

40 ZETTABYTES

(43 TRILLION GIGABYTES)

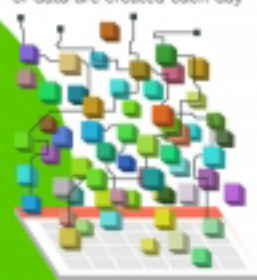
of data will be created by 2020, an increase of 300 times from 2005



Volume SCALE OF DATA

It's estimated that
2.5 QUINTILLION BYTES

(2.3 TRILLION GIGABYTES)
of data are created each day



Most companies in the U.S. have at least
100 TERABYTES
(100,000 GIGABYTES)
of data stored

The New York Stock Exchange captures

1 TB OF TRADE INFORMATION

during each trading session



By 2016, it is projected there will be

18.9 BILLION NETWORK CONNECTIONS

— almost 2.5 connections per person on earth



Velocity ANALYSIS OF STREAMING DATA

Modern cars have close to
100 SENSORS
that monitor items such as fuel level and tire pressure



The FOUR V's of Big Data

From traffic patterns and music downloads to web history and medical records, data is recorded, stored, and analyzed to enable the technology and services that the world relies on every day. But what exactly is big data, and how can these massive amounts of data be used?

As a leader in the sector, IBM data scientists break big data into four dimensions: **Volume, Velocity, Variety and Veracity**

Depending on the industry and organization, big data encompasses information from multiple internal and external sources such as transactions, social media, enterprise content, sensors and mobile devices. Companies can leverage data to adapt their products and services to better meet customer needs, optimize operations and infrastructure, and find new sources of revenue.

By 2015
4.4 MILLION IT JOBS
will be created globally to support big data, with 1.9 million in the United States



As of 2011, the global size of data in healthcare was estimated to be

150 EXABYTES

(181 BILLION GIGABYTES)



30 BILLION PIECES OF CONTENT

are shared on Facebook every month



Variety DIFFERENT FORMS OF DATA

By 2014, it's anticipated there will be

420 MILLION WEARABLE, WIRELESS HEALTH MONITORS



4 BILLION+ HOURS OF VIDEO

are watched on YouTube each month



400 MILLION TWEETS

are sent per day by about 200 million monthly active users



1 IN 3 BUSINESS LEADERS

don't trust the information they use to make decisions



27% OF RESPONDENTS

in one survey were unsure of how much of their data was inaccurate

Veracity UNCERTAINTY OF DATA

Poor data quality costs the US economy around

\$3.1 TRILLION A YEAR

