SOLVE FOR X.

Optimizing Your Supply Chain with Advanced Analytics

Presented by:

Charles Otten

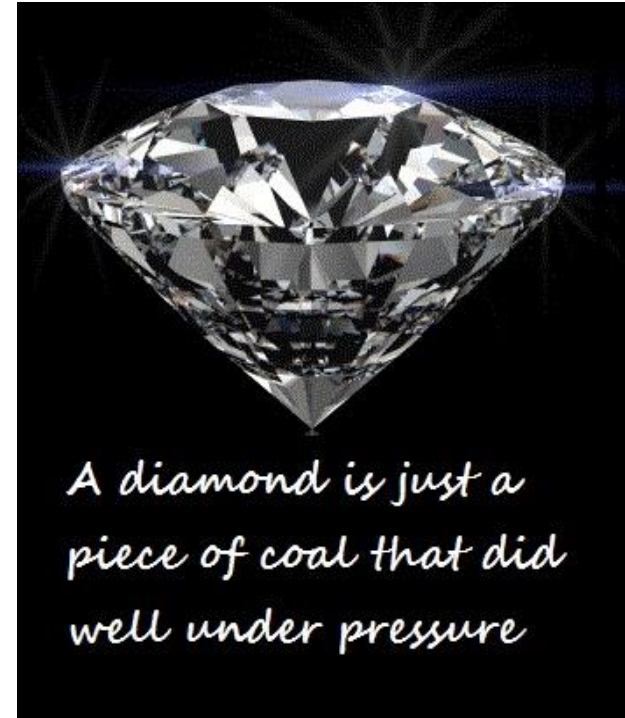**Scott Wahl**
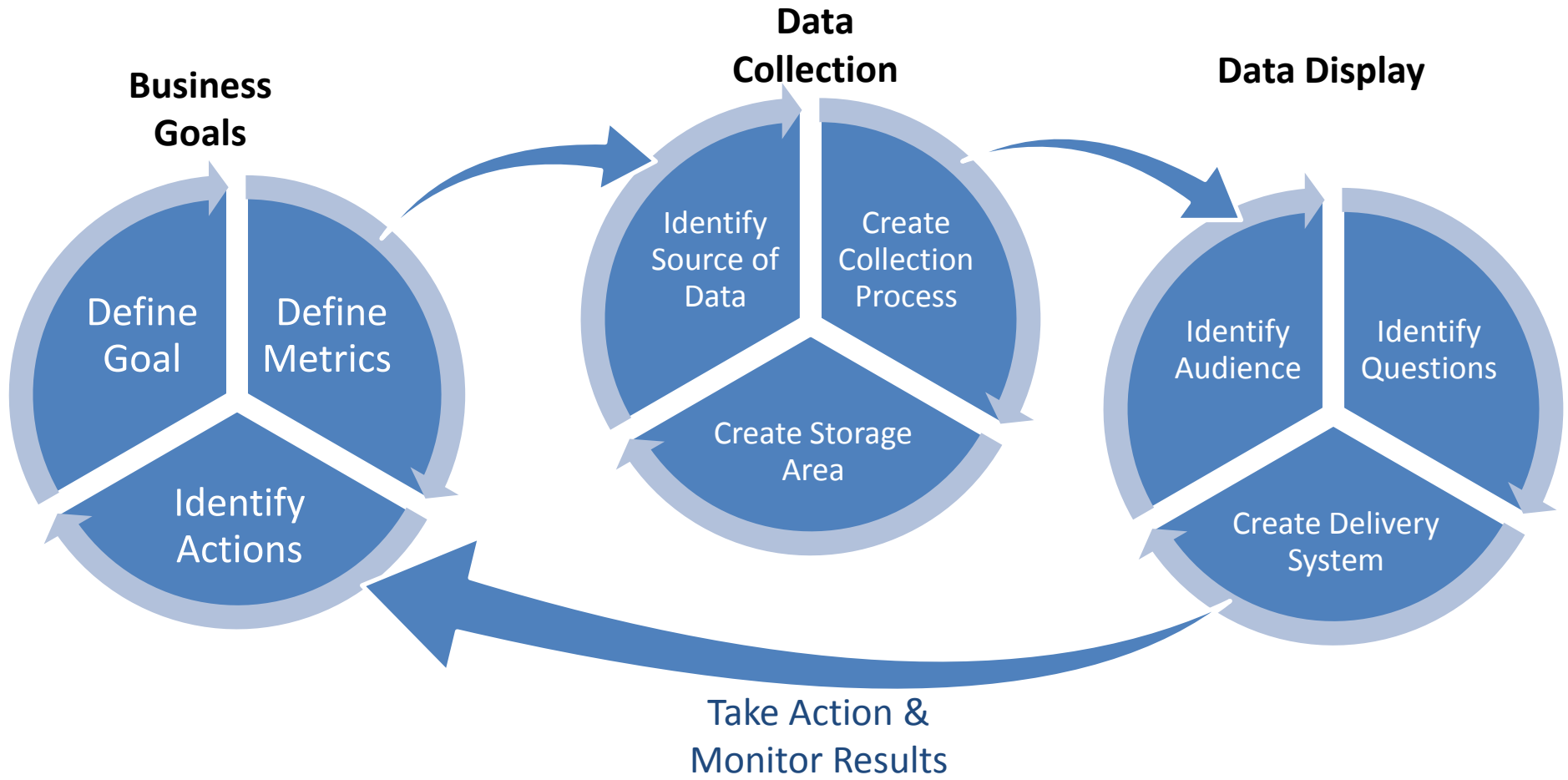
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Agenda

