

Retail Store

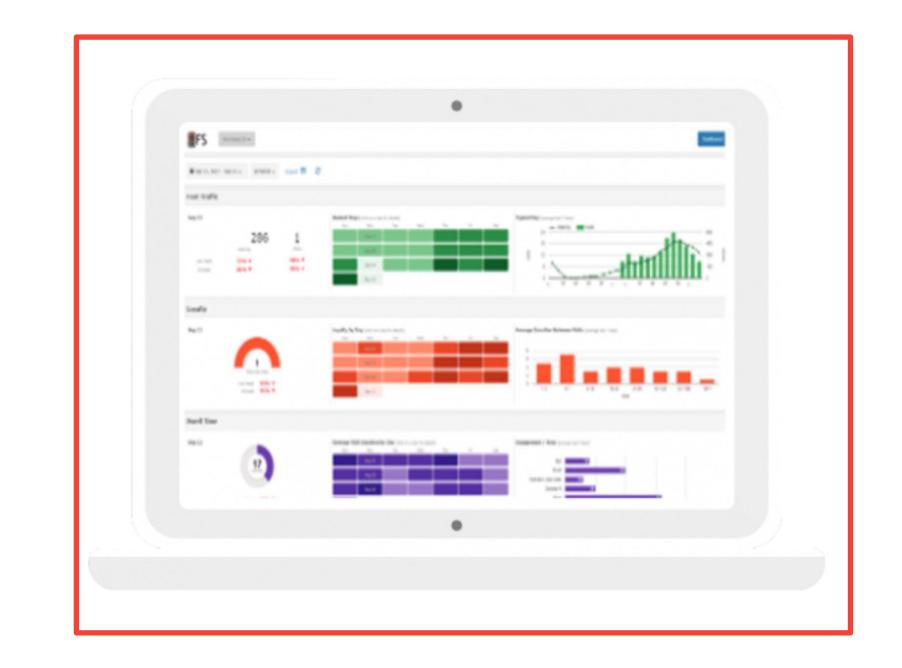


How to get a customer to buy another beer

In 2013, with a team of 65 hardware and software engineers our Founder, Daniel Bichara, developed the most accurate non-PII tracking system with greater than 90% passive penetration and up to one square meter accuracy.

Coupled with AI / Machine Learning, the FastSensor platform studies human behavior to create actionable analytics and triggers that help increase sales.

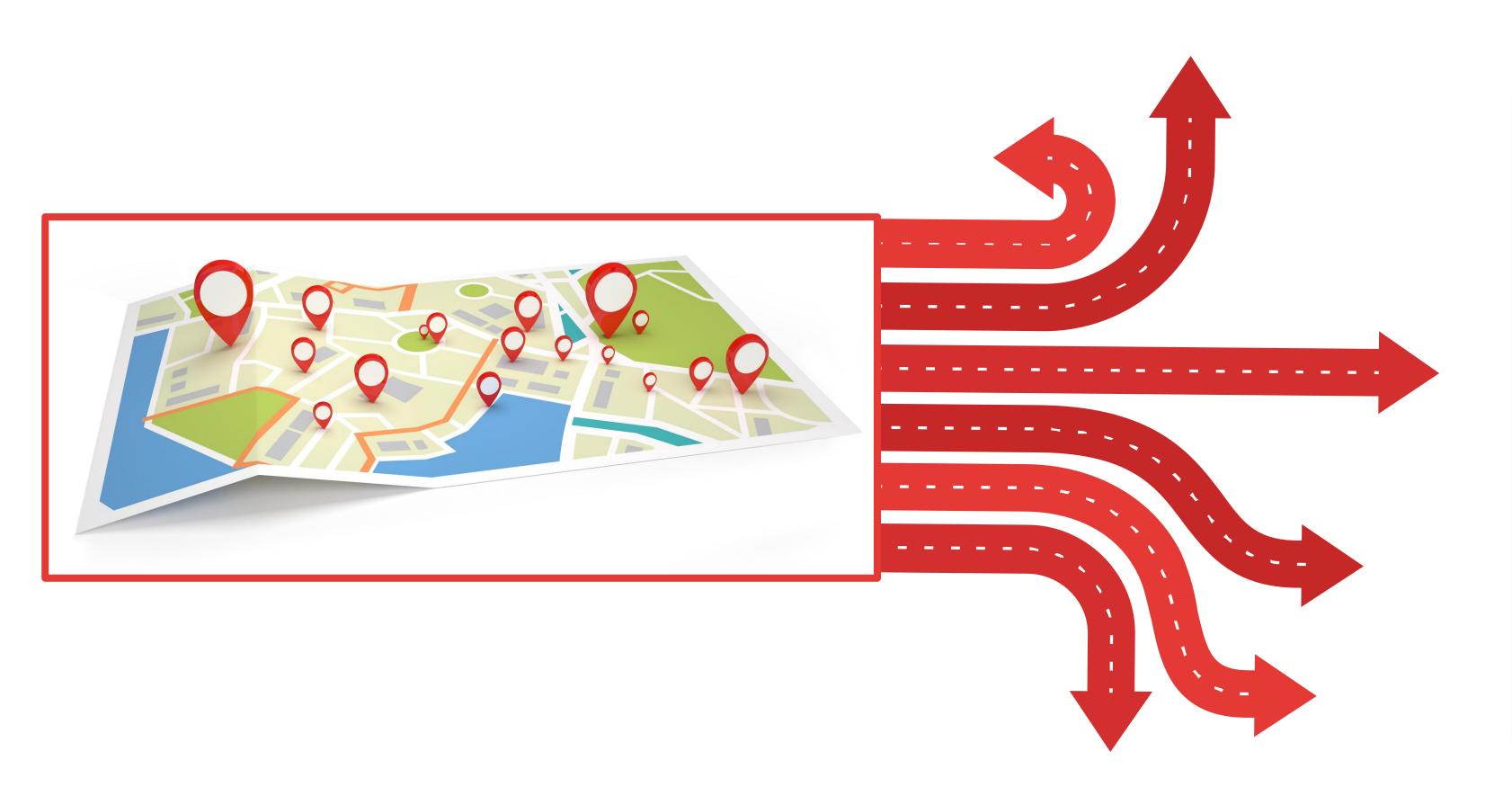
The client? Ambev (Anheuser-Busch InBev)

