Integrating New Automation: WES is An Operator's Must-Have

Presented by:

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RGO



Introductions





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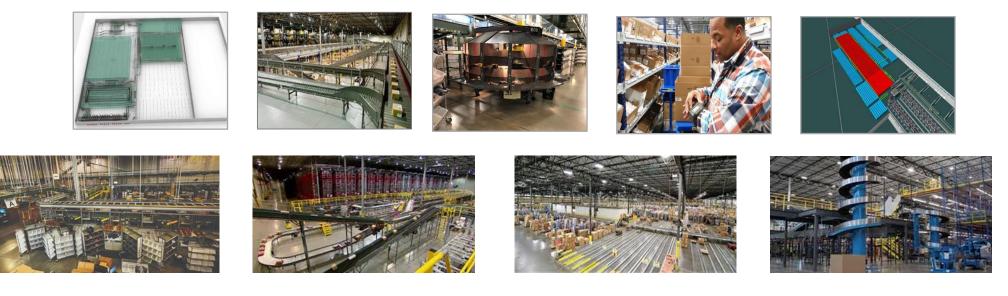


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What is a Systems Integrator?

Systems Integrator - is an individual or business that designs, engineers, installs and commissions logistics systems for clients by combining equipment, controls and supply chain software products

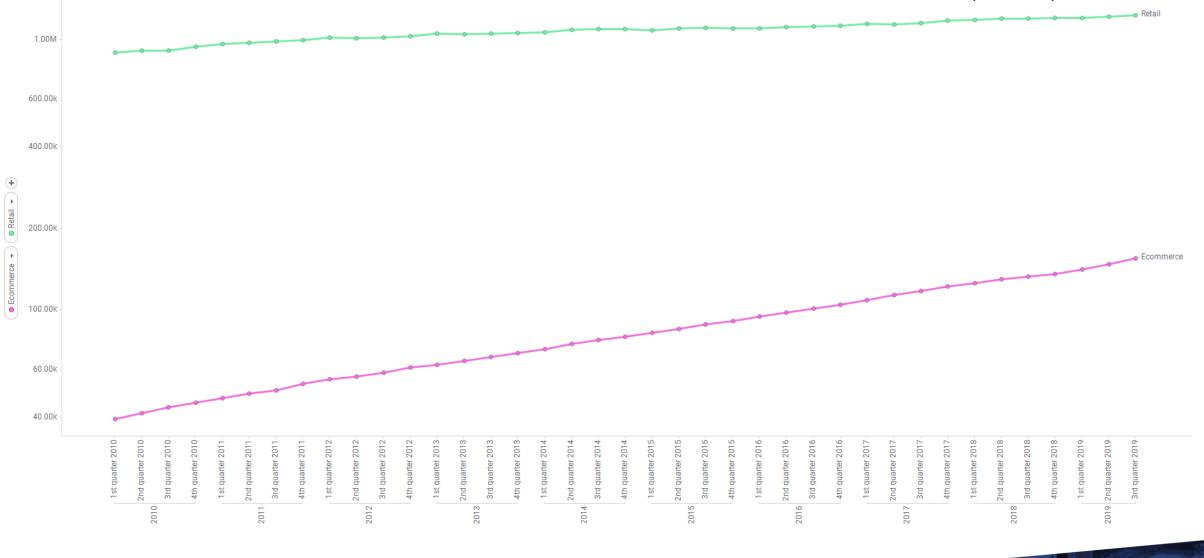




LABOR! LABOR! LABOR!