- Industry Pressures
- The Right Data
- Value of Historical Data Analytics
- How to use Predictive Analytics

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X = Industry Pressures

- Reduced ship time
- Optimize Labor / Equipment
- Reduce number of touches required
- Strive for continuous flow of material
- Access to Data for Reporting throughout Enterprise
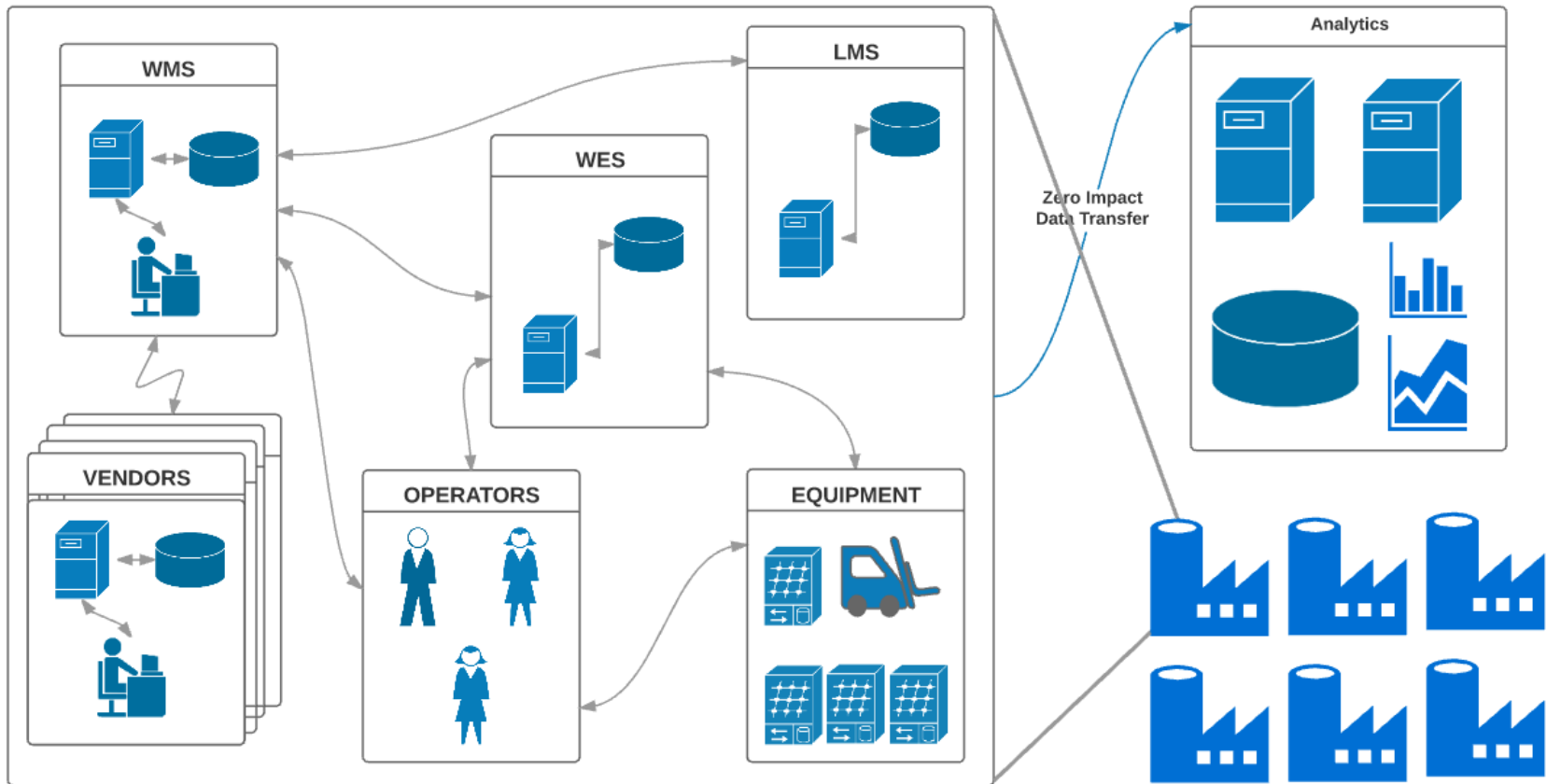- Cartonization
- Cost per case

