Getting Started:

After this video you will be able to...

- Name characteristics of Big Data that often gets referred to as "V's of Big Data" by name
- Explain what each refers to in the context of today's big data landscape



1 43 TRILLION GIGABYTES 1 of data will be created by 2020, an increase of 300 times from 2005

It's estimated that 2.5 QUINTILLION BYTES

(2.3 TRILLION SIGABYTES) of data are created each day



PEOPLE have cell phones •

Volume SCALE OF DATA



Most companies in the U.S. have at least

IOO TERABYTES

100,000 GIGABYTES I of data stored

The New York Stock Exchange captures

WORLD POPULATION: 7 BILLION

1 TB OF TRADE INFORMATION

during each trading session



Modern cars have close to 100 SENSORS

that monitor items such as fuel level and tire pressure

Velocity

ANALYSIS OF STREAMING DATA

By 2016, it is projected there will be

18.9 BILLION NETWORK CONNECTIONS

- almost 2.5 connections per person on earth



The FOUR V's of Big **Data**

break big data into four dimensions: Volume, Velocity, Variety and Veracity

4.4 MILLION IT JOBS



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

I 151 BILLION GIGARYTES]



Variety DIFFERENT **FORMS OF DATA**

30 BILLION PIECES OF CONTENT

are shared on Facebook every month







there will be WEARABLE, WIRELESS **HEALTH MONITORS**

By 2014, it's anticipated

4 BILLION+

HOURS OF VIDEO are watched on YouTube each month



are sent per day by about 200 million monthly active users

1 IN 3 BUSINESS

don't trust the information they use to make decisions



Poor data quality costs the US economy around



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

Veracity UNCERTAINTY OF DATA





40 ZETTABYTES

[43 TRILLION GIGABYTES]

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



BILLION
PEOPLE
have cell
phones



WORLD POPULATION: 7 BILLION

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

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

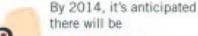
150 EXABYTES

[161 BILLION GIGABYTES]



Variety

DIFFERENT FORMS OF DATA



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

30 BILLION PIECES OF CONTENT

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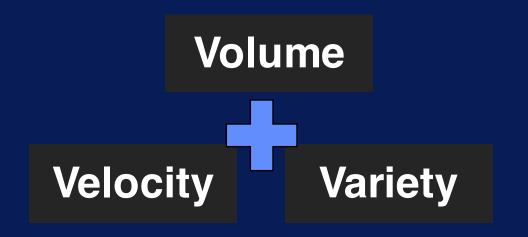
ANALYSIS OF STREAMING DATA

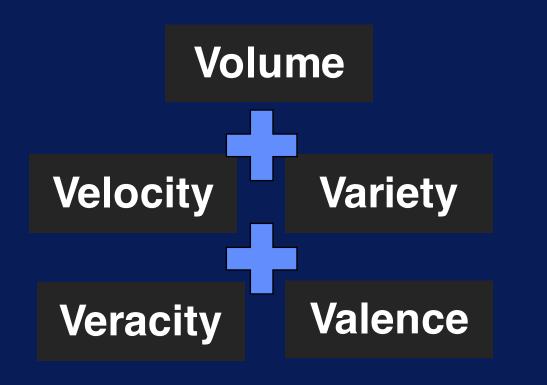
By 2016, it is projected there will be

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



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



