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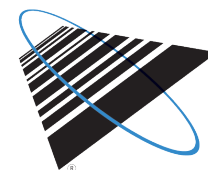
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Impacting Your Business with Analytics

Sponsored by:



Barcoding
I N C O R P O R A T E D

4263

Presented by:

Shane Snyder

President, Barcoding, Inc.

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AGENDA

- Analytics – Impact vs. “Buzz” Words
- Why Should You Care?
- Disruptors/Responses/Questions/Closing the Gap
- AIDC Optimization
- Operational Data Integration
- Use Case Example

**FIND WHAT'S
NEXT.**



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Today's Reality: 10 Supply Chain Disruptors

E-Commerce	Relentless Competition
Mass Personalization	Urbanization
Mobile / Wearable Computing	Sensors / Internet of Things
Robotics / Automation	Big Data / Predictive Analytics
Sustainability	Changing Workforce

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4 Ways to Respond to Disruption



No
Big
Deal



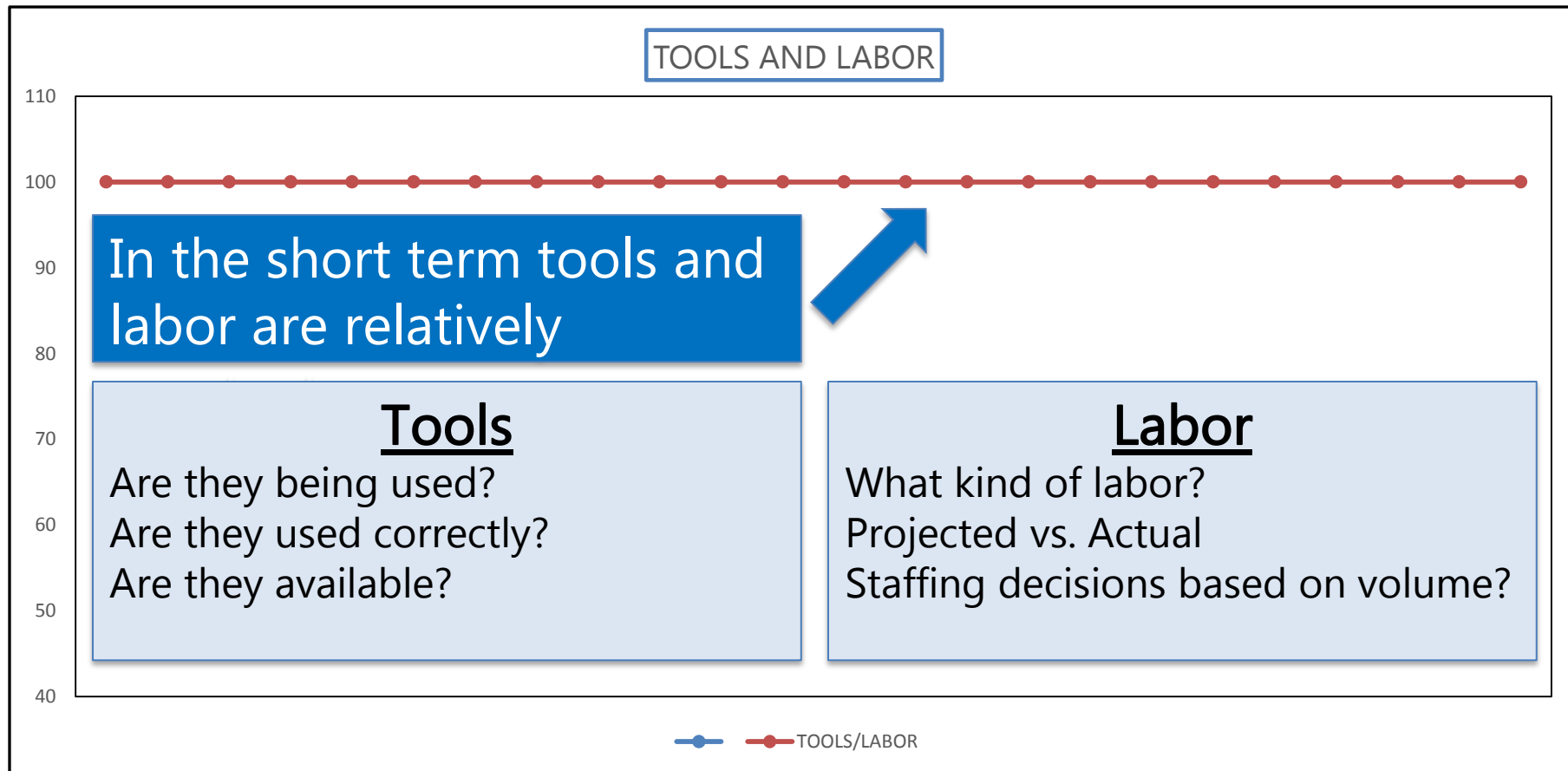
Choosing to Dive Right In? ASK

- What are we solving for?
- What analytics tools are available?





