

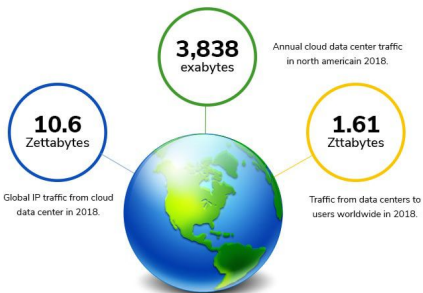
BIG DATA



What is Big Data?

"Big data" refers to data sets that are too large or too complex for traditional data processing applications.

- By 2020, there will be around 40 trillion gigabytes of data (40 zettabytes).
- Vision of \$1 trillion manufacturing economy in the near future and to enhance global competitiveness.
- Industry 4.0



Use Cases



Essential Elements of Using Big Data Successfully

Understanding Goals/Visions- Companies need to understand the current state of business, including the gaps correctly to be able to prepare for the future.

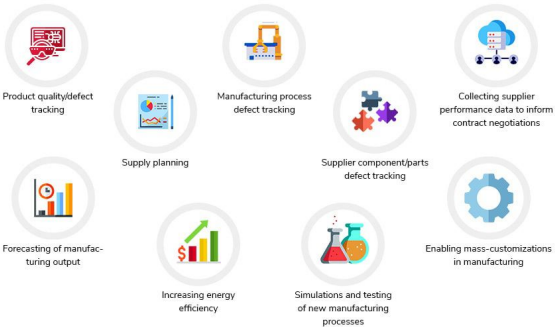
IT and Business Alignment- Companies need to work on a use case that can lead to meet the objectives of both, business and IT.

Key Performance Indicators- KPIs are unique to each use case, phase, and step of an assignment.

Data Security - Securing access to data, regardless of data management platforms, tools, and data transmission methods used is critical.



Manufacturing Big Data Challenges



Areas of Greatest Benefits for Manufacturing / Operations

- Enhanced Product accuracy, quality, and production.
- Seamless integration of IT in manufacturing and operational systems.
- Forecasts of product requirements and production.
- Continuous improvement across framework.
- Advanced manufacturing analytics.
- Enhanced visibility in quality levels.
- Accuracy in predicting supplier performance.
- Machine-level traceability.
- Compliance measurement.
- Strategic services to achieve customers' goals.
- Monitor products and provide preventative maintenance recommendations.



Big Data Analytics Solutions

