



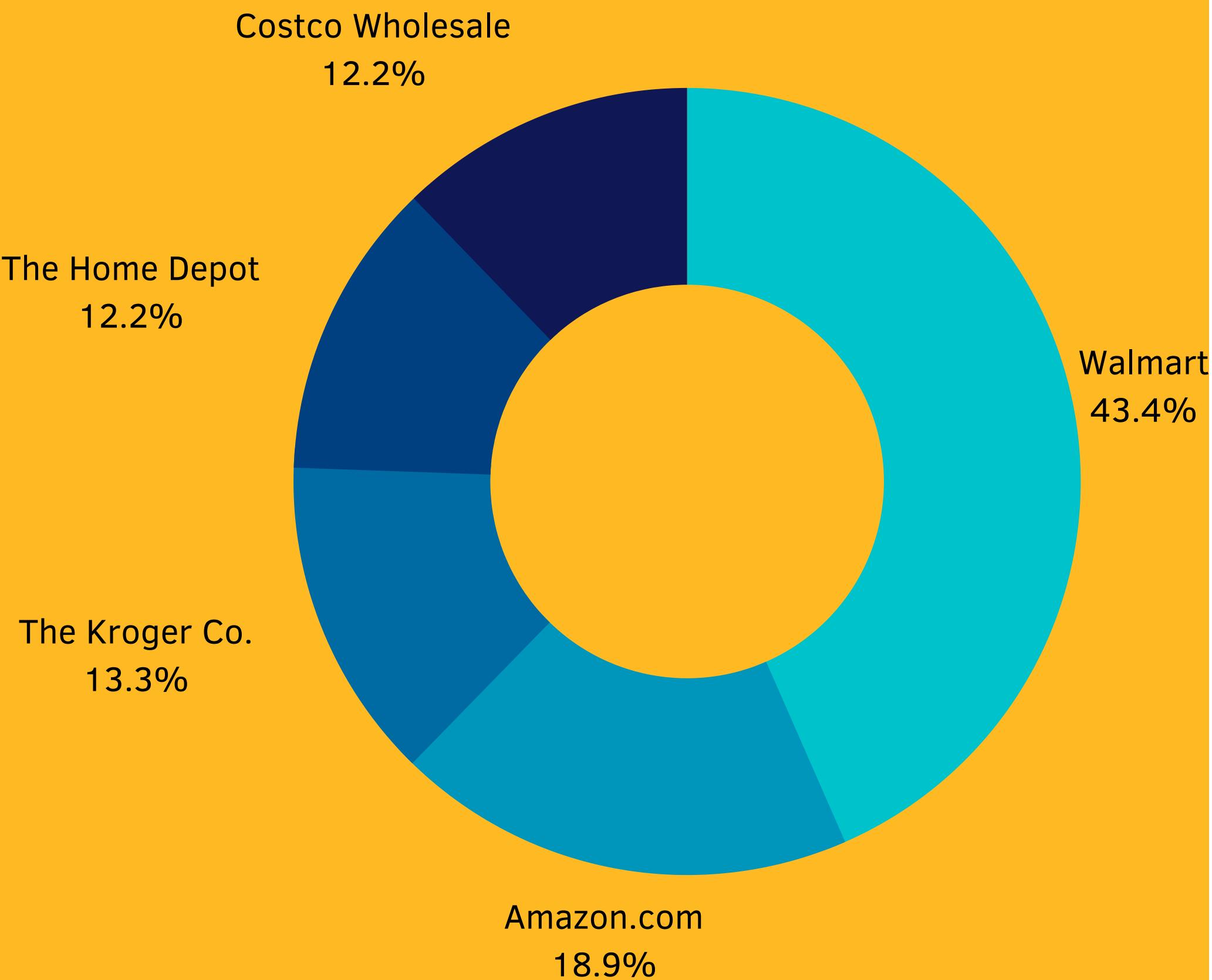
Source: Fortunes



IMT 580 presentation by Team 3

How Walmart is using technology to
transform its retail operations

Retailers in the USA



- Walmart Inc. is an American multinational retail corporation that operates a chain of hypermarkets, department stores, and grocery stores
- Walmart is at the number one position in the Fortune 500 list of companies, with a revenue of **US\$548.743 billion**. (Wikipedia, 2021)
- **Largest private employer in the world with 2.2 million employees.**
- **Walmart's Mission : “Walmart Inc. helps people around the world save money and live better - anytime and anywhere - in retail stores and through eCommerce.”**



