

SOLVE FOR X.

***Optimizing Your
Supply Chain
with Advanced
Analytics***

Presented by:

Charles Otten

Scott Wahl

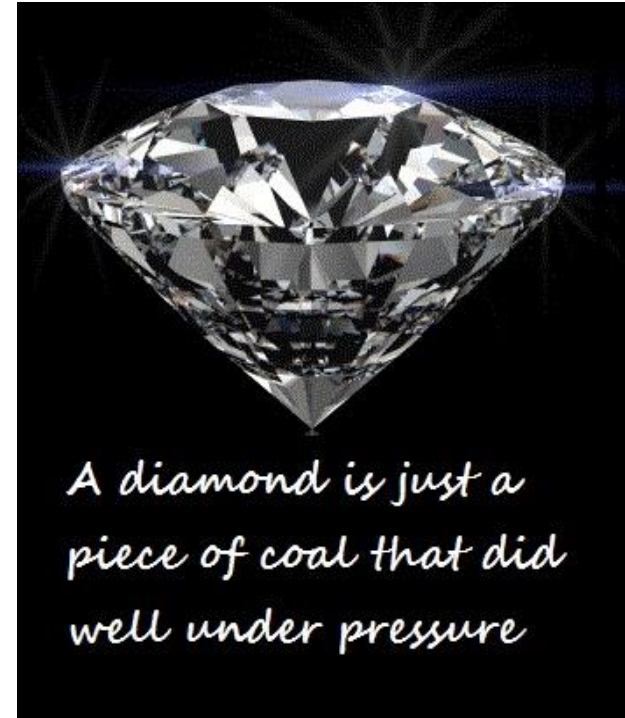


Agenda

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

