



Creating Infinite  
Possibilities.

# Are Your Critical Facilities Ready to be Managed With Big Data?

Dustin Boyette

Product Manager, Intelligent Distribution  
EnerSys

+1 360 603 0672 · [dustin.boyette@enersys.com](mailto:dustin.boyette@enersys.com)

## Introduction



- What is Big Data?
- Data Sources in Critical Facilities
- Turning Data Into Information
- Use Cases in Communications Facilities

## What is Big Data?

Data sets too complex and/or large for traditional data processing methods



## What is Big Data?

### The Three Vs

**Volume** - Lots of unstructured data



## What is Big Data?

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**Volume** - Lots of unstructured data

**Velocity** - Data delivered rapidly; real-time or near real-time with little or no pre-processing

## What is Big Data?

### The Three Vs

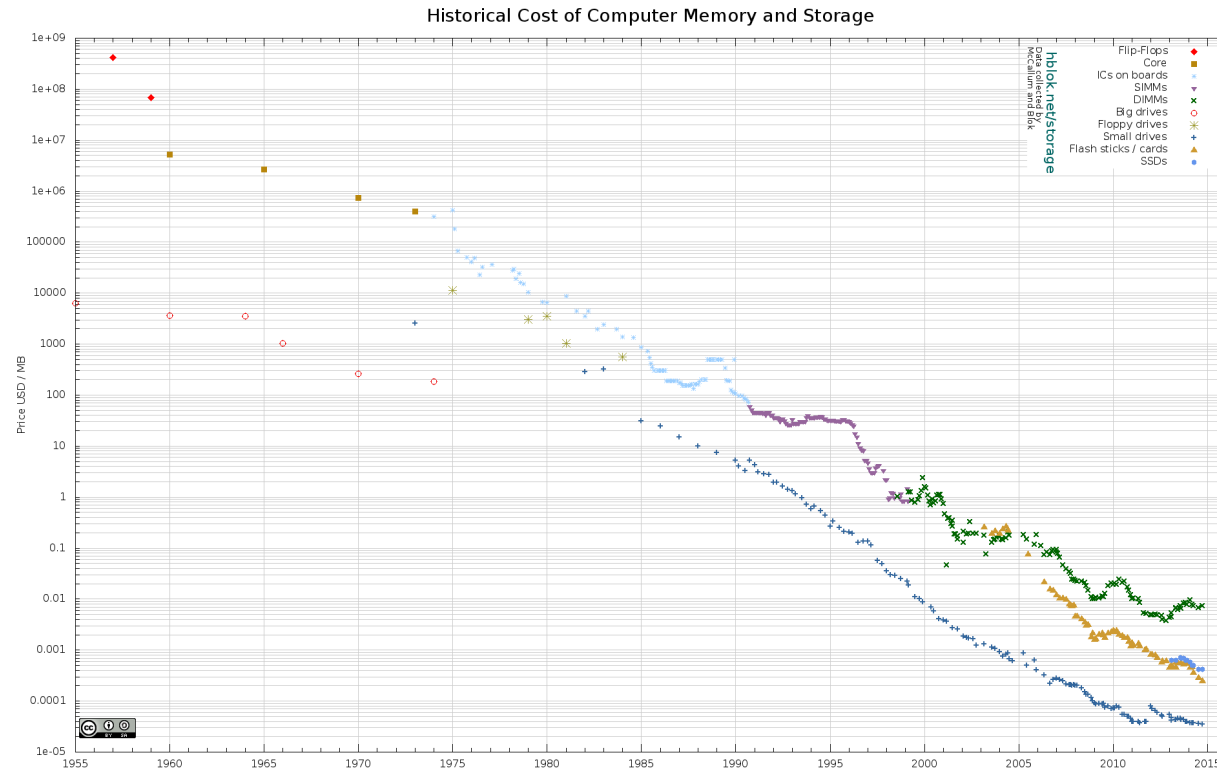
**Volume** - Lots of unstructured data

**Velocity** - Data delivered rapidly; real-time or near real-time with little or no pre-processing

**Variety** - Many kinds of data available that don't readily fit traditional, ordered database schemes

## What is Big Data?

### A Dollar a Month



## What is Big Data?

### Of Warehouses and Lakes

Data Warehouse — storage of well-ordered data





## What is Big Data?

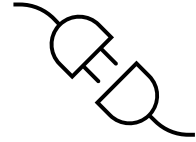
### Of Warehouses and Lakes

Data Lake — vastly scalable centralized repository for raw data of virtually any type be it structured or not