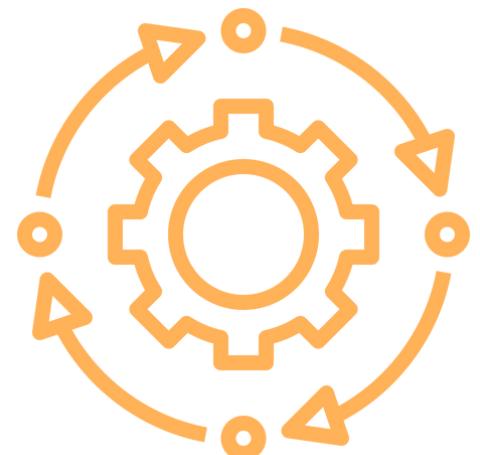
**Lettuce tell
you a story
of how things reach your home**



*Engage in valuable strategies
Invest in the development of new technologies*

PLAN

ORGANIZE



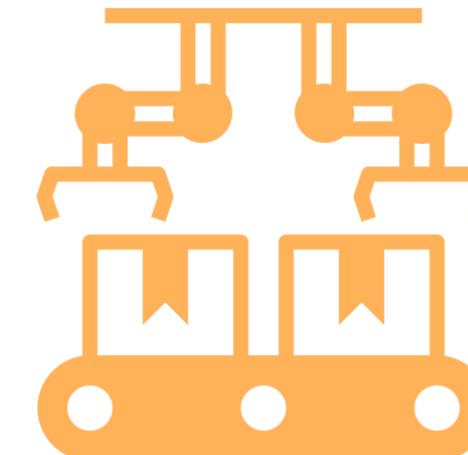
WMS

Determine



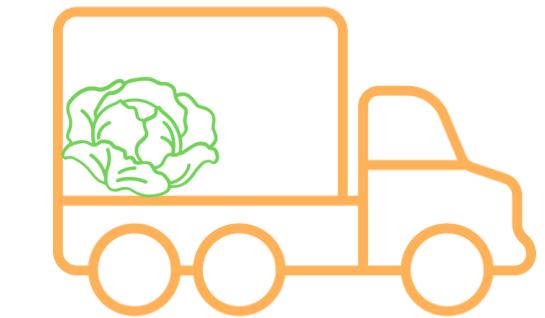
Warehouse

Place



Symbotic Robots

Facilitate



Loading the Truck

Move

Self Driving Trucks

- Walmart utilizes most self-driving trucks utilized to take goods from warehouses to retail stores or fulfillment centers.
- This reduces the distance from warehouses and points of consumer access.
- Grocery stores typically have profit margins between 2 and 4 percent. Reducing logistical costs through automated trucks will improve these margins, better preparing Walmart for volatility in the market and allowing reinvestment into the company.
- The company claims this frees its associates for higher-level tasks, such as customer assistance.



*Engage in valuable strategies and
Emphasize and effectively use human capital*

PLAN

CONTROL

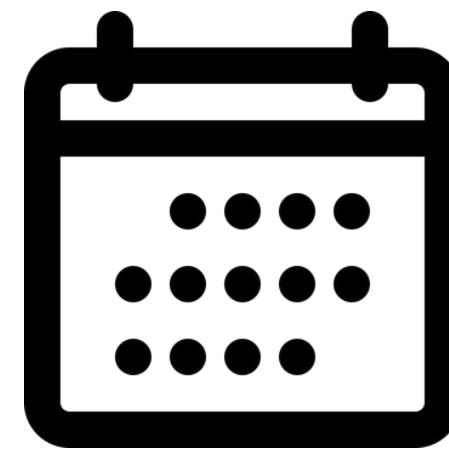


Why Blockchain?