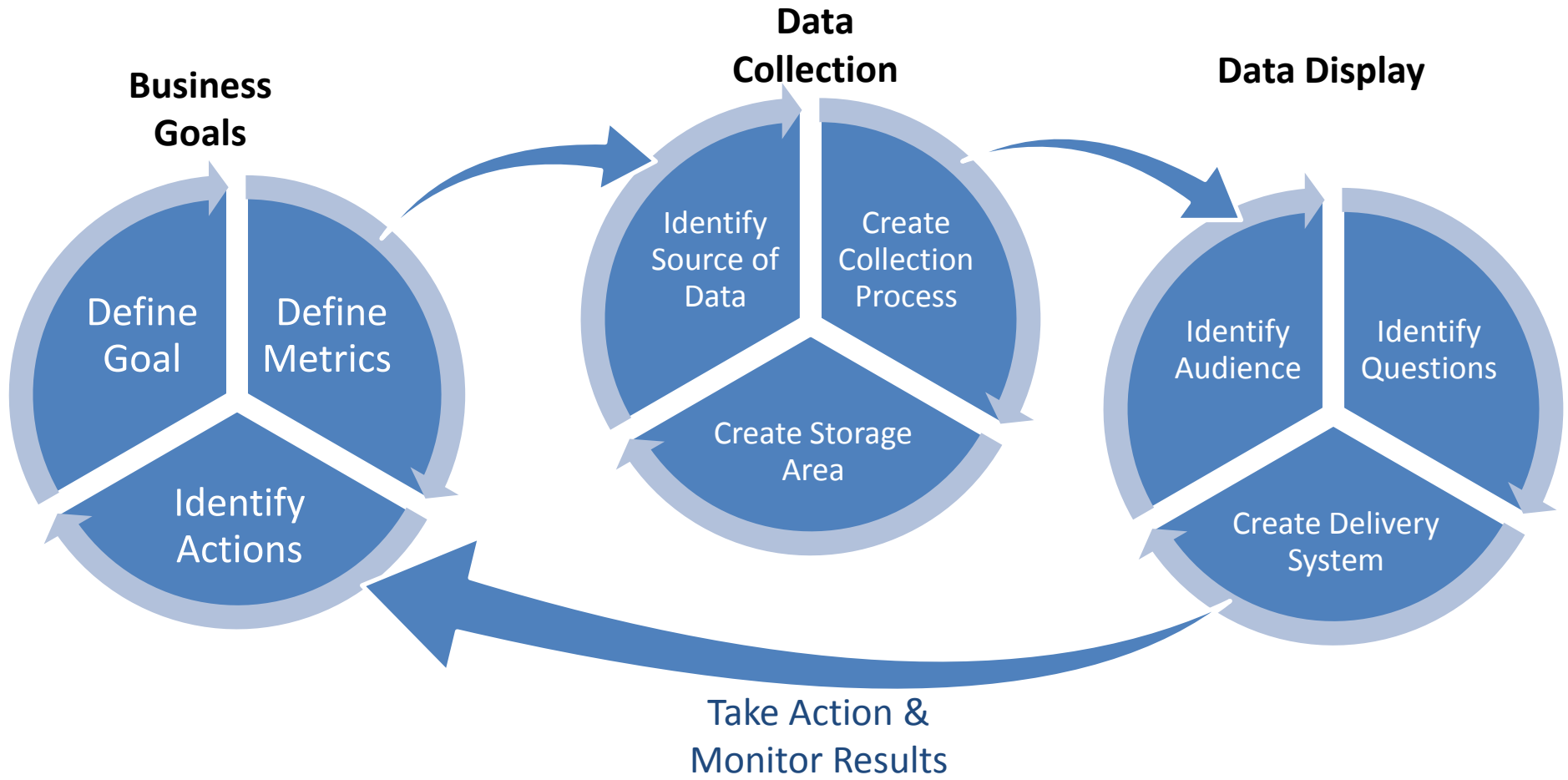
X = Industry Pressures

- 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



SOLVE FOR X.

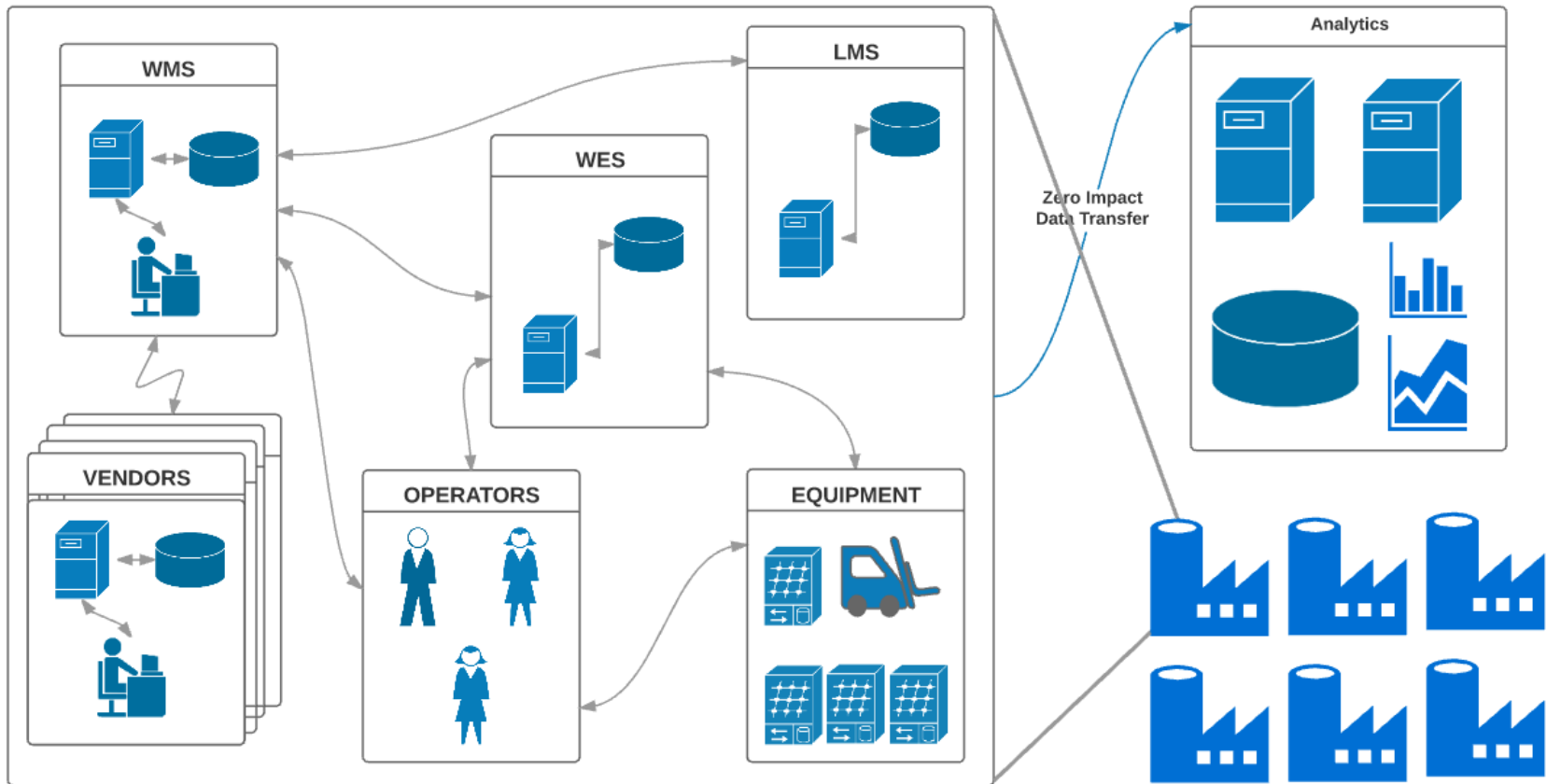
X = “How to implement Analytics”



