TechInformed

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Special Report: Green Enterprise Tech

Part 1:

What will it look at?

As environmental, social and governance (ESG) principles become increasingly tied to corporate reputation, how can enterprises mobilise digital technologies to tackle climate change - both in terms of the development of 'greener' digital systems and their application to measure and reduce carbon emissions?

Why now?

Firms should be galvanized after COP27 in November; many larger companies in the UK are already obliged to report their greenhouse gas emissions annually and, two new EU directives on the horizon will compel thousands of firms with an EU presence to provide more detailed information.

More granular, accurate and more frequent reporting is being called for. We look at what firms of all sizes are doing. Nobody wants to be accused of under reporting their carbon emissions or greenwashing… but how can they obtain and manage more accurate data and improve their processes and practices?

Overview of green enterprise IT

A deep dive into the technologies and services that are out there that are supporting firms with their sustainability goals.

How much are enterprises investing in green IT globally? How much is the market worth? Who are the main players and why are there so many start ups involved in this burgeoning sector? How are most of these products typically being sold: pay-as-you-go as-a-service? Licensing? Out of the box hardware? Or is it more about tech consultancy and the way products are configured? How much of it is open source/ free?

What makes a product 'green' and how can you verify whether the product you are buying is as sustainable as the vendors claim?

The scope of this report covers <u>digital</u> technologies that are transforming companies' move to net zero rather than the engineering, chemical or mechanical aspects involved in green transformation (so NOT EV, Lithium batteries hydrogen fuel or carbon capture). We want to look at what firms both big and small can do right now their digital stack to reduce their carbon footprint.

Technologies within this digital ecosystem include Digital Twins; sensors and tracking devices; carbon reporting platforms; energy efficiency-measuring software; Green APIs; The role of blockchain in renewable energy certificates and carbon reporting in the supply chain.

We will also look at data services and cloud services that are providing the backbone to this digital innovation – for example, what is being done to make data centres more sustainable? And how are cloud providers - usually held up as the greener alternative becoming greener? Blockchain and Digital Twins can also be energy intensive – what can be done to mitigate their carbon impact?

And in a circular economy what can IT Asset Disposition (ITAD) services and waste analytic companies offer in terms of managing the tracking and disposal and recycling of digital waste? Again, how can you verify green suppliers and dispose of IT in a security and GDPR friendly way?

Part two

Case studies – green tech in practice

The meaty mid-section of this report will look at different use cases involving innovative use of digital to help achieve net zero goals: egs of tech to help achieve green sustainability goals (e.g., Digital Twins; sustainability data reporting or it could be a green 3rd party supplier blockchain…

We would like to focus on disruptive tech solutions that are helping enterprises to transform the way they operate (i.e., not products that automate switching lights on and off, even though these are clearly helpful!).

These use cases will come from users not vendors although we welcome vendors as a point of contact. Again, we are looking for digital and IT-led use cases and not engineering- led use cases. And examples must be B2B rather than B2C.

These case studies will look at best practice, methodologies used to work out paths to sustainability and the journey they went on to find the right tech/ products/ services that help them do this.

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Did they use specialist tech or environmental consultants to advise them on how they made these changes? What results are they seeing since deployment? What KPIs are they using to measure success? How is the tech performing how effective is it in helping them achieve their goals? What improvements could be made?

Part three

Meet the GET advocates

Interviews with three industry champions: We shine a light on three leading figures from enterprises who are leading the way by ensuring that their companies are transforming in a sustainable way. One enterprise (e.g., Tesco); One industry 4.0 leader; and one Tech Firm/ Telco.

How are they using green tech and why? Best practices? Early lessons learned? What would they do different if they were choosing the tech now?

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