What Are We Solving For?



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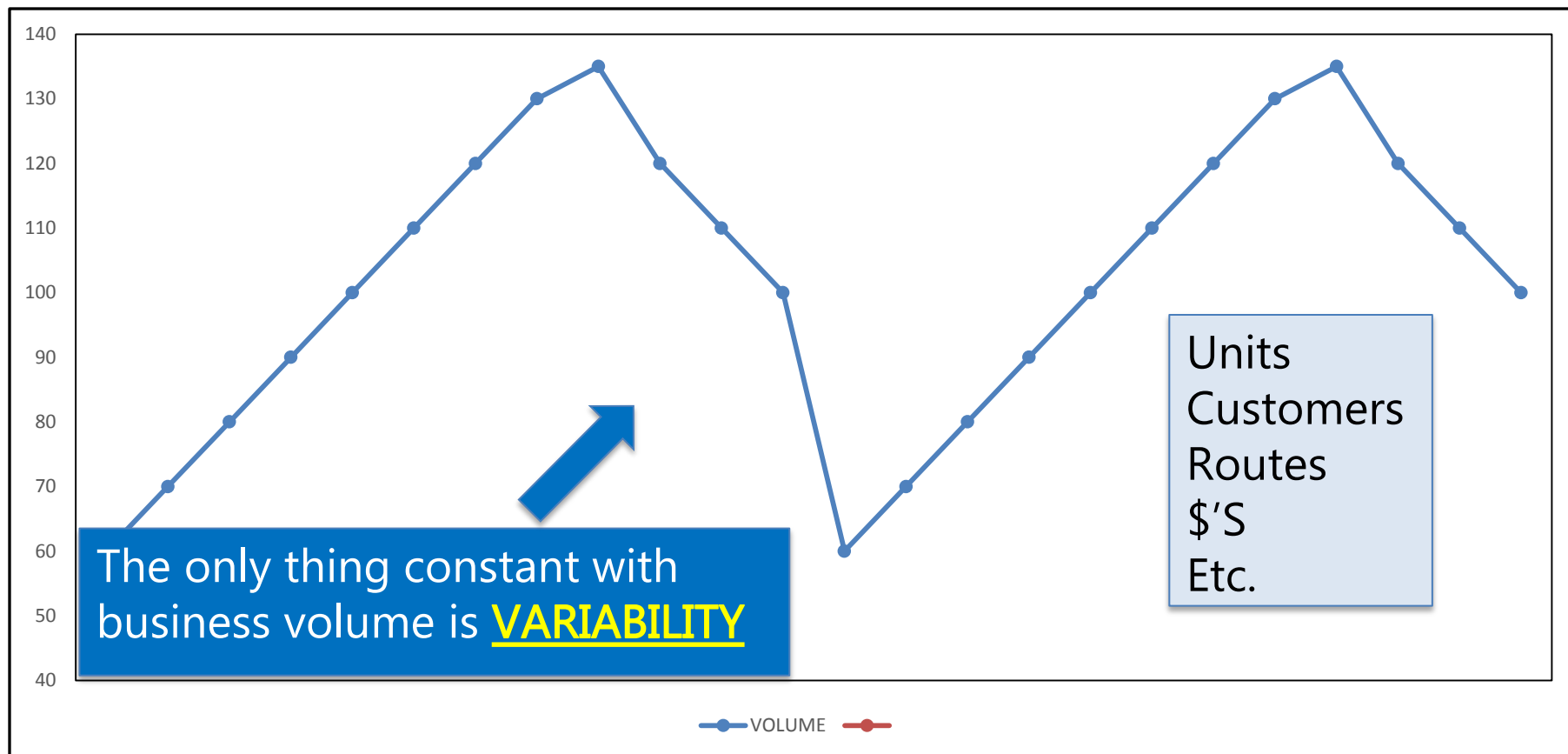
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What Are We Solving For? Business Volume