SOLVE FOR X.

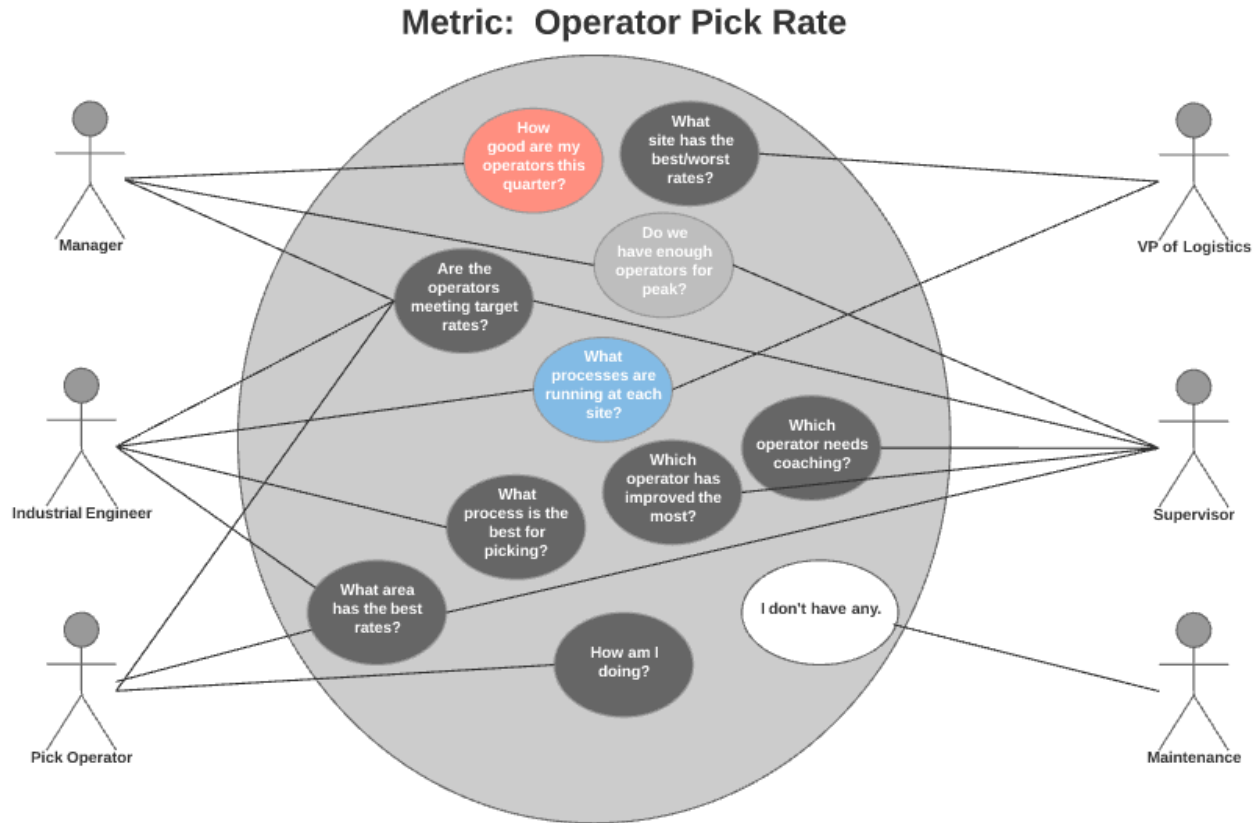
X = “How to collect the data”

