



QUICK START PROGRAM

FROM ORDER TO GO-LIVE
IN FOUR WEEKS

FUTURE-PROOF YOUR OPERATIONS

Rapid shifts in consumer behavior are placing a huge strain on all aspects of supply chain. Flexible automation systems allow your organization to react nimbly to the ever-changing environment while getting your operations ready to respond to whatever comes next.

Stop losing ground and get started quickly with these out-of-the-box packages. Begin with a simple installation to learn the system's capabilities, evaluate the use case, adapt and scale.

Through Vecna Robotics' Quick Start program, you will:

- Identify the best use case(s) for using AMRs in your facility
- Determine which AMR platform is best for your operation
- Integrate automation into your workflows, and train staff on new processes
- Gather data and gain insights into simple workflow efficiencies
- Get site-and operation-specific feedback to inform your future automation strategy

PROGRAM OVERVIEW

Same Day Shipping: Vecna Robotics is ready to ship within 24 hours of receiving your purchase order. AMRs will arrive to your facility within five business days in the continental US.

Applications & Packages: There are many ways to use AMRs in your facility, but we're making it easy to get started by offering a select number of pre-defined project packages. Choose from one of our three most frequently deployed use case scenarios, including Dynamic Milk Runs, Staging Lane to Put-Away, and Multi-Point to Multi-Point Transport. Read on to learn more.

Remote Deployment: Vecna Robotics' Customer Success team can stand up your equipment without stepping foot in your facility, within four weeks from PO.

Flexible Payment Options: CapEx budgeting and RaaS payment options available. Let's work together to find a financing solution that works best for you.



ALL PACKAGES INCLUDE:

AUTONOMOUS MOBILE ROBOTS:

- Up to 5 autonomous mobile robots
- Cloud-based server instance
- Customized user interface

SUBSCRIPTION:

- Pivotal Insights analytics dashboard
- Pivotal Orchestration Engine




SERVICES:

- Remote deployment services
- User training
- Virtual Classroom
- User acceptance testing
- 24/7 US-based support

MULTI-AREA TRANSPORT

Multi-Area Transport, otherwise known as Dynamic Milk Runs, is best used in a facility that has multiple regular pickup and drop-off points along a specified route. Robots can skip destinations, and travel only where they are needed, intelligently maximizing throughput.

Best Used For:

-  Parts delivery to assembly line
-  Warehouse receiving to put-away
-  Transport of carts of non-conveyable packages throughout a distribution center