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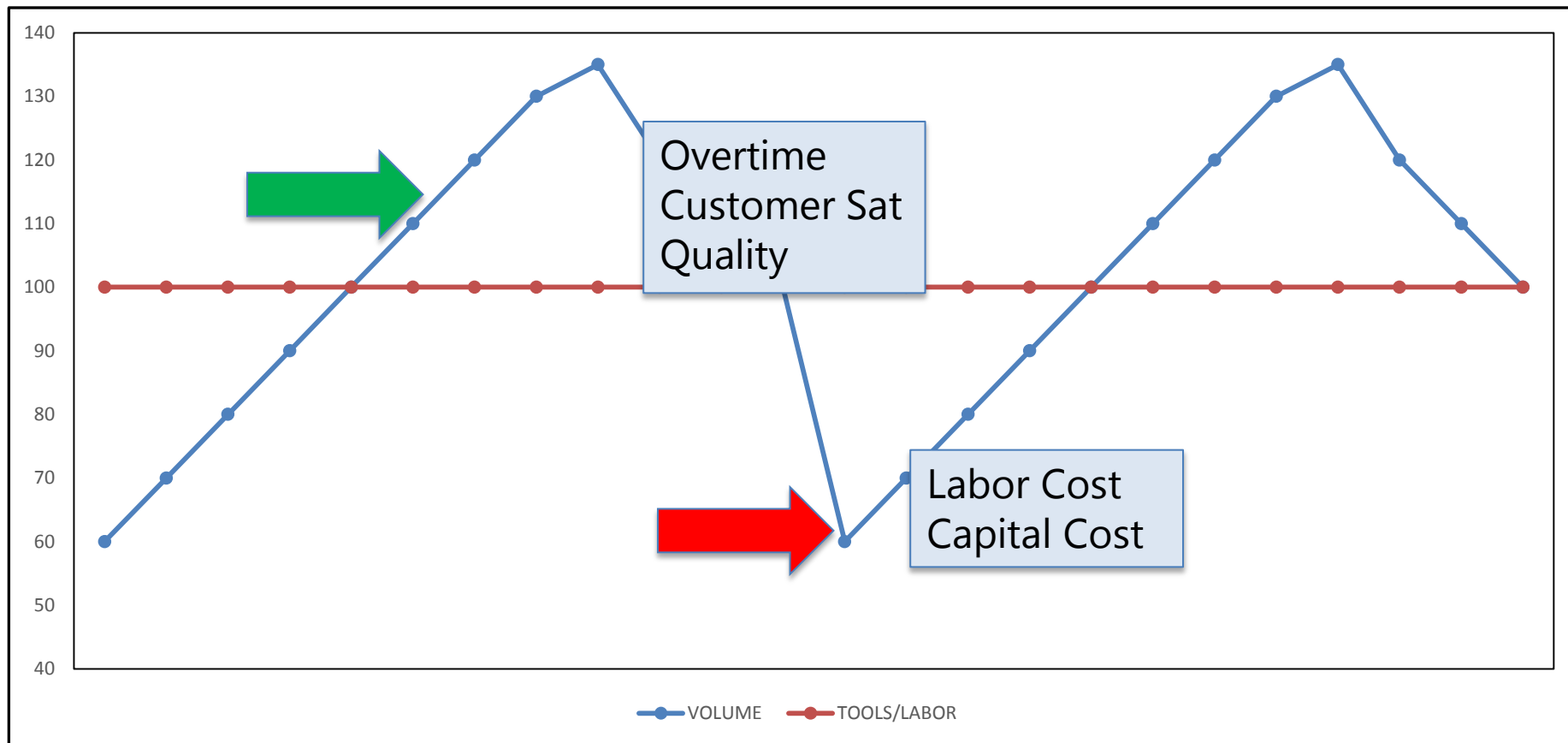


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What Are We Solving For? Volume vs. Tools and Labor