COLLECTING THE DATA



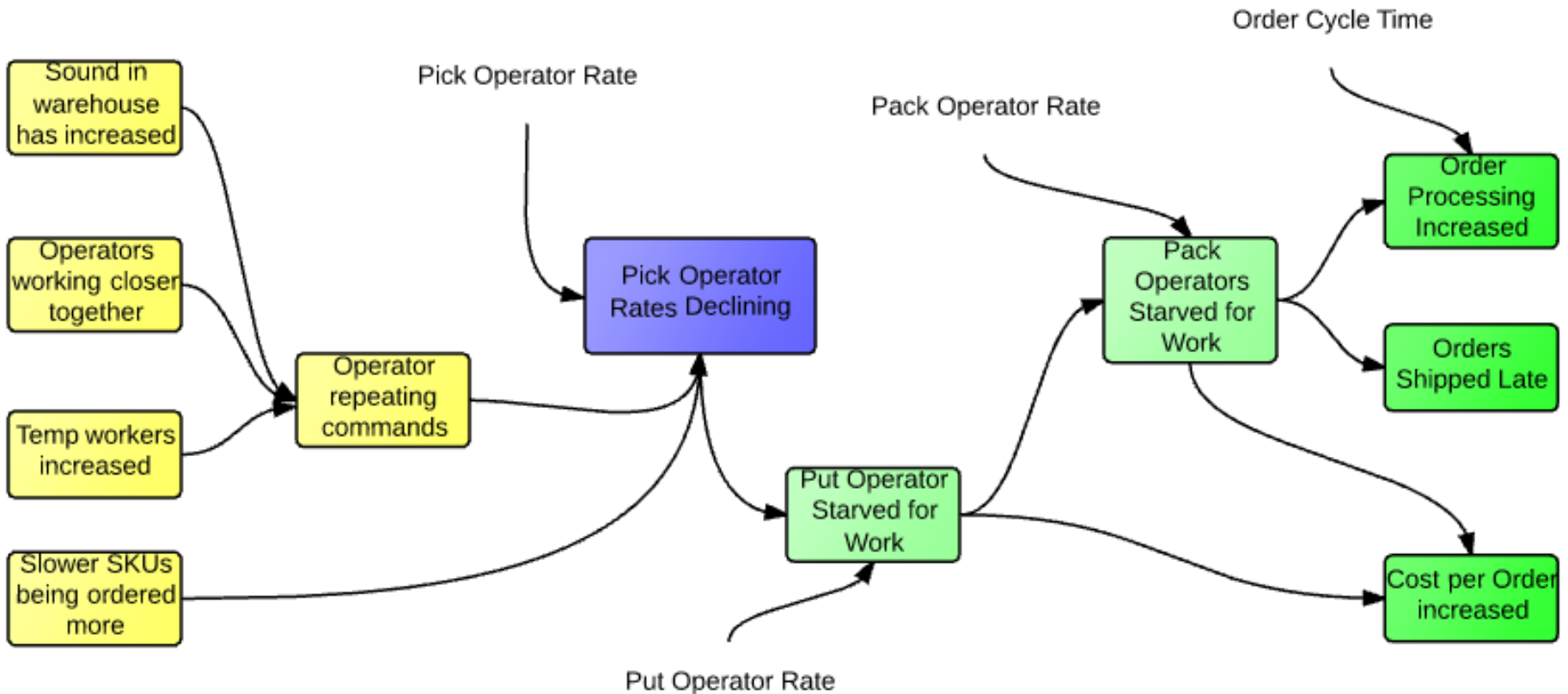
X = “Who is the audience?”