A diamond is just a piece of coal that did well under pressure

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X = "How to collect the data"

COLLECTING THE DATA

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X = "Who is the audience?"

AUDIENCE OF ANALYTICS

Metric: Operator Pick Rate

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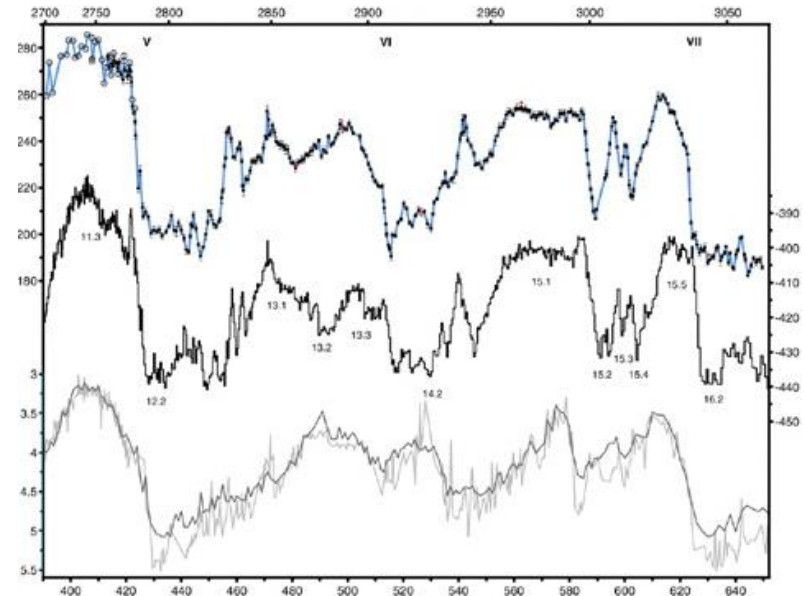April 3-6, 2017
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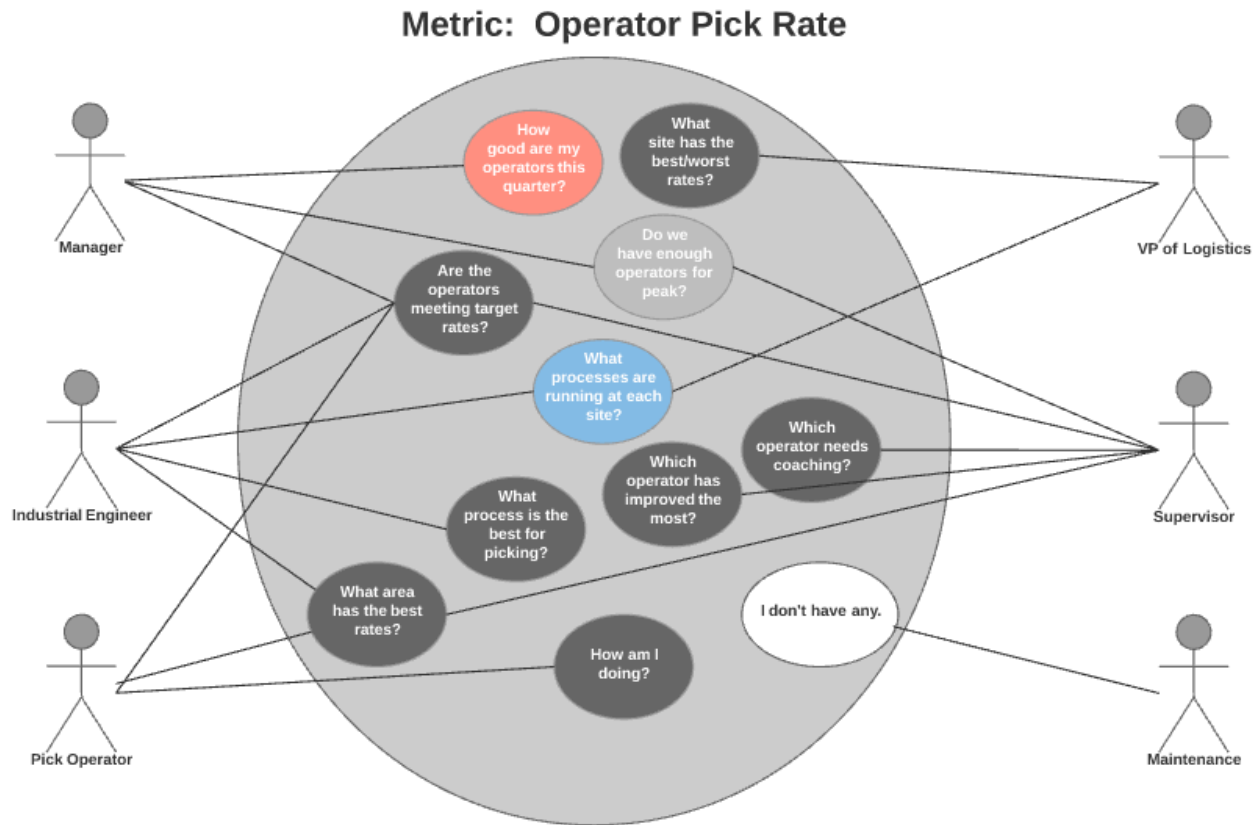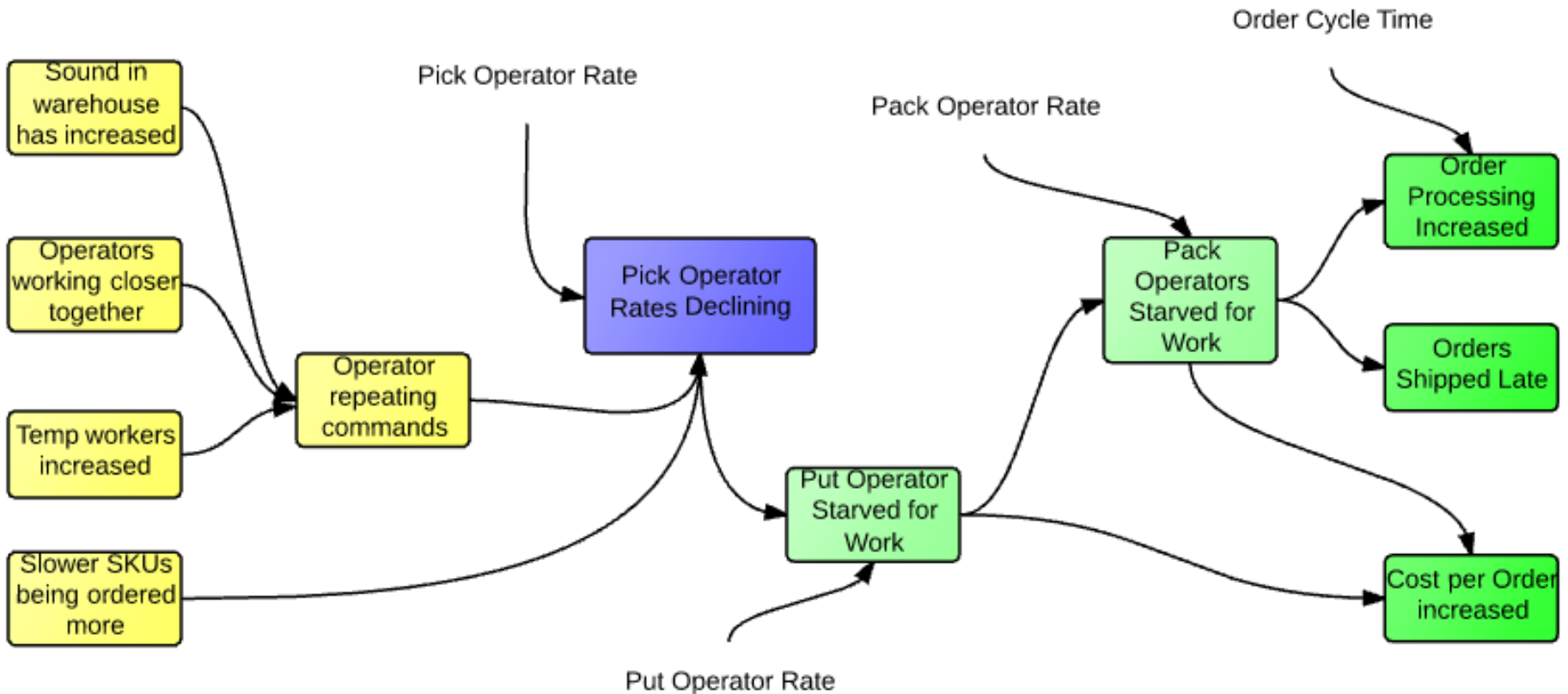
X = "Proxies for Performance"