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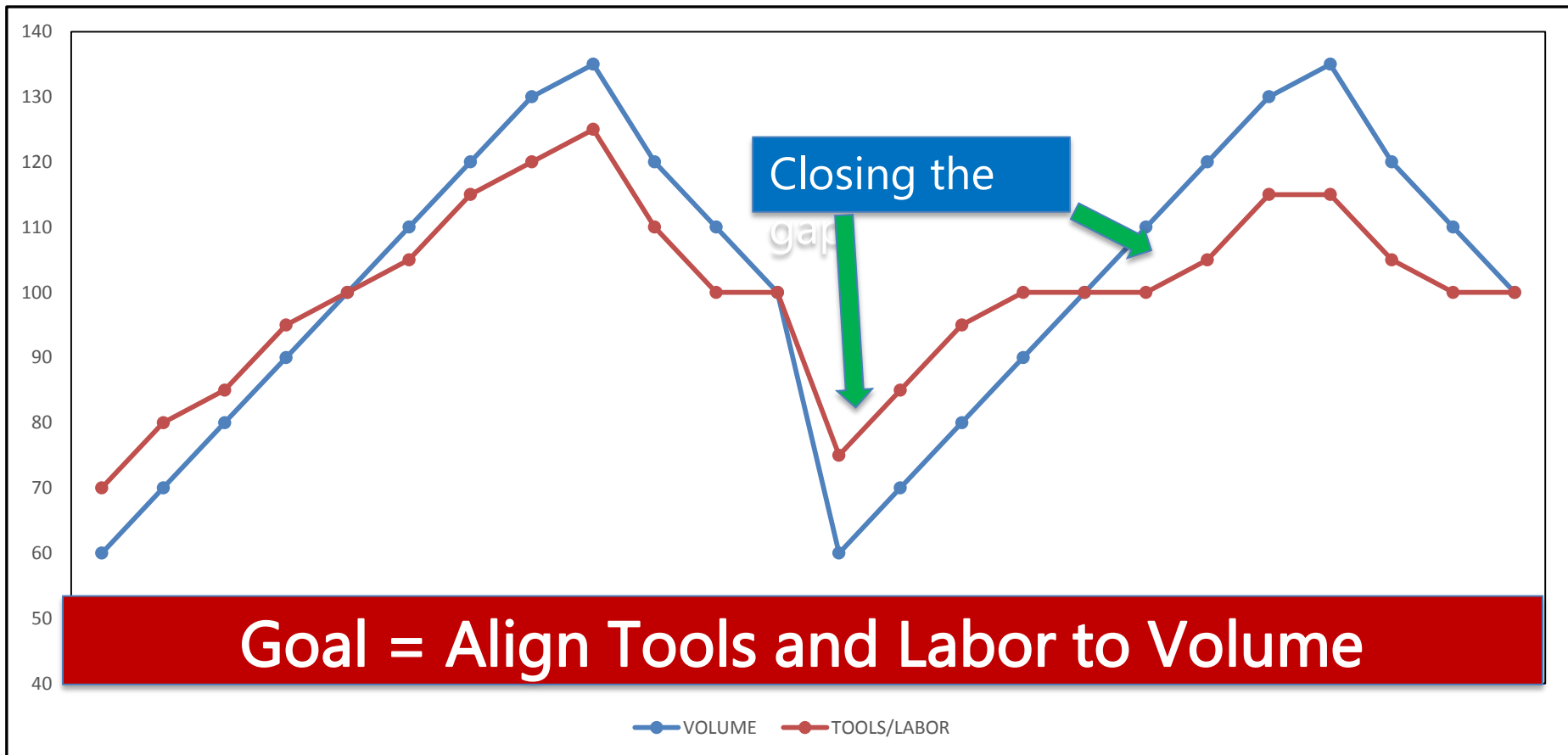


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What Are We Solving For? Volume vs. Tools and Labor





2 Categories of Analytics Closing the Gap

AIDC Optimization

- Better Products
- Greater Adoption/Predictive Support/Effectiveness

Integration of Operational Data

- Labor – Full Time/Par Time/Temp/Overtime/etc.
- Volume – Customers/Product/Procedure/etc.



Analytics Tools: AIDC Optimization

- Dashboards & reporting tools – **Availability/Timing**
- Deployment performance analytics - **Adoption**
- Root cause issue analytics – **Prevention**
- ROI measures – **Continuous Improvement**
- Diagnostics / Fault resolution – **Predictive**



Analytics Tools: AIDC Optimization

- Tight application integration – Full view
- Application performance analysis – Effectiveness
- Processes performance analysis - Who/How/What
- Continuous improvement cycle - Impact



Integration of Operational Data

- **Labor:**
 - Full Time
 - Part Time
 - Temp
 - Overtime/etc.
- **Volume:**
 - Customers
 - Product
 - Processes





Analytics Tools

- Production Data (Volume)
- Integrated with Labor / Cost / Customer Data
- Timely: Daily vs. Weekly or Monthly
- Support Decisions
 - Staffing: Timing/Type/Quantity
 - Capital Expenditures



Remember These Supply Chain Disruptors?