Retail and Ecommerce Quarterly - Sales Trend

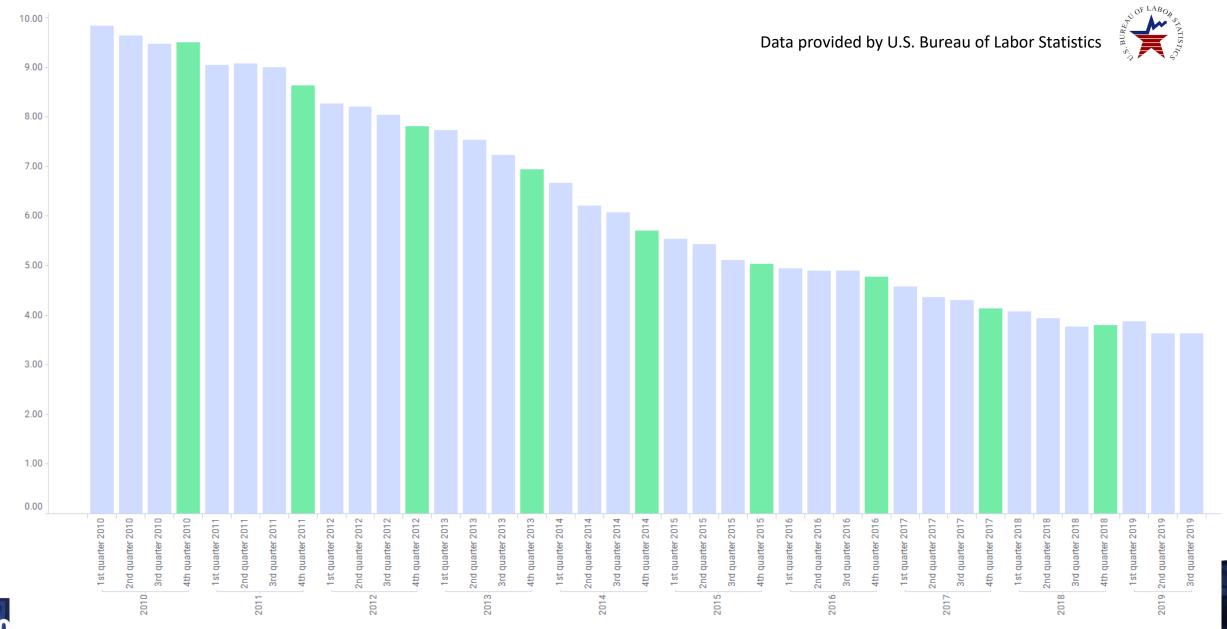
Data provided by U.S. Census Bureau





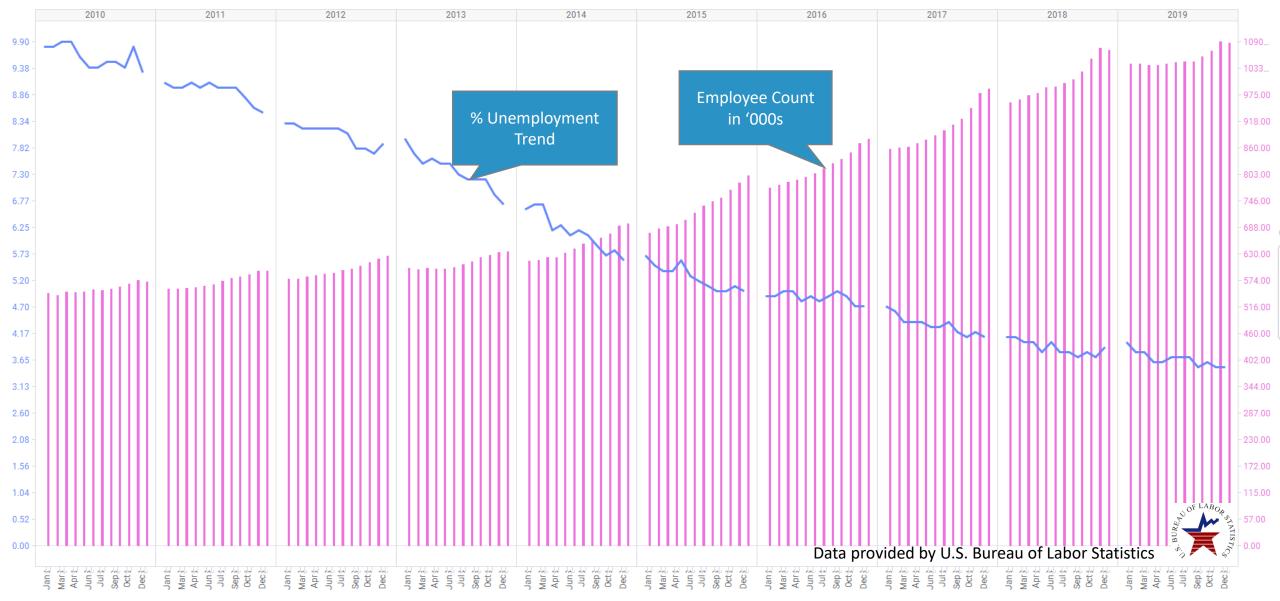


Unemployment % Trend by Quarter



POWERED DT PUSSIDIETTES.