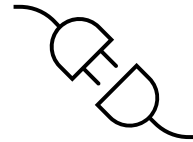
## Data Sources in Critical Facilities

Power



## Data Sources in Critical Facilities

Power

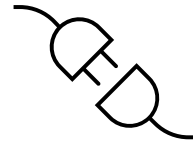


Environmental



## Data Sources in Critical Facilities

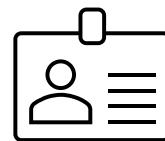
Power



Environmental



Security/Access



## Turning Data Into Information

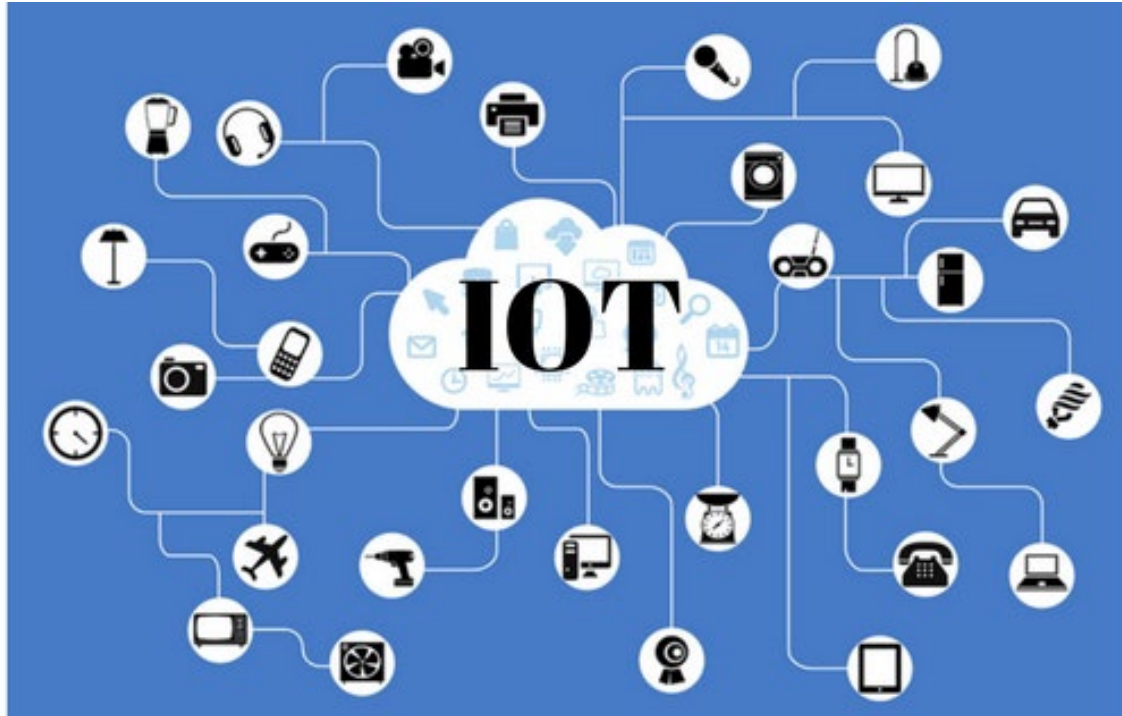
First, You Need the Data!





