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Warehouse Execution Software (WES) Fact from Fiction

Presented by:

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DEMATIC

Presentation Goals

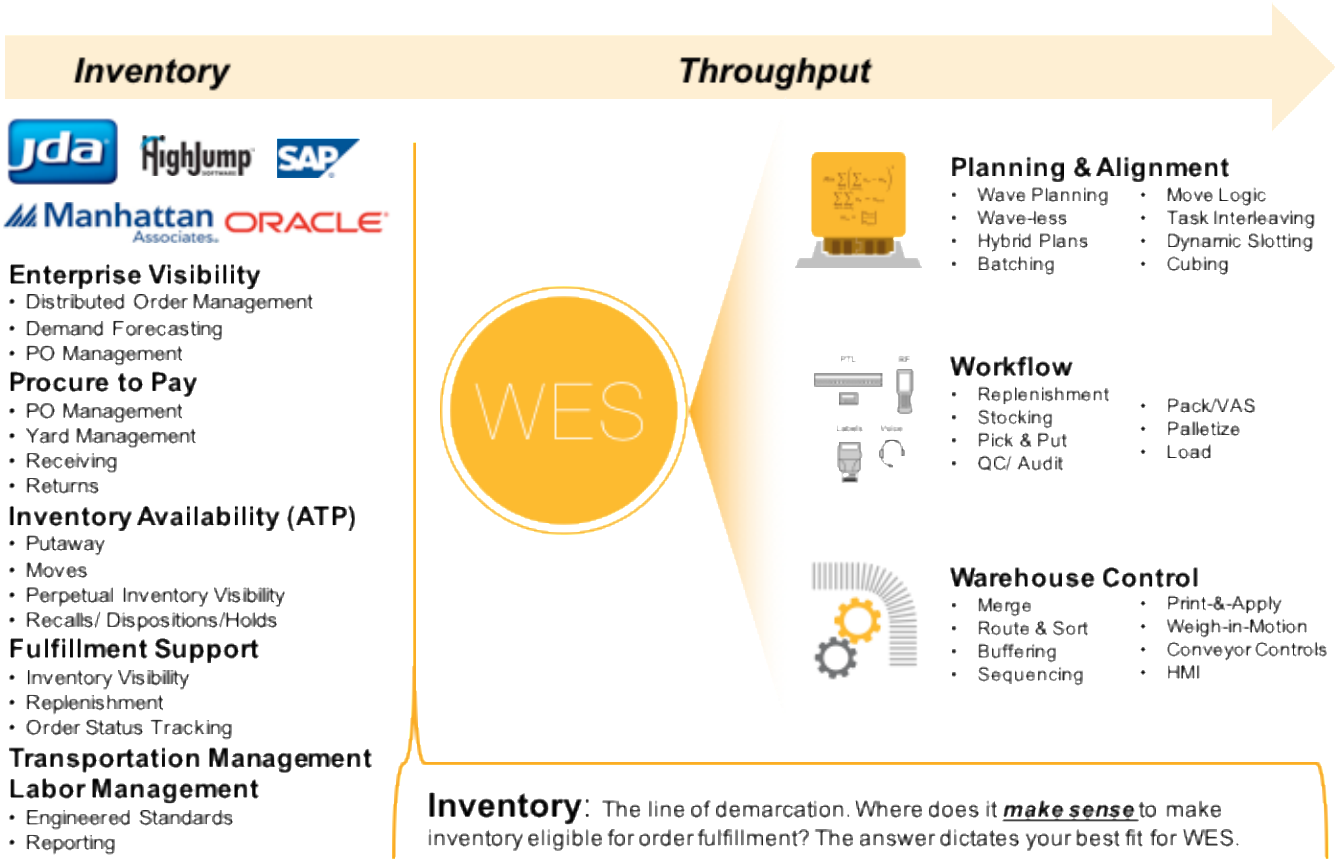
- Separate fact from fiction on the role Warehouse Execution Systems (WES) in fulfillment operations

- Understand how Fortune 500 companies have leveraged WES to improve their operations

Fact vs. Fiction

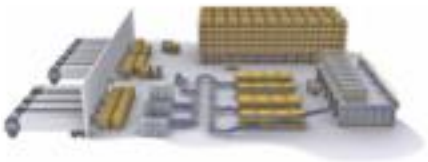
1. WES is replacing Warehouse Management Systems (WMS).
2. WES is only for highly-automated facilities.
3. WES is only for greenfield implementations.
4. WES is complicated to deploy.
5. WES is expensive.

