

### www.ProMatShow.com

© 2015 MHI® Copyright claimed for audiovisual works and sound recordings of seminar sessions. All rights reserved. Aging software, information overload, accelerated market changes.....

### Let's take a look at:

FIND WHAT'S

- Distribution software
- Accelerators of change
- Asking the question ... Is my software intelligent?

**Top 5**:

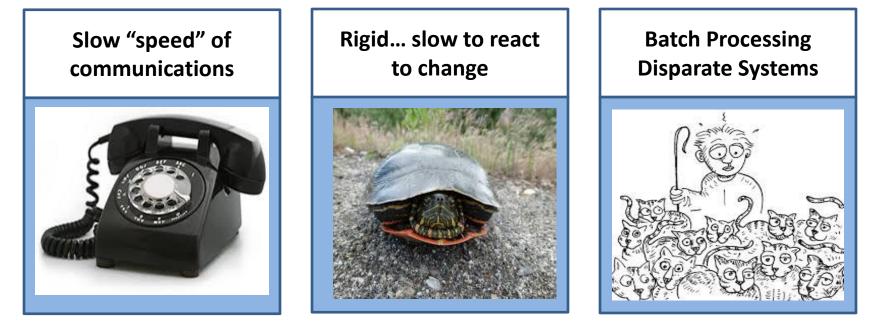
- Software intelligence trends
- Ways to leverage software intelligence
- Ways to embrace continuous integration
- Accelerators of change



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### Distribution software looking back.....



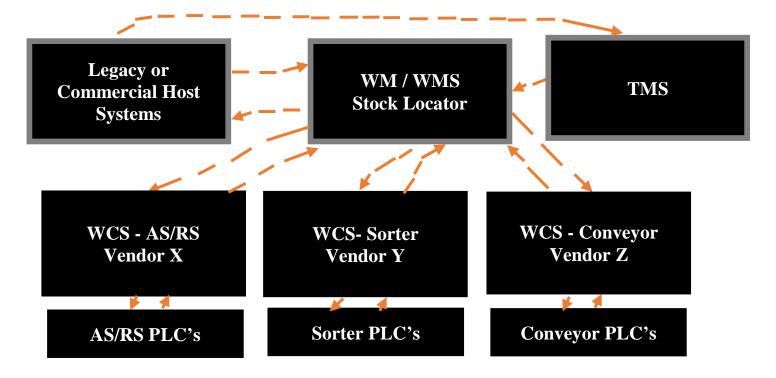
" To improve is to change; to be perfect is to change often."

Winston Churchill (1874-1965)





### **Distribution software looking back .....**



Stand alone black boxes Slow or limited communications

Limited transparency between disparate systems Batch processing in multiple systems

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### Marketplace dynamics looking back...



Pallet in → Pallet out Once a week deliveries Wave "batch" planning Automation use varies



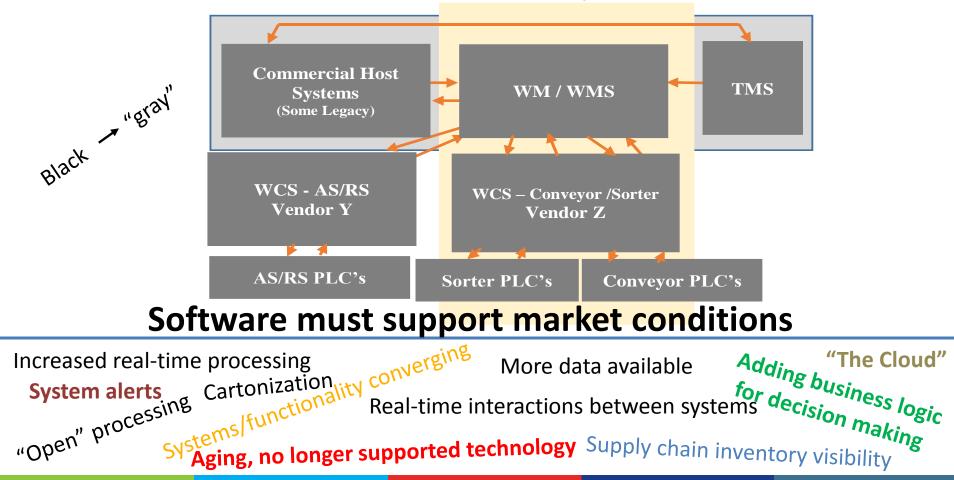
### Market conditions accelerating change







### **Distribution software currently....**



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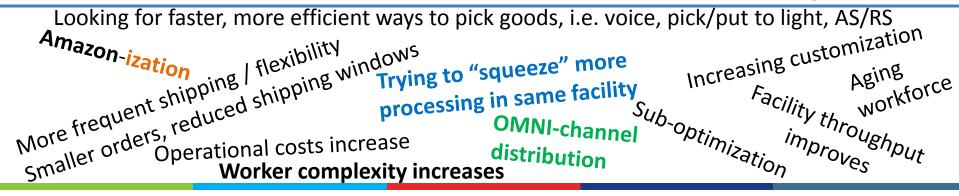
### Marketplace dynamics currently...



Pallet in  $\rightarrow$  Case/each out More frequent deliveries Waveless processing Automation adaptation



### Market conditions continue to accelerate change





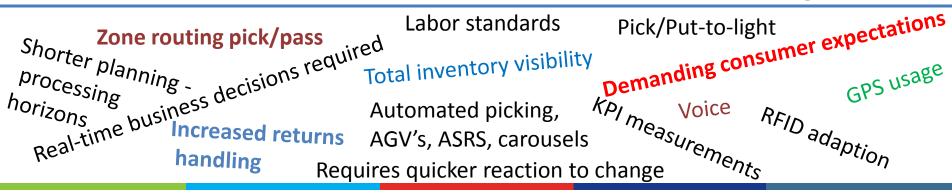
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### Marketplace dynamics currently...

