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Big Data and the Internet of Things

Protecting rights, controlling use and extracting value



“Now we stand facing a new industrial revolution:
a digital one. With cloud computing its new engine,
big data its new fuel. Transporting the amazing
innovations of the internet, and the internet of things.
Running on broadband rails: fast, reliable, pervasive.”

*(Neelie Kroes, European Commissioner for the Digital Agenda, The Data Gold
Rush, March 2014)*

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What is Big Data?

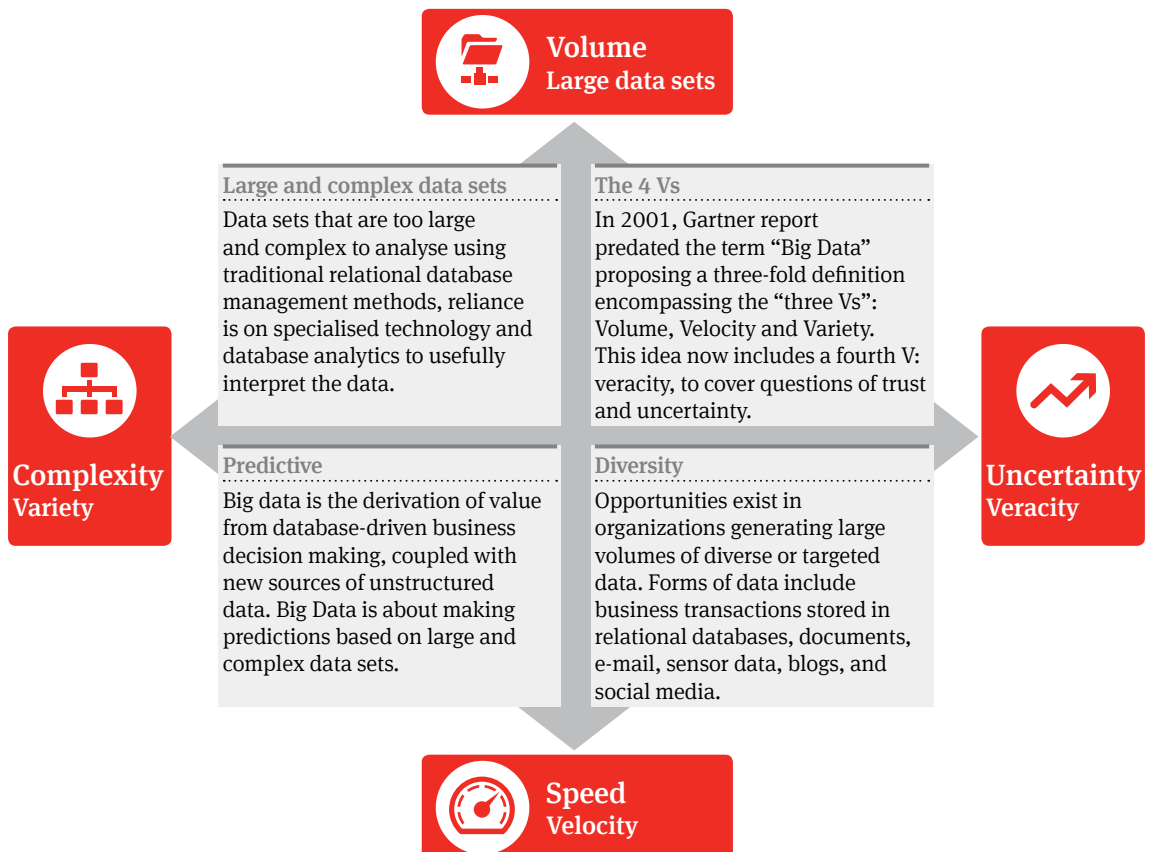
Big Data are 'large, diverse, complex, longitudinal, and/or distributed data sets generated from instruments, sensors, Internet transactions, email, video, click streams, and/or all other digital sources available today and in the future'

(National Scientific Foundation, Core Techniques and Technologies for Advanced Big Data Science and Engineering, Solicitation 12-499)

Big Data data sets are so big that they are beyond the capacity of traditional software tools to capture, manage and process within acceptable timeframes.

Big Data analytics identifies trends and enables predictions to be made based on an analysis of the data.

Sources of Big Data include combining data sets from publicly available sources (open data), privately generated sources (proprietary or licensed data sets) and information generated via the Internet of Things.

