

RFID
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Lean Manufacturing & Intelligent Kaizen

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Next Generation V.A.C. Therapy Consumables

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Just a Bit About Me.....

- Technology Engineering, Program, and Product Management - 17 years
 - Industrial Ice Manufacturing and Distribution (Domestic and International)
 - United States Navy Veteran
 - Defense and Commercial Aerospace Build to Print Manufacturing
 - Commercial Aerospace Auxiliary Power Systems and Cockpit Systems R&D
 - Medical Negative Pressure Therapy Consumable R&D
 - Auto-ID Technology implementation (Design, Test, Launch, and Validation)
- Worked and lived all over the world
 - US, Nigeria, Spain, France, Taiwan, China

Session Synopsis

Kaizen is generally accepted to mean "continuous improvement". Nowhere is it more applicable than the area of lean manufacturing. In this presentation learn how to leverage your existing data, as well as how to introduce your operations and administrative teams to the uses, constraints, and applications of Auto-ID technologies and removing waste. Gain an understanding of how RFID can make a difference in your day-to-day obligations for operational improvements and how to use the principles of Kaizen to achieve leaner manufacturing through automated data collection and using data you may not know exists.

The Kaizen Crunch

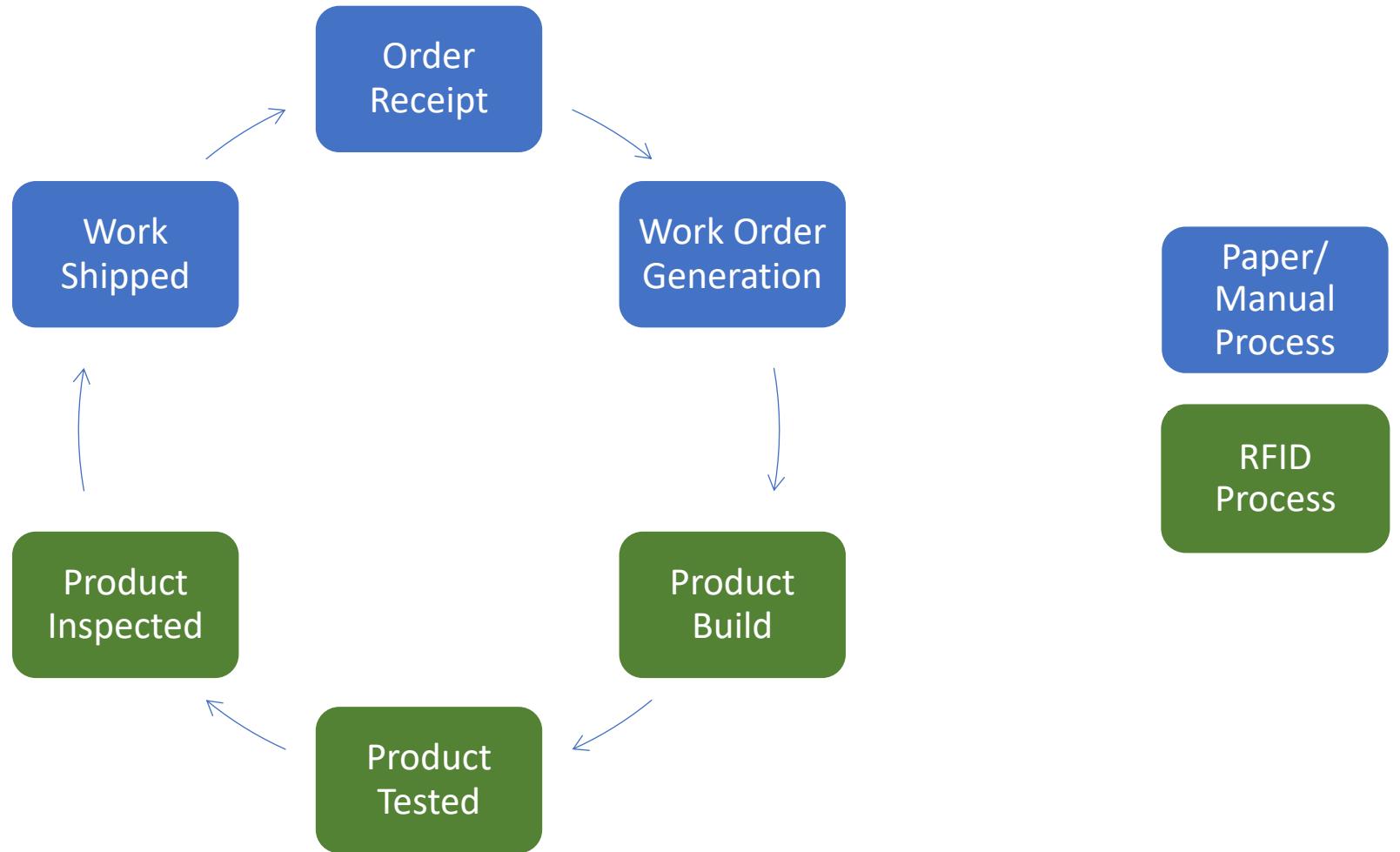
- “The Toyota Way” in 2001 – businesses have not looked back in their pursuit and elimination of waste to drive margin expansion and optimization of resources
- No end of tools and facilitation techniques to identify bottlenecks, opportunities for improvement, and allowing people up and down the org chart to finally see the real process.
- The mantra of do more with less is even hitting the “Continuous Improvement” teams within companies.
- Go Faster! Do More With Less!
- Why does getting better cost so much money? Is it really worth it?

