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???



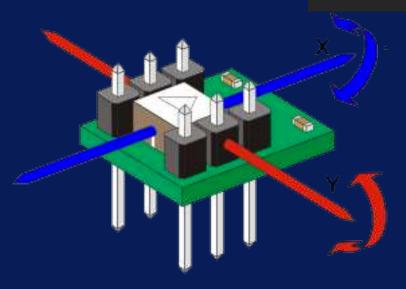
Half a TB of data every time it flies!



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

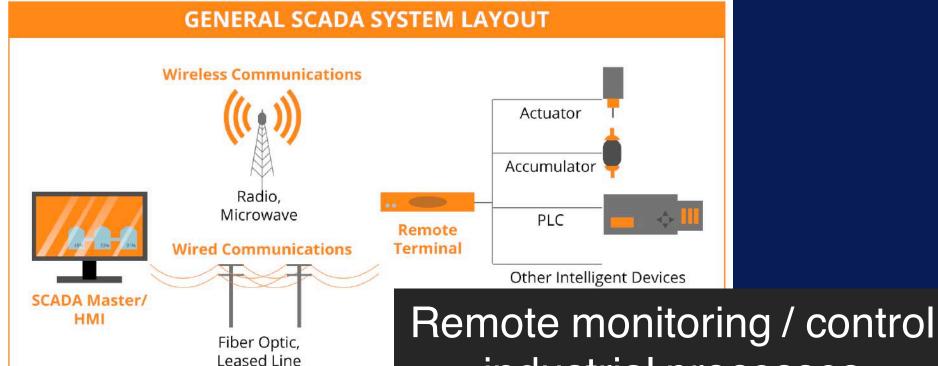
- Customer relations
- Fraud detection
- System monitoring/control

Increased use of scalable computing





Supervisory Control and Data Acquisition (SCADA)



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