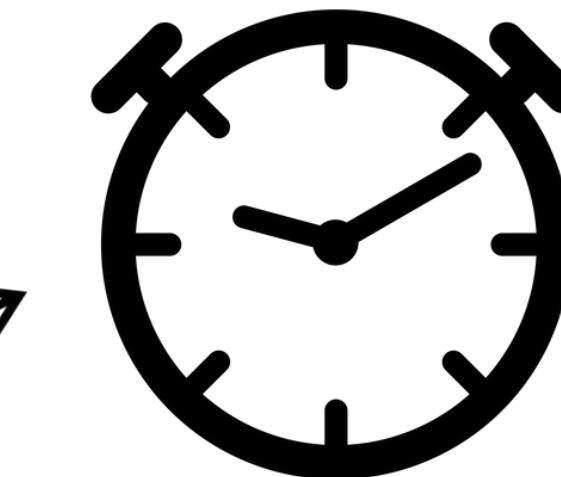
Engage in ethical practices

ORGANIZE

CONTROL



7 Day Tracking

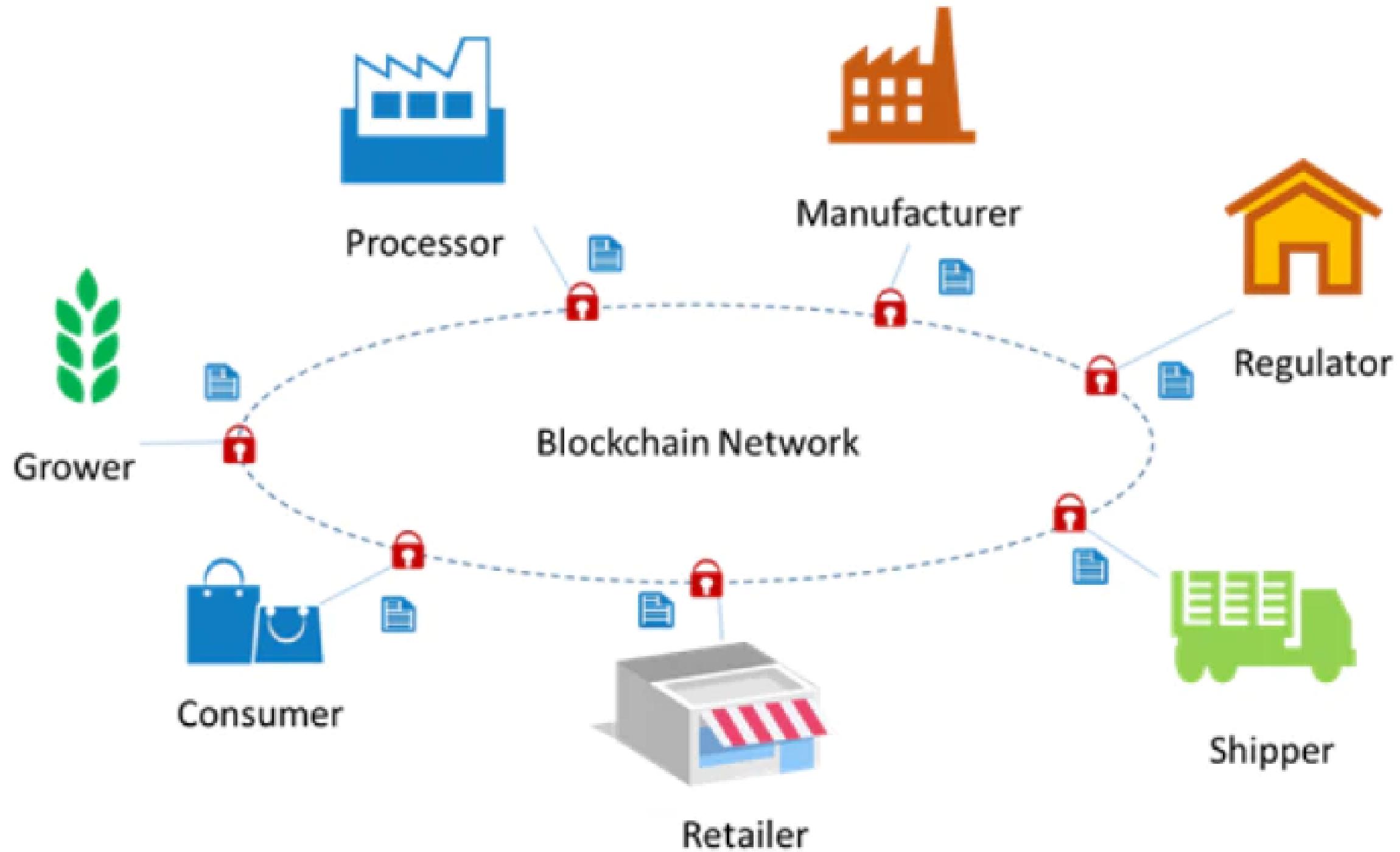


2.2 Second Tracking

- Most supply chains rely heavily on manual processes, making it difficult and time-consuming to trace back an issue
- Walmart has tackled this and has been successful in incorporating Blockchain to help increase traceability and transparency

