# **Big Data in Smart Grid**



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Big data technologies describe a new generation of technologies and architectures, designed to economically extract value from very large volumes of a wide variety of data, by enabling high-velocity capture, discovery, and/or analysis. ~ International Data Corporation



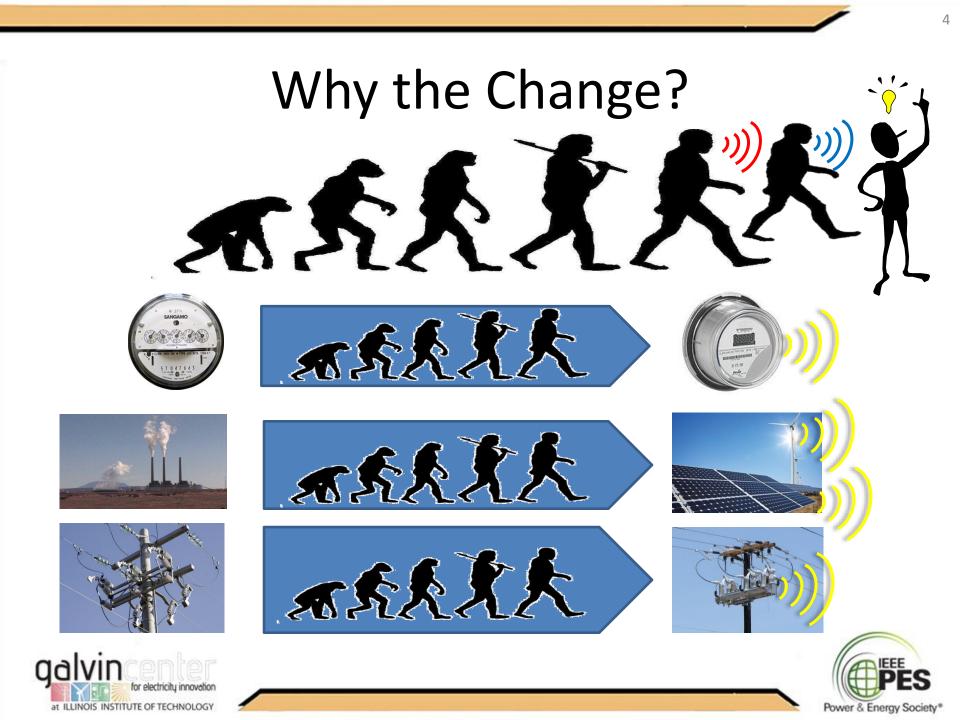


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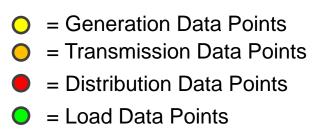
### How many different types of data?

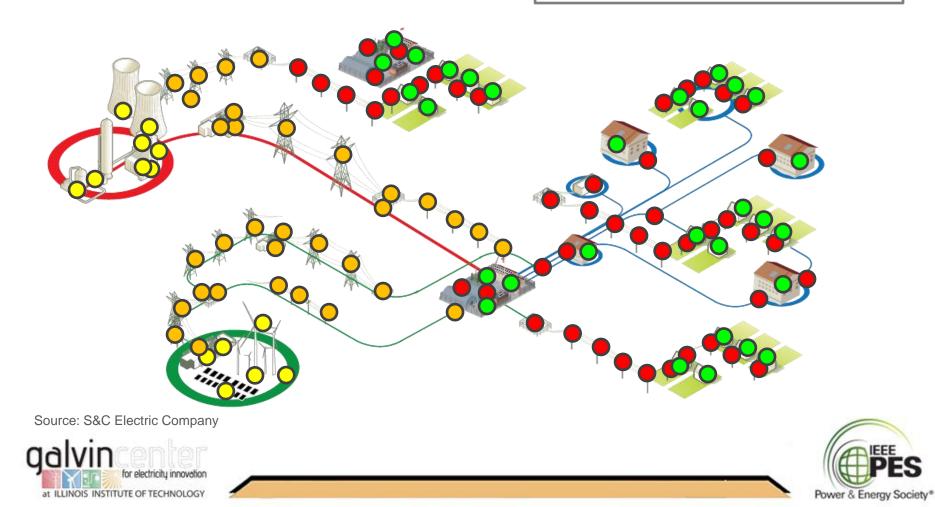






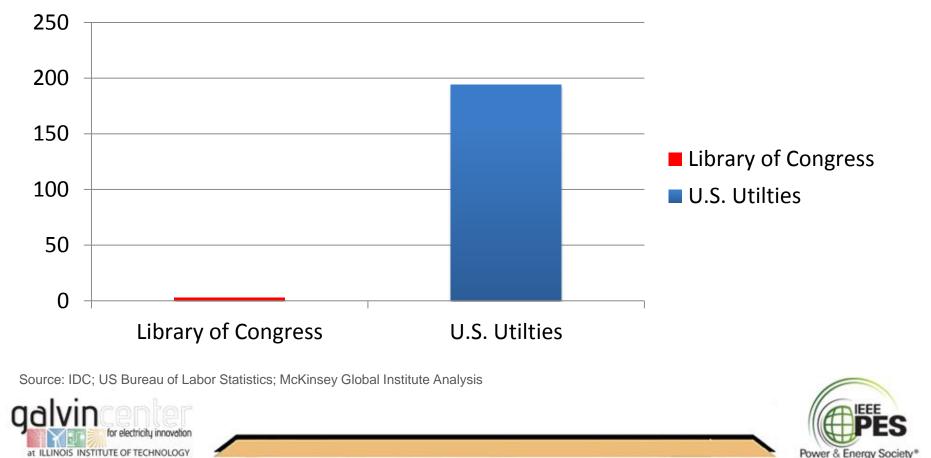
#### KEY





As of 2009, Utilities had **194 Petebytes** (10^15) of Stored Data **1,507 Terabytes** of Data...per utility company

Petabytes of Data Stored to Date



## Big Data in Smart Grid - Panel

## How Big Data is Changing...

- Reliability in North America | Jessica Bian, NERC
- Our Transmission System | Paul Myrda, EPRI
- Our Distribution System | Mel Gehrs, Silver Spring Networks
- The Way We Plan our IT Infrastructure | Dan Rosanova, West Monroe Partners



