

MOVE GOODS MORE EFFICIENTLY WITH AUTONOMOUS MOBILE ROBOTS (AMRS)

ERIC HARTY, VICE PRESIDENT, ROBOTIC
SOLUTIONS OFFERING, HONEYWELL ROBOTICS

PRESENTERS



Eric Harty

Vice President, Robotic Solutions Offering, Honeywell Robotics

Eric brings more than 15 years of international experience to Honeywell Robotics, with a strategy and marketing background in developed and emerging markets. In his current role, he is responsible for Robotics Solutions Offering, developing and executing the robotics offering, ranging from fixed robotics to mobile robotics in ecommerce, retail, parcel and micro-fulfillment environments.

Prior to his current role, he led strategic marketing, developing the company's global growth strategy focused on organic growth through The Connected Distribution Center and Robotics, as well as inorganic growth through M&A and Venture Capital investments. Before joining Honeywell Intelligrated, Eric led strategy and marketing for Honeywell in Turkey and Central Asia. He has previous experience as a strategy consultant at Booz & Company and as director of strategic planning at Siemens.

Eric holds an MBA from the Ross School of Business at the University of Michigan and a bachelor's degree in environmental engineering from Tulane University.

The Challenges:

WE'RE MOVING MORE GOODS THAN EVER BEFORE

E-commerce demand is straining fulfillment operations.



The Challenges:

MOVING GOODS REQUIRES A LOT OF LABOR

Transport requires up to 25%
of workforce.



The Challenges:

SCARCE LABOR

There aren't enough workers to meet increasing demands for speed and volume.



The Challenges:

FORKLIFTS

Forklifts need trained workers and are injury-prone.



The Challenges:

CONVEYORS

Conveyors are a fixed asset.



POLLING QUESTION

What do you see as the biggest challenge for moving goods in your current operation?

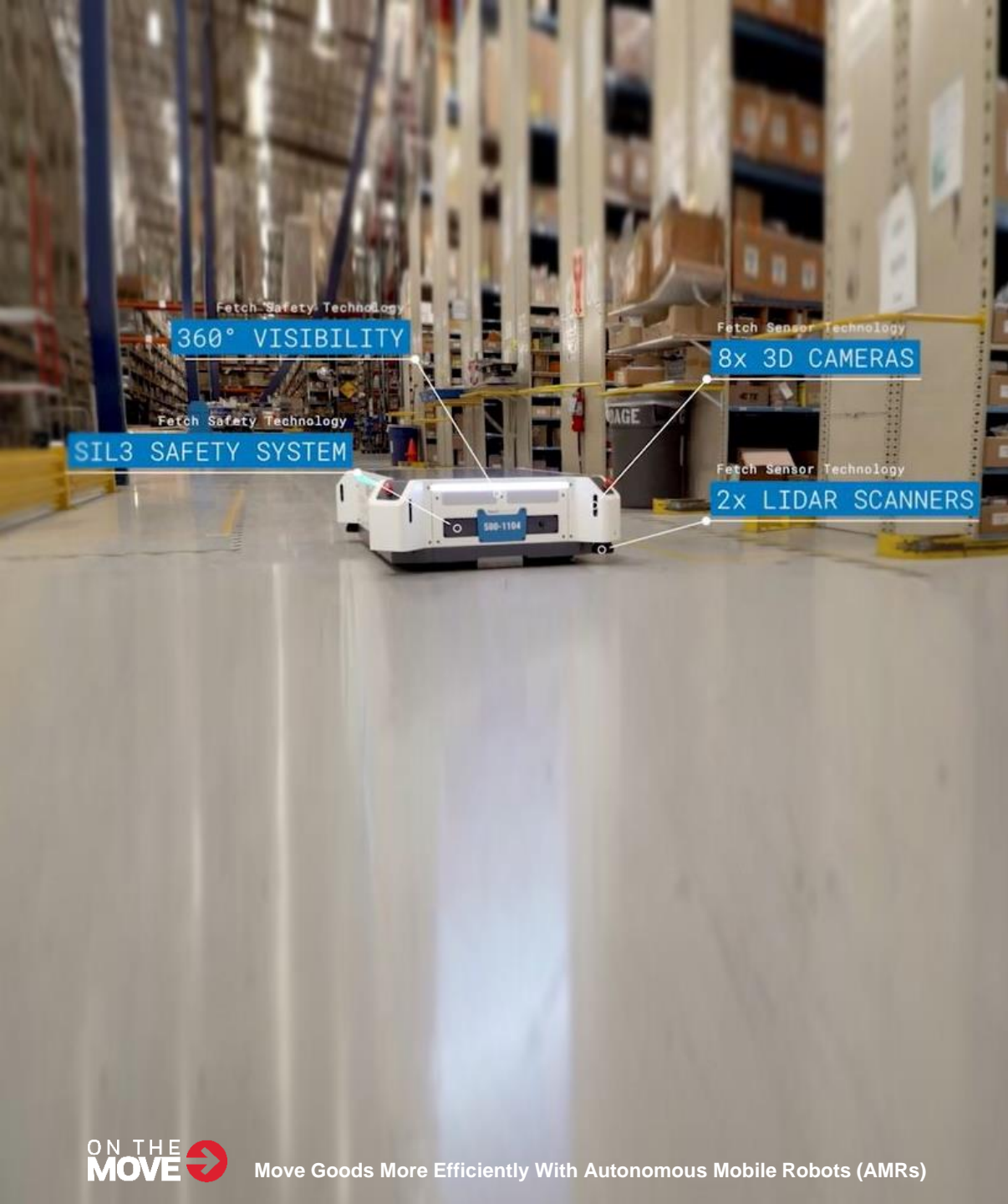
- A. Labor availability
- B. Forklift safety
- C. Fixed conveyor systems
- D. Other