WES is replacing WMS – FALSE



WES is only **for highly automated facilities – FALSE**

Manual



- Manual pick solutions

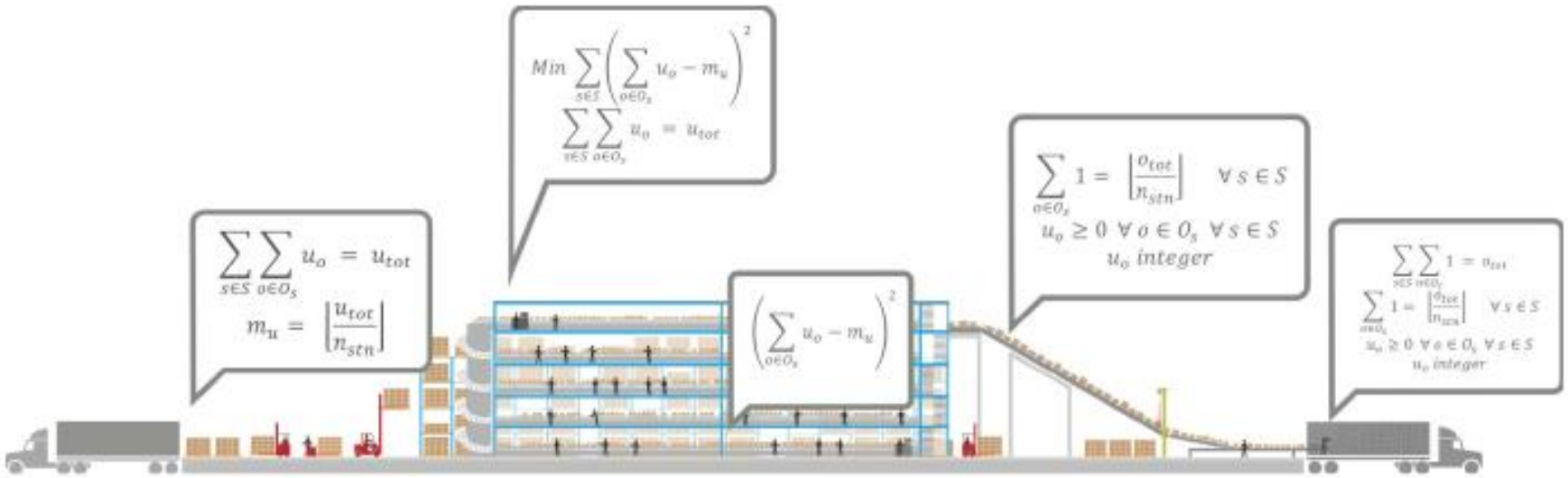
Mechanized

- RapidPut subsystem
- Mid-automation sort and route solutions

Automated

- AMCAP, GTP Subsystems
- High automation, fully integrated execution modules

WES is only for Greenfields – FALSE

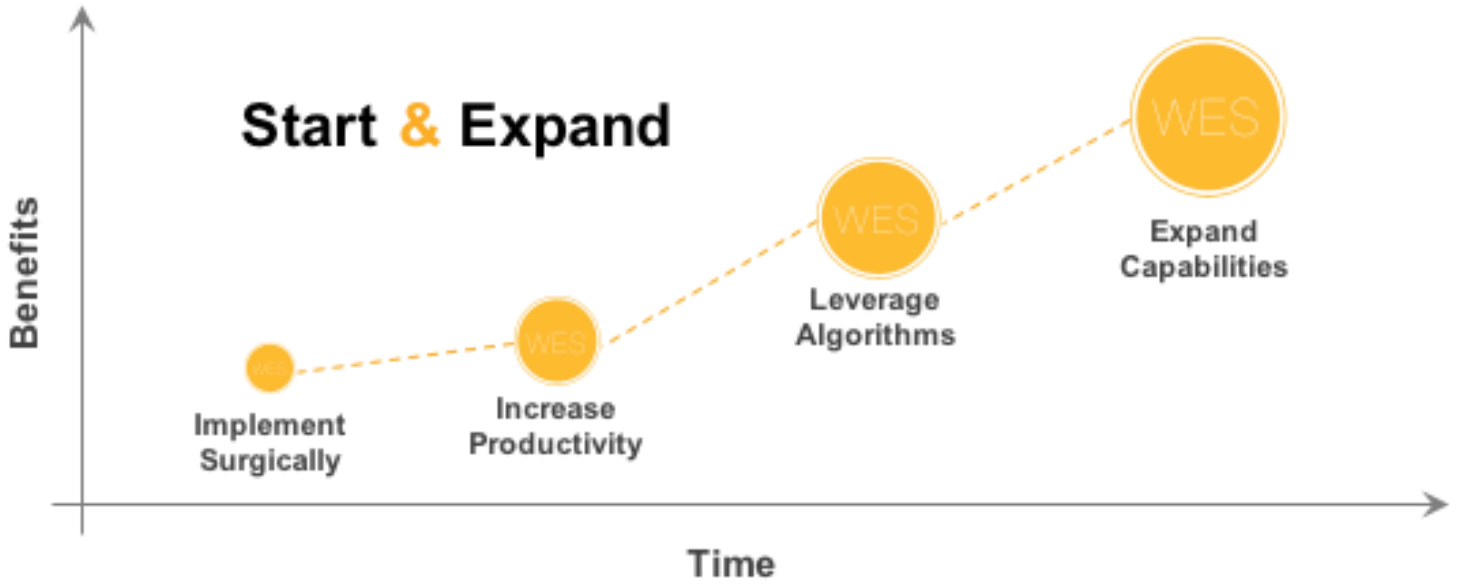


Brownfields Get more out of what you have and lower costs with sharper execution.

Greenfields Get more capacity and flexibility with right software and equipment design.

All Create certainty, momentum and alignment within your four walls.

WES is complicated to deploy – FALSE



WES is expensive – FALSE…value is real

Case Study

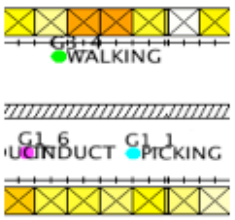
- Wholesale grocery and non-food products to retailers, convenience stores and restaurants.
- $50B+ revenue.
- Varying order profiles from as small as convenience stores' to large retail stores'.

Challenge

- Improve pickers' productivity
- Reduce picking staff
- Reduce order turn-around time
- Maintain pick accuracy

- Make people & technology ***successful***

Time-based Simulation



- Order profile to simulate pickers' decisions over time.
- Labor time standards to simulate how pickers spend time.

Metrics	Before WES	WES	WES Algo's
