



From self driving cars to “self operating stores”



AiFi NanoStore: Automated store of future, powered by AI



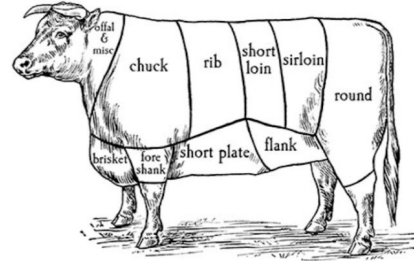
Agenda:

- A new market opportunity
- AiFi NanoStore
- Powered by AI, 24/7
- The future of retail

Today's retail stores

RETAIL *n.* *late Middle English: from Anglo-Norman French retailler 'a piece cut off,' from retaillier, from re- (expressing intensive force) + tailler 'to cut.'*

The **sale of goods** to the public in **small quantities** for **direct use** rather than for resale.



VENDING MACHINE:





7
ELEVEN

Check out your
new look
local!

Check out your
new look
local!





seasons

corner market

V-Power

V-Power

V-Power

V-Power

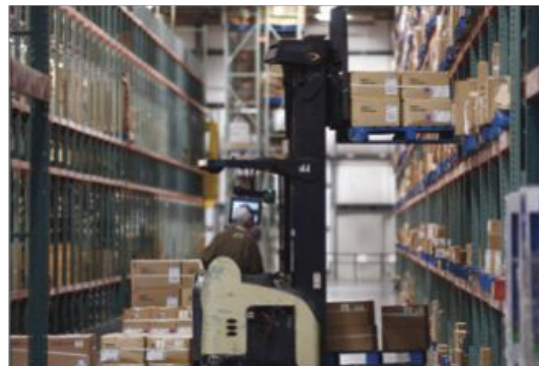
ENERGY WATER DAIRY

DOLLAR GENERAL

DOLLAR GENERAL

Now Open!