## Turning Data Into Information

IoT

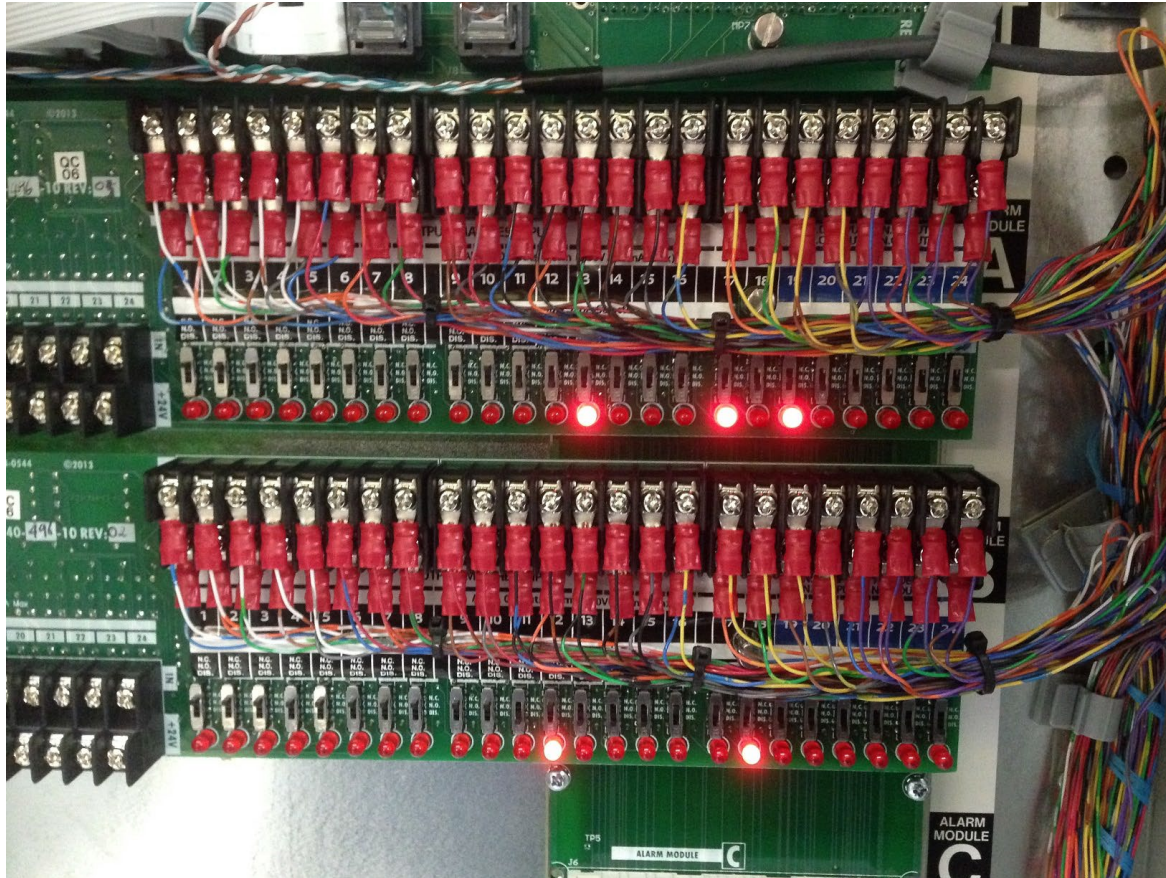


## Turning Data Into Information

### “Smart” Infrastructure

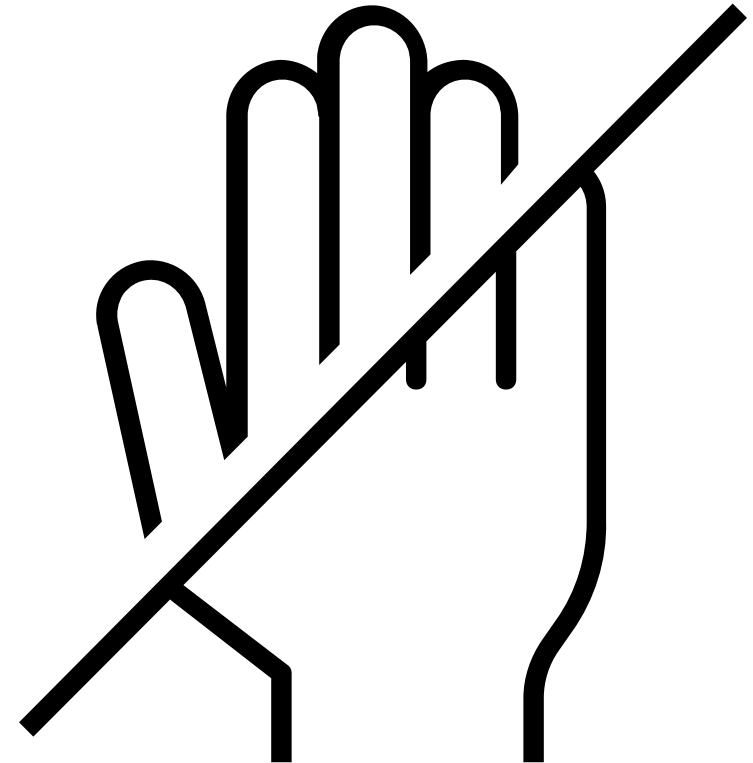