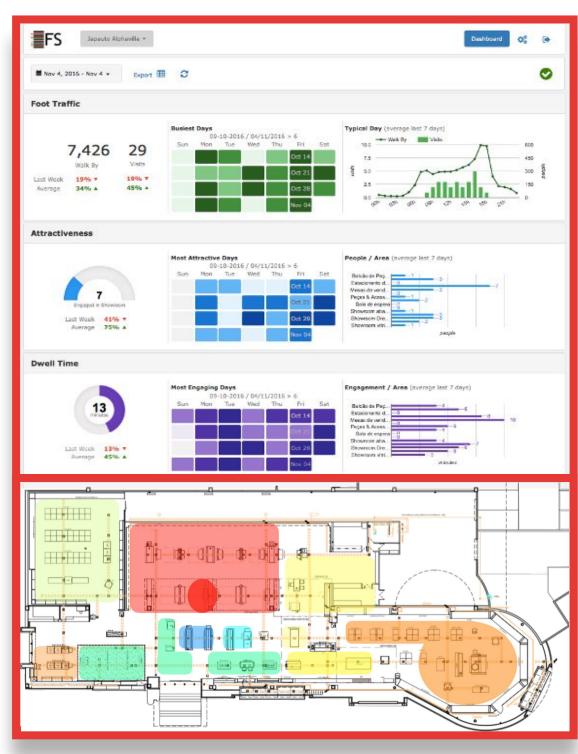




FastSensor Footfall Analytics

Advanced RTLS (like indoor GPS) powered by Al / Machine Learning

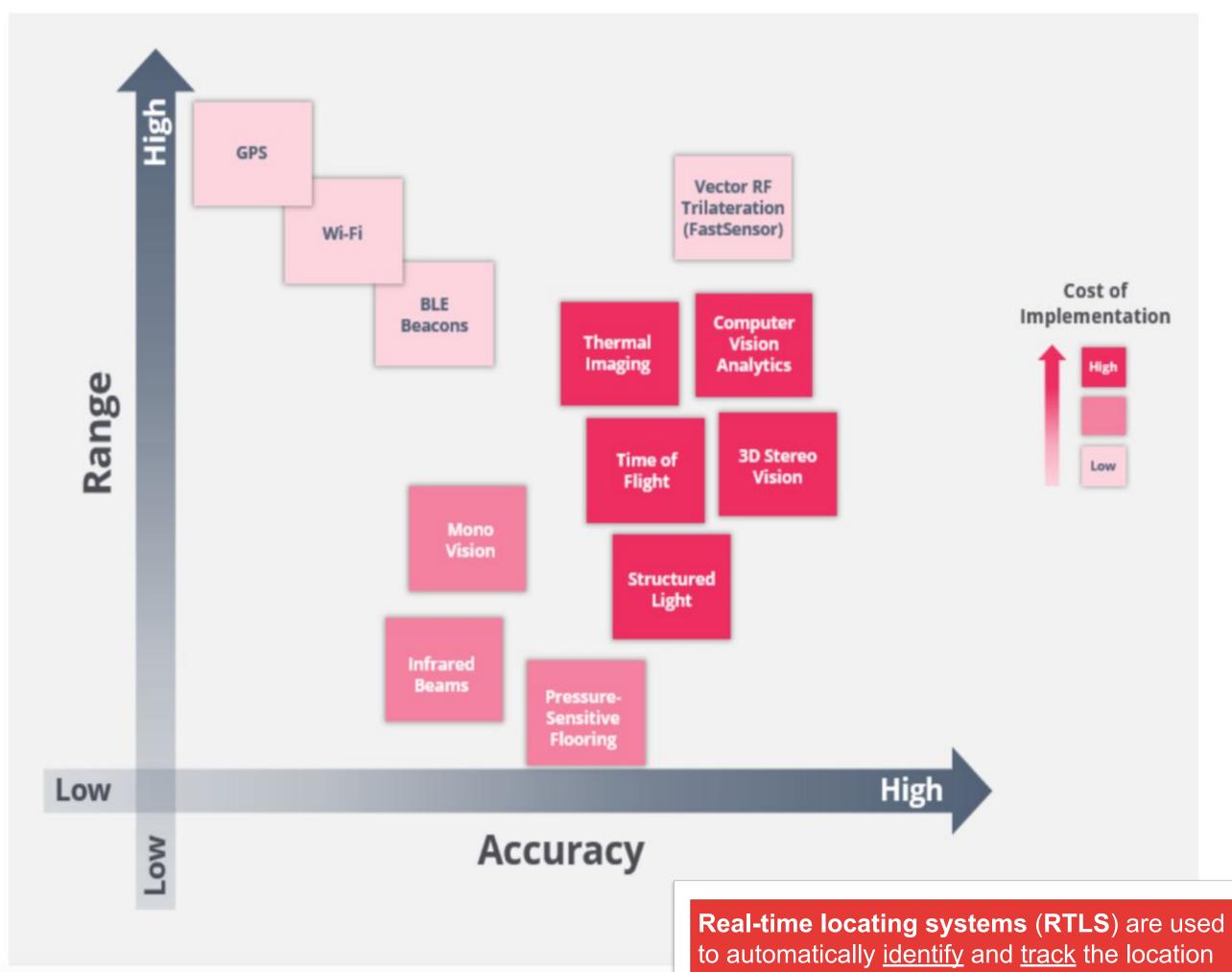






Advanced analytics dashboard for your brick-and-mortar stores.

Shopper Tracking Technologies



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Retail

Real-time locating systems (RTLS) are used to automatically identify and track the location of objects or people in real time, usually within a building or other contained area

Existing Tech Overview

There are a lot of claims in the market, but the technology in use falls into a few categories, all with specific weaknesses and more limited accuracy than FastSensor.

- Beacons requires download, opt in and bluetooth on, sampling issues (~5%), high ongoing maintenance costs
- Wifi "randomized" by manufacturers, sampling issues (20%-60%), duplicate counts, no loyalty without opt-in, low accuracy (3-5m radius circle)
- ComputerVision / Facial Recognition can't store face to track loyalty/uniques, duplicate counts,
 5x+ our cost
- Lidar no unique user or loyalty metrics, duplicate counts, high costs
- FastSensor RTLS with accuracy @ 1 sq. meter, passive loyalty, 90%+ visitors tracked passively. Best Range, Accuracy and Lowest Cost!

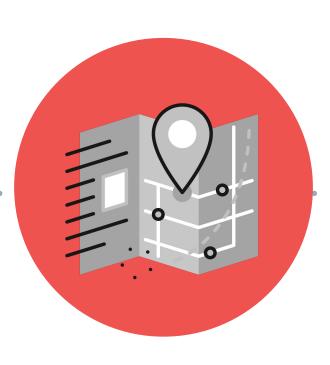


How it works





Turnkey sensors on private network gather anonymous, non-PII signals emitted by mobile devices.



Step 02

FastSensor measures how customers flow in and through, where and how long they stay, and how often they return - all while maintaining privacy.



Step 03

The cloud platform accumulates data from all locations, providing a unified view across the chain in near real time.

Machine Learning IP

FastSensor's true differentiators are our proprietary, cloud-based algorithm which make sense of customer behaviors via the location data collected.