Monthly Unemployment and Warehouse Labor







Conventional

-• Leading Edge







Robotics





 Autonomous Mobile Robots (AMR)





- Robotic Arms
- AI



Put & Pick-To-Light

















Autonomous Mobile Robots (AMR)













Pocket/Pouch Unit Sortation







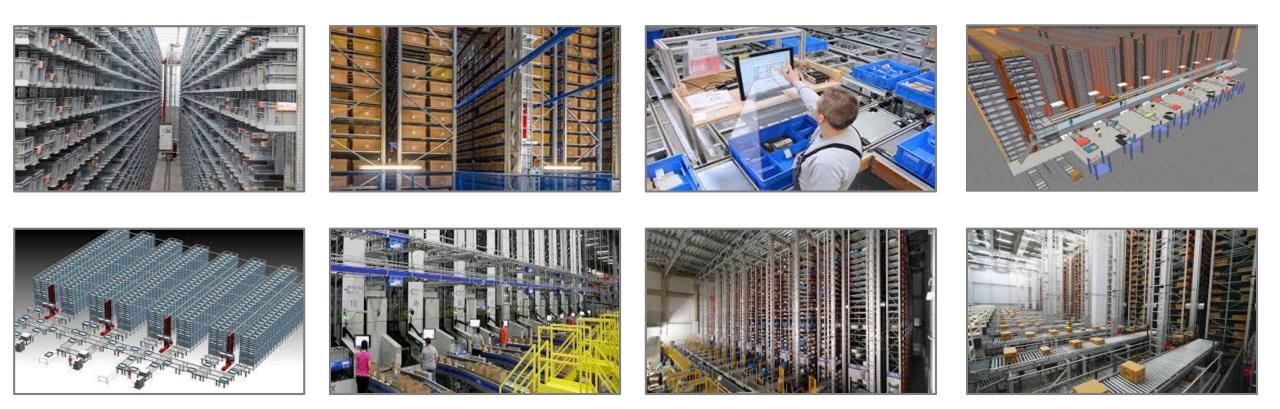








Automated Storage & Retrieval (ASRS)

