Digital Business

If you can't measure your footprint, you can't shrink it

Most CO. emissions are not from IT and it is hard to monitor them effectively, writes Stephen Pritchard

So far, IT's highest profile green as collaboration and video conferencing.

Far less attention has been paid to processing, manufacturity at IBM Consulting. ing and distribution of the goods companies produce, which usually make the biggest contribuand energy bills.

sultants, come directly from activity at the board level. data centres.

IT initiatives can have only a limited impact on companies' total carbon footprints.

The challenge for most enterprises is measurement: IBM, for example, estimates that only 19 per cent of organisations measure their footprints more often [use] and other forms of waste. than once a month.

"Green IT is important to organisations with large data centres, but the real value is in efforts have been in areas such looking at that other 95 to 98 per cent of the organisation," says Eric Riddleberger, global leader for corporate social responsibil-

Tackling carbon footprints across an enterprise involves first monitoring and measuretion to their carbon footprints ment, and then taking steps to improve business processes so Although estimates vary, it is they are greener. IT is, of thought that between 95 and 98 course, very good at processing per cent of business's CO2 emis- large amounts of data quickly. sions are from non-IT activities. It might also be that the CIO. Just 0.4 per cent of global with his or her knowledge of human emissions, according to data management and process-

"We think of this as 'resource

nology practice in North Amer- Potentially, managers could fessional services firm. "Clients are looking at energy usage and materials consumption and tying that back to fossil fuel

"There is a tremendous amount of effort going into how you measure that, and to business decisions you need to make, based on it. Vendors, for their part, are developing carbon management systems that form a bridge between systems, energy consumption, and financial decision making," he says.

IT could go further still, providing "green" data to enterprise resource planning (ERP) and business intelligence systems. Increasingly, process and manufacturing systems have built-in sensors that can monitor efficiency, energy use and even temperature in real time.

That data can be combined McKinsey, the management coning, can drive such monitoring with information on the company's pricing, stock levels and environmental policies to give So while being laudable, green efficient activity'," says Joe management a view of whether

business to operate outside its environmental parameters.

There are significant barriers purpose ERP systems are not yet geared up to handle CO2 environmental variable as

Green 'not priority'

How is TAL Apparel, a clothing manufacturer with 10 factories in east Asia employing 33,000 people, and lengthy supply chains throughout the US, tackling environmental issues?

"Green IT is not top of the list for us," says Delman Lee, director of operations and technology. "It's not our top contribution to CO2. The bigger problem to tackle is people."

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Muscat, leader of the clean tech- they are meeting CO₂ targets, part of their core business logic, process, and distribution, use according to the footprint of This might come, but extend-

ica at Ernst & Young, the pro- even be advised not to produce ing such systems via specific carbon footprint of transportaan item, if doing so caused the monitoring applications or even general purpose middleware might be a quicker and more flexible route. Businesses will to achieving this. General also need to overcome the often officer at SAP, the business softdeliberate separation between production management sysemissions data or any other tems and general, back office IT.

Production managers will need to be convinced that such tice... the point is not to underconnections will not put day-today operations at risk, although manufacturing and process equipment makers have already moved some way towards pro- to energy consumption or viding safe and reliable links to another benchmark. Then you back office IT systems, and can start to ask questions." there is no reason these links cannot be used for CO2 monitor- tially at least, businesses will ing as well.

made, however, the best most mandates. This could happen organisations will be able within a few years. Carbon tradto do is to estimate their operating systems are already set to tional carbon footprints: exact be mandatory for larger busicalculation could be impossible nesses in the UK and a number est way for companies to reduce without sophisticated means of other countries. of assessment across the bill of materials, the manufacturing forced to analyse their energy servation lowering bills.

"If you take into account the tion, is it still worth producing in different locations? The impli-

cations can be huge." warns Peter Graf, chief sustainability

ware company.

"Companies also need to compare how their plants are doing. so they can improve best pracstand energy consumption on one machine, but the aggregate consumption across that production line, and bringing that back

Observers suggest that, iniintroduce detailed carbon moni-Unless these links are toring because of government

their supplies - renewables and fossil fuels - and account for the use of toxic or precious materials, and even water, in their processes

In other cases, though, a recovery in global oil prices, and rising electricity bills generally, will force a rethink.

"If you cannot measure your carbon footprint, you cannot change it," cautions Steve Nunn, head of global infrastructure consulting at Accenture, the IT consultants. "Organisations need to become more surgical about measuring energy consumption and their CO2 emissions.

In time, initiatives such as smarter manufacturing and newer building management systems will help companies reduce their footprints, Mr Nunn says.

But in the short term, measuring energy use will be the easitheir carbon footprints, with the Companies might also be added advantage of energy con-