AUDIENCE OF ANALYTICS



SOLVE FOR X.

X = “Find the Cause(s)”



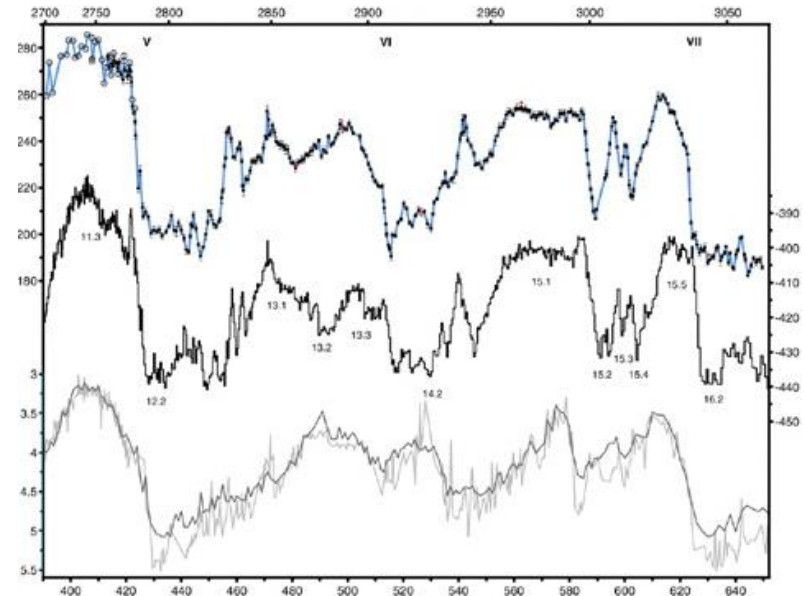
X = “Proxies for Performance”

The Problem

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

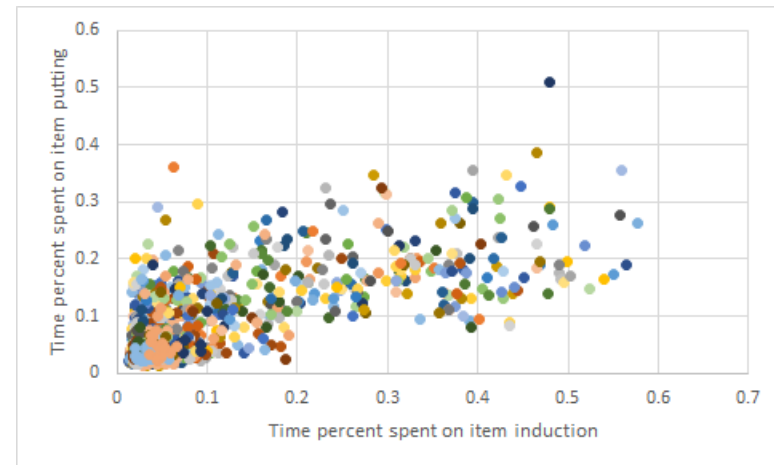
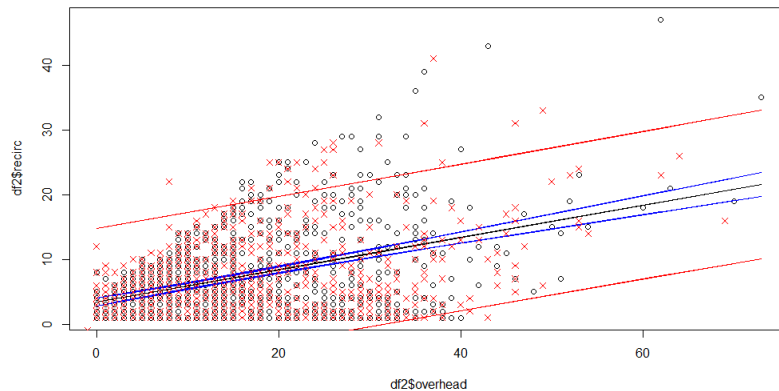
The Solution

