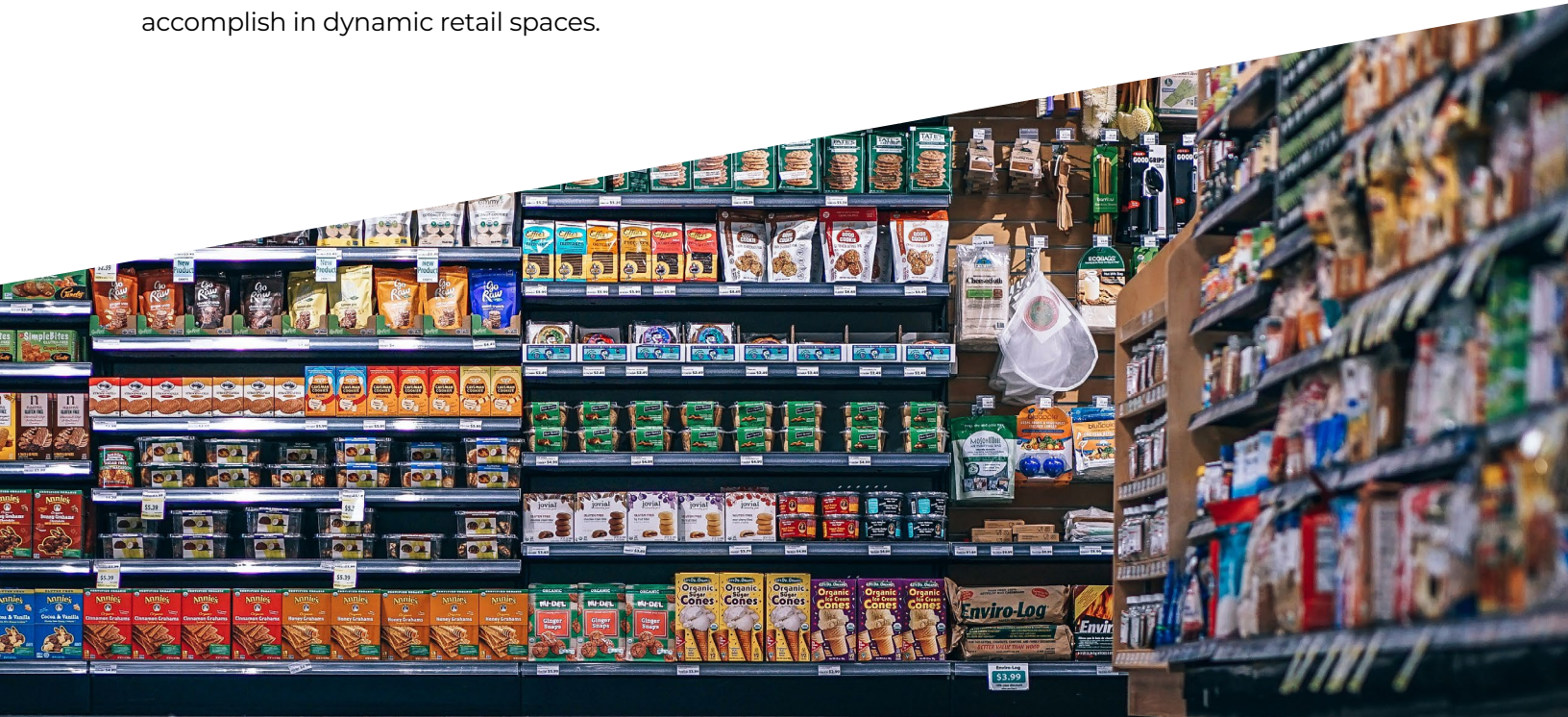


Avidbots Autonomy for retail stores & shopping centers

Retail stores present unique challenges for cleaning robots compared to other environments. By design, these commercial facilities encourage people and commerce — not floor scrubbing — to happen as efficiently as possible.

Floor layouts are temporary and ever-changing, human traffic is persistent and unpredictable, and operating hours limit the downtime available for thorough cleaning. These factors and more challenge many robots' autonomy and navigation systems — until now.

In the wake of breakthroughs in artificial intelligence, machine learning, and sensor technology, **Avidbots Autonomy** is redefining what cleaning robots can accomplish in dynamic retail spaces.



Avidbots
utonomy[®]
FOR RETAIL

Advanced Dynamic Planning: Finding the best route — every time

Avidbots takes a unique approach compared to many commercial floor scrubbers. Rather than only using the routes an operator has taught them, Advanced Dynamic Planning allows the robot to make real-time decisions, keeping up with alterations to the environment and adapting when objects such as end caps or floor bins move, or layouts in seasonal areas change.