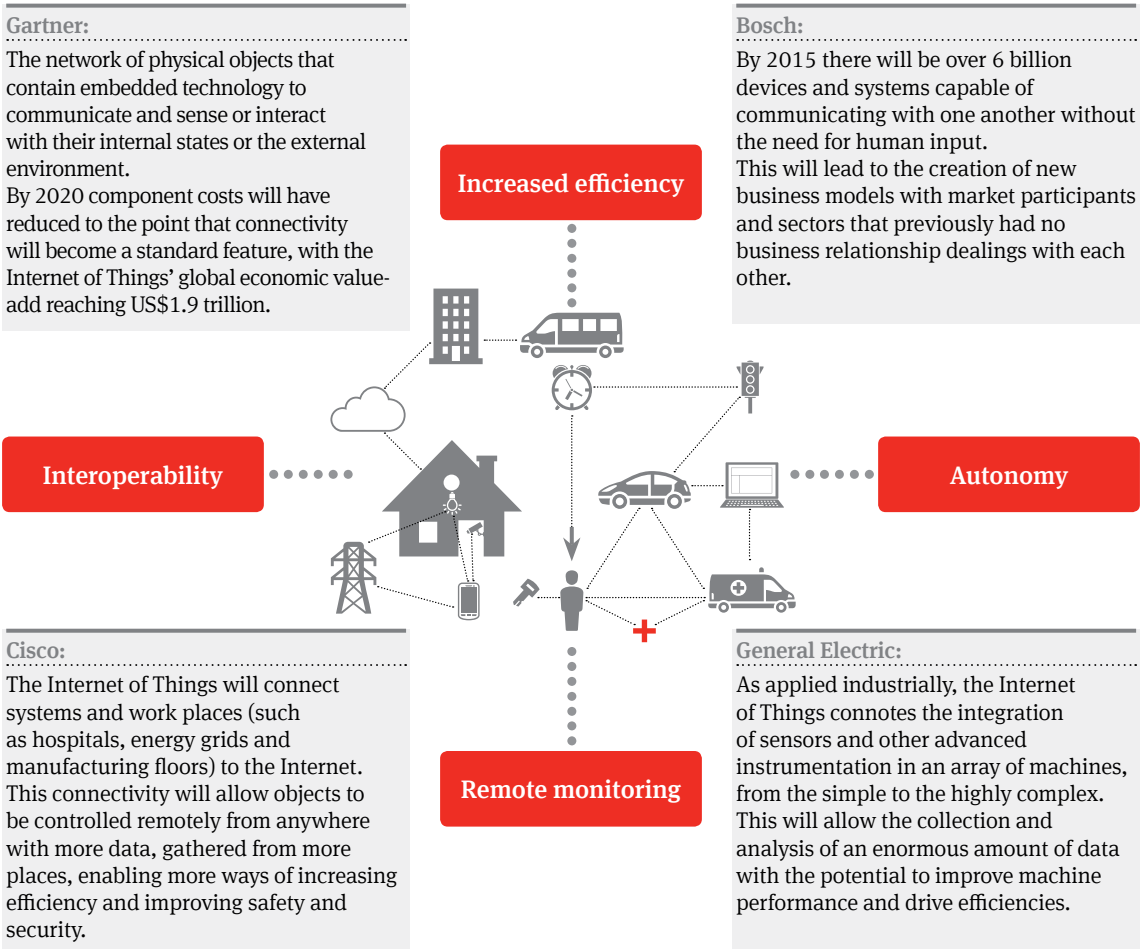


What is the internet of things?

The internet of things ‘describes the ability of devices to communicate with each other using embedded sensors that are linked through wired and wireless networks.’

(Executive Office of the President, The White House, Big Data: Seizing Opportunities, Preserving Values, May 2014)

Such devices use the internet to transmit, compile and analyse data and include those with execution capabilities (for example, locks controlled over the internet) and (increasingly) ambient intelligence and autonomous control.



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Legal drivers

The legal and contractual environment within which Big Data analytics and the Internet of Things are developing will assist in promoting uptake.

Most regulators are taking a pragmatic view, generally preferring outcome-focused regulation to an overly rules-based approach in an attempt to balance risk against the commercial imperatives of both national economies and businesses.



Increasingly facilitative legislative and contractual environment for Big Data and the Internet of Things

Presumption in favour of outcome-focused regulation rather than prescriptive prohibitions on data sharing (for example, increasing regulatory focus on privacy by design/default)

Obama Administration's promotion of a Consumer Privacy Bill of Rights and a Blueprint for Consumer Privacy

Development of technical and interoperability standards

Existing contractual norms relating to data and security readily adaptable to contracting for Big Data and the Internet of Things

Market acceptance of standard licensing model for open data (available for use/reuse/redistribution)

Emergence of presumption of availability of public sector information (for example, Freedom of information legislation and EU Directive on the Re-use of Public Sector Information)

Data portability under antitrust laws or pursuant to sector-specific consumer protection measures (for example, US Mydata and UK Midata initiatives)

Legislative and state encouragement of commercial activity based on the digital economy (for example, the European Commission's Digital Agenda for Europe)

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