How it works

The Connected Food Chain



Generate a certificate



Share it with the neighbor node



Provide the master certificate to the consumer



Effectively use human capital

PLAN

ORGANIZE

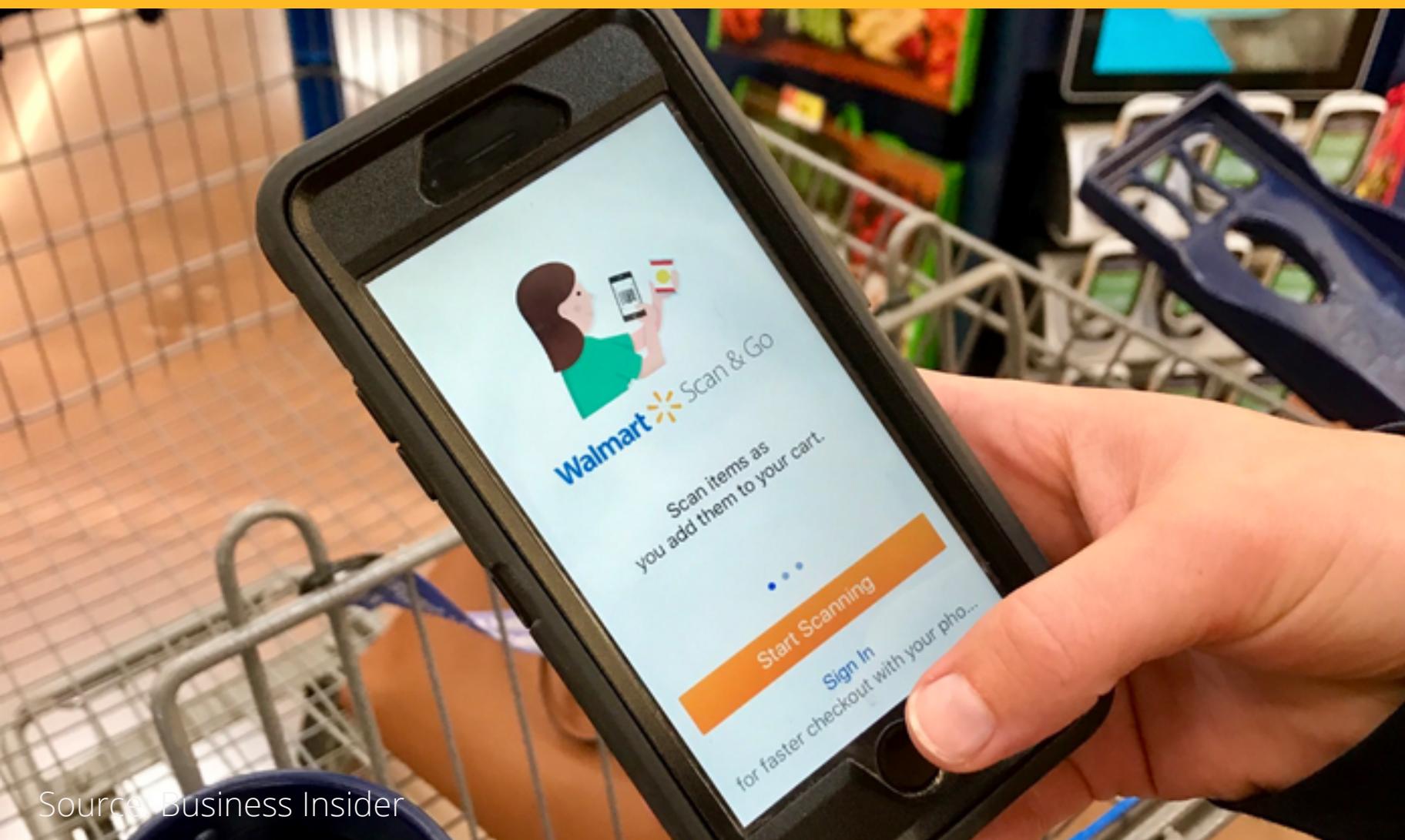
CONTROL

The system uses cameras, sensors, and deep learning to create a checkout-free experience.