Imagine a map ... of stores

Serving radius

10 miles

2-3 miles

< 500 ft

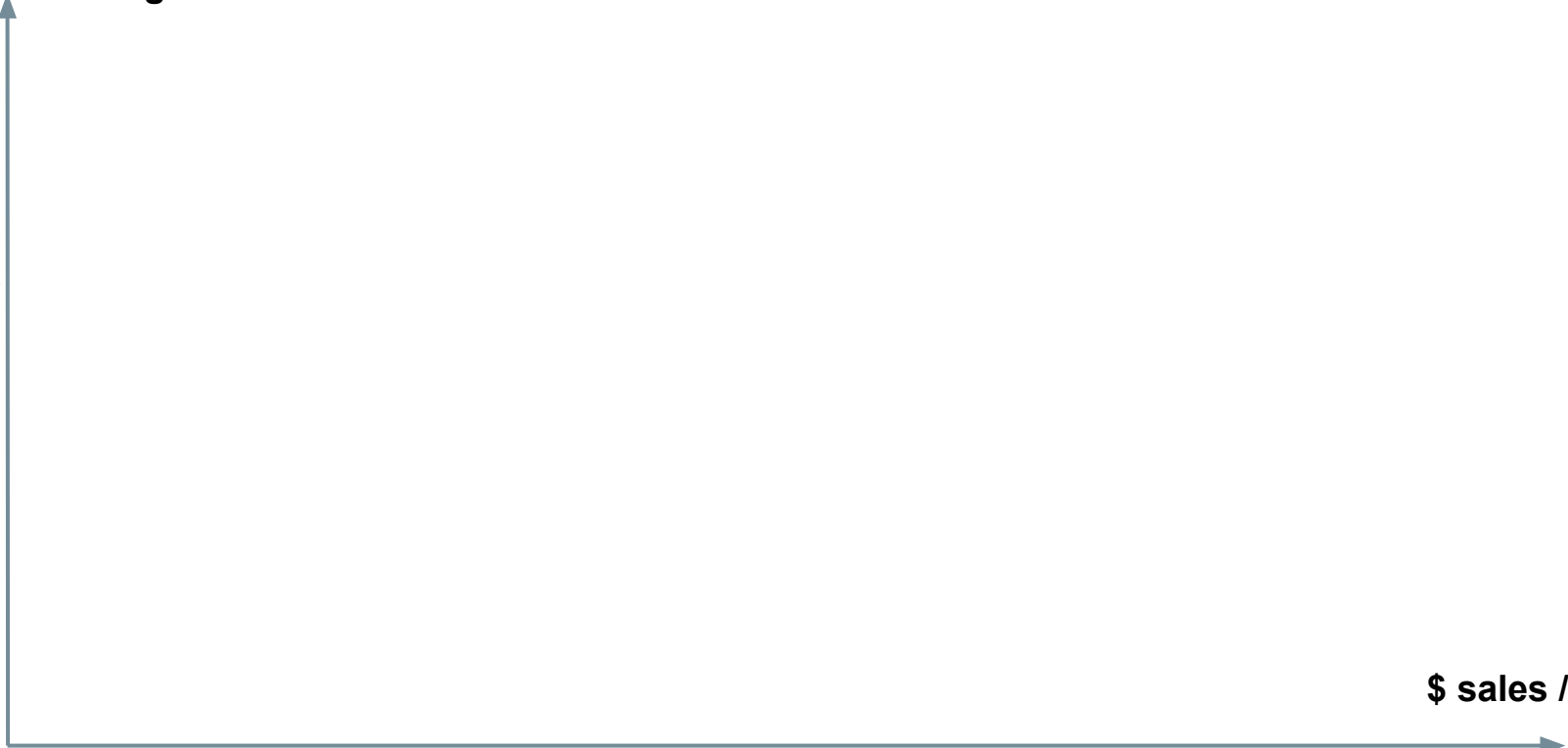
\$ sales / day

\$500

\$2k

\$10k

>\$100k



Serving radius

10 miles

2-3 miles

< 500 ft



Vending
Machines

\$500

\$2k

\$10k

>\$100k

\$ sales / day

Serving radius

10 miles

2-3 miles

< 500 ft



Vending
Machines

Hypermarket

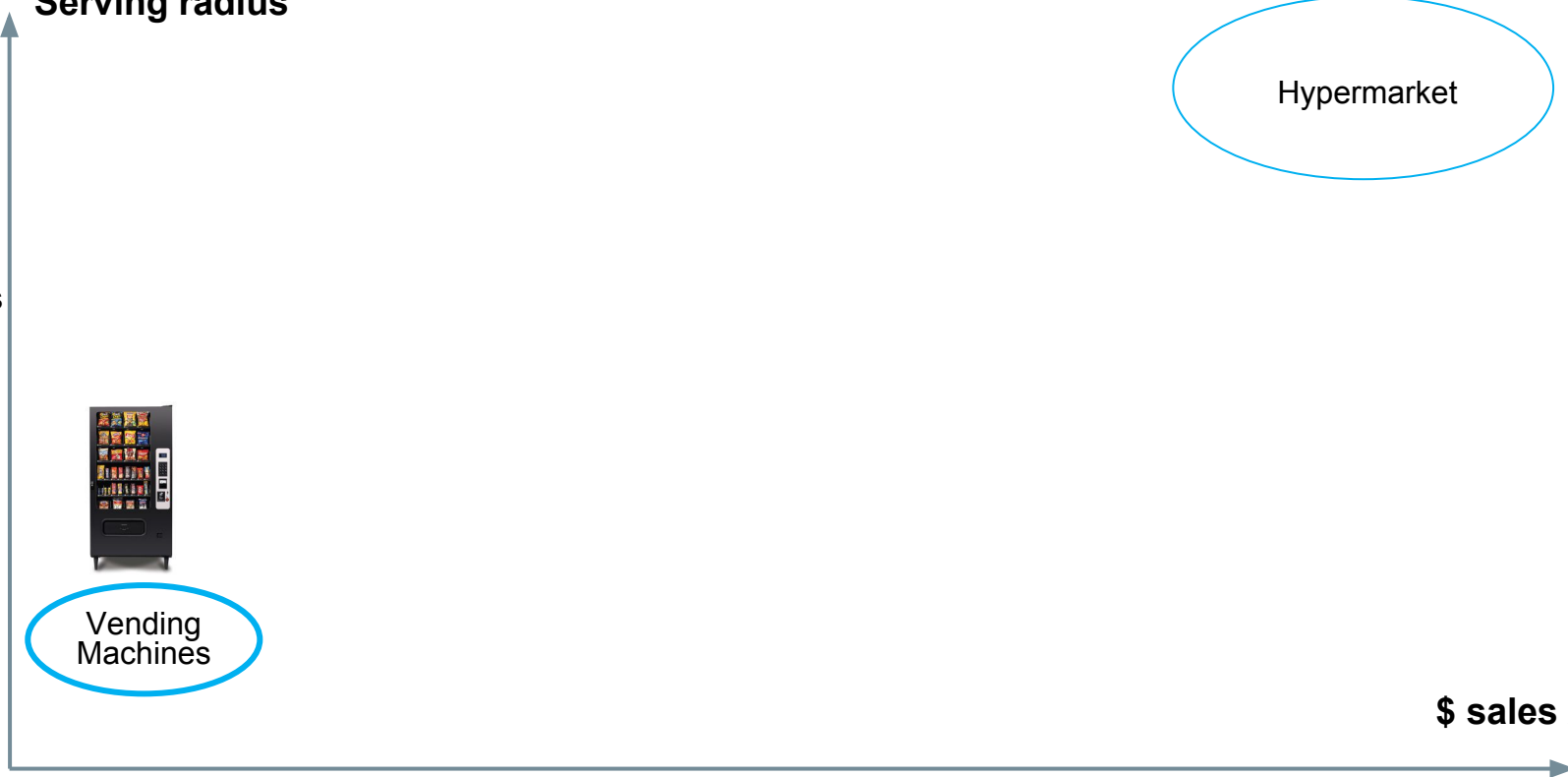
\$500

\$2k

\$10k

>\$100k

\$ sales / day



Serving radius

10 miles

2-3 miles

< 500 ft



Vending
Machines

\$500

\$2k

\$10k

>\$100k

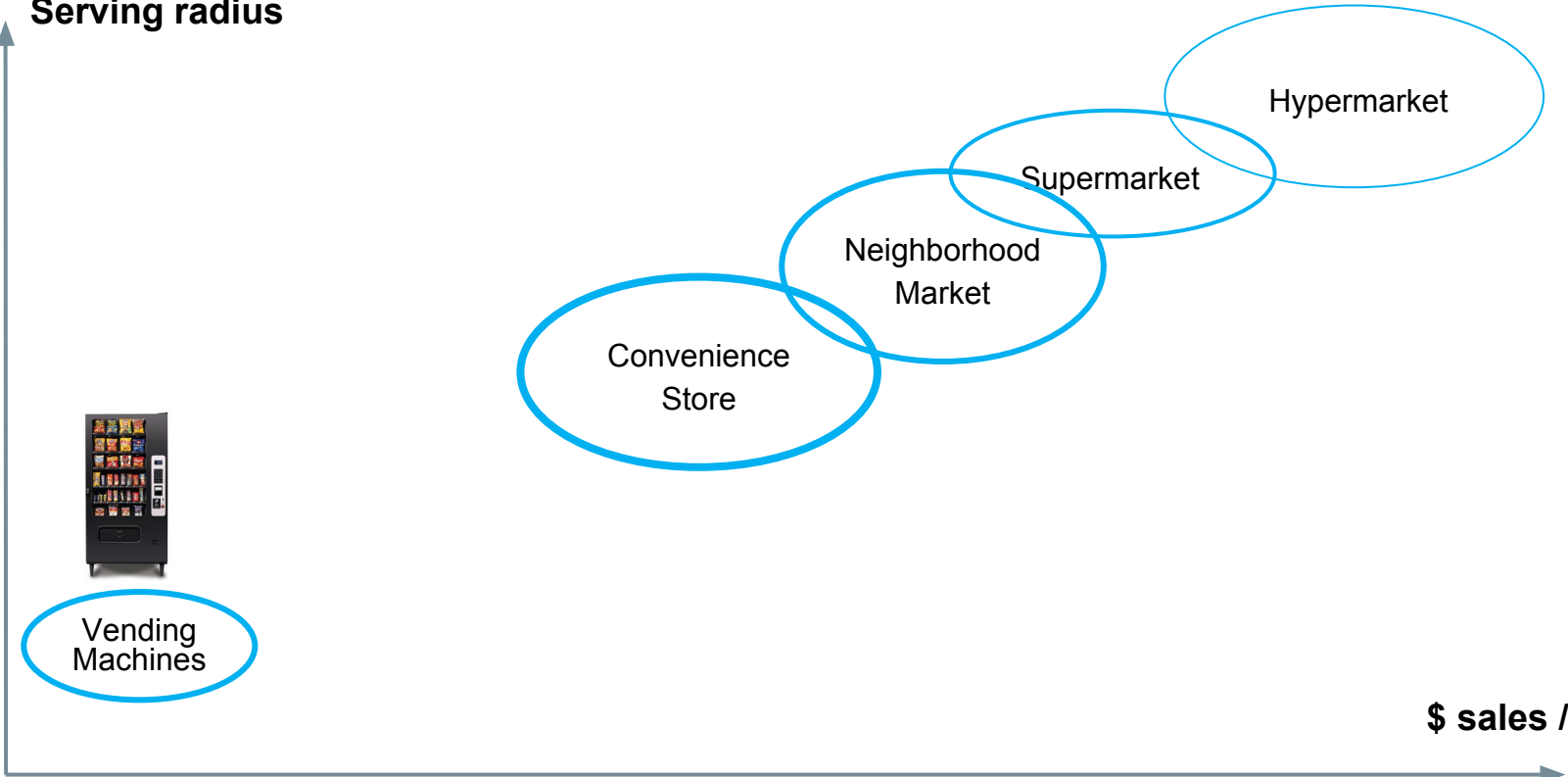
\$ sales / day

Convenience
Store

Neighborhood
Market

Supermarket

Hypermarket



Serving radius

10 miles

2-3 miles

< 500 ft



Vending
Machines

\$500

\$2k

\$10k

>\$100k

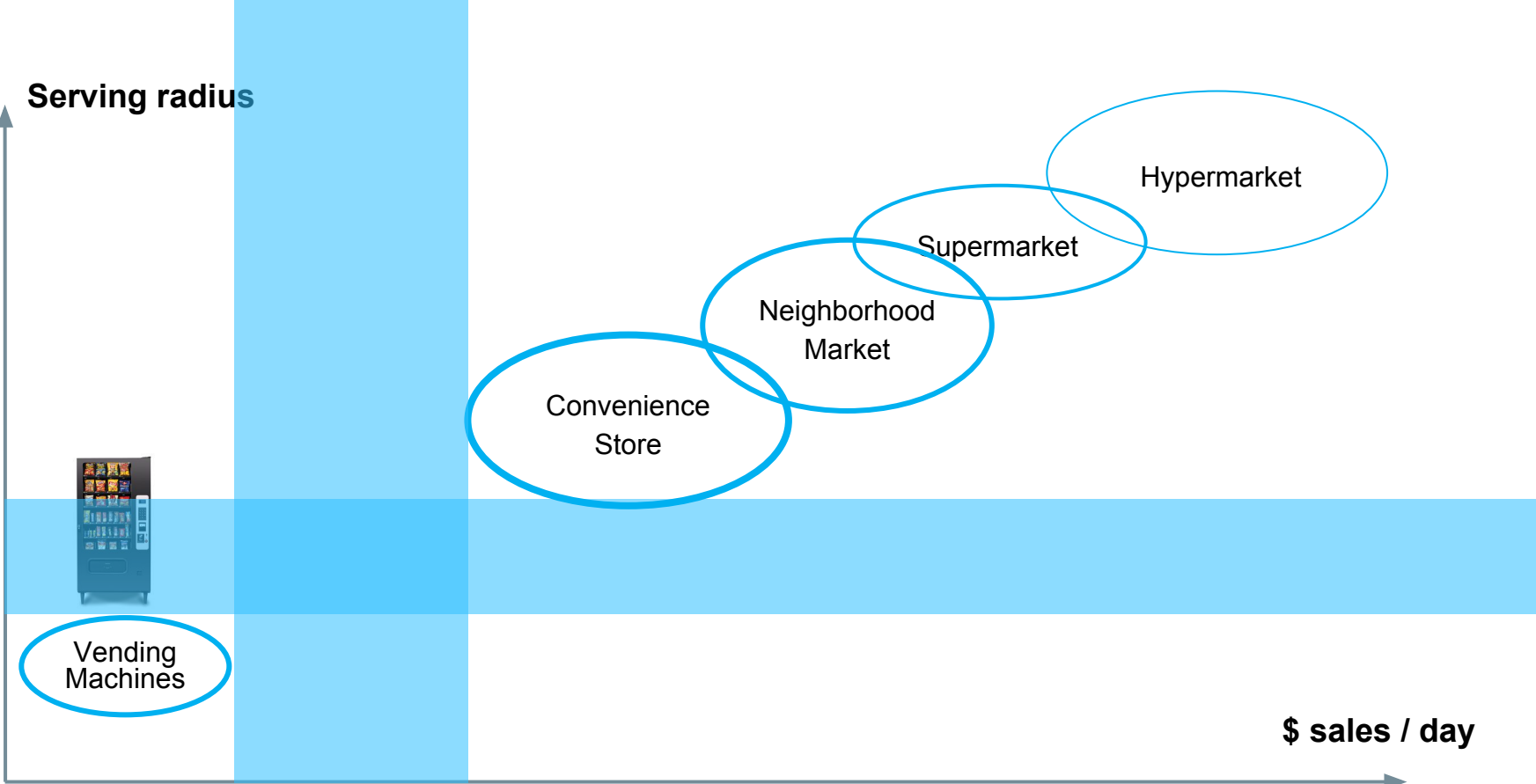
\$ sales / day

Convenience
Store

Neighborhood
Market

Supermarket

Hypermarket



Serving radius

10 miles

2-3 miles

< 500 ft



Vending
Machines

\$500

\$2k

\$10k

>\$100k

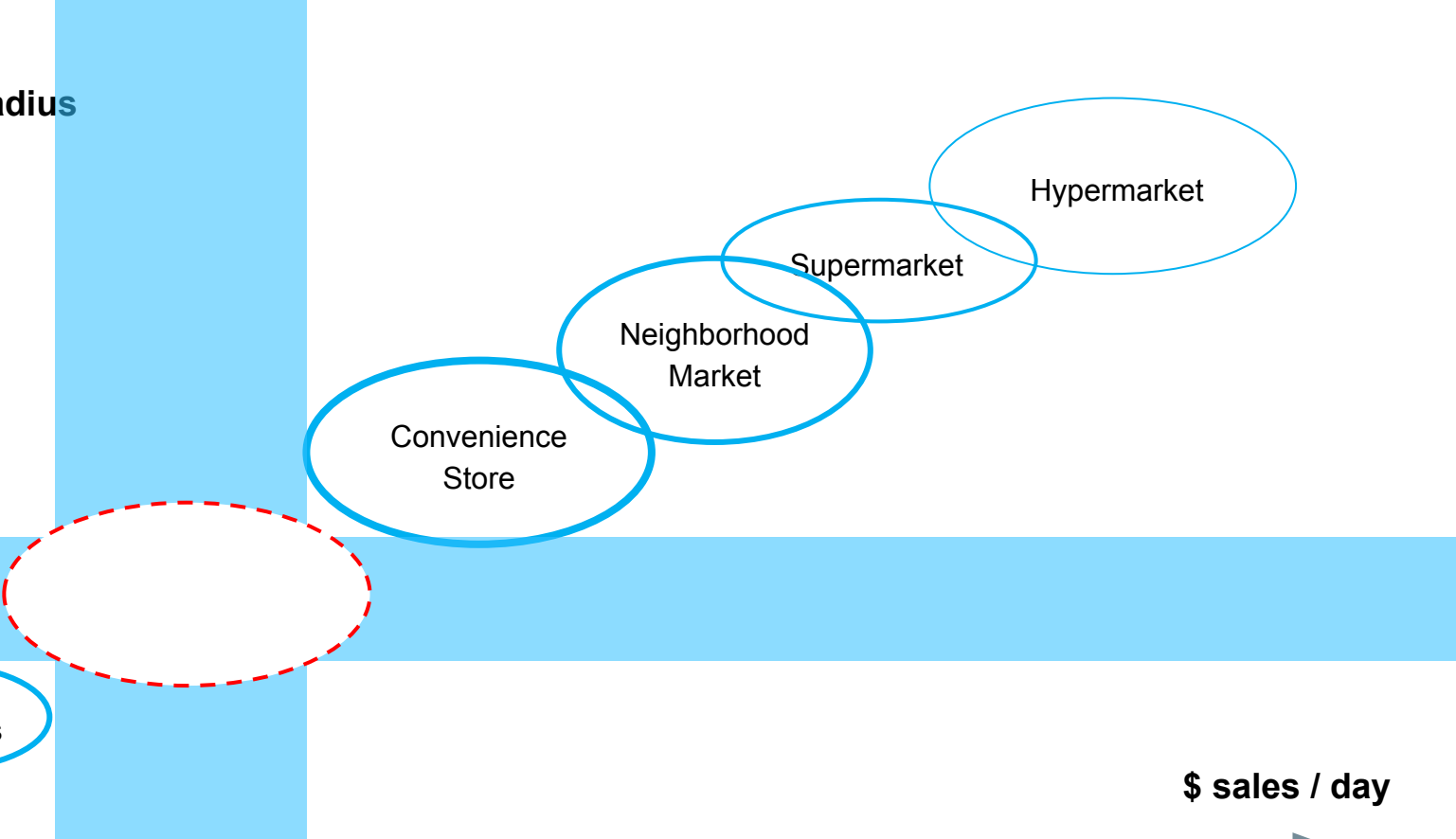
\$ sales / day

Convenience
Store