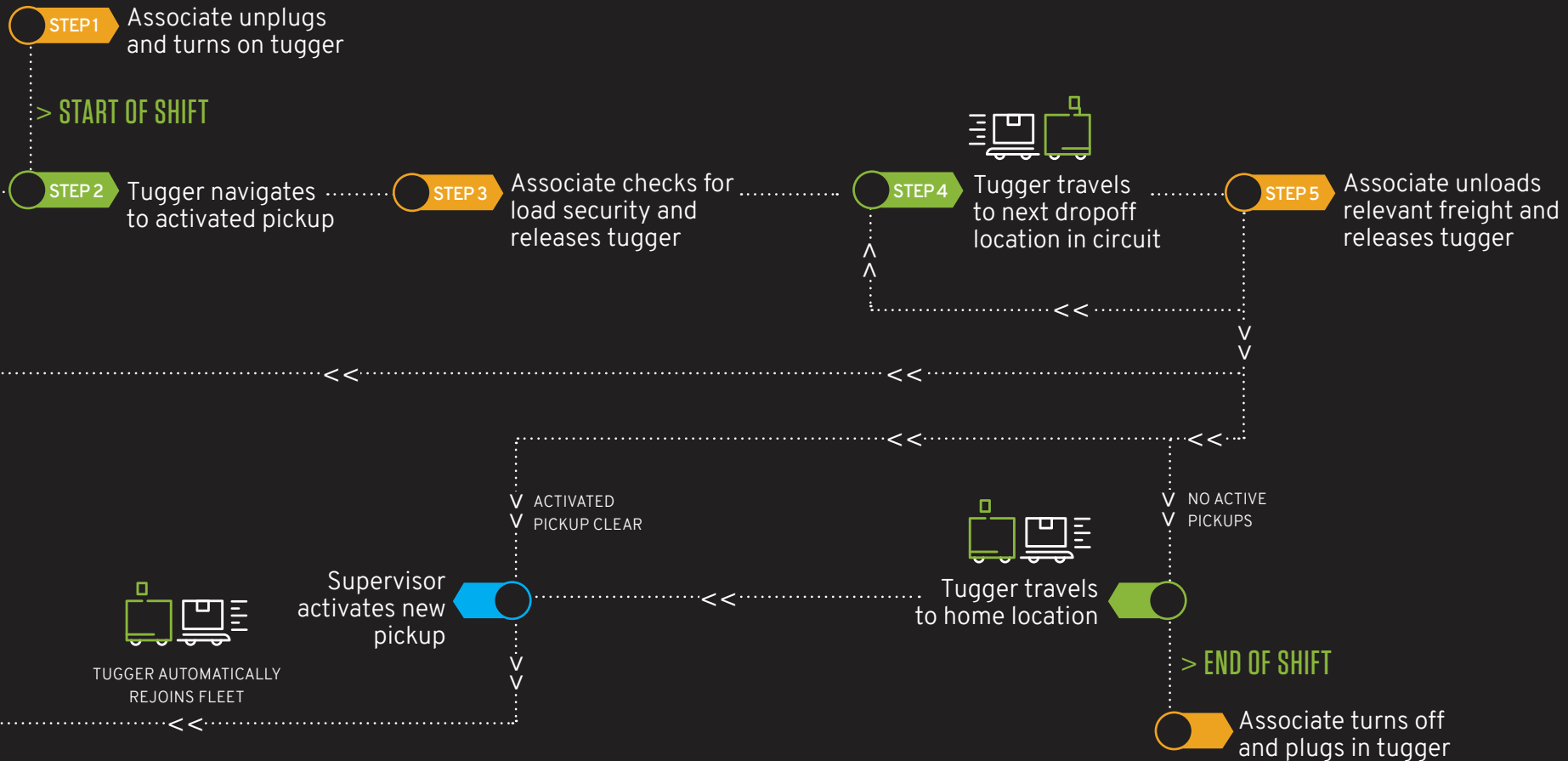
LINE-SIDE REPLENISHMENT IN A MANUFACTURING FACILITY

One large manufacturer of industrial boom cranes uses Vecna Robotics' self driving tuggers to deliver parts to the assembly line.

STATS:
 > 9 assembly lines
 > 300,000 sq ft site

Material is requested via web based application on PCs at 9 different assembly stations. At the staging station, a 55-in monitor lists the request, and a team member loads material on the tugger's carts. Once delivered to assembly line, the cart is unhitched, left, and the tugger returns to staging to satisfy another request. Rather than follow a set path every time, the tuggers use intelligence to visit only the assembly stations with deliveries on that run, saving time and increasing efficiency.

TUGGER DYNAMIC MILK RUN



PACKAGE DETAILS

Number of Pickup Points: Up to 5	Number of Dropoff Points: Up to 5
Route: 1-way, or 2-way travel	Number of AMRs: 1-2 tuggers

STAGING LANE TO PUT-AWAY

The goal of the Staging Lane to Put-Away workflow is to clear dock doors quickly and efficiently. Pallet Jacks retrieve pallets from staging and drop them at specified locations throughout the facility.

What makes Vecna Robotics' AMRs perfect for the job is that they are designed with advanced pallet detection capabilities. This means, AMRs do not look for pallets in a specific spot, but rather scan the whole area for their assigned payload. So, staff do not need to wait for a specific location to clear before staging more pallets; they can freely and quickly move goods away from docks, reducing traffic throughout the facility, and preventing bottlenecks.