The Solution:

AUTONOMOUS MOBILE ROBOTS (AMRS)

SMART ROBOTICS THAT MAKE YOUR FACILITY WORK BETTER:

- Any Workflow
- Any Facility
- Minimal IT/Infrastructural Changes



UNCOMPROMISING SAFETY

Safely avoids obstacles and workers



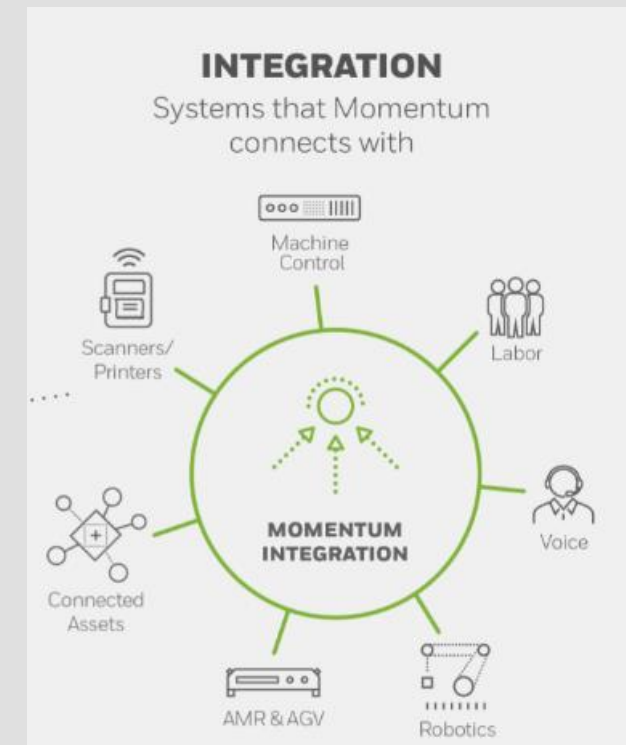
FEWER FORKLIFTS NEEDED FOR TRANSPORT

- Save on equipment and labor costs
- Enables continuous operation
- Maximize utilization

USE CASES

PALLET CONVEYANCE

- Using AMRs for transport
- Integrates with Momentum WES
- Ability to move up to 1,500 kg



