

The Connected Business

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Board can struggle with data puzzle

Paul Taylor says business leaders are trying to understand how IT can cut costs but also help functions be more effective

Like the companies they run, most corporate executives and senior managers have seen their roles in the business altered, if not transformed, by IT over the past few decades.

In many companies, the chief executive and leaders of core business functions such as finance, human resources, sales and marketing and sometimes the chief information officer, meet regularly as an executive board.

But, as Gartner consultants point out, that does not always mean they pull together as a team on issues including the use and deployment of technology.

Many factors can affect what Gartner calls "the dynamics across the table". For example, only about 38 per cent of CIOs report directly to the chief executive.

"There is more than one successful model for an enterprise," says Val Sribar of Gartner, "but we have generally seen a maturation process of the dynamics across the table."

Initially he says, individual business leaders tend to think in "silo terms" but then business function leaders start to pair up or organise themselves into small groups and work across silos. "The most advanced organisations really do have a set of things that are done collaboratively all the way round the table." Often they are spurred on by a chief executive with a wider vision.

Among the more common pairings are the head of sales and the marketing manager who co-operate to achieve a particular objective, for example to ensure that marketing does a

better job handling leads to sales.

Similarly, there is often a natural affinity between the head of procurement and the chief financial officer who want to know what money is being spent on and who the biggest suppliers are, or between the head of customer service and either the heads of sales or marketing or maybe all three.

Liz Miller, a vice-president of the US-based CMO (chief marketing officer) Council, adds that another natural pairing is between the chief marketing officer and the CIO. "There is a great opportunity for companies to increase revenue if CMOs and CIOs partner using digital marketing to improve their focus on the customer," she says.

The Gartner consultants have identified three specific scenarios that can help drive co-operation between business leaders.

First, the introduction of a product or service. This can sometimes drive sales, marketing and the head of manufacturing to work together to get a product to market. Second, mergers and acquisitions often spur co-operation as does the decision to enter a market.

"If a company makes the decision to go into a new geographic market like China, the whole of the top table really needs to be on the same page," says Mr Sribar.

Another way of looking at the development of an organisation and the relationships of the senior management team is to look at the use of information and how they make decisions.

Initially each business function leader turns up at the executive meeting with their own set of spreadsheets and anecdotes, and 90 per cent of the time at the table is spent arguing over who has the most accurate set of numbers or the more compelling set of anecdotes.

"They literally fight about what the real information is," says Mr Sribar.

At the next level of maturity, the executive board agrees one



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'The use of technology is very different depending on what level of maturity the company is at'

executive should be responsible for collecting each data set, for example sales or customer information.

"Then, instead of 90 per cent of the conversation at the executive level being a fight about what the information is and which anecdote is valid, it moves on to a discussion about what the information says."

After that, the executive board typically begins to spend

more time discussing what they are going to do with the information and then assessing whether their actions worked. "The use of technology is very different depending on what level of maturity the company is at," says Mr Sribar.

"At the top level companies are trying to be more predictive... they are not just trying to be smarter about how they deal with information and make decisions, but they actually want to drive the changes and outcomes."

But the consultants also warn, "business leaders really struggle when it comes to connecting the information side of the puzzle and things like decision making with the profit side of the puzzle and things like outcomes."

One of the problems facing business leaders is that the information systems installed over the past 30 years have led to a "data deluge." To help them sift through this data, IT departments have introduced another layer of technology usually under the banner of "BI" or

business intelligence over the past 15 or 20 years.

"What you see is business leaders in meetings holding some of these spreadsheets and reports up to the light and saying 'I wish we could see the patterns in this stuff'," says Gartner. "All of these guys would like to have a better forward looking view and be able to predict what is going to happen both in their own functions and across the table."

Gartner also argues "dynamics across the table" lead to strikingly different ways of getting value from technology. For example, most executives want to reduce costs by adding self-service capabilities for employees and by creating communities where customers help each other – a move they say enables companies to effectively "add people to customer support without paying a dime."

Alexander Drobik of Gartner argues companies have also shifted their IT focus over time. "IT used to be very much aimed at efficiency, reducing costs,

accelerating processes and taking people out. What has happened in the past five to 10 years is that technology has moved into front office functions – the things that impact HR, finance, sales and marketing and so on."

Today he says business leaders are trying to understand how IT can take further costs out, but they also want to use information they have access to, and the technologies that they and their customers and suppliers have, to run their functions more effectively.

A lot of IT in the past 30 years has been about efficiency gains, but suddenly business leaders see a new set of IT capabilities becoming available that enable them to become more effective.