Best Used For:



Inbound logistics



Long distance transport



Receiving to storage



STAGING LANES TO PUT-AWAY AT A LARGE RETAIL WAREHOUSE

One of the largest retailers in the US uses Vecna Robotics' self-driving pallet jacks to transport pallets from receiving to storage.

STATS:

- > 2.5 million sq ft facility
- > 46 inbound staging areas
- > 7 outbound staging areas

A team of associates performs a quality check at the dock doors and scans the incoming pallets to confirm receipt. Receivers place the pallets in the staging area for AMR pickup. Pivotal™, Vecna Robotics' Orchestration Engine, assigns an AMR which travels to pallet staging area. The autonomous pallet jack scans the pallet to validate its mission, and pickups the pallet to deliver it to the targeted destination.



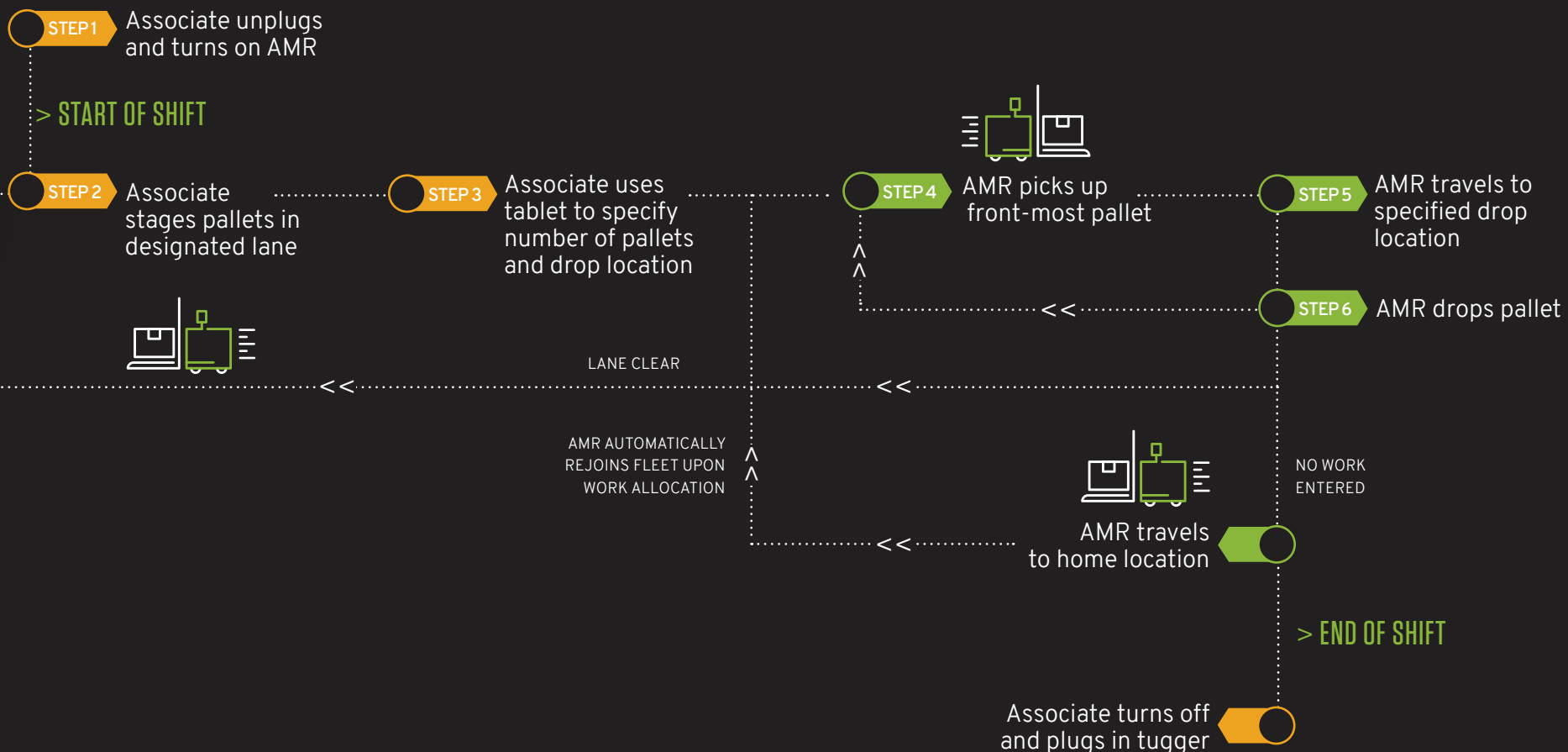
PALLET JACK STAGING LANES PUT-AWAY



ASSOCIATE



PALLET JACK



PACKAGE DETAILS

Number of Staging Areas: 1 Staging Area




Number of Dropoff Points: Up to 10



Number of AMRs: 1 pallet jack

MULTI-POINT TO MULTI-POINT TRANSPORT