- Multi-signal reconciliation/deduplication
- Employee identification and data segregation
- Fixed asset identification and data segregation
- Location and behavioral triggers
- Behavioral analytics (customer vs people counting)

Machine learning /Deep Learning is the scientific study of algorithms and statistical models that computer systems use to effectively perform a specific task without using explicit instructions, relying on patterns and inference instead. It is seen as a subset of artificial intelligence. Wikipedia





New data to better manage your retail store

- Foot Traffic Analysis understand your customer count and their flow through a store over time
- Attraction/Dwell by Area understand engagement by area and maximize the value of your real estate
- Queue Management trigger opening new registers based on queue time or # of customers waiting
- Loyalty Behaviors for the first time, track loyalty passively, understand loyal customer behavior without requiring opt-in or sign-up
- Labor Optimization schedule employees based on actual traffic patterns and customer counts - not just POS data or inaccurate door counters
- Sales Engagement trigger notifications to sales associates to engage with unattended customers
- AB Display/Promotion Testing understand engagement, dwell and conversion rate for promotions and display areas to measure ROI, iterate and improve



Custom Dwell t areas,

Customer Journey
Dwell time, visited
areas, and more.



Measure passive loyalty to learn about returning customers, how to drive retention and improve ROI.

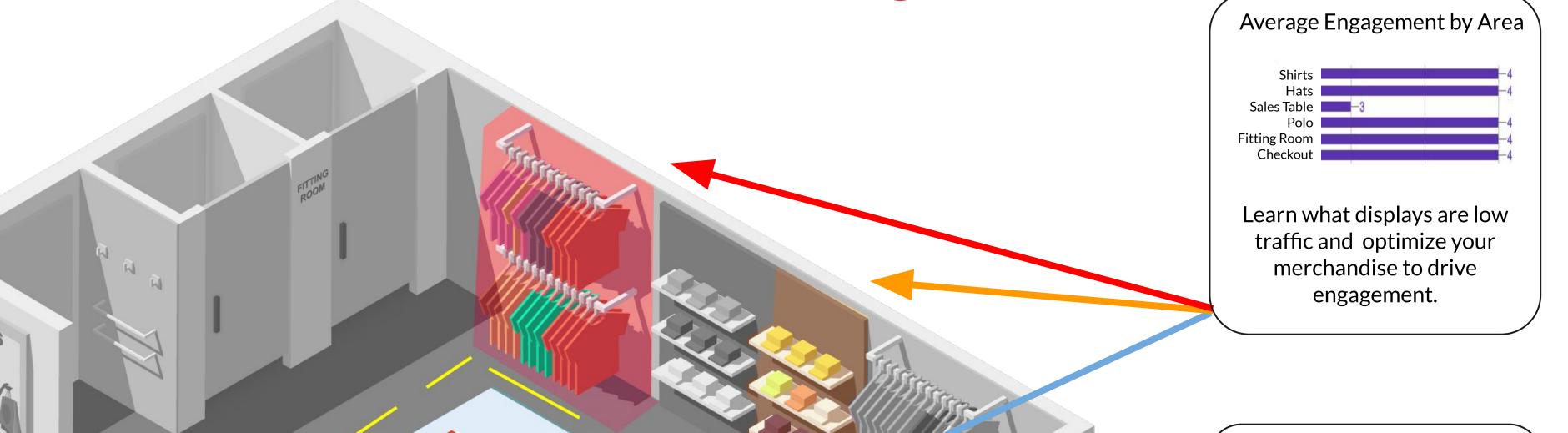
Foot Traffic 80 60 40 1,200 600 12am 2am 3am 5am 7am 9am 11am 12pm 2pm 4pm 6pm 600 300 How many passersby enter the store? Evaluate the effectiveness of

window displays, marketing

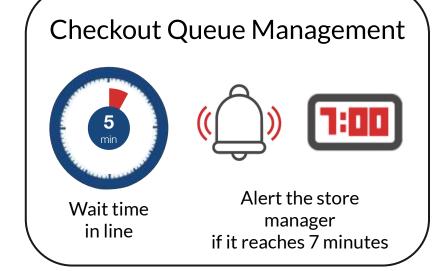
activities, and more.

Labor Costs & Traffic Flow Schedule employees based on actual traffic flow to manage labor costs.

FastSensor retail store insights



Fitting Room Conversion
Understand if the fitting room
is driving conversion to the
checkout and other areas.





Attract Customers

Identify and engage with unique visitors across all locations, and collect data on frequency and attraction for individuals.





