

40 ZETTABYTES

[43 TRILLION GIGABYTES]

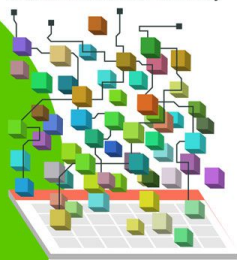
of data will be created by 2020, an increase of 300 times from 2005



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 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

[161 BILLION GIGABYTES]



**30 BILLION
PIECES OF CONTENT**

are shared on Facebook
every month

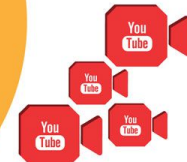


Variety DIFFERENT FORMS OF DATA

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



The New York Stock Exchange captures

**1 TB OF TRADE
INFORMATION**

during each trading session



Velocity ANALYSIS OF STREAMING DATA

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

By 2016, it is projected there will be

**18.9 BILLION
NETWORK
CONNECTIONS**

— almost 2.5 connections
per person on earth



**1 IN 3 BUSINESS
LEADERS**

don't trust the information
they use to make decisions



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

