Big Data generated by Machines:

Why it's useful

After this video you will be able to...

- Understand how machine generated big data is being used to enable real-time actions
- Identify what is needed to start creating a big data strategy that includes machine generated data

Big Plane → Big Data???



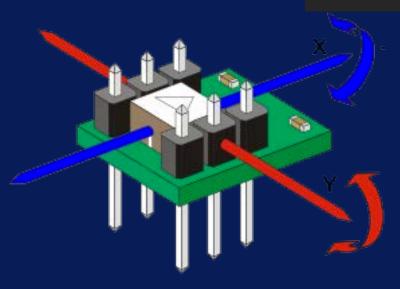
Half a TB of data every time it flies!



What produces data?



Accelerometers -> turbulence







Sensors: temperature, pressure, etc.

malfunctions





In-Situ Processing

Then (RDBMS)

Data moved to computational space



Now (In-Situ) Bring computation to data

Real-time Notification Enables Real-time Actions

Design Differently!

Machine Health



Smart Metering

Environmental Monitoring

Culture shift to real-time operations

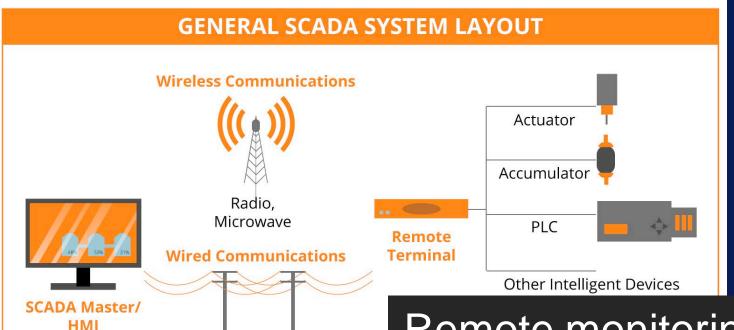
- Customer relations
- Fraud detection
- System monitoring/control

Increased use of scalable computing





Supervisory Control and Data Acquisition (SCADA)



Fiber Optic,

Leased Line

Remote monitoring / control industrial processes

Supervisory Control and Data Acquisition (SCADA)

Reduce waste, improve efficiency



Identify trends, patterns, and anomalies



Environmental Monitoring

Machine

Health

Culture shift to real-time operations

Increased use of scalable computing