Increase Sales

Discover what's working and what's not, make data-backed improvements that will positively impact your sales.



Increase Conversion

Explore how customers navigate the store, adjust to optimize their journey, and offer a better experience.



Keep Shoppers Coming Back

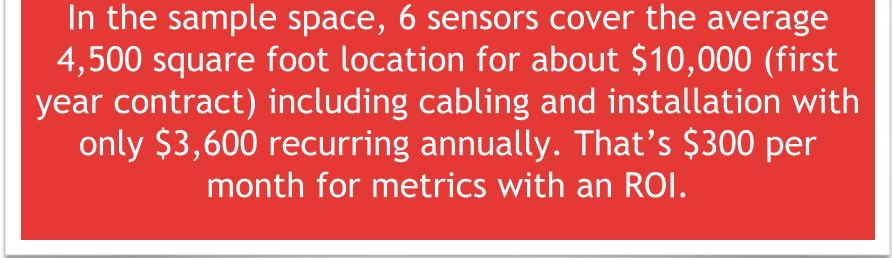
Understand how staffing impacts the customer experience, and use FS data to take interactions to the next level.

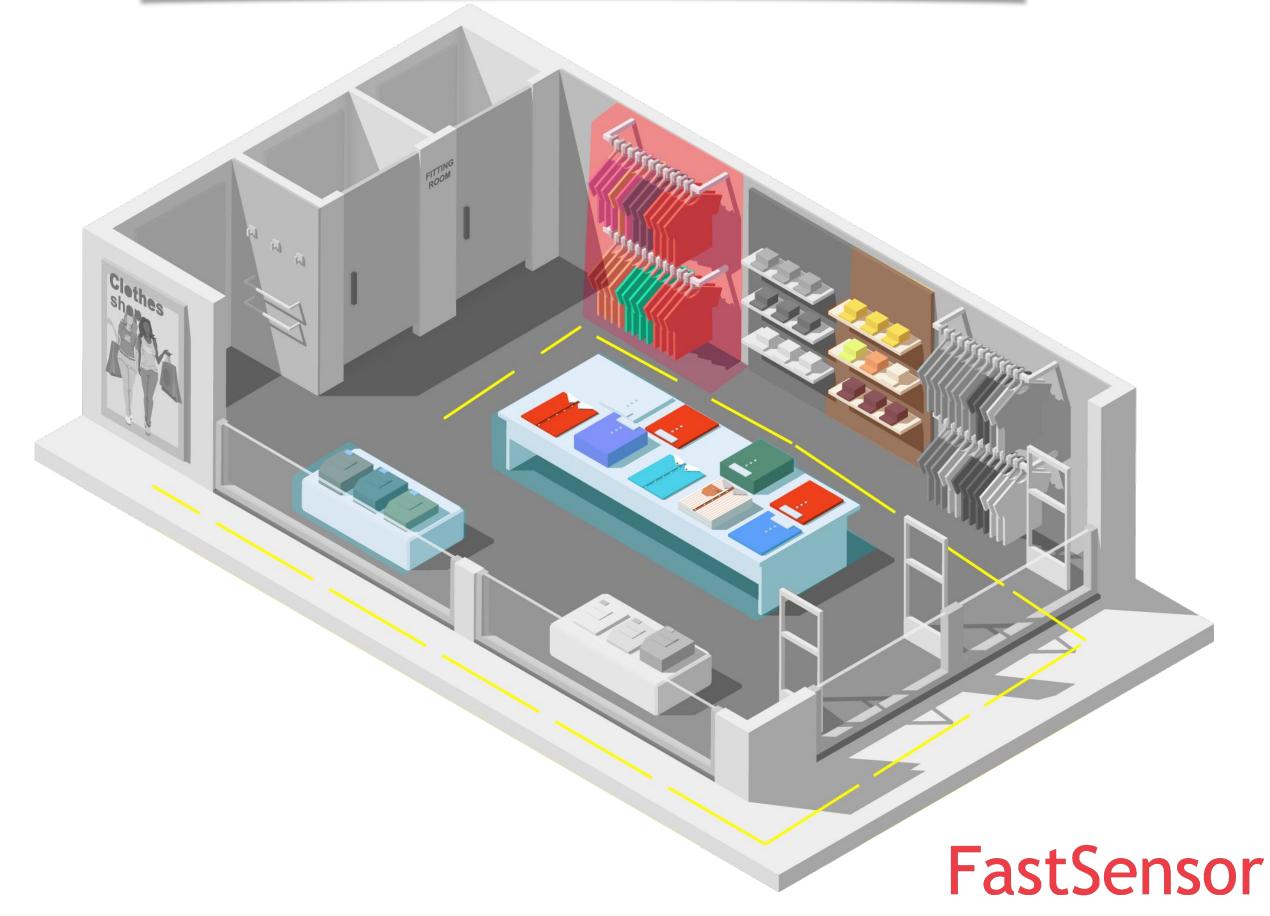




How many Sensors

- In a typical retail store, depending on the materials and shape of the location, 6 sensors can cover a 4-5,000 foot space.
- Sensors are placed in a rough V shape with line of sight 20-100 feet apart (70 typical) to track behavior associated with devices.
- FastSensor is more cost effective and powerful than other technologies.



