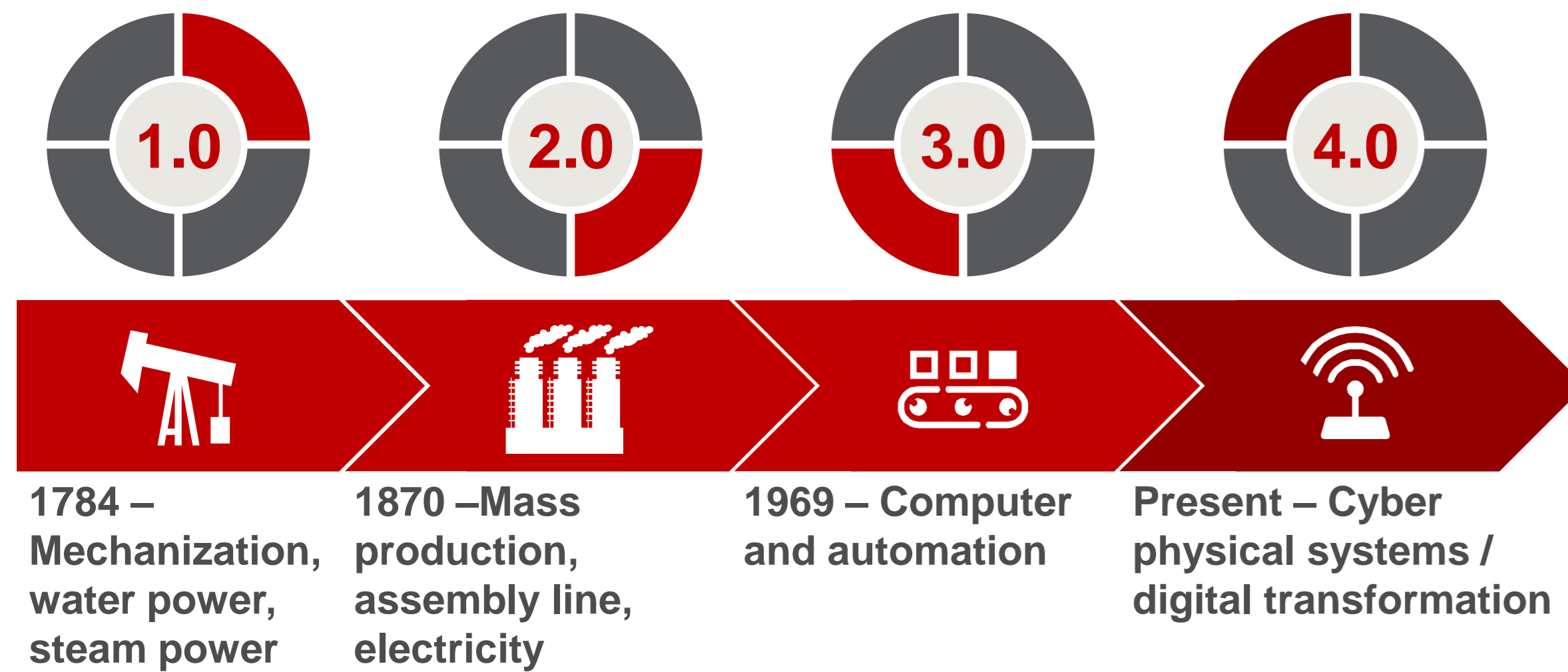


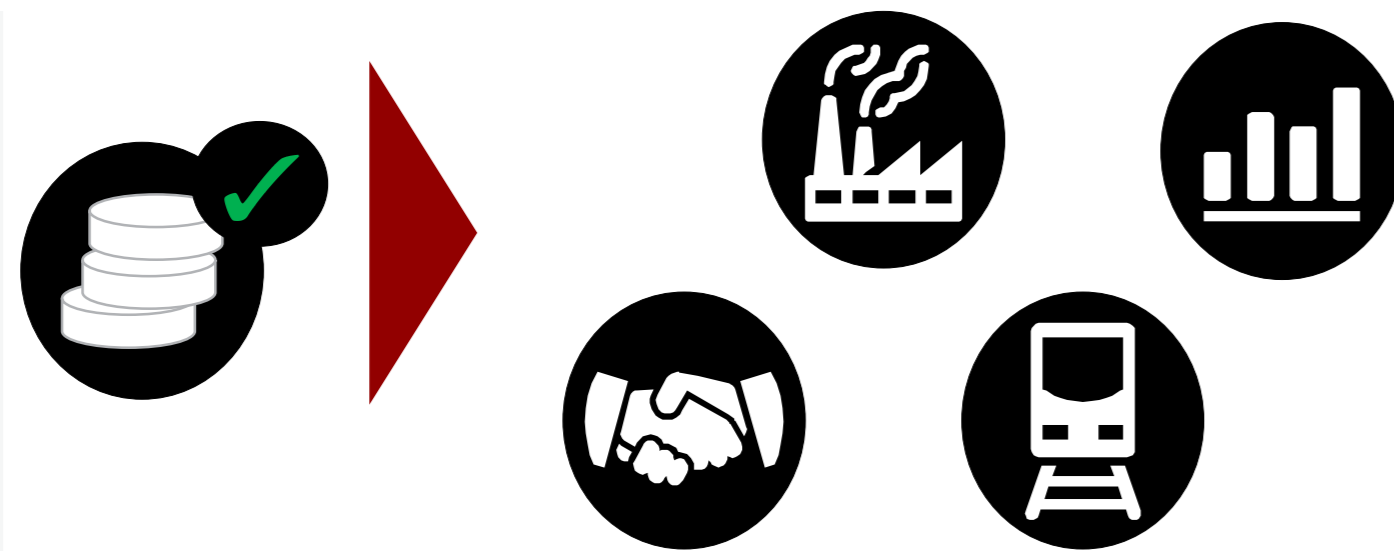
# Using Artificial Intelligence to Create a Self-Healing Supply Chain