Neighborhood
Market

Supermarket

Hypermarket



Serving radius

10 miles

2-3 miles

< 500 ft



Vending
Machines

\$500

\$2k

\$10k

>\$100k

\$ sales / day

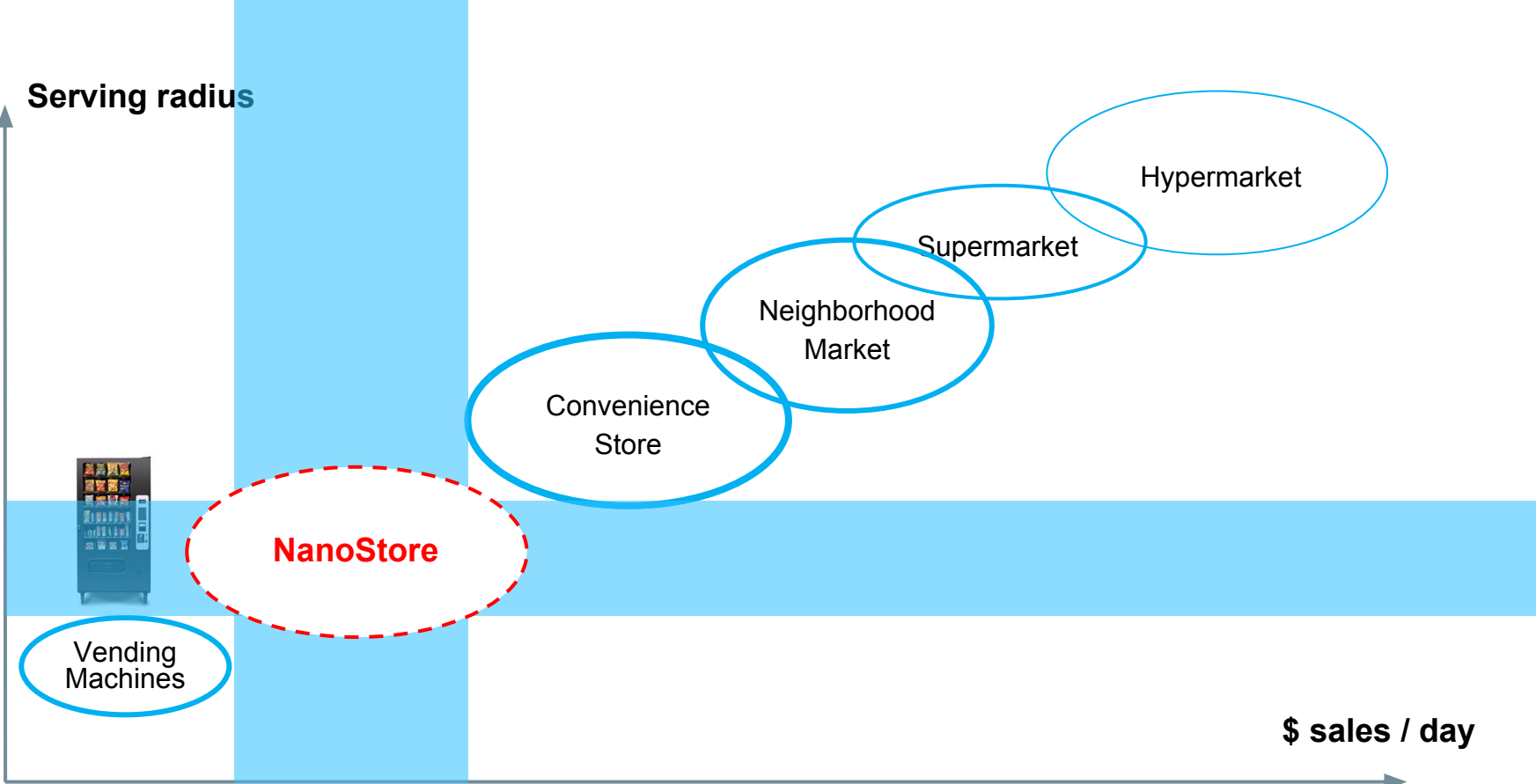
NanoStore

Convenience
Store

Neighborhood
Market

Supermarket

Hypermarket



Serving radius

10 miles

2-3 miles

< 500 ft



Vending
Machines

NanoStore

24/7, unstaffed, automated

Convenience
Store

Neighborhood
Market

Supermarket

Hypermarket

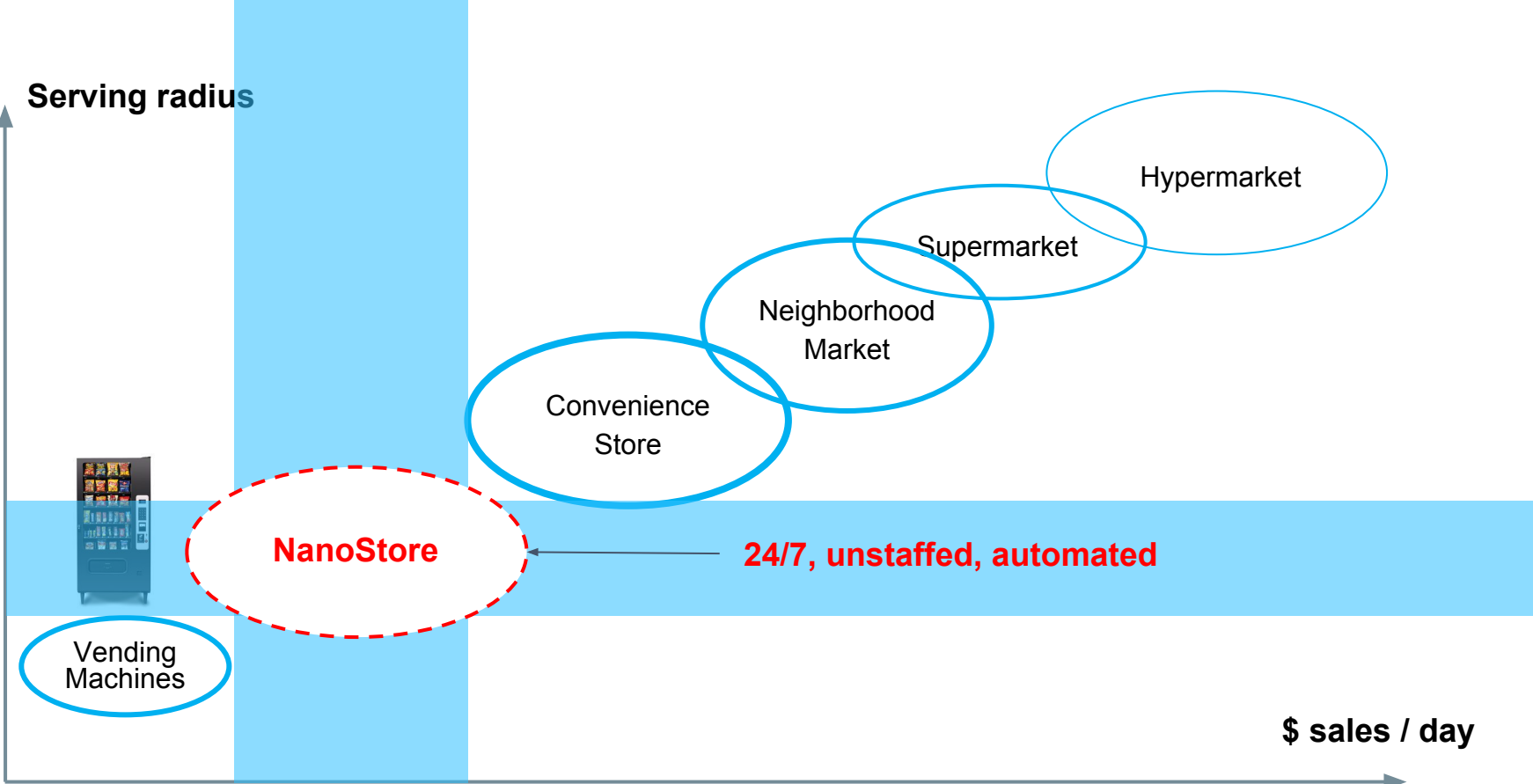
\$500

\$2k

\$10k

>\$100k

\$ sales / day





NanoStore: automated store of future,
powered by GPUs



Automated Checkout

Efficient

Smart Shopping

Lightning Fast

nanoStore
by
AIFI

nanoStore
by
AIFI
AUTOMATING THE WORLD'S STORES

The kiosk is a large, blue, rectangular structure with a central opening. It is covered in white line-art icons representing various food items (pizza, burger, coffee, bread, etc.) and shopping-related symbols (shopping cart, lightning bolt, star). The text 'Automated Checkout' is written vertically on the left side, 'Efficient' is at