Relentless Competition

Faster / Better (data)
Decisions

Mobile / Wearable
Computing

Leverage Investment

Sensors / Internet of Things

More/Better Data → Faster

Big Data / Predictive
Analytics

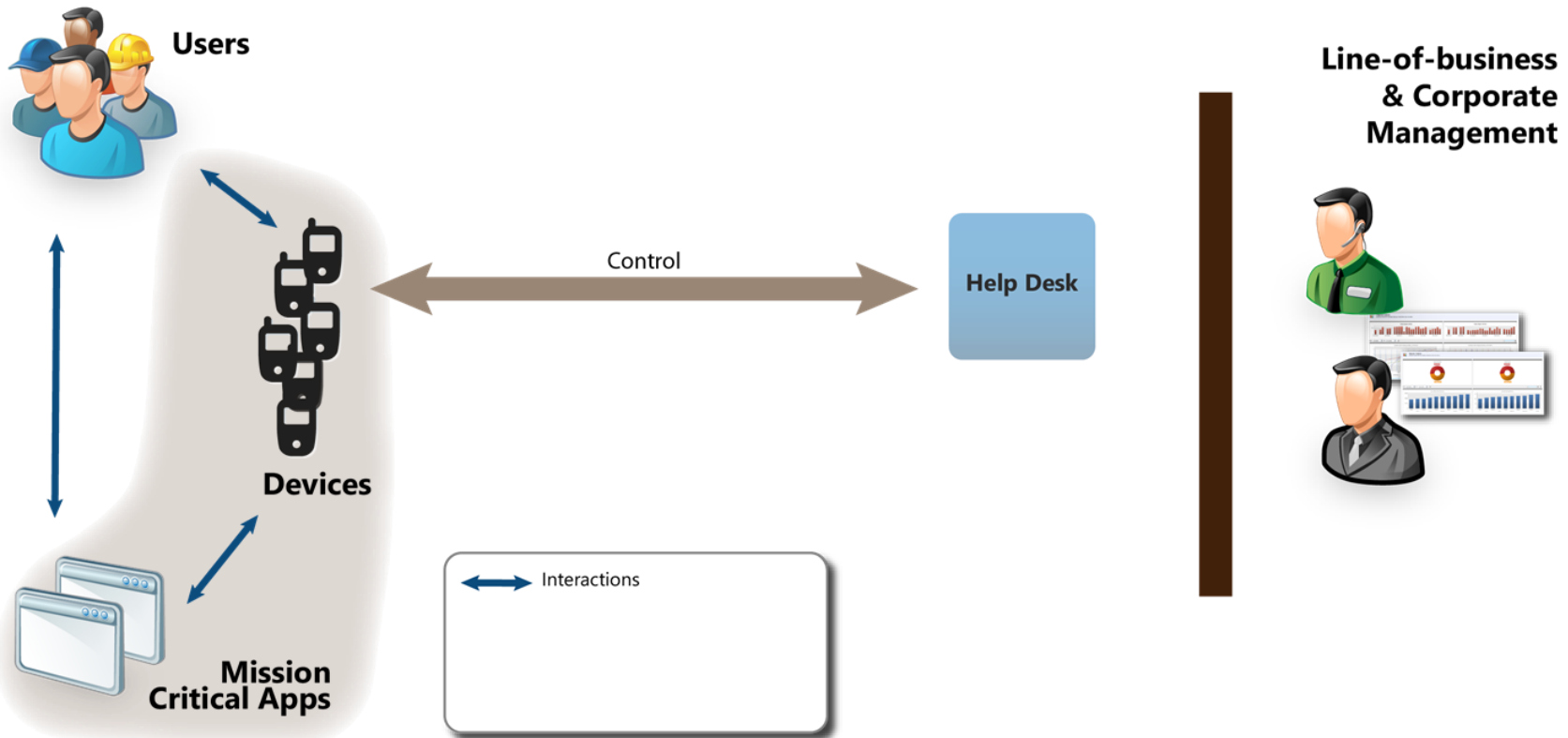