## Motivation / Background

### Industry 4.0



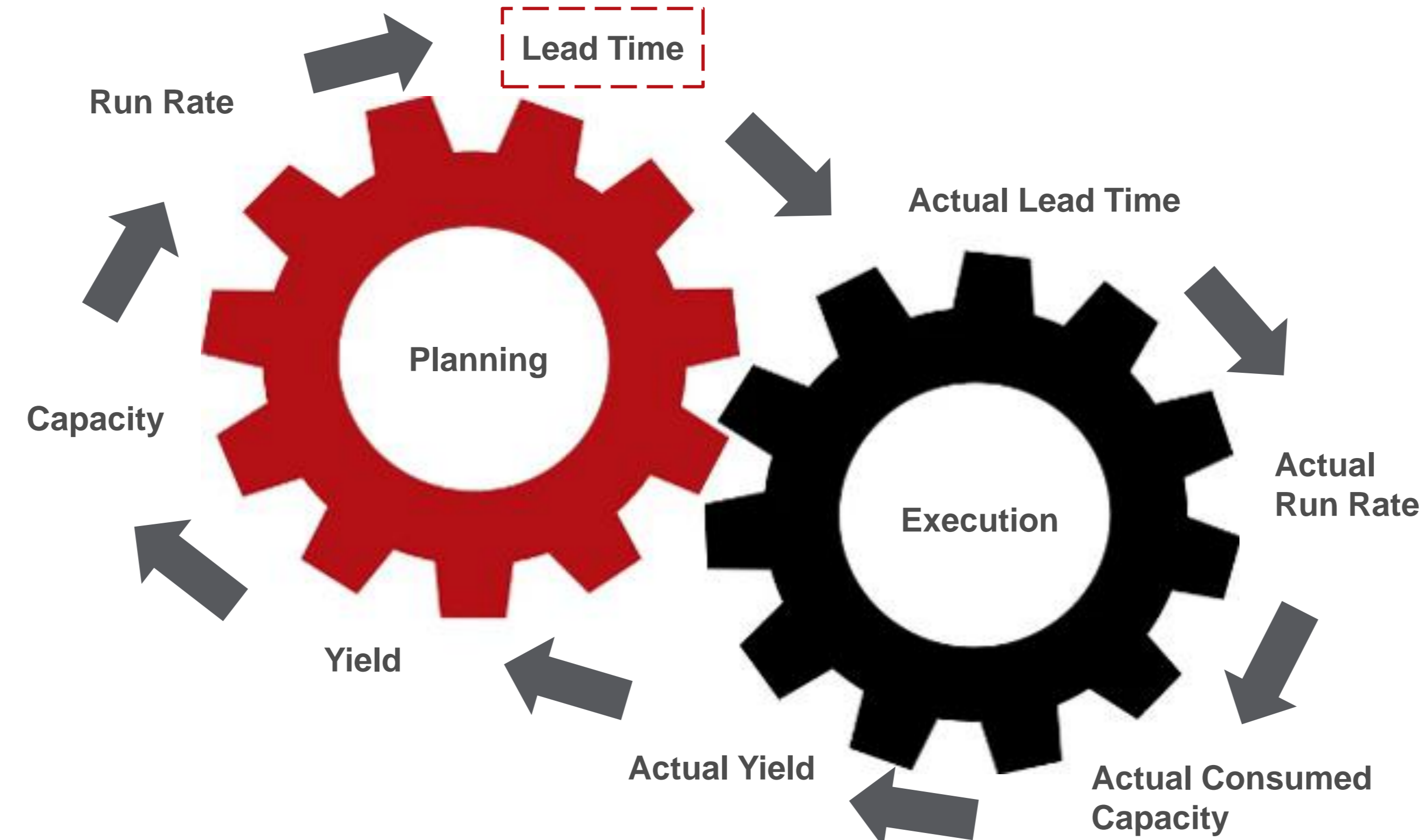
No matter how advanced our technology may be, the result is only as good as the quality of the data used.



*"Garbage in, garbage out"*  
- Anonymous

## Key Question / Hypothesis

How can artificial intelligence be used on historical lead time data to improve planning accuracy?



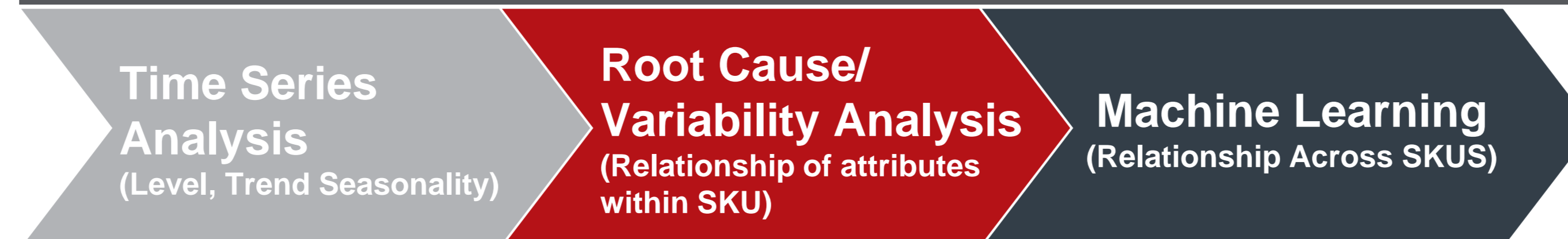
## The Problem

### Types of Enterprise Data

- Transactional Data (Sales Order, Work Order, Purchase Order, etc.)
  - Created regularly
  - Data changes frequently
- Master Data (Item attributes, lead time, run rate, etc.)
  - Created once
  - Data does not change frequently

What if the master data used in the planning process is not accurate?