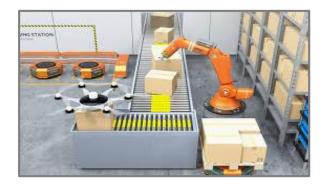




Robotic Arms









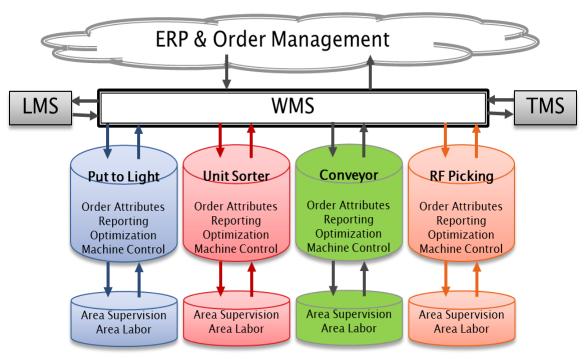








Typical WMS/WCS Deployment Model

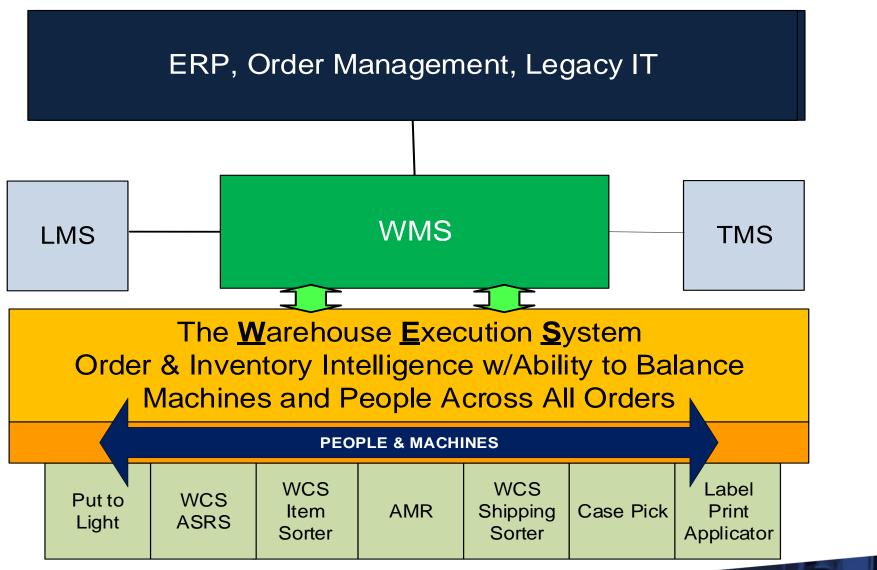


Challenges

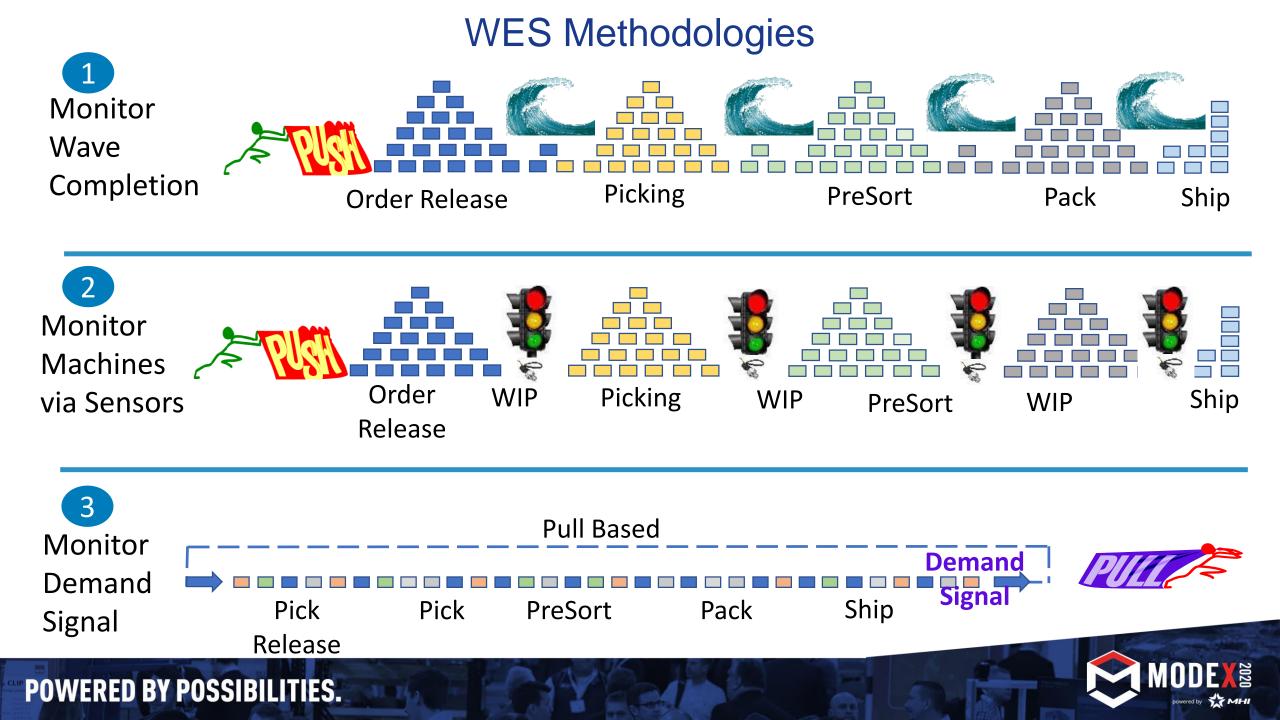
- Silos of WCS interfacing to WMS
- Each WCS has no awareness of another WCS's work
- Multiple technologies stacks to maintain
- Multiple WMS interfaces to maintain
- Intelligence to balanced labor accomplished by gathering data from multiple systems
- Synchronization across technologies doesn't exist