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



X = “Areas to Investigate”

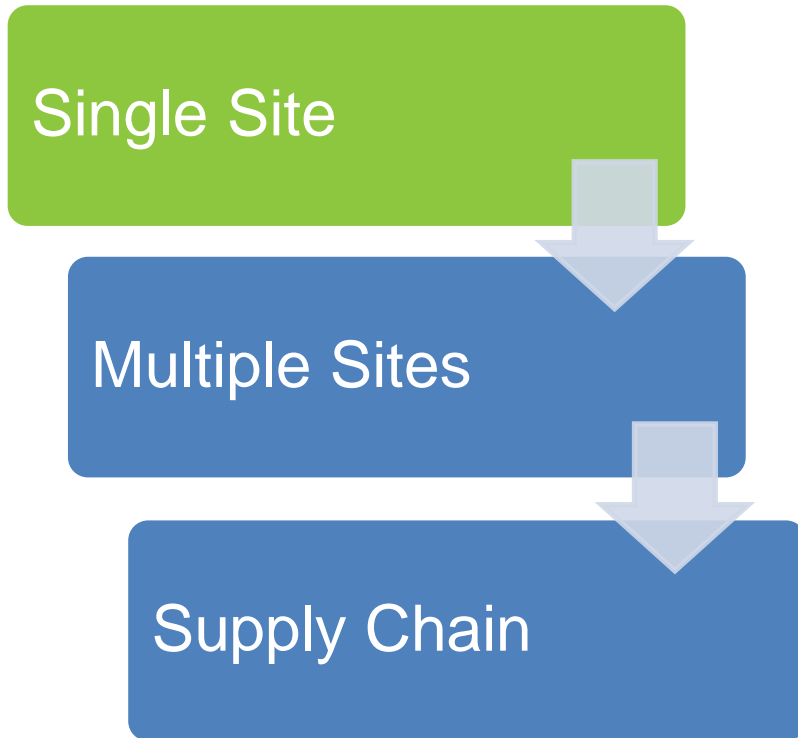
- Overall System Availability
- Track Operations (Equipment and People) identifying changes in performance
- Manage individual processes (Cycle Times)
- System Fault Trending



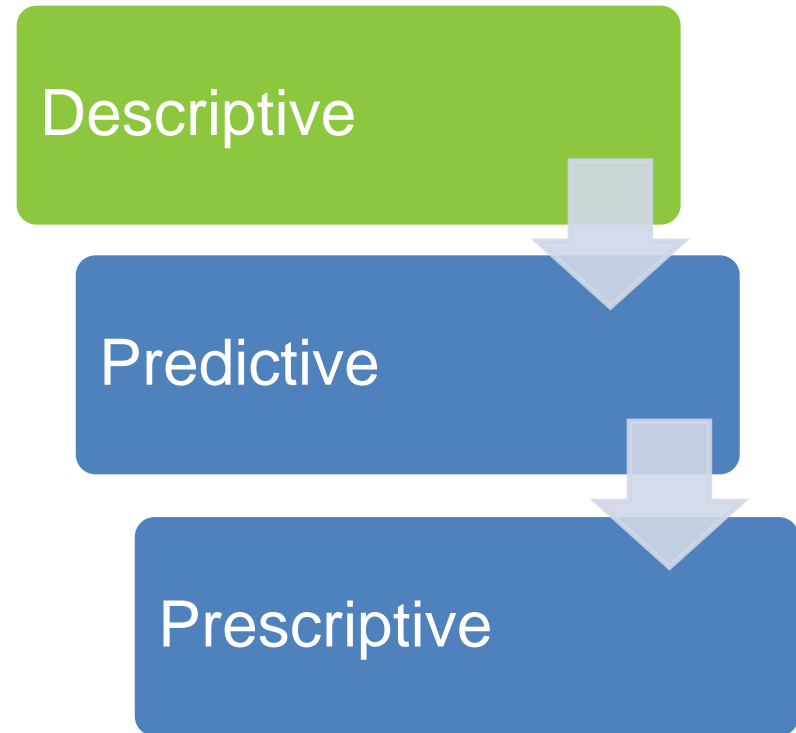
SOLVE FOR X.