Key features :

- Scanning items and bagging them as you shop
- Self-checkout counters - helps streamline in-store experience
- Skips registers, helps avoid increased contact with multiple people

How it works



Download the app



Scan barcode for items as you shop and go around the store



Keep track of tally as prices are added



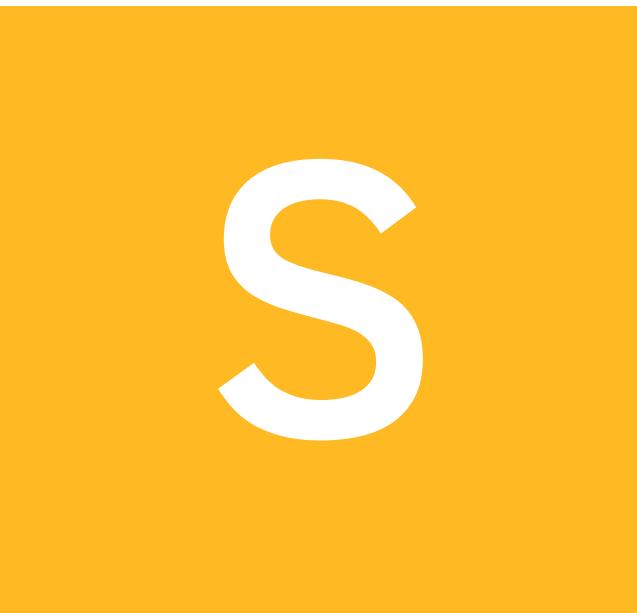
At the checkout counter, scan the QR code to make payment



At the exit, display the digital receipt

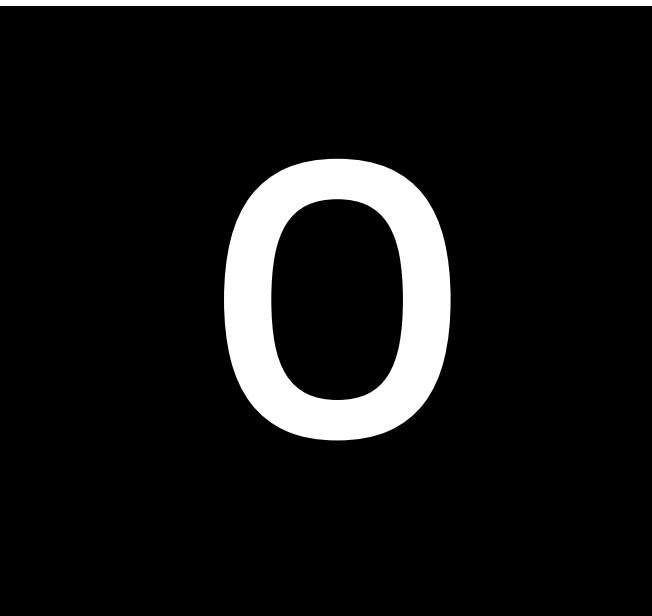
Strengths

- Self-driving truck and self-shelving robots help reduce physical human effort and automate inventory management efficiently.
- Self-checkout technology helps reduce long lines at checkout counters and enriches customer experience.
- Blockchain enables transparency, security, and speed along every step in the supply chain.

A large, bold white letter 'S' is centered on a solid yellow square background.A large, bold white letter 'W' is centered on a solid black square background.

Opportunities

- Automated supply chain options will improve customer experience, both directly and by freeing employees for higher-level concerns.
- Walmart can implement blockchain in every area of its business.
- Train employees to use all the newly implemented techs

A large, bold white letter 'O' is centered on a solid black square background.A large, bold white letter 'T' is centered on a solid yellow square background.

