



Resource Orchestration

Warehouse management built for the future

Evolve how you run the warehouse with cognitive capabilities for complex dynamic warehouse operations with endless adaptability and continuous improvement

Business challenge

Traditional warehouses often rely on static resource schedules and manual oversight that fails to adapt to the dynamic nature of warehouse operations in real time.

Warehouse operators are forced every day to reallocate resources “on the fly” to accommodate any number of challenges. Intrashift disruptions from equipment failure or worker absences. Unexpected changes in order priority or the usual disruptions like late deliveries that can derail schedules and impact productivity.

Rising operational costs, growing customer expectations and increasing supply chain complexity mean that making on-the-fly resource decisions is no longer enough.

Resource Orchestration capability

Handling all of those daily resource challenges in real time with agility and scale is just a part of what Resource Orchestration can do.

Its real value is its focus on continuous efficiency in optimizing warehouse tasks. Resource Orchestration’s sensing capability can see the warehouse task queue, the skill and permissions level of all available resources, and their throughput rates all in real time. Based on that capability, it can assign the best available resource to each and every task continuously during the day. Improving completion rates and throughput while also reducing delays.

So, when there a product mix change or a priority wave, or a sudden emergency, Resource Orchestration can dynamically allocate resources to tasks in real time ensuring operational efficiency



Metrics

- Labor consumes

50-70%

of the total warehouse budget*

- Travel time consumes

25-40%

of warehouse costs**

Capability offerings

Agentic AI

- An AI copilot that turns warehouse data into actionable decisions
- Your AI partner that provides recommendations that you can approve and implement with confidence

Opportunistic

- Reallocates people or equipment the moment that it senses a more efficient match
- Ensure tasking assignments stay optimal as warehouse conditions evolve



Adaptable

- Automatically adjust recommendations as new tasks or disruptions arise intraday
- Understands the skill sets of the real time workforce to swap in the best available resource
- Understands the warehouse to allocated resources based on urgency but also proximity and availability

Scalable

- Capable of orchestrating thousands of tasks across the warehouse in real time
- Designed to handle the complexities of both small- and large-scale operations

Controlled

- Manual triggers allow the warehouse team to stay in control, supported by agentic recommendations.
- Configurability allows you to decide in advance the level of agentic decision-making.
- Configurable objectives like minimizing lateness, task completion or reducing travel time.

Key benefits

Operational efficiency

- Reduced idle time and optimized task sequencing
- Workflow continuity even during peak periods

Improved decision-making

- Actionable AI-powered insights

Reduced costs

- Reduce overtime by completing tasks as scheduled
- Minimize equipment wear and tear

Scalable on demand

- Ready whenever you need it
- Adaptable to facility size

One solution for the entire warehouse

Resource Orchestration is just one of the many cognitive capabilities included with Warehouse Management.

Our next generation warehouse management solution builds on 25 years of proven, robust capabilities with paradigm shifting innovation to better predict, plan, adapt, and unify warehouse operations.

* Is Idle Time Draining Your Warehouse Efficiency? Waveless Fulfillment Keeps Work Moving | inVia Robotics

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