As a result, our robots are problem-solvers, eliminating the need for manual intervention whenever issues arise, saving staff valuable time and effort.

Advanced Dynamic Planning is possible because of a series of cutting-edge capabilities: Temporary Object Mapping, Automatic Exploration for Retail, Retail-Paths, and Complex Detours.

Temporary Object Mapping: Painting a complete picture of your space



A key part of any cleaning robot deployment involves the mapping process. Avidbots specialists tailor the robot's cleaning plans to your space. This is where Temporary Object Mapping differentiates itself from other approaches on the market.

Temporary Object Mapping identifies and classifies static (permanent) areas and objects. But it also does the same for dynamic (moveable) ones such as floor bins, aisle displays, seasonal areas, and other common retail-focused items, which we group separately and add into the plan. This extra step means our robots understand the difference and treat the two groups accordingly.

As a result, when temporary objects move — a common occurrence in retail stores — the robot doesn't get lost, confused, or stop cleaning entirely. Therefore, Avidbots' approach creates a more comprehensive and flexible plan, adjusting to the situation on the ground and improving the robot's overall productivity and efficiency.

Automatic Exploration for Retail:

Up-to-the-minute data for smarter cleaning

Avidbots robots remap each sector by themselves before they begin to clean, doing a quick tour around the area. During this process, the robot peeks around corners, peers into aisles, and scans its surroundings. We call this Automatic Exploration, and it helps identify potential obstacles before they become an issue.

Thanks to Kas and Neo's extensive sensor suites, our robots compare what they're seeing here and now with the reference plan to decide the best route to take.

The result is a 'fresh map' that flags obstacles the robot needs to work around, as well as aisles and areas the robot should avoid — no handholding required.

Unlike most approaches that rely on a static, unchanging map of your space, our robots rely on up-to-date data to optimize their performance within your ever-changing environment. As a result, Avidbots robots avoid problem areas and don't get stuck — they just keep on cleaning!

Retail-Paths:

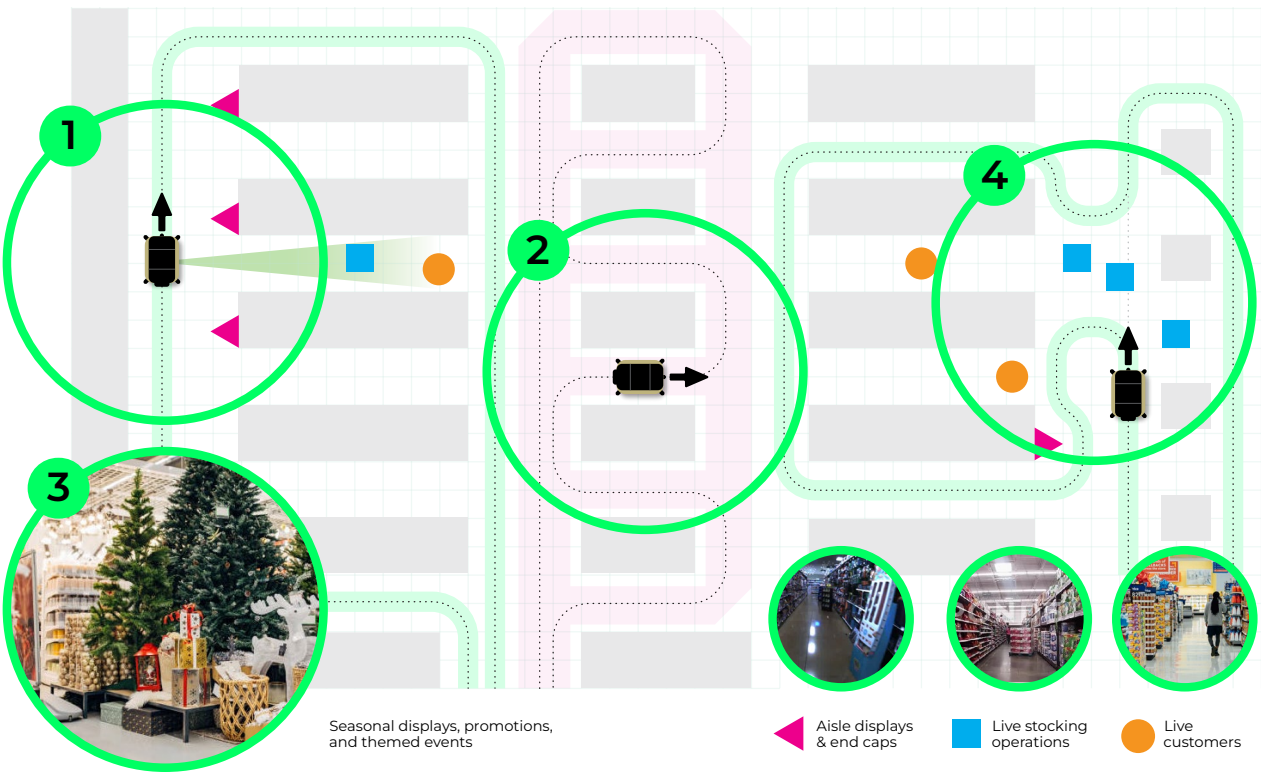
Creating unique cleaning paths for your facility