WMS/WES Deployment Model





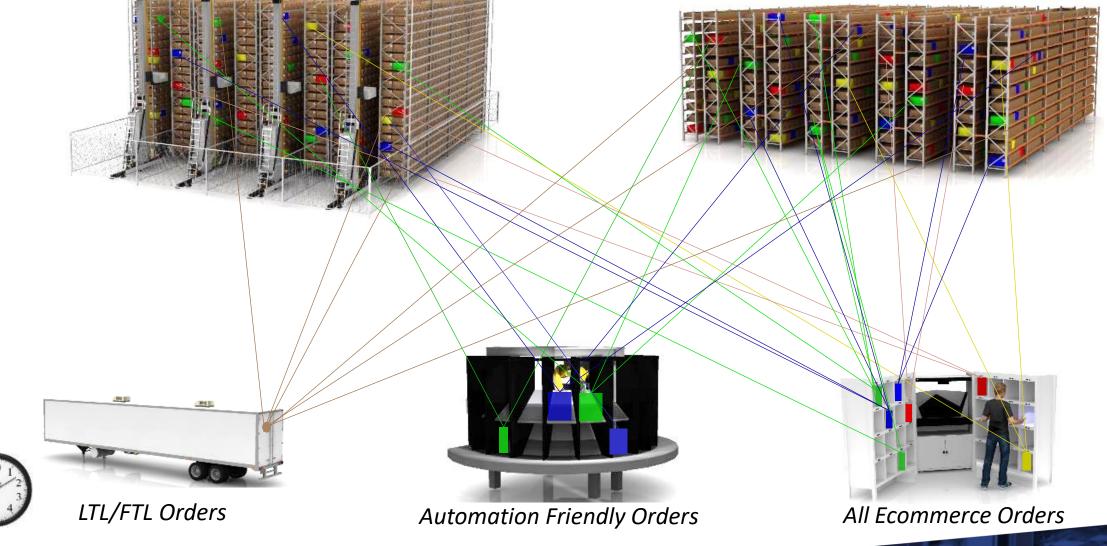


Synchronizing & Sequencing Work

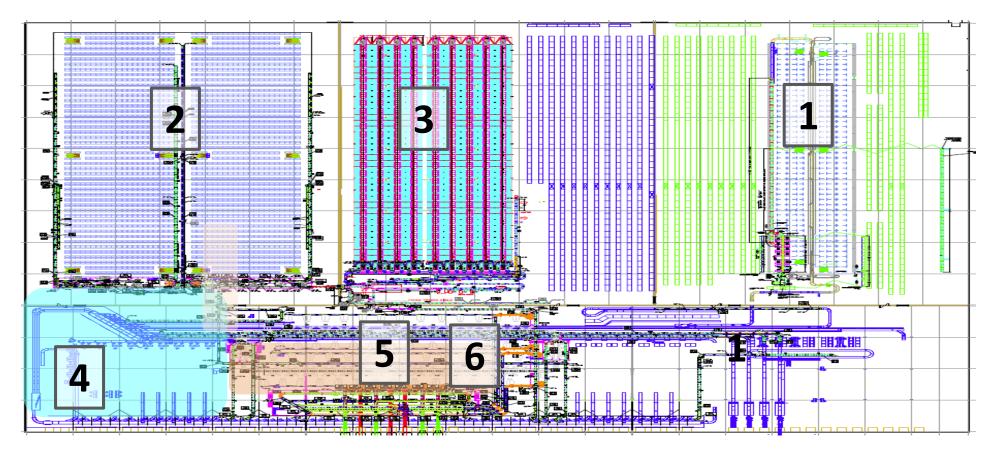
Machine Picking

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Human Picking



Gap Inc, Fulfillment Center Retrofit



- 1 Pick Module 1
- 2 Pick Module 2
- 3 Inbound ASRS

- 4 Routing Sortation
- 5 Unit Sortation w/Put Walls
- 6 Robotic Sort Station w/AI



Al Robotic Order Consolidation

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