The Problem

- Top metric is desired but the data is not easily accessed.
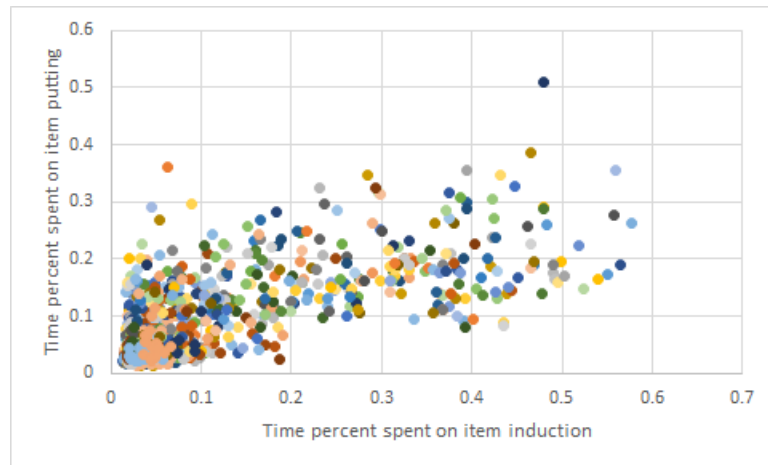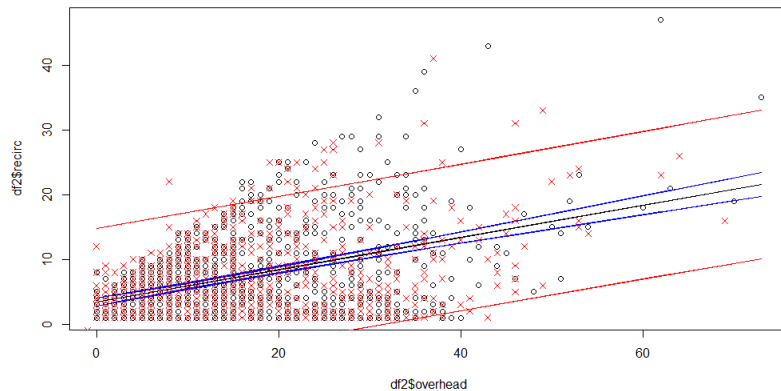
- Middle and Bottom metric are easily accessed.