Traditional RFID Implementations

- Focus on hardware or physical items moving about a process
- Tag everything for the listening phase
- Heavy focus on location detection and inventory management
- Weak or missing data for administrative processes



Traditional RFID Implementations



The State of Business Today

- Electronic capture of virtually everything
 - Timecards
 - Personnel movements throughout a facility
 - Physical hardware workflow steps
 - Inspections
 - Paperwork generation
 - Paperwork and approval steps
 - Shipping label generation
 - Physical shipments leaving a facility
- Digital paper trail can be found on virtually everything if you know where to look!



The State of Business Today

- What does electronic capture of virtually everything mean?
 - More data is available than most would believe
 - Most people don't even know what data is being captured
 - Electronic systems are seen only as a burden
 - The data is useless without context but if you can put it into context with process logic.....BINGO!

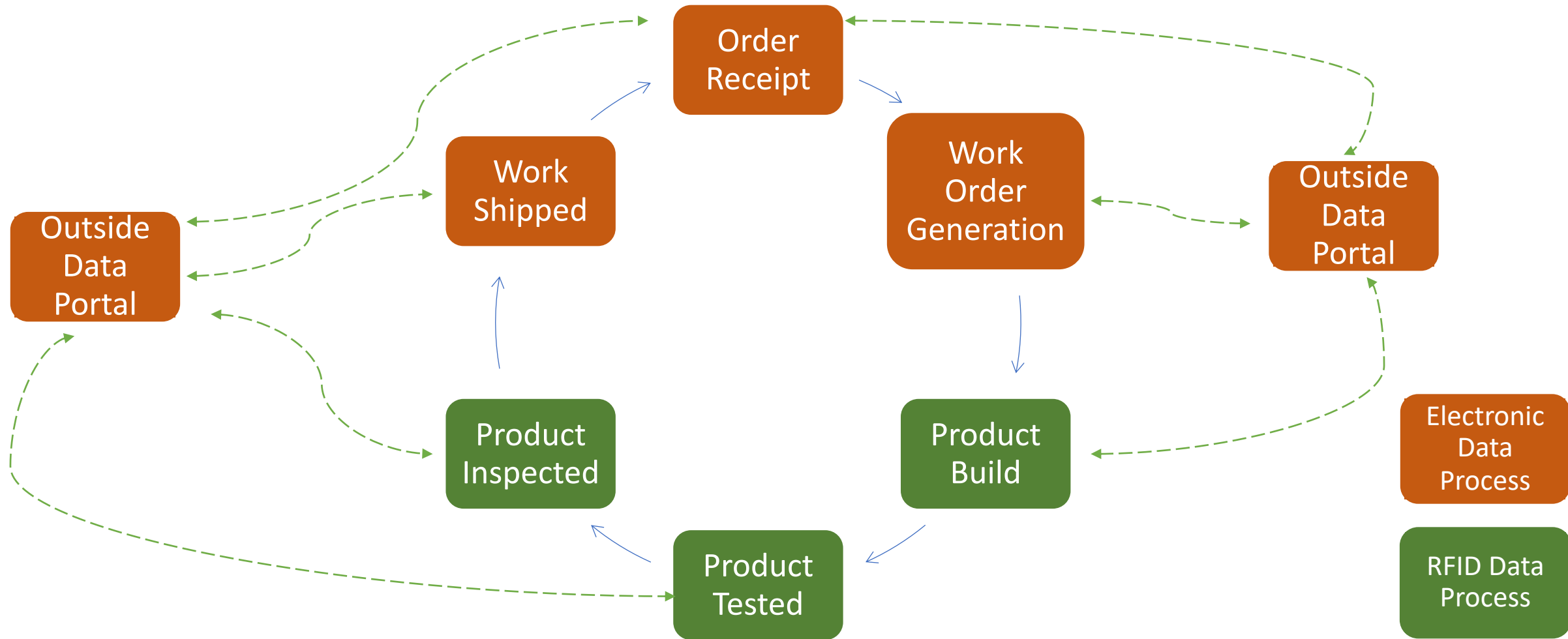
Future State of RFID

- Use RFID to track physical processes
- Don't just focus on tag discovery
 - How long was a tag present?
 - How does the current duration compare to historical averages
- Leverage data from other systems to track administrative processes
- Use an iterative approach to refining Current State vs Future State VMS
- Cross-functional team education and involvement is paramount
 - Not just a “techie” thing!
- Select hardware and software for implementations that focus on how to leverage data already being captured – Duplication of effort is waste!

Things To Remember

- There are still a lot of things that have to be done
 - Value to stream mapping to actually see the process
 - This helps you understand where to look for existing data and where you might need further RFID to obtain data
 - Try-Storming
 - Before you go making wholesale changes to your process, try it out on a smaller scale or outside normal working hours to work out the bugs
 - Change is difficult and changing culture is more difficult
 - Assemble cross-functional teams and ensure you have a facilitator and project charter
 - There will be conflict, you will have to compromise, everyone has to be patient

Future RFID Implementations



Question



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Answers

THANK YOU