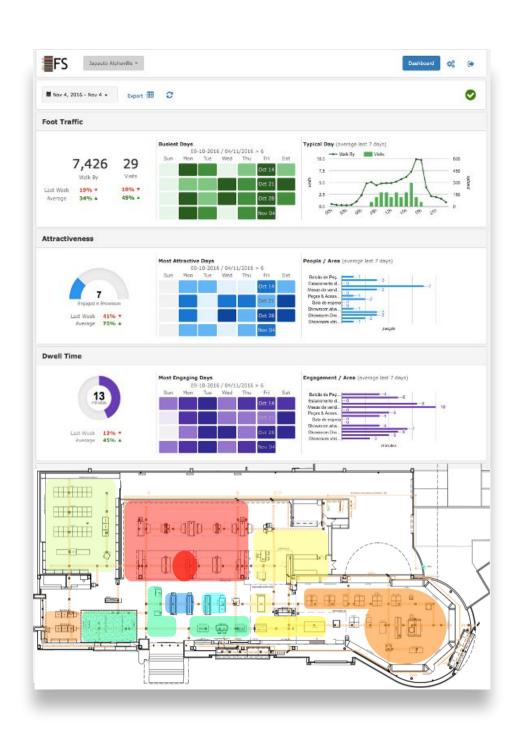




Consume the data your way.