## Turning Data Into Information Retrofitting Telemetry



## Hands Off!

Reducing the human burden of CF management

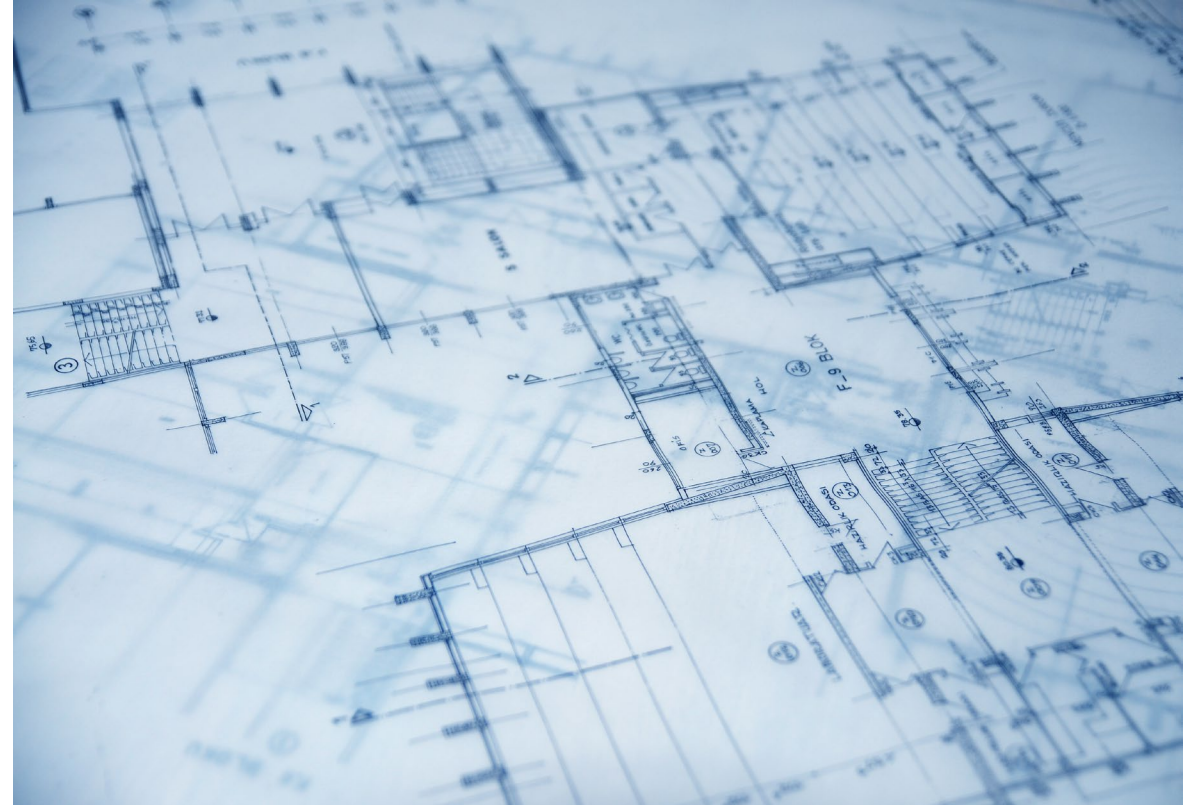




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## Hands Off!

