BALYO: The Next Generation AGVs

PROMAT 2015

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Presented by:

Jean-Marie Bergeal

CEO

BALYO Inc.

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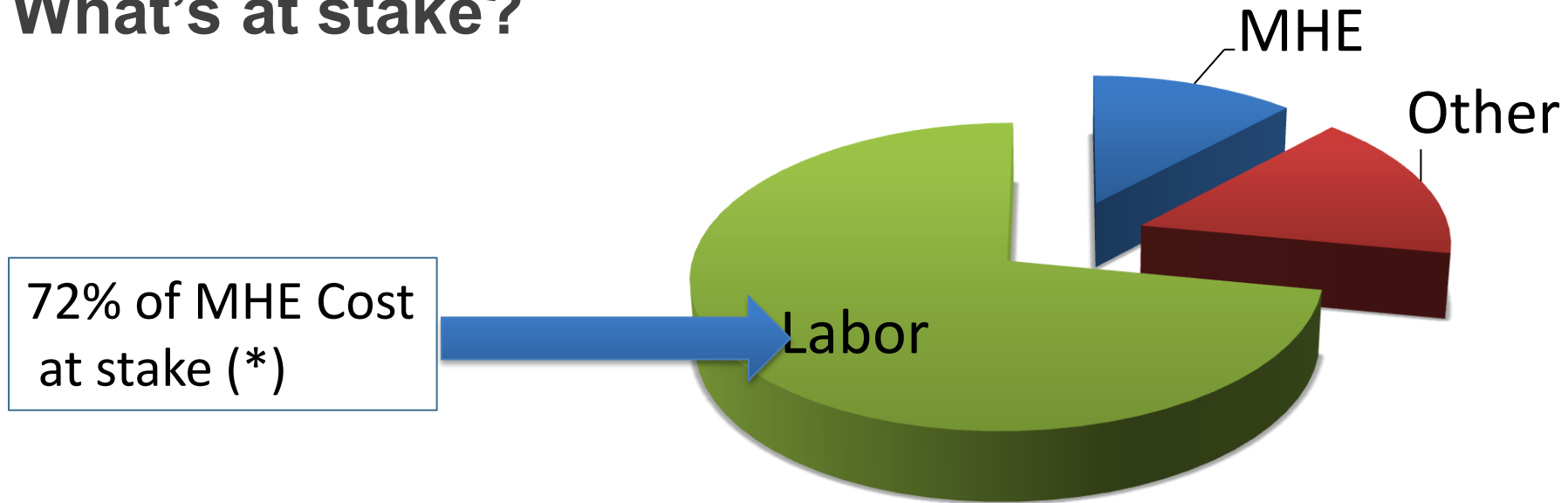
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What is in the Next Generation?

➤ Full forklift functionality

➤ Speed and ease of implementation

➤ Flexibility

➤ Compelling Economics

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Full Functionality

- A Next Generation AGV can:
  - Pick-up and drop pallets automatically
  - Move where necessary, efficiently
  - Offer flexibility in allocation of AGV capacity
- Work in stand-alone mode: "let me find work"
- Integrate with WMS
  - Read pallet license plate
  - Provide full pallet traceability
  - Support interleaving

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Ease of Implementation

- No changes to the environment
  - No reflectors, wires, tape, etc.
- Plain forklift base
- Variable fleet capacity from 1 to many AGVs
- Co-exist with teammates

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Flexibility

- Adapt to existing environment
- Work in stand-alone or integrate with WMS
- Integrate
  - PLCs, WCS
 - Fire doors, etc.
- Granular
  - Progressive rollout

Compelling Economics

- Low entry cost
- Granular
  - Progressive rollout
- Fast return on investment
  - 12-18 months
  - Permanent cost reduction

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Case Study

- 1.4MM sq. ft. D.C.
- 110 pieces of equipment

- 9 Yale End-Rider Pallet Jacks
- 2-months on-site rollout
- Client (major 3PL)
- Targeted ROI: less than 1 year

- ➤ Phase 1: standalone
- ➤ Phase 2: WMS integration
- ➤ Phase 3: going vertical…
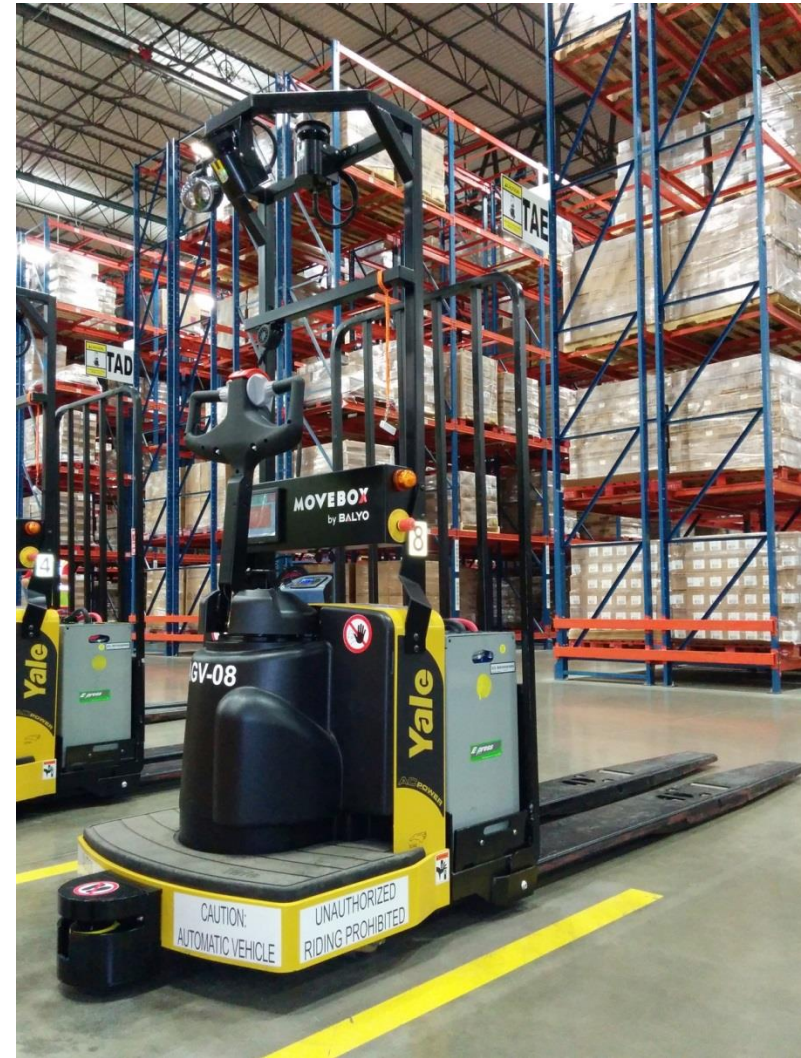
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For More Information:

Speaker email: jmbergeal@balyo.com

Website: www.balyo.com

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