# of Pickers		62	55
Pick Rate	350 UPH	421 UPH 20%	510 UPH 46%
Picker Idle %		17%	0%
Empty Backtrack %		2%	0%
Time to Finish Picks		10.3 Hrs	7.9 Hrs
Total Labor Hours		457	375 21%

Optimizations

Results

WES is expensive – FALSE…value is real

Case Study

- International, omni-channel electronics (technology, computer services, mobile, etc.) retailer / distributor.
- $50B+ billion annual revenue.
- Direct-to-consumer and over 1,000 stores and kiosks throughout the United States, China, Mexico and Canada.

Challenge

- Small orders picked individually required too many work hours.
- Facility's capacity quickly reaching capacity.

- Make people & equipment ***successful***

Optimizations

Put-to-Light Workflow Simulation

- Orders consolidated to increase pick density.
- PTL devices to enable configurable size put locations.
- Waveless processing

Results

- SLSU (single-line, single-unit), MLMU (multi-) & SLMU waveless and system directed work engines.

Metrics	Improvement
Picker Idle Time	20%
SLSU Pick Labor	59%
MLMU Capacity	100%

Fact vs. Fiction

1. WES is replacing WMS – FALSE
2. WES is only automated facilities – FALSE
3. WES is only for greenfield implementations – FALSE
4. WES is complicated to deploy – FALSE
5. WES is expensive – FALSE

For More Information:

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