Beyond the buzzwords

Changing Workforce

Leverage HR/Payroll data



Use Case Example



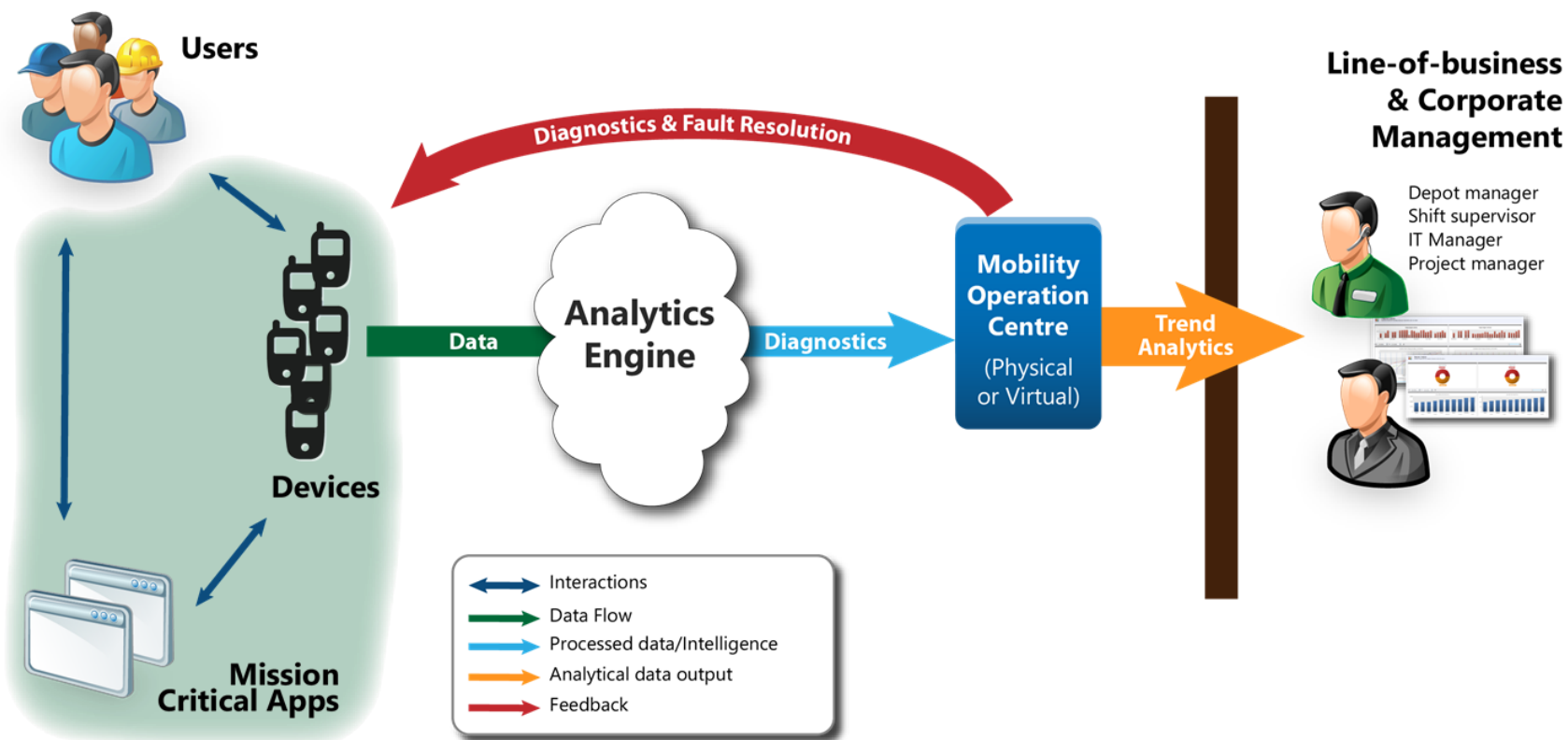
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THE INDUSTRY THAT MAKES SUPPLY CHAINS WORK™