the top, and 'Smart Shopping' and 'Lightning Fast' are at the bottom. The main branding 'nanoStore by AIFI' is prominently displayed in the center. On the right side, there is a smaller version of the nanoStore logo and the tagline 'AUTOMATING THE WORLD'S STORES'. The kiosk is situated on a raised platform in a large, modern indoor space with a complex metal and glass ceiling structure.

INNOVATION STAGE
INNOVATION STAGE
INNOVATION LAB
STARTUP ZONE

point
BOOTH #373
INTELLIGENT
SOLUTIONS

Chopain
BOOTH #211
INTELLIGENT
RETAIL SOLUTIONS

0-5099

nanoStore

A man with short brown hair, wearing a red zip-up hoodie over a grey t-shirt and dark jeans, stands in a grocery store aisle. He is looking towards the camera with a neutral expression. The aisle is filled with shelves of various products, including bags of snacks and boxes of cereal. The lighting is warm and focused on the man. The background shows a store entrance with a sign that reads "94 St" and "5-6".

COMPUTER VISION

FARM STAND:







AiFi Nano

AiFi

Automated Checkout

Efficient

Smart Shopping

Lightning Fast

nanoStore
by
AIFI

nanoStore
by
AIFI
AUTOMATING THE WORLD'S STORES

The kiosk is a vibrant blue structure with a central opening. It is decorated with numerous hand-drawn icons representing various food items like pizza, burger, fries, and drinks, as well as shopping-related symbols like a shopping cart and a lightning bolt. The text 'Automated Checkout' is written vertically on the left side, 'Efficient' is at the top, and 'Smart Shopping' and 'Lightning Fast' are at the bottom. The main branding 'nanoStore by AIFI' is prominently displayed in the center. On the right side, there is a smaller version of the nanoStore logo and the tagline 'AUTOMATING THE WORLD'S STORES'. The kiosk is situated in a large, modern indoor space with a high ceiling and a complex metal framework. In the background, there are various banners and signs, including one for 'point' and another for 'NRF LOUNGE INNOVATION STAGE INNOVATION LAB STARTUP ZONE'. A red stanchion with a red ribbon is visible in the foreground, partially obscuring the kiosk.