Multi-point to multi-point transport is more than moving goods from point A to point B. Rather, autonomous pallet jacks plan their mission for the greatest efficiency between multiple pick-ups and drop-offs. This package offers an autonomous pallet jack to move heavy materials long distances, quickly and efficiently.

Best Used For:

-  Pallet builds
-  Tote returns
-  Garbage runs

-  Pallets to very narrow aisle (VNA)
-  Moving pallets between pickups and drop-offs



3PL USES AMR INTEGRATED WITH WMS FOR SINGLE PALLET TRANSPORT

One major third-party logistics site integrated Vecna Robotics' Pivotal Orchestration Engine with their WMS to improve forks-full time.

- STATS:**
- > 1.1 million sq ft facility
 - > 12 pallet build locations
 - > 10 inbound doors
 - > 43 outbound doors

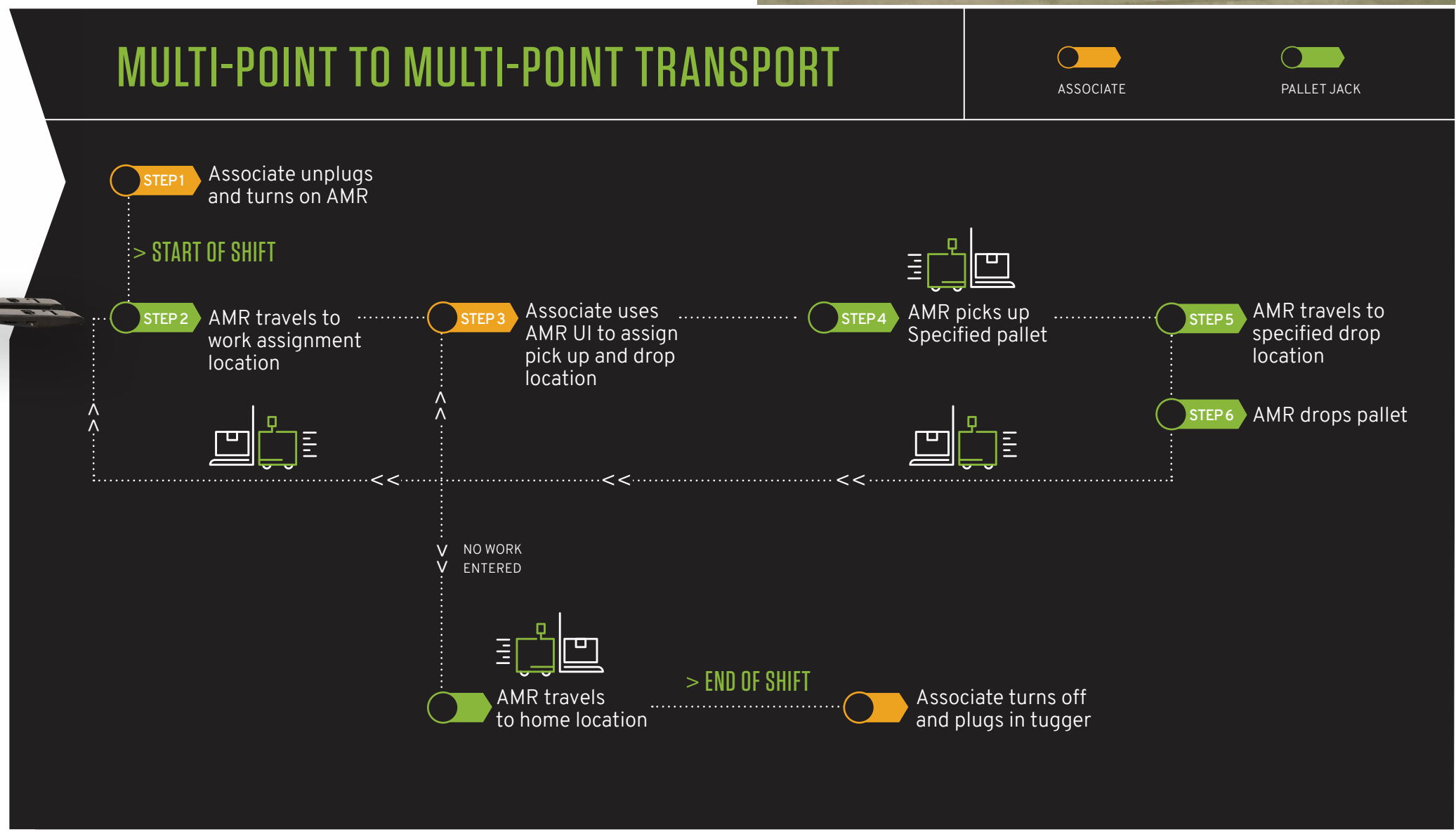
This site uses a fleet of pallet jacks in six different ways. In one particular use case, an associate completes a pallet build and scans the pallet to register it with Manhattan WMS. The WMS pings Pivotal which creates a task and assigns a specific robot.