For example the HR director can now use IT systems not just for benefits and payroll, but for talent management and recruitment. "You see this duality between efficiency and effectiveness for everyone around the table," says Mr Drobik. But he also has a warning for

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Digital digest

The latest corporate technology news

Retailers test new ways of selling

Sales & distribution

Extensive planning is essential to plunging into the multi-channel world. **Michael Dempsey** reports

The retail industry has one big advantage when it comes to judging new technology. It has been here before – in the late 1990s dotcom frenzy. Witnessing assorted dotcoms plunging into the chasm between rash promises and the hard challenge of delivering to customers was a salutary experience.

Figleaves.com began selling lingerie at the peak of the dotcom hysteria in 1999. Today the business ships goods worth £23m to 146 countries and the past two years have seen Figleaves breaking online commerce taboos. It now prints 1.2m copies of a catalogue each year. And it has a bricks and mortar incarnation as a small branded presence in two UK department stores, with other store chains including its designs on their racks.

What gave rise to this strategy? Julia Reynolds, Figleaves' chief executive, describes how the example of a plethora of lingerie websites forced her to reconsider the business model. "Our competitors all had websites, so where was our unique selling proposition? We started to design our own products rather than just selling other people's brands and we looked at our channels."

Ms Reynolds sees physical outlets and the catalogue as essential brand promotion. "We're not moving off the internet, but we want to get our brand out more."

"M-commerce" – sales and marketing via mobile devices – has come of age with the arrival of "smarter" phones with better screens. United, the gigantic carrier formed by the

\$3.2bn merger of United Airlines and Continental Airlines, has embraced m-commerce and put ticket data into an electronic bar code acceptable for security scanning on US internal flights.

Ash Bagchi manages voice technology at United's Chicago headquarters. He cites the hurdles the mobile channel has had to overcome. "Five years ago, people had the phones but the lack of mobile browsers, the limitations of bandwidth, the coverage gaps and standards of mobile websites all conspired to restrain this technology. In the past two years things have changed."

The technology may have matured, but for Mr Bagchi one rule cannot be ignored. "There is always scope for things to go wrong. What if there's a lack of connectivity before a flight? What if phone batteries are flat? There has to be a kiosk to print off the ticket."

Practical thinking allied to extensive testing is essential if any business is going to take the plunge into a multi-channel sales model.

The Mobile Marketing Association (MMA) is a global body for what it calls the "mobile channel ecosystem". European managing director Paul Berney points out, "People use mobile sites in a different way from the normal internet. People don't browse in the same way they would at home. The information has to be relevant to the context of the user, to be linked to their location or time frame. A lot of mobile internet searches are for taxis or food."

Mr Berney compares mobile data consumption with snacking, "it's not a full meal", and urges businesses launching into m-commerce to imagine potential users glancing at their offering in a bus queue. The mobile relationship is brief and casual.

Argos is a UK retailer with a distinctive business model entailing catalogues and no-frills stores where cus-



Delivery options: Argos lorry en route

tomers choose, pay, receive a ticket and then wait to pick up low-price home and electrical goods that arrive by conveyor belt from the rear of the premises. With 700 stores, Argos has learnt to combine emerging technologies with this somewhat unusual sales and distribution method.

Internet transactions account for 32 per cent of sales but customers can research and reserve a product online, receive order information via text, and travel to the shop to pick it up.

Working with mobile marketing group Velti, Argos has expanded its text service to allow customers to search its catalogue over mobile phones.

An Argos app for the iPhone was launched in May 2010, attracting 500,000 downloads in three weeks.

Software house Shult links online orders with a database of vehicles and stock. This works out the best delivery option and flashes a quote for home delivery to the customer. Argos is trialling this system in London.

Where does this technology partnering leave Argos? The company remains focused on its core proposition of immediate collection from its shops and rapid replenishment of stock. David Tarbuck, head of multi-channel development, has no illusions about the need for technology to bend to the desires of his customers.

"The Argos experience is that customers will mix and match channels to suit themselves. There is no such thing as the 'multi-channel' customer, only customers who choose to shop in multiple channels."

A trip with a tablet can be like travelling with a donkey



Alan Cane
PERSPECTIVES

Had Robert Louis Stevenson been alive today he might – as a writer and with the advantages of modern transport – have eschewed Travels with a Donkey in favour of Travels with an iPad. Both have advantages and disadvantages as travelling companions. Both can be sources of serious frustration: donkeys when they refuse to budge; iPads when they refuse to connect to a network. Donkeys, however, can be encouraged to progress by a combination, as Stevenson learnt, of stick and carrot. But without the right WiFi password or an appropriate subscriber identity module (sim) to latch on to a 3G network, Apple's piece of electronic wizardry can be singularly donkey-like in its refusal to do its user's bidding.