0-5099

Chopain 2
BOOTH #2254
INTELLIGENT
RETAIL SOLUTIONS

NRF LOUNGE
INNOVATION STAGE
INNOVATION LAB
STARTUP ZONE

point
BOOTH #373
INTELLIGENT
SOLUTIONS

nanoStore

Ultra-convenient shopping whenever & wherever



University Dorms



Apartment Buildings



Railway station



Office Buildings



Supermarket parking lots



Airports

24/7 satellite stores for supermarkets



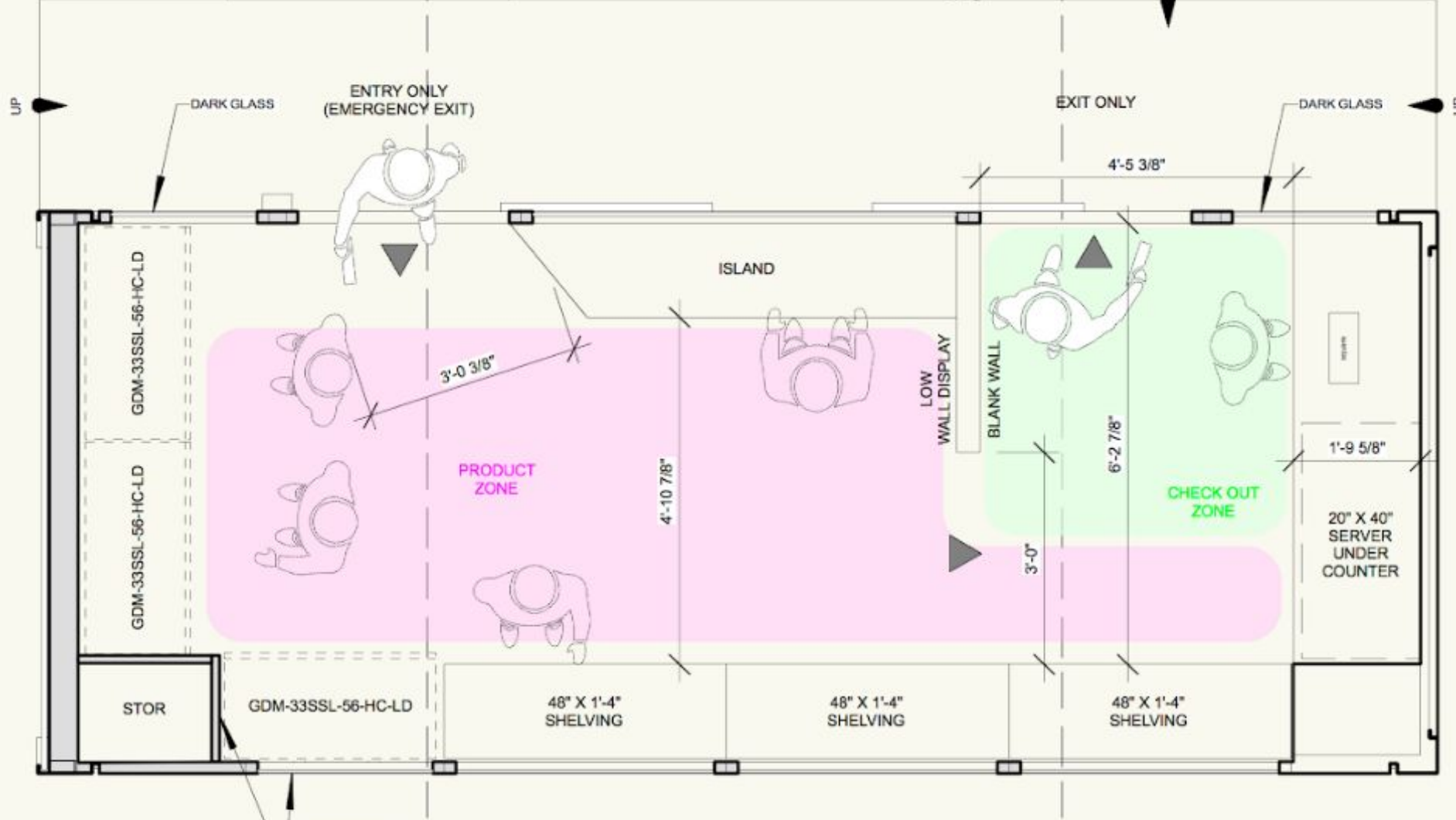
Local neighborhoods

Transforming Store Operations

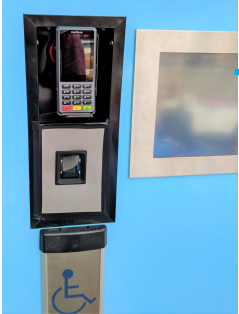
3 - 4 associates manage 10 - 20 nanostores



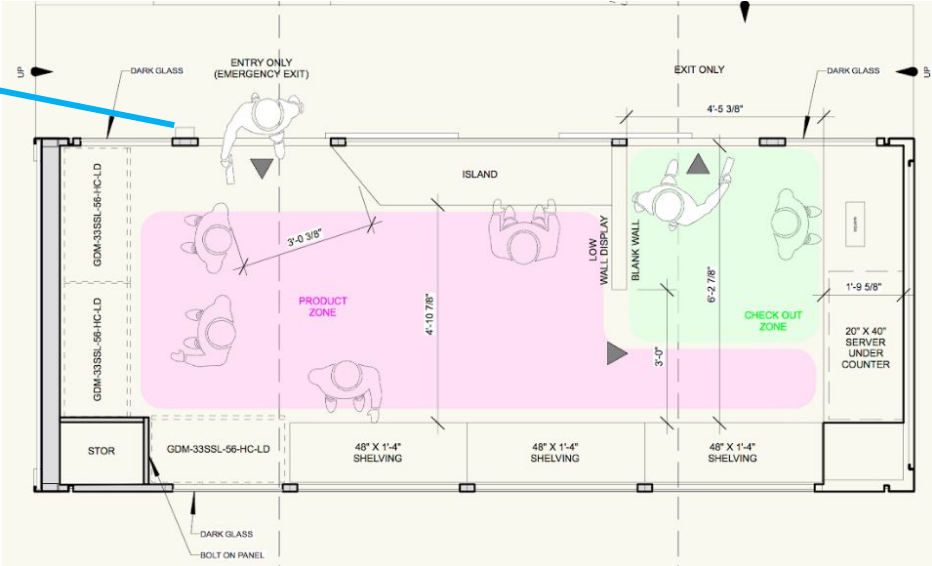
- + Real-time inventory
- + Theft alerts
- + Out-of-stock alerts
- + Shelf compliance
- + A new line of business



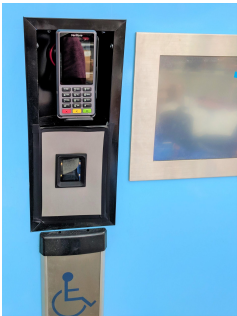
NanoStore Components



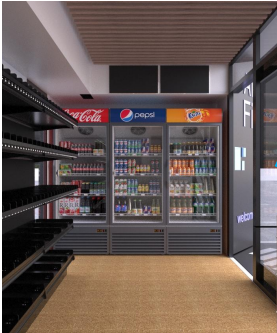
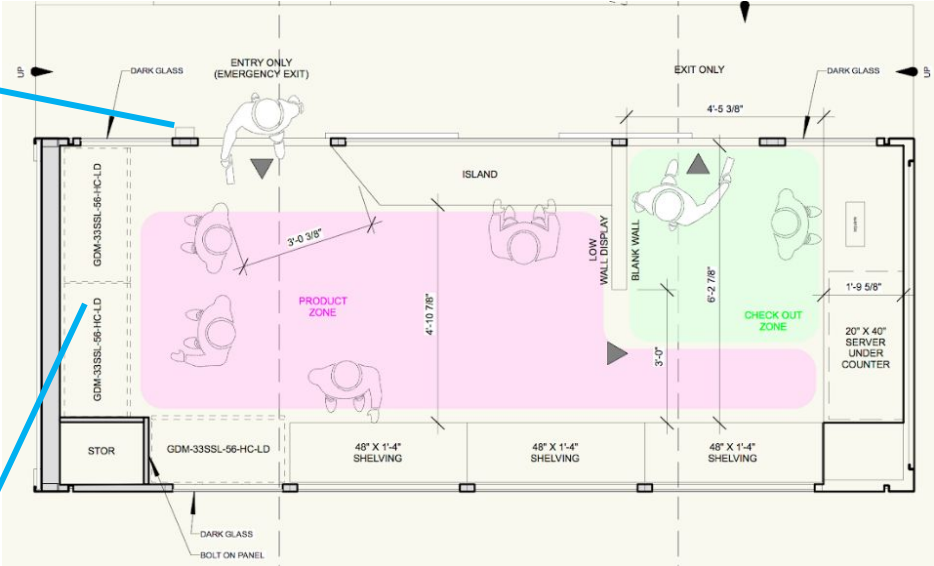
Credit card / phone app