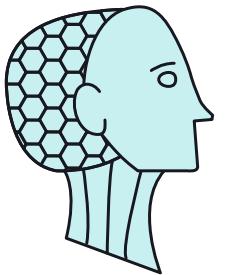
Weaknesses

- Automated advancements may cause loss of jobs
 - This can cause backlash from consumers and labor unions.
- Both blockchain and self-checkout technology have costly to implement and maintain.

Threats

- Security breaches in the system can collapse the distribution centre.
- Older, less tech-savvy customers resist innovations.

Recommendations



**Training existing workforce to work
with and operate the robots**

*Emphasize and effectively use human capital
Build dynamic core competencies*



**Incentivizing use of Scan &
Go Functionality**

Engage in valuable strategies



**Making sure Walmart is using
the right data security features**

Engage in ethical practices

Thank you!



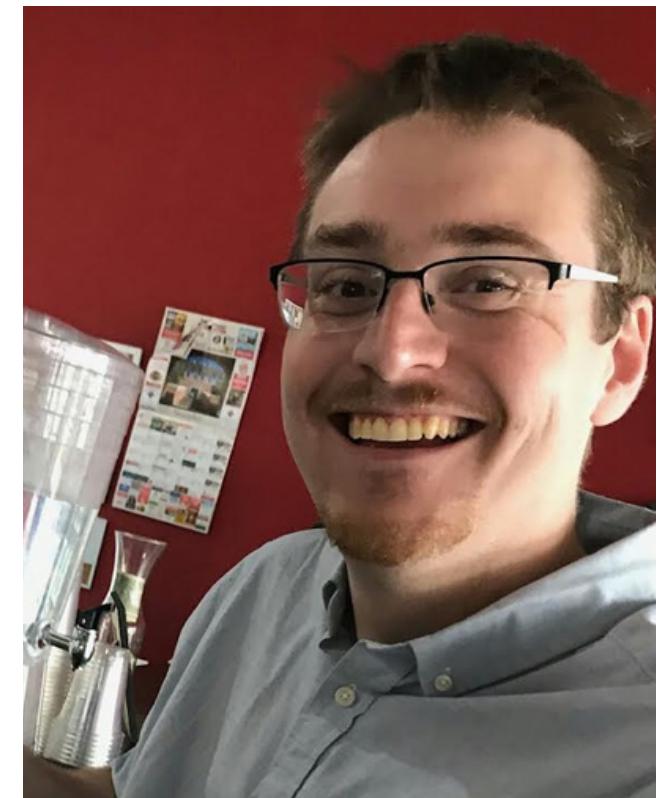
Aayushi Gandhi



Rohan Kalantri



Kashyap Jagwani



Steven Jaindl



Questions?



References

-  (Walmart.com) In Wake of Romaine E. coli Scare, Walmart Deploys Blockchain to Track Leafy Greens
<https://corporate.walmart.com/newsroom/2018/09/24/in-wake-of-romaine-e-coli-scare-walmart-deploys-blockchain-to-track-leafy-greens>
-  Supply Chain Dive(July, 2021)Walmart plans to automate 25 distribution centers with Symbotic
<https://www.supplychaindive.com/news/walmart-automate-distribution-centers-symbotic/603616/>
-  (Walmart.com)Chain Reaction: We're Partnering with Symbotic to Bring High-Tech Automation to Our Supply Chain
<https://corporate.walmart.com/newsroom/2021/07/14/chain-reaction-were-partnering-with-symbotic-to-bring-high-tech-automation-to-our-supply-chain>
-  George Anderson (2018, May) Walmart drops Scan & Go tech – again Retrieved from :
<https://www.retailwire.com/discussion/walmart-drops-scan-go-tech-again/>
-  Rimma Kats(n.d) Walmart is Mobile Retailer of the Year Retrieved from :
<https://www.retaildive.com/ex/mobilecommercedaily/walmart-is-mobile-retailer-of-the-year>
-  N.d (2020, November) Opportunities Abound for Scan & Go Technology in US Retail Retrieved from :
<https://www.mcmillandoolittle.com/opportunities-abound-for-scan-go-technology-in-us-retail/>
-  Wikimedia Foundation. (2021, October 29). Walmart. Wikipedia. Retrieved October 26, 2021, from
<https://en.wikipedia.org/wiki/Walmart>.