The Solution

- Use the 2nd metric as a proxy. When it is bad, the top metric is likely bad.

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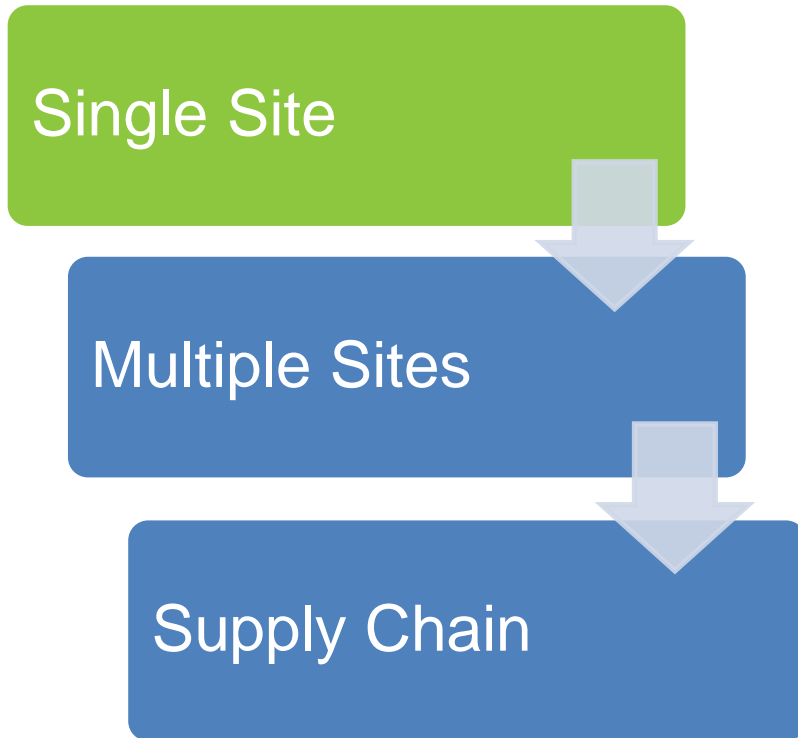powered by MHI

X = "Areas to Investigate"

- Overall System Availability
- Track Operations (Equipment and People) identifying changes in performance
- Manage individual processes (Cycle Times)
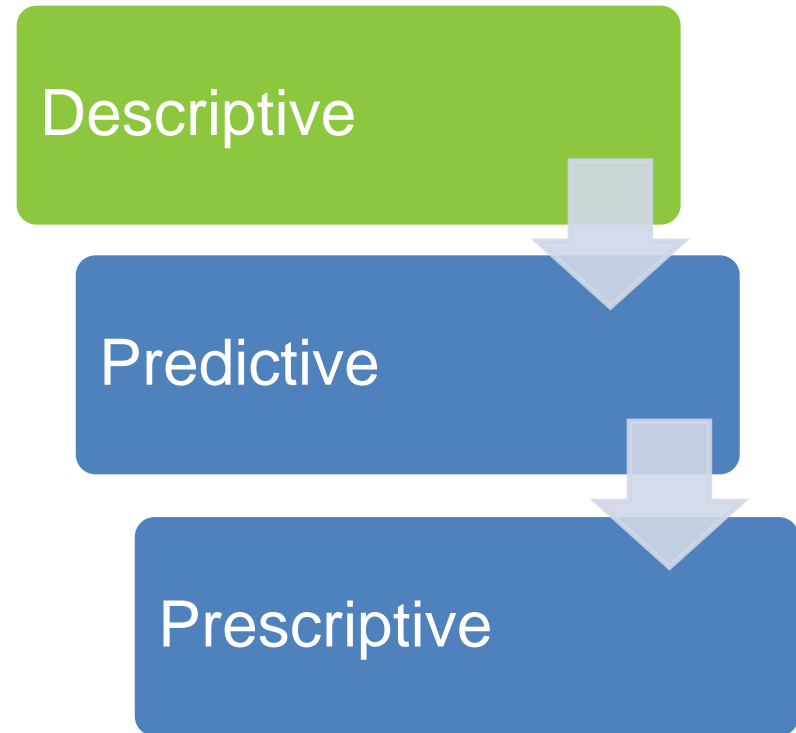- System Fault Trending