NanoStore Components

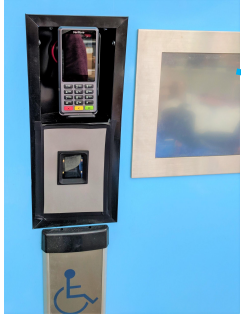


Credit card / phone app

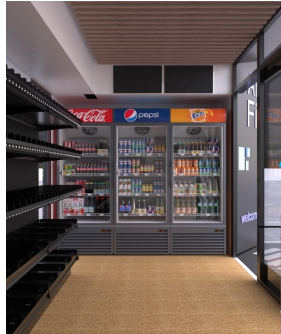


Coolers

NanoStore Components



Credit card / phone app

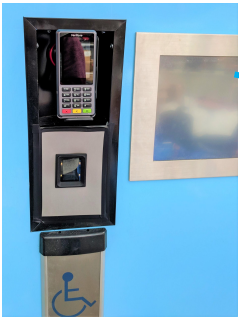


Coolers

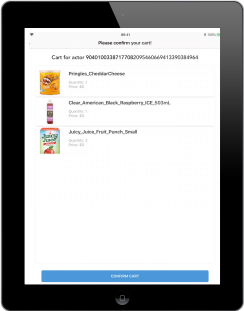
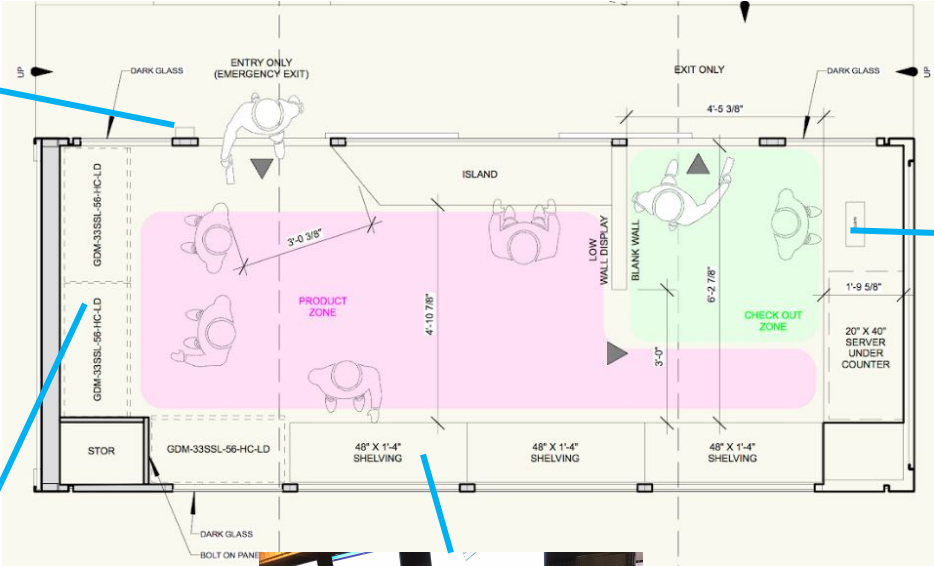


Dry shelves

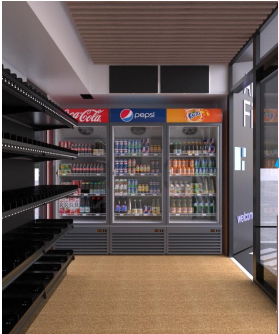
NanoStore Components



Credit card / phone app



Instant receipts

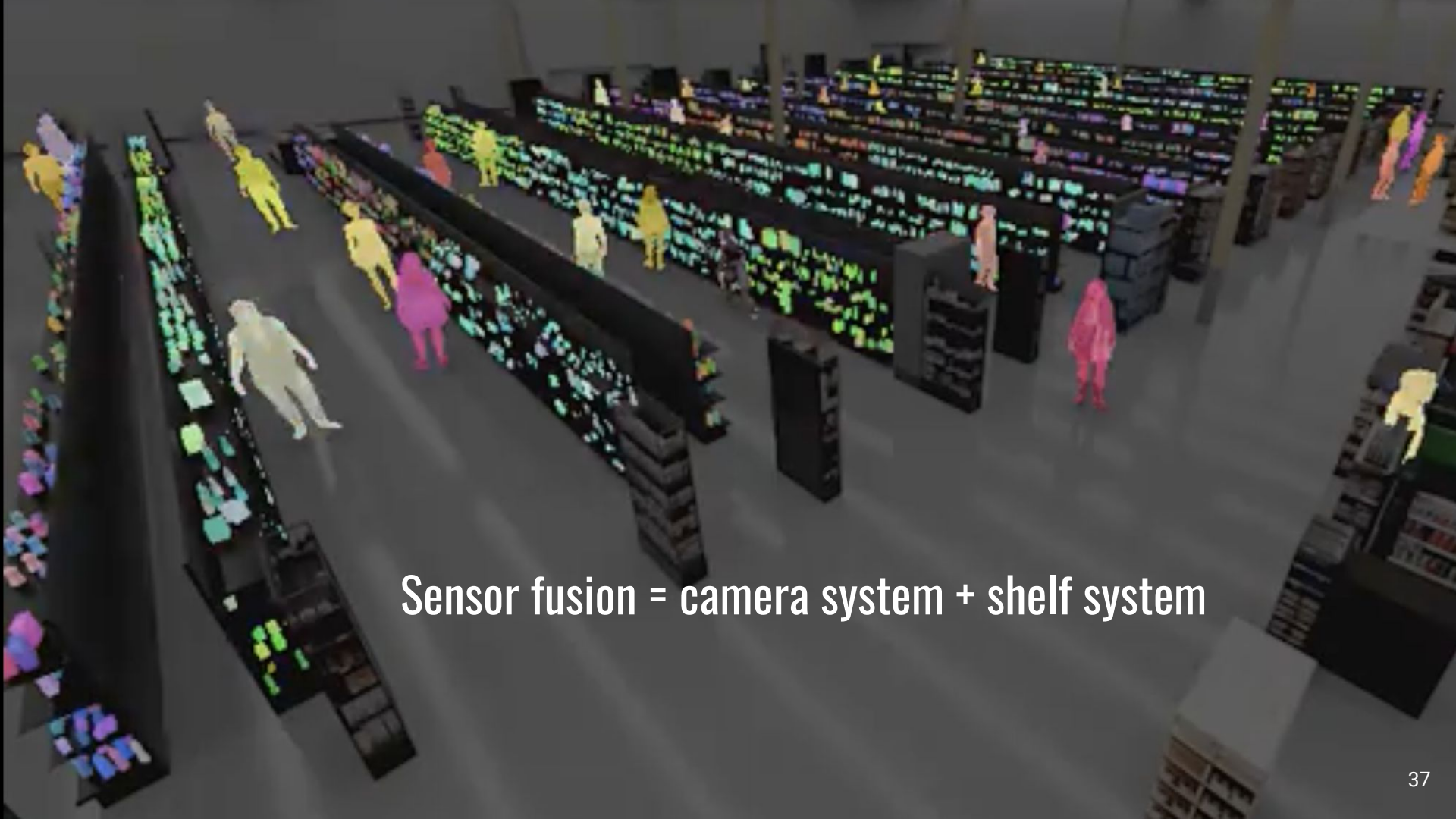


Coolers



Dry shelves

Powered by AI, 24/7



Sensor fusion = camera system + shelf system

Challenging use cases



small items (occlusion)



misplaced items (random)