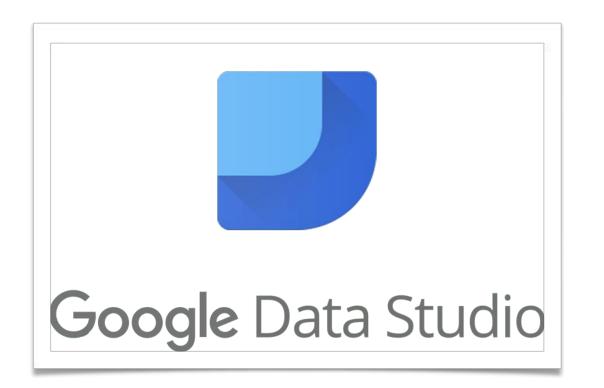
Use our Dashboard

For fast and real time analysis

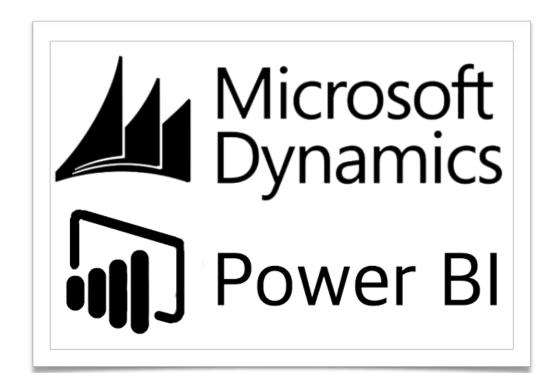


Use our ETL or data export

To connect to your tool of choice for custom analysis



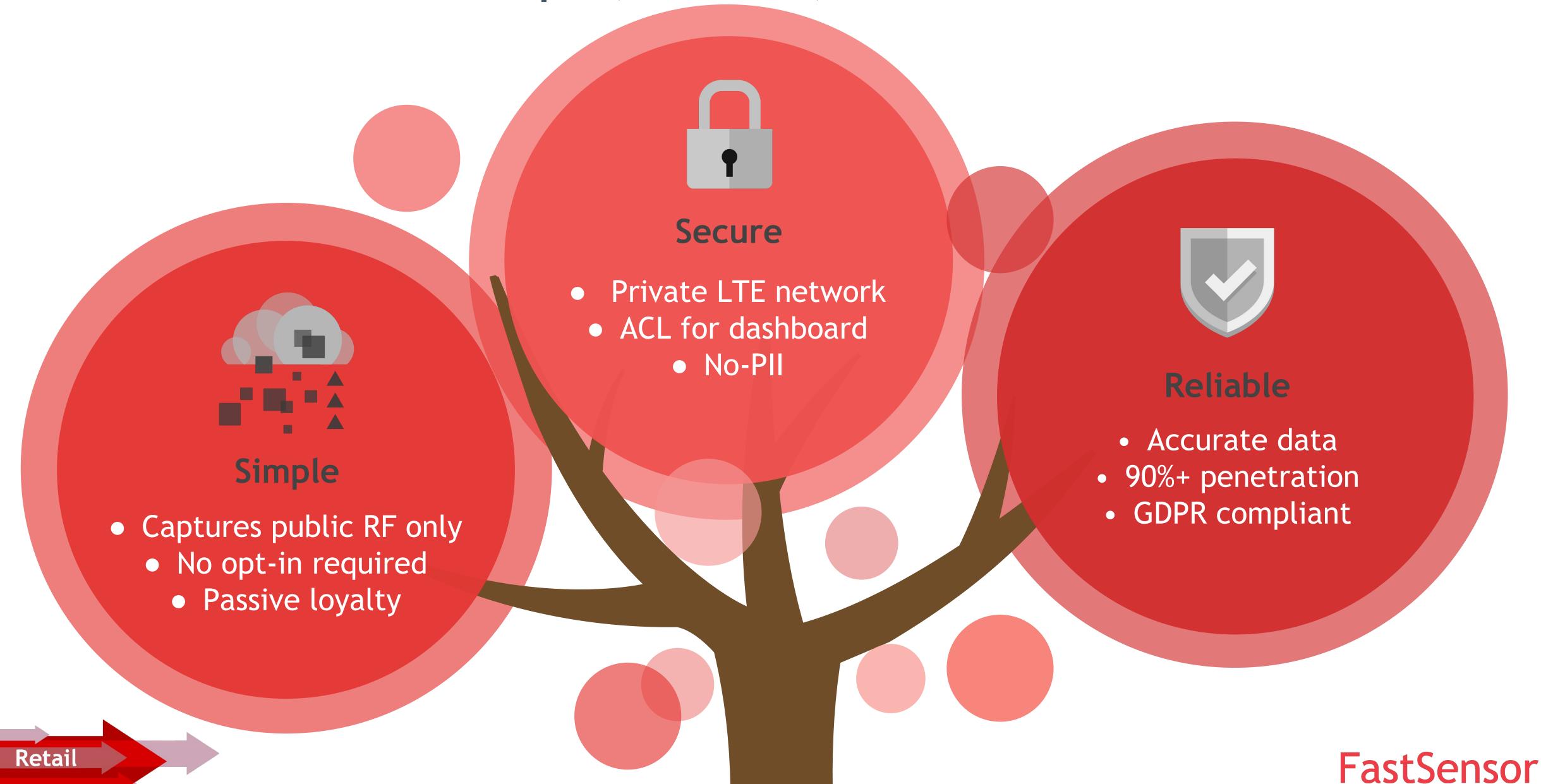


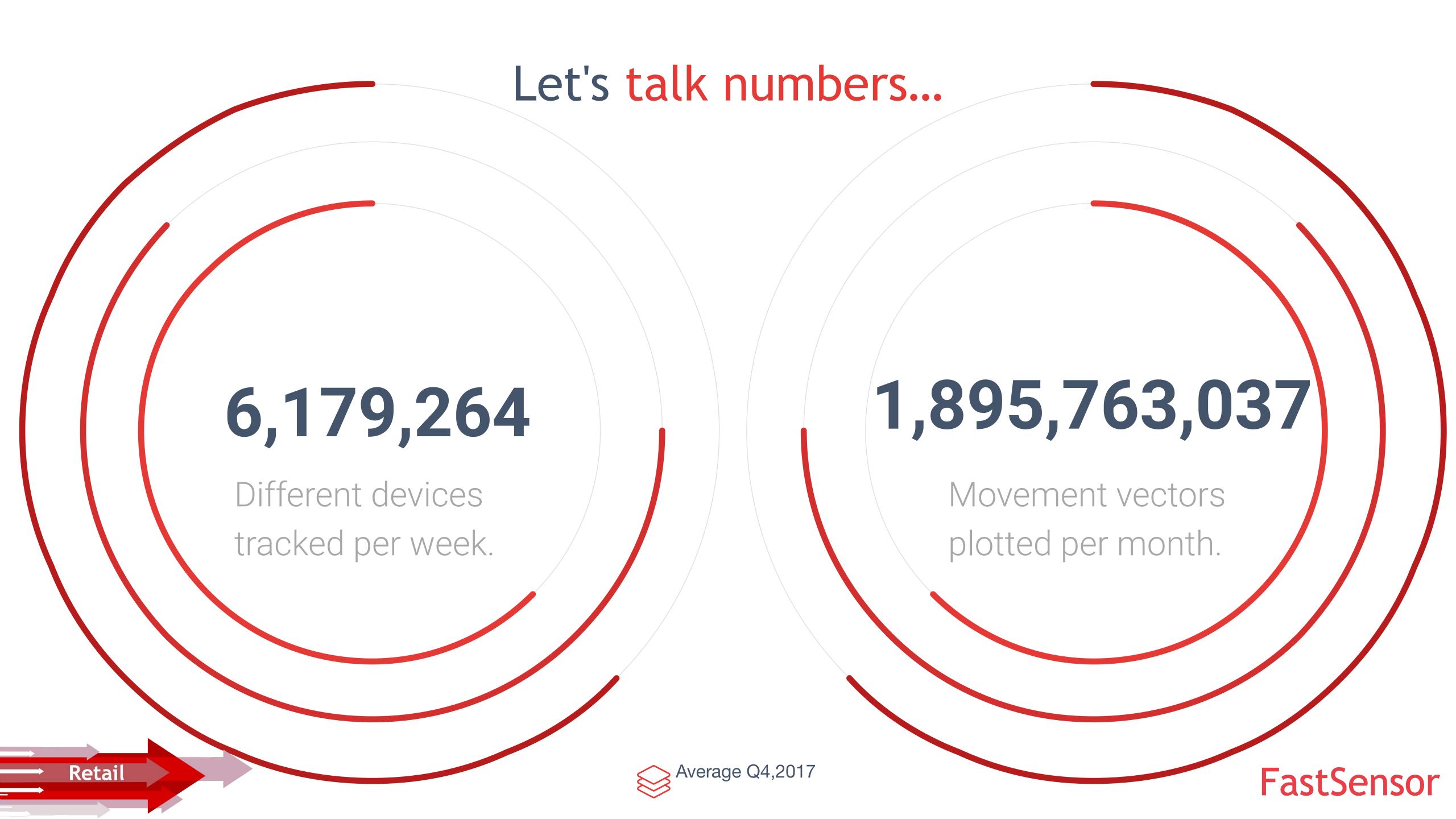






Simple, Secure, Reliable









Retail Store



Appendix

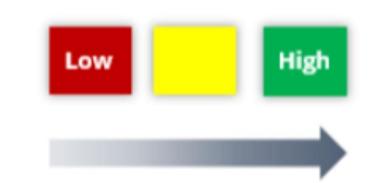
Planet Retail: Comparing Features*

FastSensor is the top ranked provider across key categories.

Scorecard Criteria		RetailNext	FastSensor	Coursa Retail	ShopperTrak	Scanalytics	RetailFlux	Aura Vision Labs
Functionality	People Counting							
	Traffic Monitoring							
	Shopper Personalisation							
Flexibility								
Economics								
Reach & Adoption								
Success/Survival								

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Execution Effectiveness





Comparing Sensor / Dashboard technology

	FastSensor	Beacons	Cameras	What this means?	Why it matters?
Distinguishes First Time Shoppers	Yes	Yes	No	FastSensor tracks how long they visit, by area, within the bldg.	Knowing the percentages of people who are new or returning matters.
Distinguishes Returning Shoppers	Yes	Yes	No	How many returning loyal customers are inside.	Know how often your shoppers return to keep your promotions fresh.
Allows for Passive Tracking	Yes	No	Yes	No action required by shopper.	No Opt-in required for FastSensor.
No IT integration required	Yes	No	No	First to use cell-to-dashboard technology.	Marketing departments need systems and data that doesn't require IT integration. That matters a lot.



Comparing Sensor / Dashboard technology

	FastSensor	Beacons	Cameras	What this means?	Why it matters?
No Wifi network required	Yes	No	No	Major headache avoided in not using existing Wifi.	FastSensor seamless cell transmission matters for speed and efficiency.
Mobile transmission to the cloud/ dashboard	Yes	No	No	System is self contained.	FastSensor doesn't touch existing IT.
Coverage down to	1 sq meter	6 sq meters	1 sq meter	Records duration of stay down to as small an area as a checkout counter.	Tracking where people go, and how long they wait matters.
Coverage includes outside too	Yes up to 70 ft	No	No	Records all visits for those that walk by the front entrance.	Knowing the percentages of walk bys to visits matters when changing the window display.