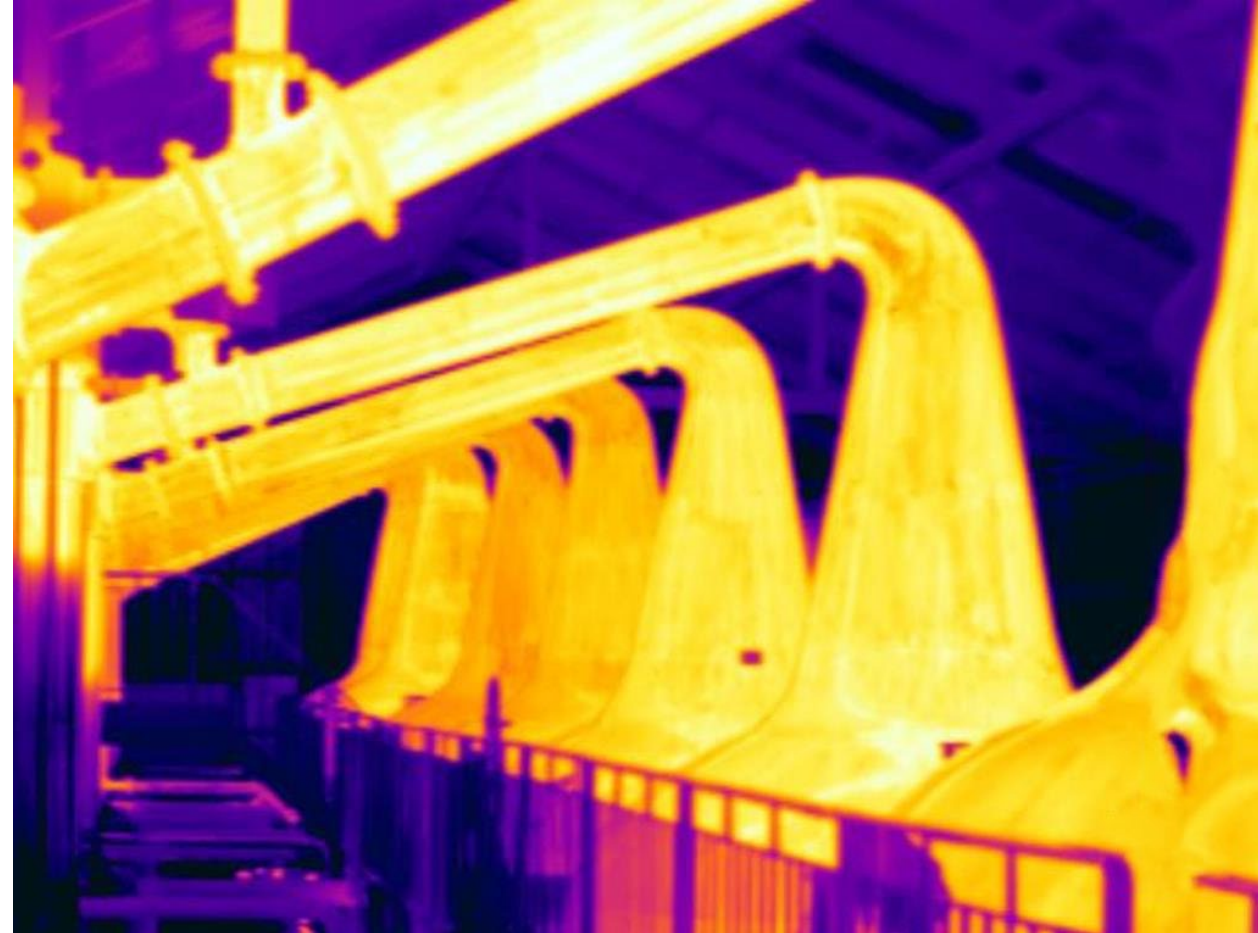
## Modeling





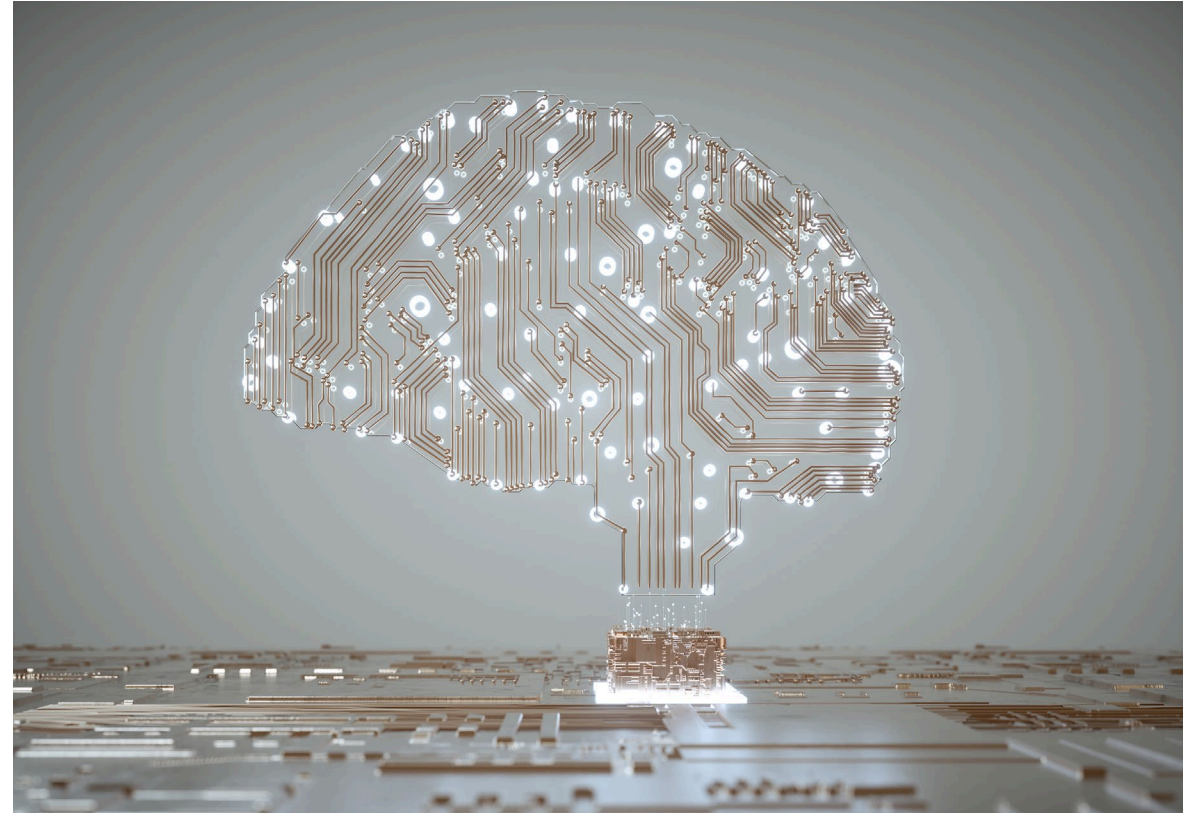
## Hands Off!