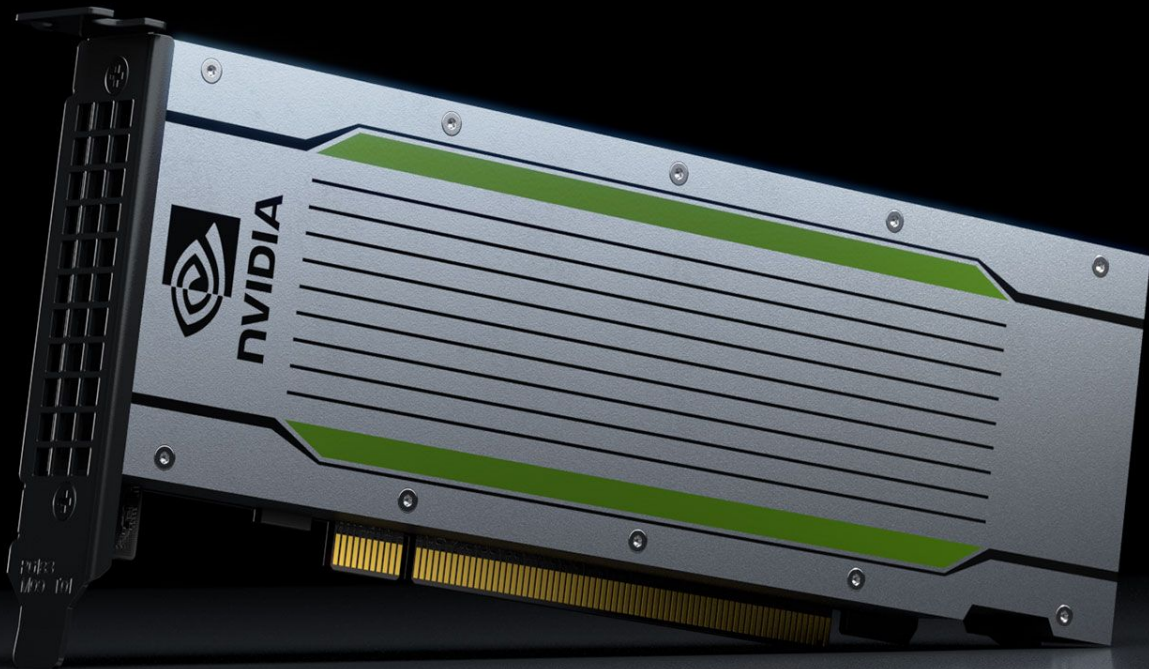
fresh produce (weight)

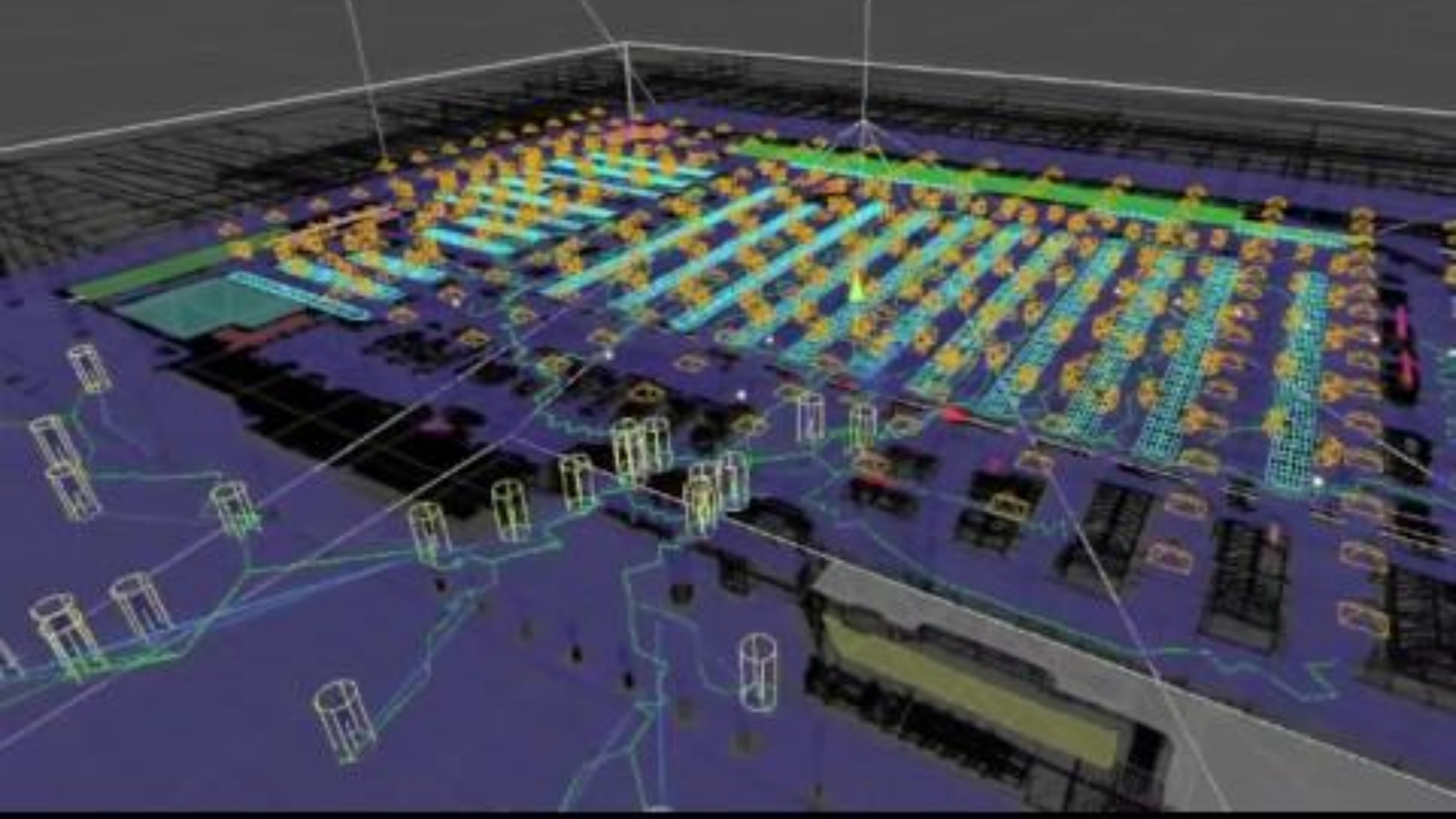


crowded & cluttered aisles



theft











Inventory Analysis & Business Insights





TESLA T4

2,560

CUDA CORES

320

TENSOR CORES

8.1 TFLOPS

1X PRECISION

65 TFLOPS

MIXED PRECISION

130 TOPS

INT8 PRECISION

260 TOPS

INT4 PRECISION

PCIe

INTERCONNECT

16GB GDDR6

MEMORY

320 + GB/s

BANDWIDTH

75 watts

POWER

TESLA P4

2,560

CUDA CORES

-

TENSOR CORES

5.5 TFLOPS

1X PRECISION

-

MIXED PRECISION

22 TOPS

INT8 PRECISION

-

INT4 PRECISION

PCIe

INTERCONNECT

8GB GDDR5

MEMORY

192 + GB/s

BANDWIDTH

75 watts

POWER



1 GPU per nano store

Technologists in AI & fusion systems



\$1M cash prize
among 3 winners;

Best enterprise
software startup



Top 1 among 900 teams in US



Partnerships



Carrefour

valora

zabka

Featured in

 CBINSIGHTS

NRF | 2019
RETAIL'S BIG SHOW

TC
TechCrunch

VentureBeat



Can NanoStore be the next big thing?



Learn more at nanostore.ai

Automating the world's stores