Avidbots robots excel in retail spaces with lots of aisles, but they are just as comfortable in other commercial spaces too.

Avidbots experts have the freedom to define cleaning "zones" such that our robots aren't limited by tight turns, defined routes, or U-turns that can trouble other options on the market. Our solution provides the flexibility to weave in and out of aisles to create a more fluid path. In tighter environments where traditional planning approaches used by other robots result in slow downs, stops, and even water spills, our advanced

Advanced Dynamic Planning:

Avidbots Autonomy in action in retail



autonomy solution allows our robots to avoid these problems, ensuring consistent, elevated productivity.

Seasonal Feature Management:

Staying in sync with your seasonal needs

Avidbots understands that retail environments are constantly updating their floor space to enhance the shopping experience. Holiday-themed sales, promotional events, new product launches, and more, versatile floor layouts help retailers manage traffic flows, optimize product placement, and boost sales.

Avidbots Autonomy's Seasonal Feature Management keeps up with your seasonal changes. Unlike other options on the market, there's no need to retrain the robot when you rearrange or reconfigure displays, shelving, kiosks, and more.

Using information from your robot's cleaning reports, Avidbots experts can automatically update maps to meet your seasonal needs. A key feature of the Avidbots Autonomy solution,

this white-glove service is available whenever you need it. Your robot stays up to date with changes, reducing downtime and remaining operational even when you make seasonal updates. No teaching required.

Complex Detours:

Solving cleaning problems, so you don't have to

Stores are living, breathing spaces that reflect the movement and activity of shoppers and staff. Each moment of every day presents a new scenario, with workers and customers completing varying tasks, and often alongside one another too.

Under these circumstances, a robot must get creative to keep up with changes to the environment. That's why Avidbots robots can execute Complex Detours, adapting on the fly and working around changes and obstacles as they arise. Rather than calling for help, Neo and Kas display a level of autonomy that lets store staff focus on more important work.

Meet the Avidbots family of cleaning robots

Why Avidbots?

Buying an Avidbots robot isn't just buying a floor scrubber. It's investing in a technological future that can redefine your cleaning function, making it more productive, more cost effective, and easier to run. More importantly, our robotics and AI-powered advanced autonomy open up new opportunities to make your business even more successful. We realize this isn't just about buying a product, or a technology, or even a business proposition. You want to buy into a trusted partner who can take you into the future of automated operations using cutting-edge robotics. At Avidbots, we work side-by-side with our customers to earn that trust and realize all the benefits that robotics can bring them.

About us

Avidbots is a robotics company with a vision to expand humanity's potential through robotics and automation. Our groundbreaking fully autonomous solutions — Neo, Neo 2W, and Kas — allow organizations to simplify their cleaning process, becoming more efficient, productive, and cost effective. Trusted by leading organizations across the world, our robots open new possibilities for businesses and their workers, making cleanliness a stepping stone to a more prosperous future. Founded in 2014 and headquartered in Kitchener, ON, Canada, Avidbots is offering comprehensive service and support to customers on five continents. Avidbots is backed by top global venture capital firms, including True Ventures, Next47, GGV Capital, BDC, Felicis Ventures, Real Ventures, and Golden Ventures.

© 2024 Avidbots Corp. All rights reserved. "Avidbots", "Neo", "Kas" and their respective logos are trademarks of Avidbots Corp.

**Specifications are subject to change*

BR-AUT-RET-06052024

Neo 2W

Warehouse



Neo 2

All-purpose



Kas

Commercial



Contact us

Avidbots Corp

45 Washburn Drive
Kitchener, ON N2R 1S1
Canada

sales@avidbots.com

+1-855-928-4326

Avidbots Chicago

5400 Newport Drive STE 7
Rolling Meadows, IL 60008
United States of America



Avidbots®