## Data Visualization



## Hands Off!

## Artificial Intelligence (AI)





# Creating Infinite Possibilities.

## Use Cases in Critical Facilities



Use Cases in Communications Facilities

Outage Prevention



## Use Cases in Communications Facilities

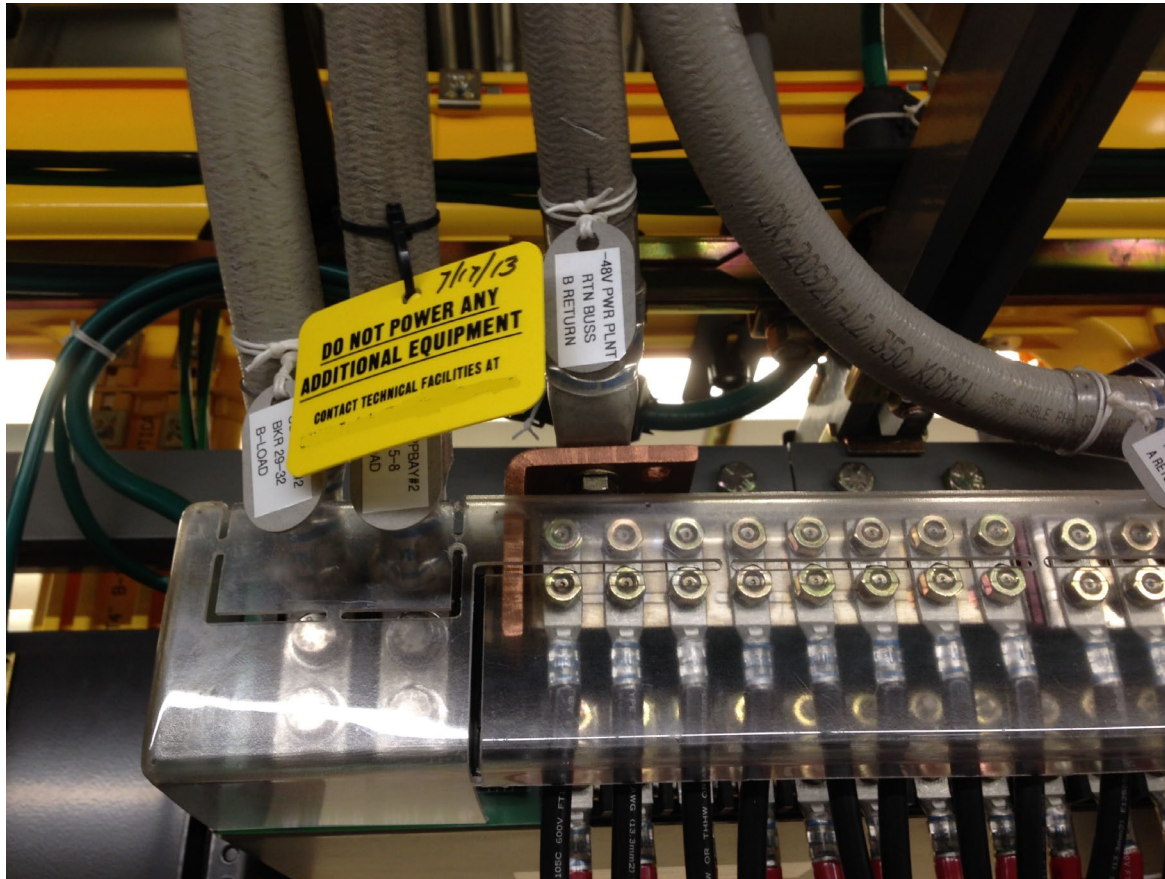
