# 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



[ 43 TRILLION GIGABYTES ] 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 GIGABYTES ] of data are created each day







**Volume** 



Most companies in the U.S. have at least

#### **100 TERABYTES**

100,000 GIGABYTES ] 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

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



100 SENSORS

#### 4.4 MILLION IT JOBS

The

of Big

**Data** 

Velocity, Variety and Veracity

**FOUR V's** 

break big data into four dimensions: Volume.



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

[ 161 BILLION GIGABYTES ]



**Variety** DIFFERENT **FORMS OF DATA** 

#### **30 BILLION** PIECES OF CONTENT

are shared on Facebook every month





there will be 420 MILLION WEARABLE, WIRELESS **HEALTH MONITORS** 

By 2014, it's anticipated

#### 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

don't trust the information they use to make decisions



Poor data quality costs the US \$3.1 TRILLION A YEAR

economy around



27% OF RESPONDENTS

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



**UNCERTAINTY** OF DATA



#### **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

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[ 100,000 GIGABYTES ]

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BILLION PEOPLE

have cell phones

WORLD POPULATION: 7 BILLION

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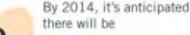
#### 150 EXABYTES

[ 161 BILLION GIGABYTES ]



## **Variety**

DIFFERENT FORMS OF DATA



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## Velocity

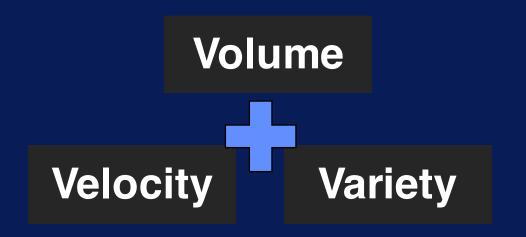
ANALYSIS OF STREAMING DATA

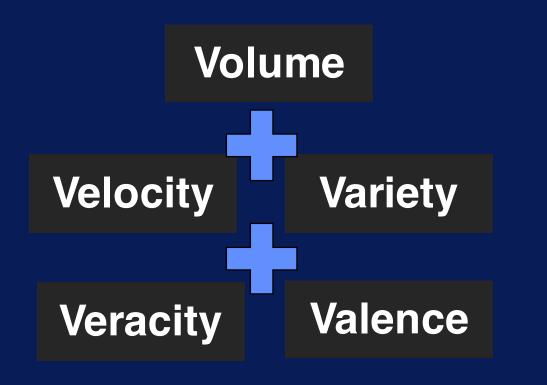
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### 1 IN 3 BUSINESS LEADERS

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Veracity

UNCERTAINTY OF DATA

Poor data quality costs the US economy around

\$3.1 TRILLION A YEAR



