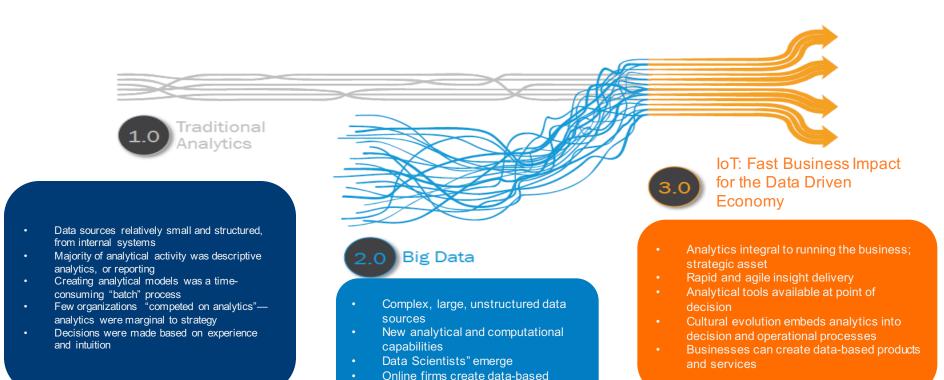




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#### **IOT: THE DATA DRIVEN ECONOMY**



products and services



### **INSIGHTS AND ACTION DRIVE VALUE**





### TRADITIONAL IT POSITION ON ANALYTICS



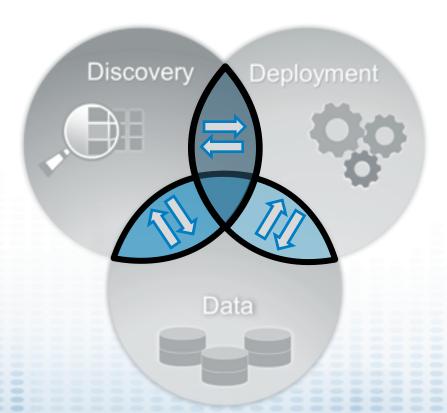


# **ANALYTICS PLATFORM**





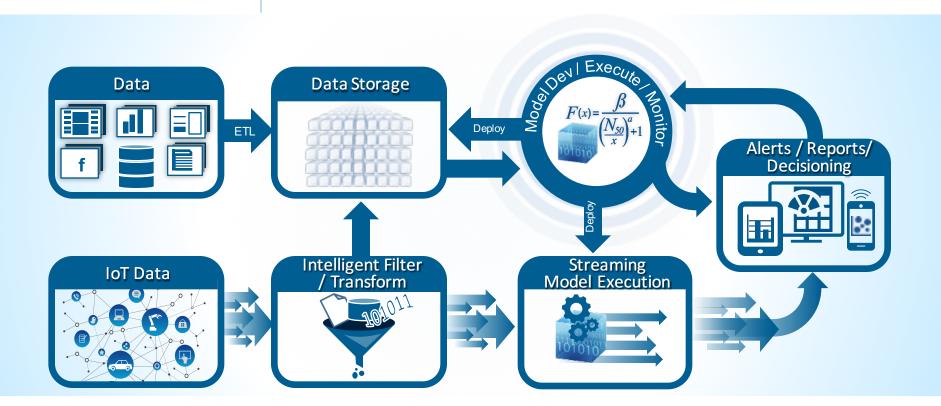
## **ANALYTICS PLATFORM - VALUE IN THE OVERLAP**





# INTERNET OF THINGS

### IOT ANALYTICS LIFECYCLE SENSE – UNDERSTAND - ACT





# INTERNET OF THINGS

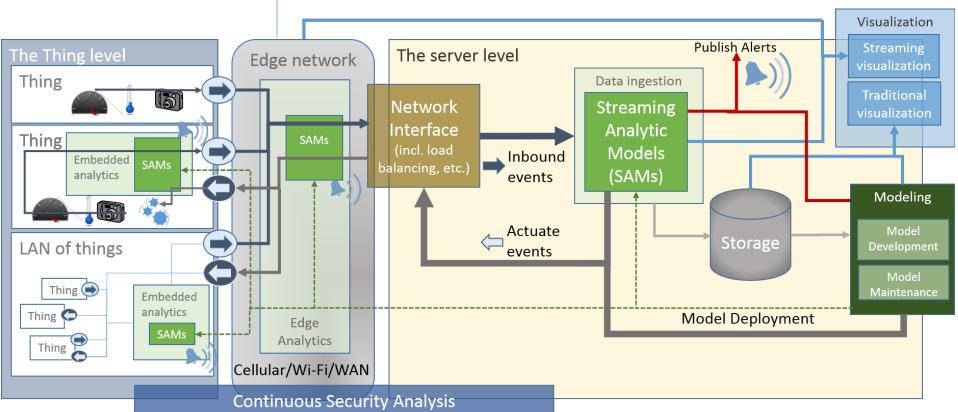
# IOT ANALYTICS LIFECYCLE SENSE – UNDERSTAND - ACT





# INTERNET OF THINGS

### **CONCEPTUAL ARCHITECTURE**



# **ANALYTICS LIFECYCLE**

### **DRIVING ASSET ANALYTICS**











#### **Truck Fleet**

- Correlate fault data to breakdowns and failures
- Predict breakdowns and component failures
- Perform reliability analysis on major parts

#### **Turbine Engines**

- Model drivers of unscheduled downtime
- Identify optimal maintenance scheduling
- Predict failures □

### **Wind Turbines**

- Identify turbines performing below average
- Model drivers of capital component failures
- Improve planned maintenance

#### **Gas Treatment**

- Identify predictors of failures
- Identify optimal operational parameters
- Optimize amine utilization

### Oil Wells

- Identify Wells performing below expectations
- Model drivers of pumps failures
- Automate earlywarning detection
- Identify optimal operational parameters