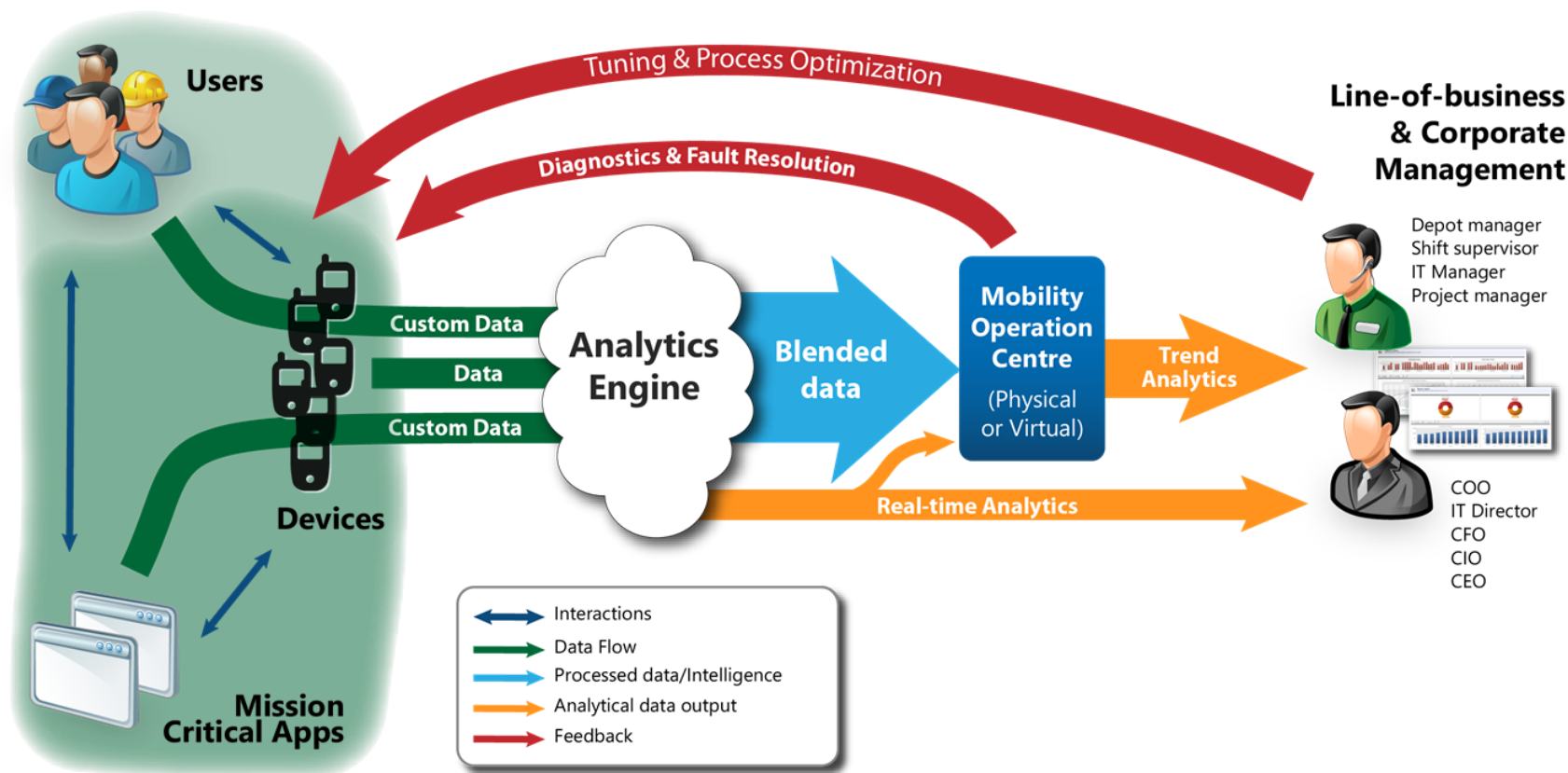
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Detailed Battery Analysis

- Preventative battery management
- Safeguards that devices and batteries are fit for purpose
- Proactively swap out end-of-life batteries
- Ensures that workers are following recommended charging disciplines
- Improve worker productivity



Example: Worker Productivity

Measure and understand negative impacts to worker productivity by ensuring:

- That devices and batteries are fit for purpose
- Network infrastructure supports solutions
- Other productivity impacts are identified



Remove these obstacles to productivity

- Identify location with issues and target them for improvement
- Pro-actively swap out end-of-life batteries
- Pro-actively swap network providers

Example: Worker Productivity

- Implement benchmarks and best practices
 - Identify location with good metrics
 - Target locations with poor metrics
- Measure ROI
 - Worker downtime
 - Operational Cost
 - Business Process Inefficiencies



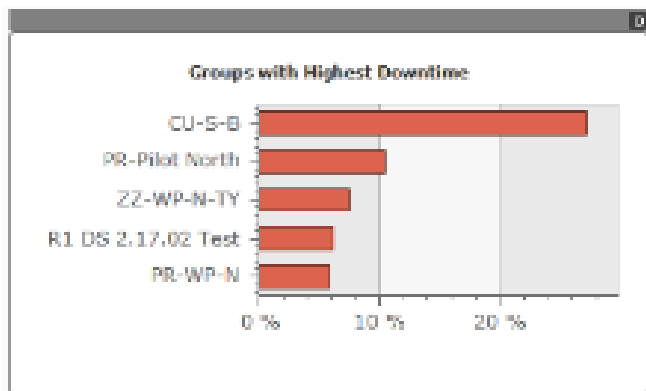
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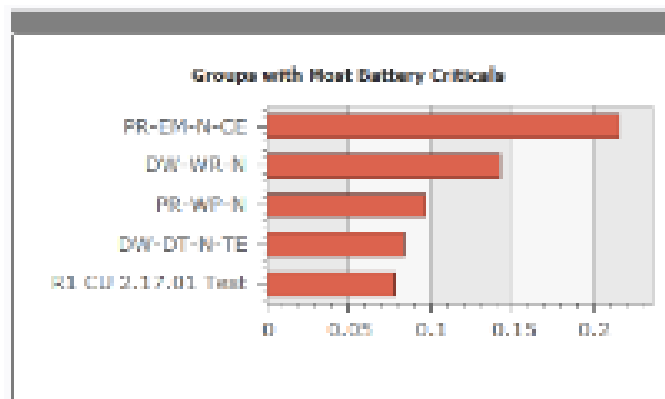
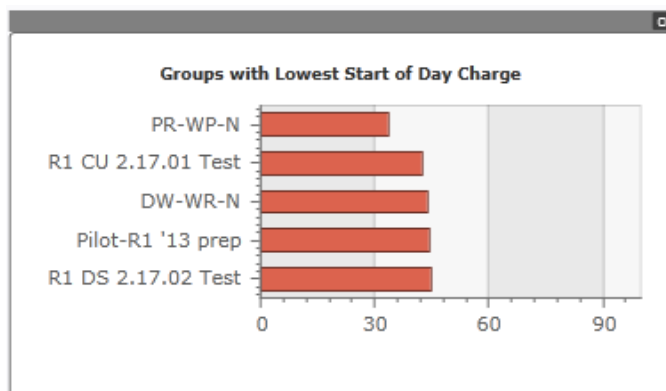
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Measure locations/ groups.
Find the most downtime, lowest
charges at the start of the day,
and most battery criticals.