X = “Breadth or Depth”

Increase visibility *breadth*



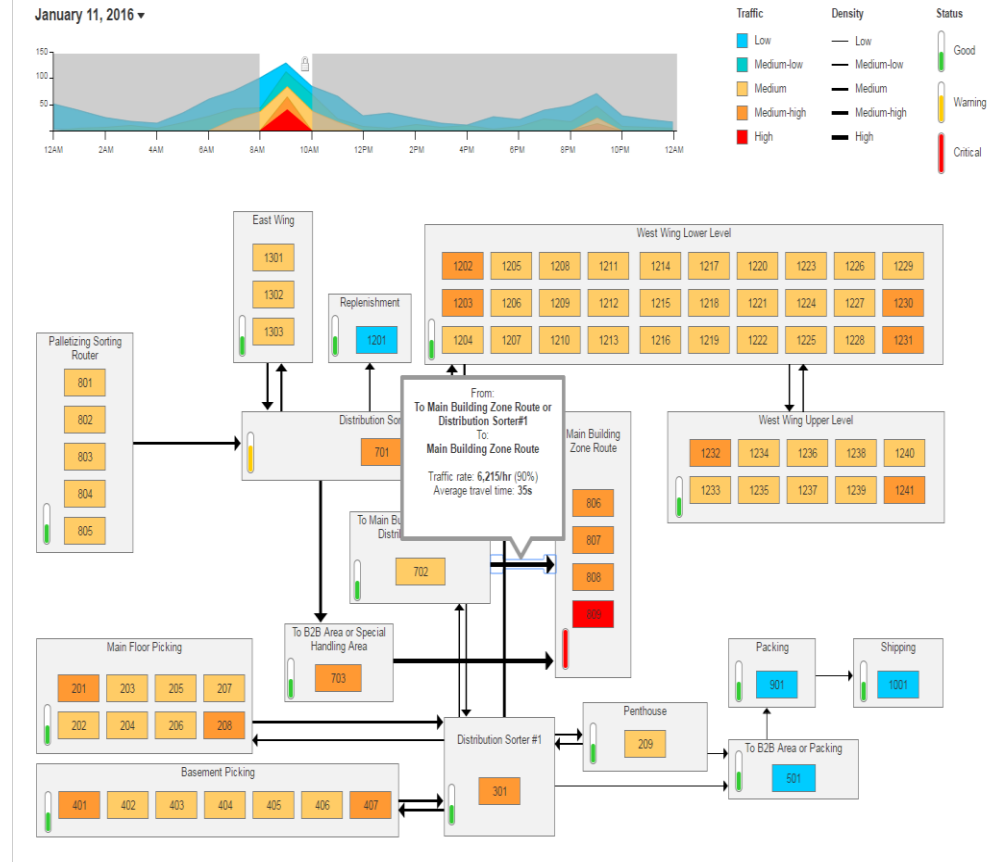
Increase insight *depth*



SOLVE FOR X.

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



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?

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!

For More Information:

Speaker #1 email: Charles.Otten@dematic.com

Website: www.dematic.com

Speaker #2 email: Scott.Wahl@dematic.com

website: www.dematic.com

Or visit ProMat Booth #S1203