WAREHOUSE TRANSPORT

Maximizes utilization



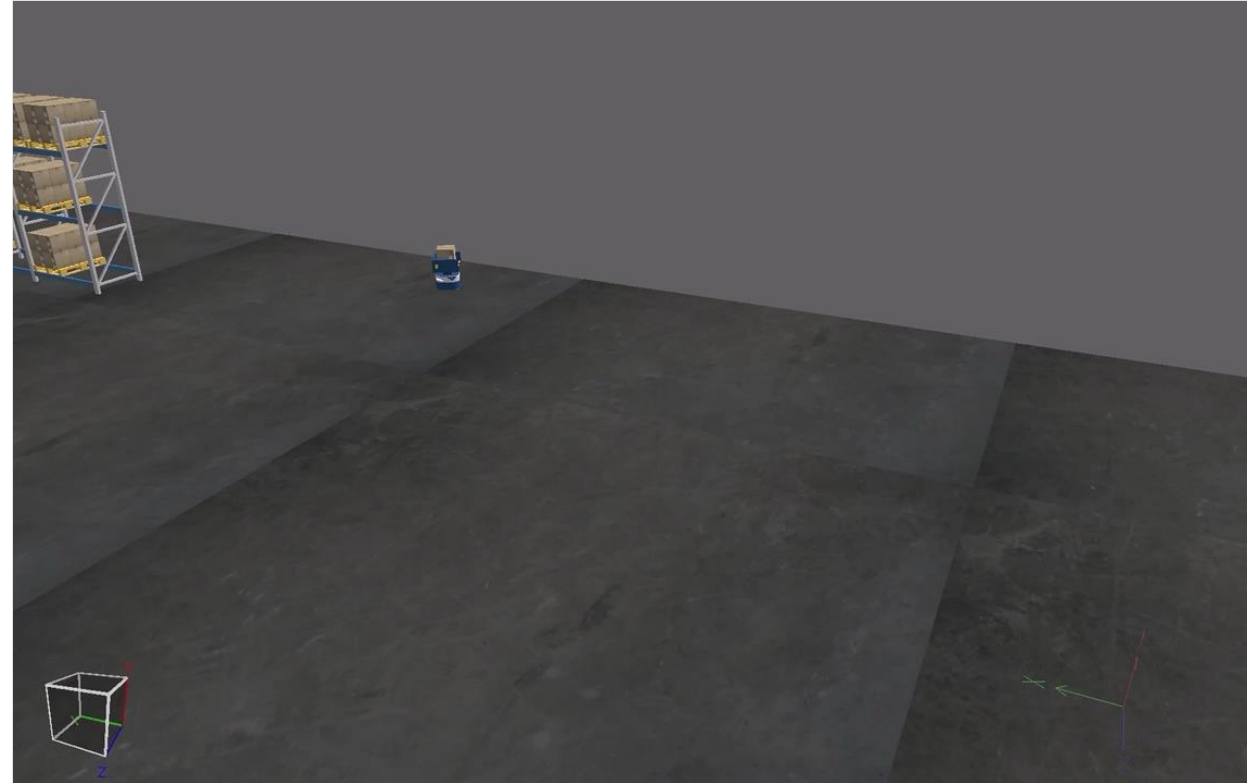


CROSS-DOCKING AND REPLENISHMENT

- Seamlessly coordinates pallet movement
- Enables continuous operation

MACHINE TENDING

Seamlessly orchestrates goods movement between machines (i.e. palletizers, wrappers, pallet cranes)



PICKING TECHNOLOGY INTEGRATION

Improves accuracy and efficiency



AMRS OVERCOME A WIDE RANGE OF PROBLEMS FOR DCS AND MANUFACTURING



E-commerce Demand



Labor Pressure

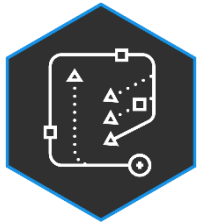


Proliferating SKUs



Workplace Accidents

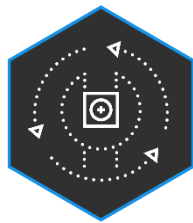
QUESTIONS?



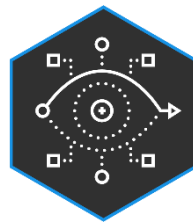
Conveyor &
Sortation
Systems



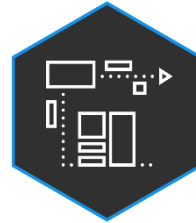
Fulfillment
Technologies



Lifecycle
Support
Services



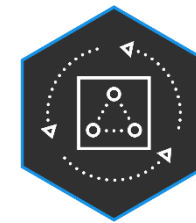
Operations &
Solutions
Development



Palletizing &
Depalletizing



Robotic
Solutions



Software
Solutions



The Connected
Distribution
Center