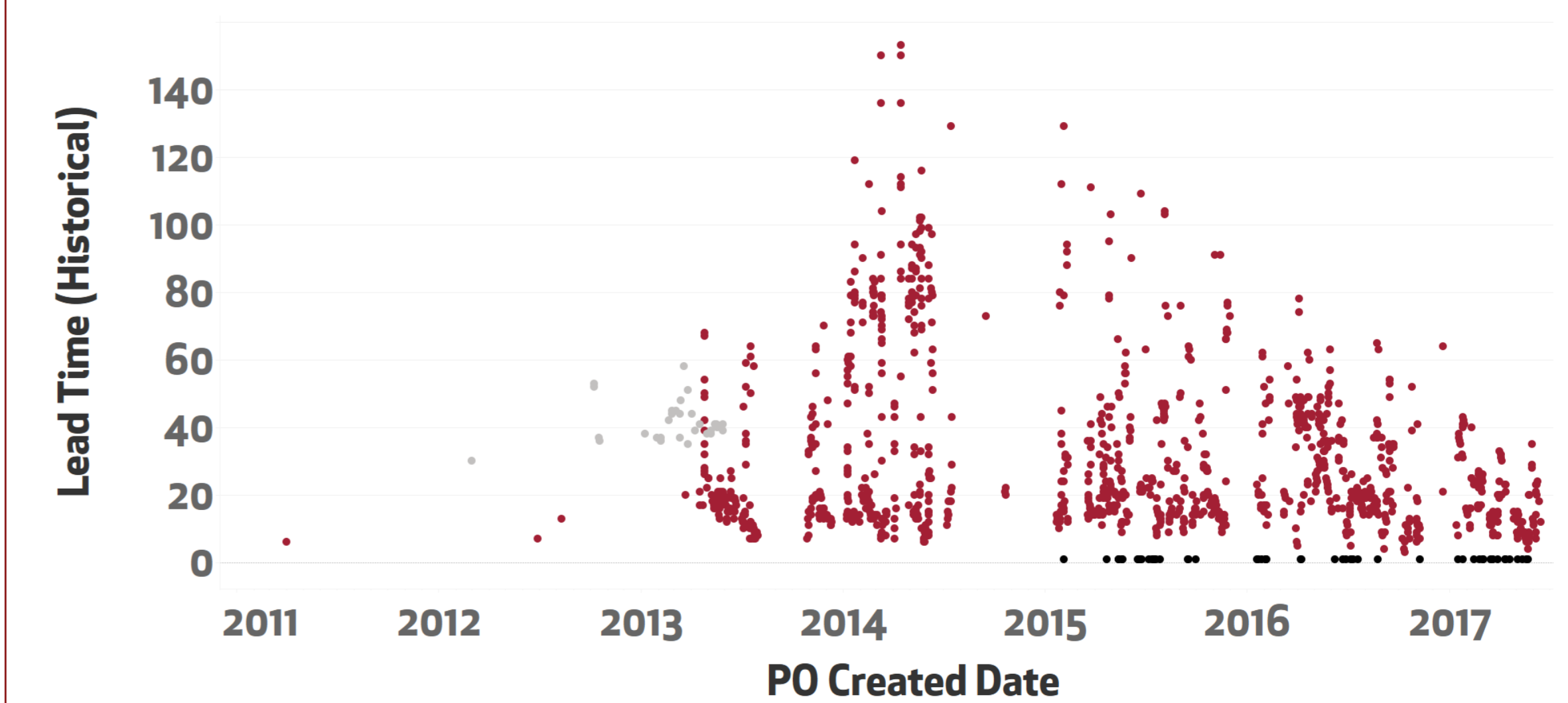
## Methodology



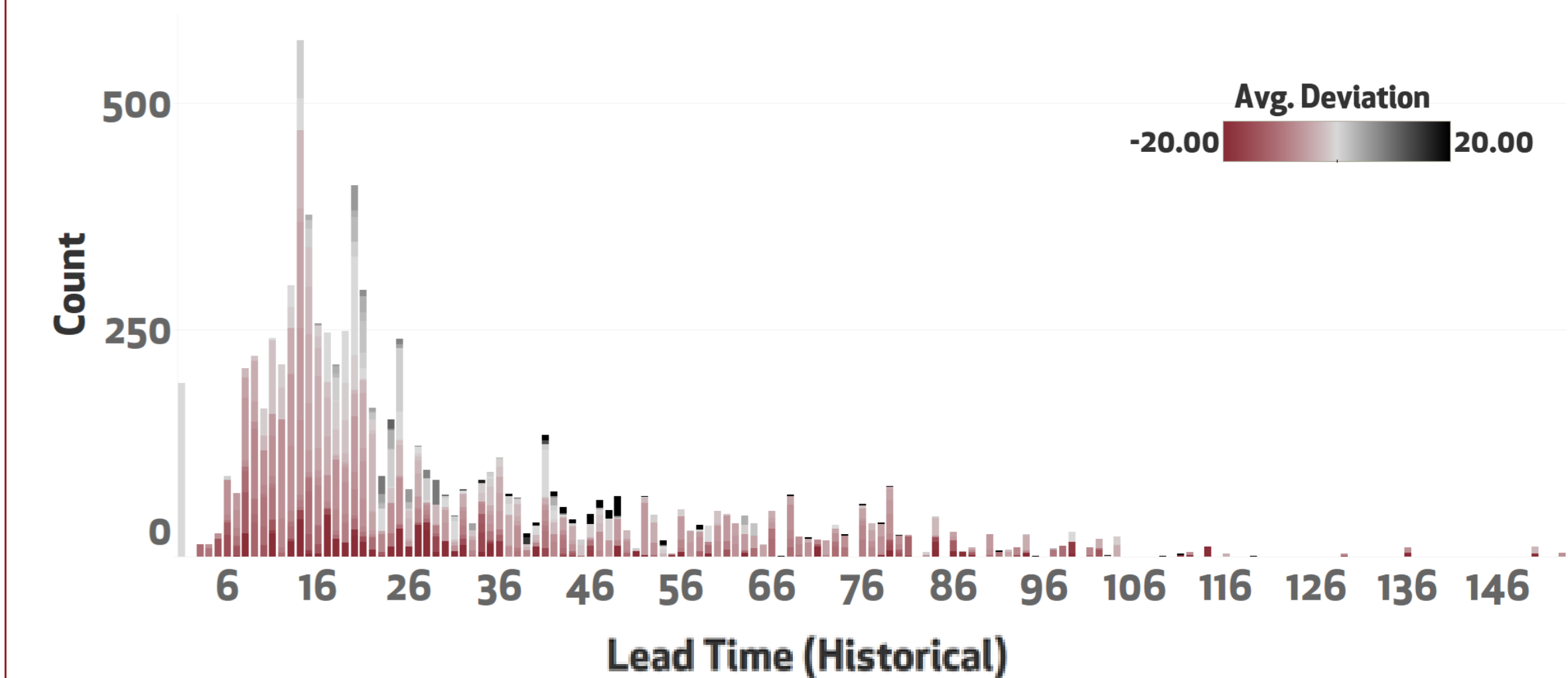
Scope: Lead Time Data

## Initial Results

### Lead Time (Historical) For One SKU



### Distribution Lead Time (Historical) For One SKU



## Expected Contribution

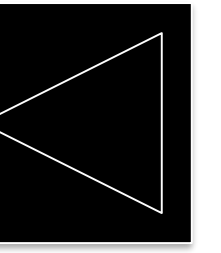
Demonstrate the benefits of using artificial intelligence to predict planning parameters (such as lead time) for the planning process.

Darryl Yau



# Hyperlink Test

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- Possible Next Page/Expansion