Cloud Robotics for On-Demand Automation
AMRs Deliver 2 - 3x Performance with 3 - 6 Month ROI

Presented by:
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18+ years robotics hardware & software
2nd employee at Willow Garage, creators of ROS
Objectives

- Warehouse & AMR Evolution
- Benefits of Cloud Robotics
- Customer Sites & Workflows
Evolution of Automation

Manual Movement

Fixed Infrastructure

Guided Vehicles

Autonomous Mobile Robots (AMRs)
Evolution of Warehouses

Manual Operations

Smart Warehouses

Cloud Robotics
Vision - A Connected Warehouse

- Tablet / mobile
- Wearables
- Autonomous vehicles
- Real-time inventory
- Real-time location tracking
On-Demand Automation

Automation in a Day

Deploy automation at will
In any facility, as-is
Without installing IT systems
At any scale
With flexibility to change on the fly
And unified data you can use anywhere
Cloud Robotics

Facility Control
System Control
Warehouse Management
Material Flow
Warehouse Operations
Supply Chain Management
ERP
Inventory Location

FIND YOUR WOW
Benefits of Cloud Robotics

Scalability

No additional space, software, or infrastructure changes

Grow from 2 robots to 22 robots in days, **not** weeks
Remote Management

Access your data and operations on any device anytime from anywhere
Benefits of Cloud Robotics

Stability

Cloud vs. on-premise? Downtimes? Security?
Backup & disaster recoveries
Unified Data

Cross-unit business sharing to centralize fragmented data and analytics
Customer Success #1

Top Electronics Distributor

Customer Overview
One of the world’s largest electronics distributors

The Facility
• 500,000 sqft facility in Reno, Nevada
• Existing Automation with conveyors and ASRS

Overall Goals
• Improve ASRS induction speed
• Decrease order processing dwell times
• Avoid any additional IT integration costs

Key Workflows

Each / Case / Pallet Picking
Raw Material & WIP Movements

Results Delivered

39% Cycle Time Improvement
11.9 months ROI
1920 hrs/mont h Labor Hours Redeployed
Customer Success #2

Top 10 Automotive Manufacturer

Customer Overview
World’s leading premium automobile and motorcycle manufacturer

The Facility
• 327,000 sqft regional parts distribution center

Goals
• Increase productivity for replenishment workflow
• Eliminate overtime hours

Key Workflow

Receiving & Putaway

Raw Material & WIP Movements

Results Delivered

204%

10 months

100%

Improvement in Lines Delivered
ROI
Reduction in OT

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Improvement in Lines Delivered
ROI
Reduction in OT
Customer Success #3

Top 20 North American 3PL

Customer Overview
Top 20 North America 3PL with over 40M sqft warehousing

The Facility
• 400,000 sqft regional parts distribution center

Goals
• Reduction of lost and misplaced inventory for a white good manufacturer

Key Workflow

Cycle Counting
Inventory Tracking

Results Delivered
100%

Daily Cycle Count
Customer Success #4

Top 10 Aerospace Manufacturer

Customer Overview
The helicopter division of one of the world’s largest aircraft manufacturers

The Facility
• 120,000 sqft facility in France
• Warehouse for small helicopter parts.

Overall Goals
• Reduce non-productive walking time
• Increase the overall safety of the facility

Key Workflows

Results Delivered

JIT & Line Replenishment
Staging & Consolidation

FTE Time Reduction
ROI
Labor Hours Redeployed

20%
15.2 months
166 hrs/month
Key Takeaways

AMRs have matured & delivered proven results in production deployments

Deploy on-demand automation with cloud robotics to future proof & stay above competition

Cloud robotics reduces the time, costs, and risks of AMR deployments
Live demos at
Booth S4841

www.fetchrobotics.com