Decisions as late as possible Goods-to-person Automated picking Aging workforce

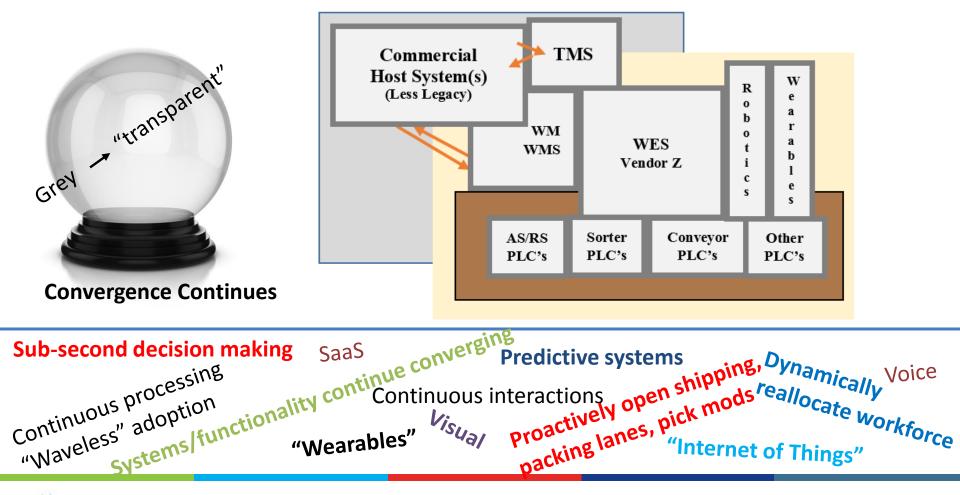


Market conditions continue to accelerate change





### Distribution software in the future ....



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# Marketplace dynamics looking forward ...



Fully Automatic Picking System

Interactive resource mgmt.

Mobile inventory (stores)

Non-replenishment DC's

Continuous processing



### Millennials & technology will accelerate change



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### Leveraging intelligent software technology

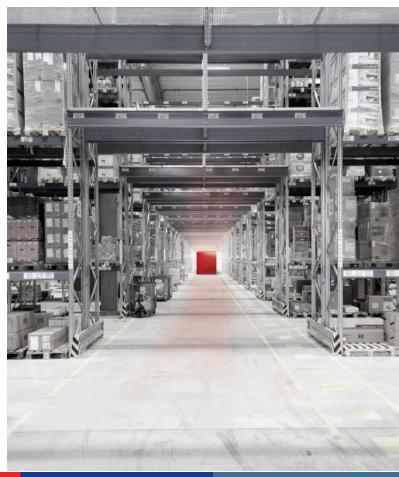




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# **Top 5 trends in software intelligence**

- 1. Must optimize automation and manual operations
  - Continuous decision making
  - Dynamic flow optimization
- 2. Predictive capabilities
  - Sensor tags, A.I., analytics
- 3. Drones unmanned aerial vehicle (UAV) solutions for inventory management challenges
- 4. 3D interactive operational views
  - Virtual reality / holographic displays
  - Actionable capabilities
- 5. Security and product safety as well as compliance with government and industry regulations



# **Top 5 ways to leverage software intelligence**

- 1. Stay in tune with technology advancements
- 2. Perform semi-annual/quarterly system reviews
  - Process / resources
  - Equipment / technology
- 3. Consider replacing/upgrading your existing software / PLC controls
  - Configure vs. customize
- 4. Modernization

FIND WHAT

- Do not replicate innovate
- 5. Communication leverage business KPI's and employee polls to help document the need to change



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### FIND WHAT'S NEXT. VE S W D R A WS

### Top 5 ways to embrace continuous integration

- Choose a global partner that provides options – allows organizational flexibility and adaptation to local context
- 2. Make it event driven exchange data in a continuous flow
- 3. Integration should be specific enough to implement useful functionality, but general enough to allow change as needed
- 4. Plan for emerging technologies evolution and extensibility
- 5. Minimize inter-dependencies where possible

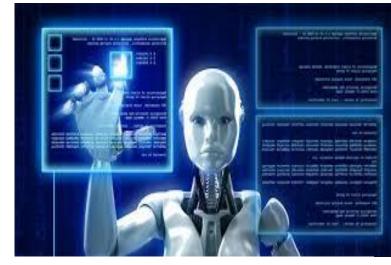




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# **Top 5 accelerators of change**

- Aging workforce → millennials adoption of technology
  - Robotics and drones
  - Lights out automated operations
- 2. Instant customization of products
  - 3D printing centers → In-home
    3D printing
- 3. Co/location light manufacturing within distribution centers
- 4. Big Data
- 5. Artificial intelligence







# To sum it all up.....

- Have you performed a systems review lately?
- Consider updating your software
  - Better leverage existing/future hardware
  - Better utilize resources to gain efficiencies and reduce costs
- Choose your software partner carefully
  - Offer predictive capabilities, continuous decision making and optimized facility flow
  - Embraces technology enables growth
  - Extensive experience with modernization
  - Choose software that is configured not customized
  - Ensure there is a capability product roadmap

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**Optimization of inventory storage** 



# For More Information:

# Speaker email: n.malone@viastore.com Website: www.viastore.com

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