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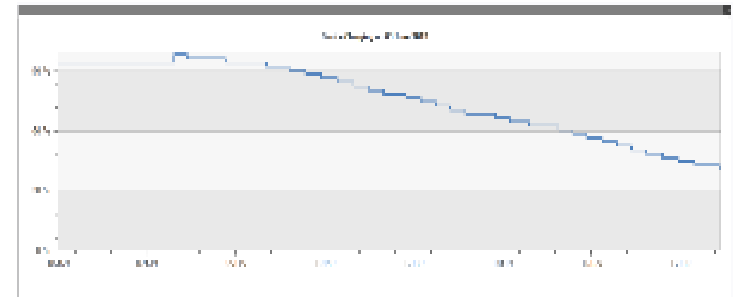
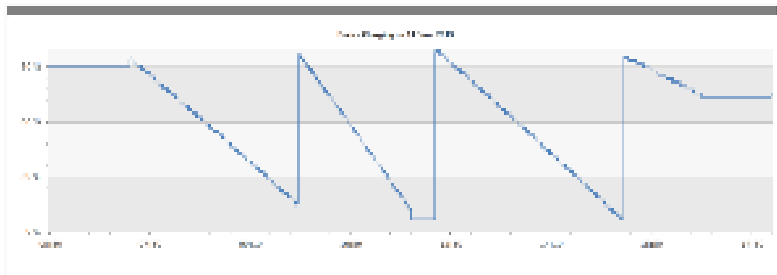
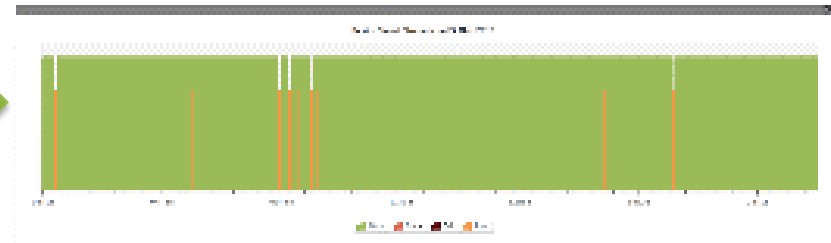
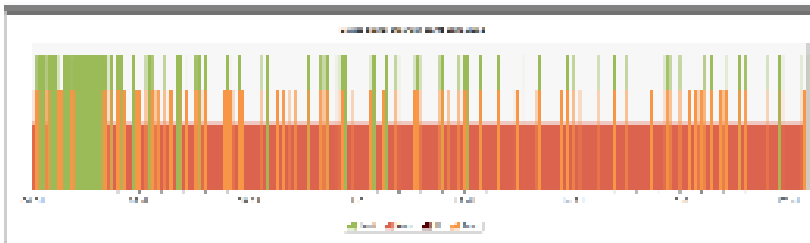


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Example: Worker Productivity



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	<u>C</u>ASH (REVENUE)	<u>C</u>OSTS (REDUCTION)	<u>C</u>USTOMER (EXPERIENCE)
EFFICIENT	More with the same	More with Less	More Timely
ACCURATE	Fewer Return	Less Labor	Right Product / Right Time
CONNECTED	Lower DSO	Less Paper / Manual Entry	Better Visibility (Think Amazon)

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