Travelling in France recently, I found no shortage of internet cafés providing free and secure WiFi: but it took some time to realise that if the café changed its password daily, it was necessary to instruct the iPad to forget its previous affiliation to the network before it could be persuaded to accept the new password – nothing about that in the manual. But where there is no WiFi, the iPad connects, iPhone-like, to a 3G network. Mine, however, did not. The iPhone worked perfectly but the iPad stoically flagged "no service".

Only once back in the UK did I discover there are no roaming agreements between operators in Europe for the iPad yet: I would have had to buy a French sim for the device to work. Oh, and I

discovered that in any case the UK sim had been wrongly installed, almost certainly by me. Correctly inserted, the iPad worked a treat.

These are just some of the hazards consumers resign themselves to accepting when they grapple with new technology. Business users, on the other hand, can usually count on the assistance of their help desks if there are problems with corporate IT.

There is, however, a long history of business people using unauthorised computer equipment, usually purchased by themselves, of which the iPad is just the latest example.

The falling cost of hardware and technical progress means this equipment may be better than anything provided in the office.

Industry experts agree the next phase in the development of the tablet market will be in the business arena

Industry experts agree that the next phase in the development of the computer "tablet" market will be in the business arena as executives insist on using their machines regardless of objections from the data processing department.

The iPad will soon face competition from more than a dozen tablets. Research in Motion's PlayBook and a machine from Hewlett-Packard based on technology from Palm (which HP bought this year for just over \$1bn) may be the most significant participants in the business market.

Observers reckon the HP tablet will be based on Palm's webOS operating system and, like the next generation iPad, will include features such as a built-in camera. HP,

CIOs who talk technology rather than business strategy.

"CEOs care very little about the 'cloud' or virtualisation or web 2.0... its not a message they understand. They want to understand what technology is available that could help them run their business in a more effective way."

"To a CEO, the cloud is something the CIO should sort out and figure out how it can help."

"CEOs don't generally wake up in the morning and say, 'I have a problem retaining customers, so must go cloud.' They will say, 'I have a big problem retaining customers, what do I know about why customers are leaving? What analytics do I have and what is my marketing guy doing for me?'"

For many business leaders, IT remains a mysterious "black box".

But what everyone agrees on, is that business functions and IT are now totally intertwined and that IT vendors and CIOs need to step up to the new challenges.

Smart systems are vital in volatile markets

Finance

Treasury management must also be backed up by good processes and company support, says Charles Batchelor

Computers have transformed the number-crunching aspects of the finance director's job in recent years. In today's volatile markets, the ability to provide accurate and timely information on the state of the business and its finances is even more vital for survival.

"Transaction processing is not the most engaging part of finance," says Andrew Meade, head of finance and performance management for consultancy Accenture in the UK and Ireland. "But it is a fundamental process so the company can pay its vendors and collect its cash. The fact that modern accounting systems do what they do so well at speed allows the chief financial officer to focus energy on other things."

Before the development of accounting or treasury management systems it could take a

company months to close its books on a reporting period. It can now complete the process in two to three days.

Manually recorded data were also more susceptible to error with the result that resources might not be deployed to greatest effect and planning assumptions could be compromised.

Accounting systems began to emerge in the late 1980s when company treasurers started to realise the potential of the software. "There were the big systems that the banks used but there was nothing for corporates to use apart from spreadsheet sheets," explains Ken Lillie, founder of Lillie Associates.

"Treasurers decided to write their own. They concentrated on managing risk and cash but these became very powerful systems with a lot of experience built into them."

Some companies continue to use proprietary systems but most make use of the accounting functions available in enterprise resource planning software provided by the likes of SAP or Oracle. Other leading providers include SunGard and Wall Street Systems but there is a host of smaller ones.

For some smaller companies a cash management facility pro-

vided by their bank is adequate.

Finance and treasury heads can opt to install internal systems with varying degrees of customisation to their needs or sign up for what is known as "software as a service" - SaaS - which makes the product available on demand over the web and avoids the need to install and maintain the system in-house.

The move from the manual collection of data to computers has relieved finance departments of a considerable burden but it is only a means to an end.

'Finance needs to be a ruthlessly efficient transaction engine'

"Finance needs to be a ruthlessly efficient transaction engine that provides the capacity and the time to focus on the commercial decision-making," says Mr Meade.

"These systems allow you to run the analytics in real time and be more scientific about where your business and your customers are heading."

But treasury management systems do not function in a vac-

uum, he warns. They need to be backed up by the right processes, systems, policies and organisational support.

The in-house accounting management system will have a lot of interfaces with outside systems run by the company's banks, suppliers and customers. In choosing a system, the finance director and treasurer need to be certain that it will allow seamless links with these outside organisations. Staff will need to be trained.

And glitches can occur with even the best products. Something as simple as the different financial terminology used in various accounting jurisdictions can cause confusion. "You don't want to have to guess what something means because the financial language is different," says Mr Meade. "If everyone is not using the system in the same way, speed of aggregation and transparency are reduced."

