the following nterventions would have made their firms' digital transformations

specialising in compliance and ta

Development of a clear

Baker McKenzie, 2021

Short videos instead of multipage documents can also help people to visualise and understand because not everyone absorbs information the same way.

"A pitfall we've noticed a lot is a Burns says. "The test-learn-iterate about what you've learnt as you go, with or what you've 'parked'. Lead-"If employees and customers feel | ers often tell that story once and think that this is enough, whereas the process needs to be repeated."

Change inevitably takes longer than expected. Budget overruns business leaders start to learn from others' mistakes and provide space tuous and expensive one.

Acknowledging failure as part of progress you've collectively made, that we drill into our children to

### Defining the next decade of digital transformation

It is 10 years since digital transformation went mainstream, but with the term still creating confusion Palladium COO Mark Lewis explores what companies need to know to benefit over the next decade



edging 2012 as the year it entered the mainstream technology lexicon.

Since then, millions of global bus nesses have begun their digital transformation journey but, even 10 years on, much misunderstanding remains over what it means.

To clear up that confusion, we explore what digital transformation signifies in 2022 and where it goes next.

Digital and technology are now pervasive, touching both our personal and working lives in wavs - and through tools - that didn't exist a decade ago.

This means digital transformation can only succeed if it is designed with a foundational acceptance that it exists within a sphere of constant change.

Done right, it brings benefits, whether through increasing automation or adding greater levels of data and insights for critical decision-making.

However, too many still attempt digital transformation for short-term pain relief or boardroom 'theatre'. Too much money is wasted on siloed projects, to tick a box, and these make little impact as a result. Digital transformation must be

embedded at the core of a company's



Digital transformation must be embedded at the core of a company's culture, becoming a habit that's part of the DNA and personality

culture, becoming a habit that's part of the DNA and personality, rather than a oint in time to solve immediate issues Everyone from the CEO to the hop floor needs to be comfortable vith change; what some call VUCA volatility, uncertainty, complexity and ambiguity).

To keep pace with the market, com panies must work constantly and consistently to identify their next transformation and where their next change is coming from.

It's not about how much money you spend or how many experts you have. t starts and ends with accepting we must live with constant change

Now that we are all aware of th mportance of the user experience. and the amount of technology used at home and in the workplace, digital transformation has to meet a higher benchmark of standards

Many companies start a trans formation only to watch it stall Sometimes they become scared and uncomfortable with change internally, or, at other times, find it wa poorly planned and delivered.

recently read a good example of this in *Digital Darwinism* by Tom Goodwin. Many airlines continue to upgrade tiny screens in their seatbacks when instead they could pro vide strong in-flight WiFi for passengers to stream on their own tablet

That would be a more focused sharper and smarter way to dig tally transform and would be based on user experience, rather that legacy thinking.

If you don't have the right digital transformation plans, mindset and culture, it will prevent you from attracting the best talent. Today's digital natives will demand this; it is often more important to them thar higher pay

And digital transformation is just as important for retention.

As part of due diligence, Palladium identifies red flags within companies. One of those flags is toil, which is the evel at which employees begin to be lisincentivised. This can be avoided ov automating repetitive tasks interally, in turn increasing productivity and profit

RACONTEUR.NET — (7)—27

Adopting ideals such as low-code can also upskill existing talent by democraising the best technological tools.

Whatever stage of maturity a company is at with digital transformation, all that matters is staying focused on a mindset that accepts and celebrates constant change and knows now and when to respond to it.

This means not jumping on every craze, bandwagon or app that comes long, while dismissing old-style cognitive biases such as loss aversion and he sunk-cost fallacy.

This is not a one and done investment r project. Agile thinking must instead harness constant evaluation, shorter eedback loops and faster course cor rection – delivering on two-week horions, rather than two months

Yes, you might have sweated time, effort, and money to transform, only to learn that next week you've got to do it again. But unless you're a com pany that sees this as a benefit of eed in the longer term

Palladium supports private equity investors and their portfolio usinesses to define, design and implement digital capabilities. It provides digital and technology due diligence and digital transformation services across Europe and the US. palladiumdigital.co.uk

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