When pickup and drop off are complete, the robot sends a message to the WMS, and moves on to its next assignment.

The interleaving of tasks across multiple use cases at this site led to an average of 75% forks-full time.



PACKAGE DETAILS	
Number of Pickup Points: Up to 5	Number of Dropoff Points: Up to 5
Route: 1-way	Number of AMRs: 1 pallet jack



RAPID DEPLOYMENT

Get up and running with mobile robots in four weeks.

- 1. Connect:** While robots are in transit, our deployment team connects to your network to ensure IT is in place. When the AMRs arrive, simply turn them on to sync to the network.
- 2. Map:** Introduce the AMRs to your facility with a guided tour.
- 3. Configure:** Optimize the AMRs to your facility by programming destinations, waypoints, drop spots, staging areas, restricted zones, and more.

EVALUATION

Vecna Robotics' Customer Success team will review the results and key performance indicators of your implementation at regular intervals. Success indicators include:

- Fleet performance
- Robot performance
- Traffic patterns
- Staff adoption

These insights are the key to unlocking major productivity gains. Use ongoing evaluation to pinpoint opportunities for expanding your fleet of AMRs, their application within your workflows, and their role within your IT ecosystem. The results of incremental adoption of automation in your facility will speak for itself.

WE'LL BRING THE ROBOTS. YOU SUPPLY THE FOLLOWING:

CAD DRAWING OF FACILITY:

Indicate locations where robots will be deployed

ACCESS TO WIRELESS NETWORK:

Pre-deployment access to your wireless network will enable us to set up your cloud server while robots ship.

SITE CHAMPION:

Appoint one staff member to work closely with the Vecna Robotics team. This person will oversee the implementation, training, and testing during the program.





LET'S GET MOVING

CONTACT US TO DISCUSS YOUR PROJECT GOALS.
FROM PO TO GO-LIVE IN FOUR WEEKS.

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