Systems that have been in place for some time can start to show their age.

"Many treasurers still use systems that were initially sound but, over the course of time and with the increased demands now placed on them, many are now being found wanting," Mr Lillie wrote

in The Treasurer magazine.

"Workarounds may have been implemented in the form of home-built extras or the acquisition of third-party systems, perhaps on a piecemeal basis and without proper integration or planning."

Mr Lillie advises finance directors to review their technology every three to five years both to check it is still performing well and to assess what has come on to the market since. "People tend to think: 'If it's not broke, don't fix it.' But it is good discipline to review the technology on a regular basis."

The credit crunch and subsequent financial turmoil have put a premium on companies managing their money in an effective and timely manner.

Counterparty risk has become a concern for finance directors in the wake of the collapse of Lehman Brothers. This makes accounting systems that track a company's exposure to individual banks even more important.

More volatile markets mean finance directors must keep an even closer eye on their exposure to the foreign exchanges, interest rates and the derivatives they use to hedge exposure. "Instability is the new normal," says Mr Meade.



Useful cuts – to wasted time and materials

Supply chain

Ed Hammond looks at how companies are using IT to work more efficiently

In a dusty warehouse on the outskirts of Birmingham the future of British housing is taking on a new shape.

Tucked away between one of the country's busiest motorways and derelict buildings of abandoned industrial estates, the Space4 factory, owned and managed by Persimmon Homes, the UK's largest volume housebuilder, is churning out a home every hour using production line techniques more familiar to the automotive industry.

While workers load the machines and cart around the finished panels of timber frame walls – which will be carefully slotted together to make kitchens, bedrooms and bathrooms at sites across the UK – computers drive the process.

This kind of IT-driven approach to both the supply chain and delivery of goods is an integral part of how industrial companies are using computers to streamline their operations.

Jeff Fairburn, chief execu-

Jeff Fairburn:
"We can alter production output much faster than in the past"

tive of Persimmon's North UK division, says the "Just In Time" system, whereby the factory can adjust its rate of production in line with the demands of the housing market it supplies, is possible only because of sophisticated IT.

"We have a programming system that we review on a week by week basis, so we know what are the demands at the other end. It means we can react much faster and change production output much faster than we could in the past," says Mr Fairburn.

When Persimmon took over the former double glazing factory in 2005, it assembled a workforce of former car-plant employees. The company also picked up some tricks from the automotive sector, particularly when it comes to minimising waste.

"Having the IT systems used to operate a factory environment means we have minimal wastage," explains Mr Fairburn.

"Computers tell us exactly which materials we are using and in what quantities, so we are able to restock the right amounts to match what is going out of the door and off to site."

As important as advancements in technology are for the building process, com-

puters are having the greatest impact in managing the flow of materials and workers to and from sites.

When plans were being laid out for the construction of the 2012 Olympic park, one of the big concerns was how to manage the hundreds of trucks carrying everything from untreated rubble to seats for the 80,000 capacity stadium.

The fear was that, during peak delivery times, trucks would be queueing to get on site, causing traffic jams, pollution and noise in the corner of east London that is staging the event.

However, IT provided a solution.

Trucks heading for the building site are checked into a computer system once they cross the M25 – the motorway encircling the city – and this then staggers their arrival.

A few miles up the road, Cemex, one of the world's largest cement producers, uses E-pod computer readers at the lorry terminal of its new grinding and blending plant at Tilbury dockside. The system tells the drivers where and to whom they are taking the product.

On a smaller scale too, IT systems are making a big difference to the way industrial groups are working and, especially during the recession, helping businesses trim costs and gain an edge over competitors.

"Having the right technology and being able to use it to the good effect is the difference between success and failure in this market," says Chris Durkin, chief executive of Willmott Dixon Support Services.

Mr Durkin's company, which is part of a larger construction and civil engineering business, runs repair and maintenance work on 110,000 social homes in the UK and 12,000 offices. It directly employs a large workforce, rather than subcontracting labour and so has a high fixed cost base to support.

To help it offset the fall in demand for building work – which last year declined at the fastest pace since the 1970s – and keep its workforce utilised, Willmott Dixon has implemented systems to drive down costs and squeeze the highest profit margin out of the contracts it is still winning.

"When you have a large, directly employed, mobile workforce, optimisation of their time is the single most important thing," explains Mr Durkin.

Last year Willmott Dixon adopted a vehicle management system that allows it to direct each worker to a job and cut out transport wastage.

This has reduced fuel bills by 30 per cent, a saving of about £30,000 per month.

"It is little things like this, where computers have really helped us save money and time on the ground," Mr Durkin says.

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