### Operational Efficiency





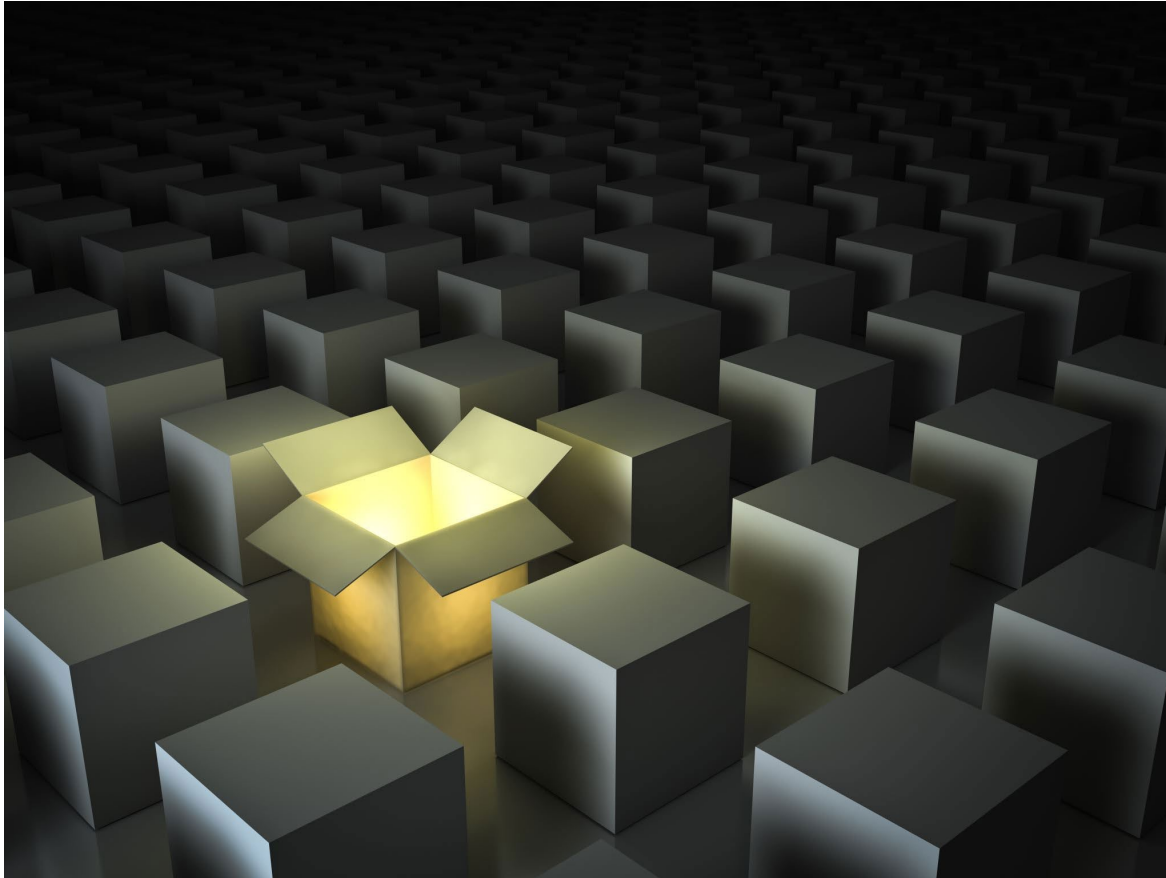
## Use Cases in Communications Facilities

### Capacity Planning



## Use Cases in Communications Facilities

### Automatic Provisioning





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Thank You!

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