X = "Breadth or Depth"

Increase visibility *breadth*

Increase insight *depth*

Single Site	Descriptive

↓ ↓

Multiple Sites	Predictive

↓ ↓

Supply Chain	Prescriptive

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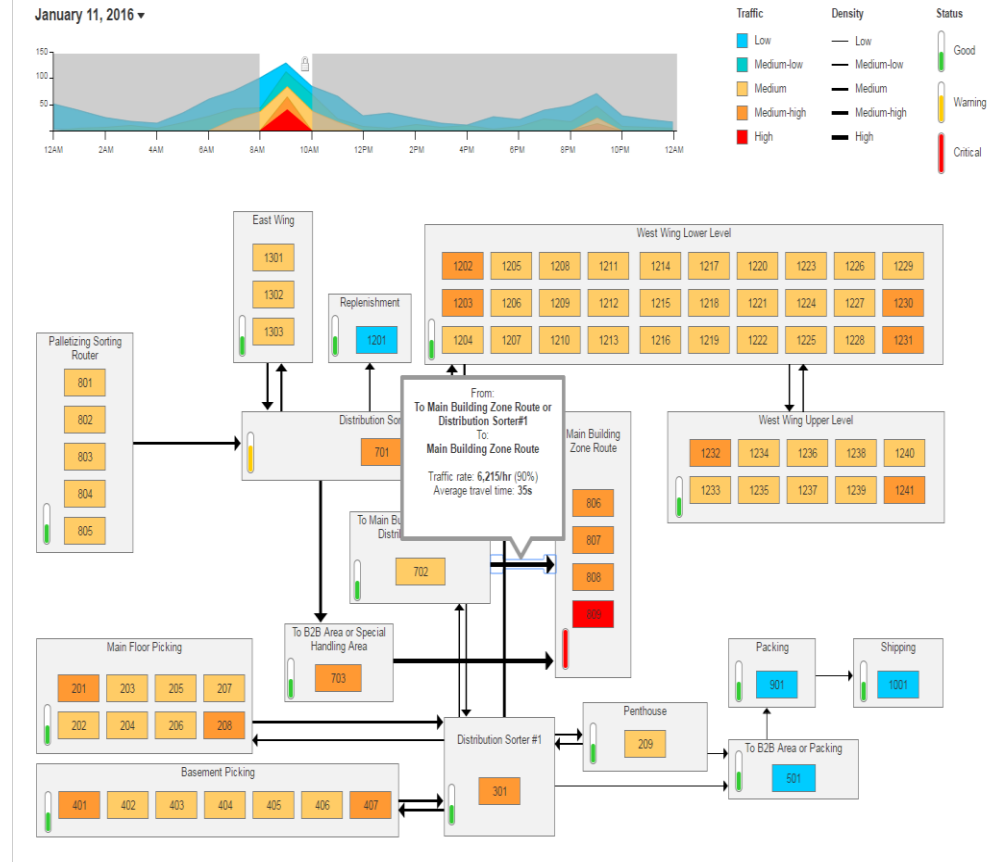powered by MHI

X = "Bottlenecks"

- Machine Learning
- Build algorithms to analyze data streams
- Make recommendations to optimize operations
- Allow 'what-if' analysis with robust simulations
- Automatically change system behavior

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X = "Examples"

- Wave Analysis
  - When should I release each wave?
  - Are the number of orders in the wave the right size?
  - Is the wave optimizing my operators or equipment?
- Operator Analysis
  - How much more can I ship for each operator I add?
  - How confident am I of the number?
  - Are my operators impacted by equipment?

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Key Takeaways

- ✓ Always start with the goal in mind.
- ✓ Identify your key metrics, the required data, the processes involved.
- ✓ Start with small, actionable insights and ensure accuracy.
- ✓ Increase breadth and depth.
- ✓ Don't be afraid to think big!

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Questions and Answers

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