INTERNET OF THINGS (IoT)

Everyone wants to build

The World's

Smartest something

Picture1: Undying competition to build smart something

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The question rises as to how many devices one is willing to wear?

Picture2: Too many devices

Seriously folks! Do you really need a wristband that will sense how much sunlight you have been exposed to, and measure UV index?

Do you really need all those digital yoga mats or snowboard bindings etc…

Trust me folks! Though they are all useful stuff, unfortunately nobody is going to charge, wear and manage more devices on a day to day basis.

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Developing the simple, effective and turkey thing is the most important aspect of IoT. Many of the IoT start up's who sustains and survives, are the ones who will discover more information by inference which means that they have a data science background

The KEY to the success of IoT is the dynamic & time bound DATA. Big data & IoT is the match made in heaven.

Picture3: Big data & IoT

DATA – The only "Fuel" for the Smart Digital life

Big data & IoT are two sides of same coin.

- Findings show that 63% of firms reported that they expect to invest greater than $10 million in Big Data by 2017, up from 24% in 2012

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- At the top end of the investment scale, 27% of firms say they will invest greater than $50 million in Big Data by 2017, up from 5% of firms that invested this amount in 2015

- By the year 2020, the Internet of Things will generate a stunning 4.4 trillion GB of data in the world. It's a number that difficult to fully comprehend, but it makes sense considering that by 2020, tens of billions of devices and sensors will have some type of connection to the internet. All of these devices will be gathering, analyzing, sharing, and transmitting data, all in real time.

Big Data is emerging as a corporate standard, and the focus is rapidly shifting to the results it produces and the business capabilities it enables. When the internet was a new phenomenon, we'd say "I am going to surf the World Wide Web" – now, we just do it. We are entering that same phase of maturity with Big Data.

DATA – The New culture & Key for decision making

"Big data's power does not erase the need for vision or human insight".

The technical challenges of using big data are very real. But the managerial challenges are even greater—starting with the role of the senior executive team.

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When data are scarce, expensive to obtain, or not available in digital form, it makes sense to let well-placed people make decisions, which they do on the basis of experience they've built up and patterns and relationships they've observed and internalized

Picture4: Data is key

"Intuition" is the label given to this style of inference and decision making. People state their opinions about what the future holds—what's going to happen, how well something will work, and so on—and then plan accordingly.

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An IoT device generates continuous streams of data in a scalable way, and companies must handle the high volume of stream data and perform actions on that data. The actions can be event correlation, metric calculation, statistics preparation, and analytics. In a normal big data scenario, the data is not always stream data, and the actions are different. Building an analytics solution to manage the scale of IoT data should be done with these differences in mind.

Picture5: Value Creation through Big data & IoT

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The intersection of big data & IoT is a multi disciplinary field, and specialized skills will be required if businesses are to extract maximum value from it. The magnitude of IoT-related network connections and data volumes is likely to favor a distributed approach to data centre management, with multiple "mini-data centre's" performing initial processing and relevant data forwarded over WAN links to a central site for further analysis. This will present serious issues around storage for (necessarily selective) data backup, network bandwidth, and data centre capacity planning, where data center infrastructure management (DCIM) tools will become increasingly important.

The IoT is, in essence, a big data play. Consumers can glean data about their use of household items, companies can better understand how customers engage with their product or service, and everyone involved can better automate and understand processes they are commonly involved in.

The Internet of Things and big data are growing at an impressive rate, and both feed into the success of the other. As the amount of data in the world increases, the two will only become more entwined. The world is running on data now, and pretty soon, the world will become fully immersed in the Internet of Things.