



accelerated by intel.

REVOLUTIONIZE W/ CROWD ANALYTICS

WaitTimeTM



Elizabeth Henson
WaitTime, CIO

Discover strategies that not only streamline operations and improve guest experiences but also significantly boost sales.

58%

of people willing to spend significantly more on F&B if **wait times in lines were reduced**.

42%

Opportunity to **boost revenue** on average when enhancing crowd management strategies.

**Oracle Food and Beverage. "The Fan Experience: Changing the Game with Food and Beverage Technology." 2015*

78%

of fans want **technology-enhanced experiences**, including mobile ordering and contactless payments.

60%

of fans are interested in **personalized experiences** tailored to their preferences.

**Oracle Food and Beverage. "Stadiums without borders: Stadium technology and trends in 2022 and beyond." 2022*



Provides foundational crowd intelligence to transform your business and guest experiences.

[01] System Overview

A Four Key Algorithms:

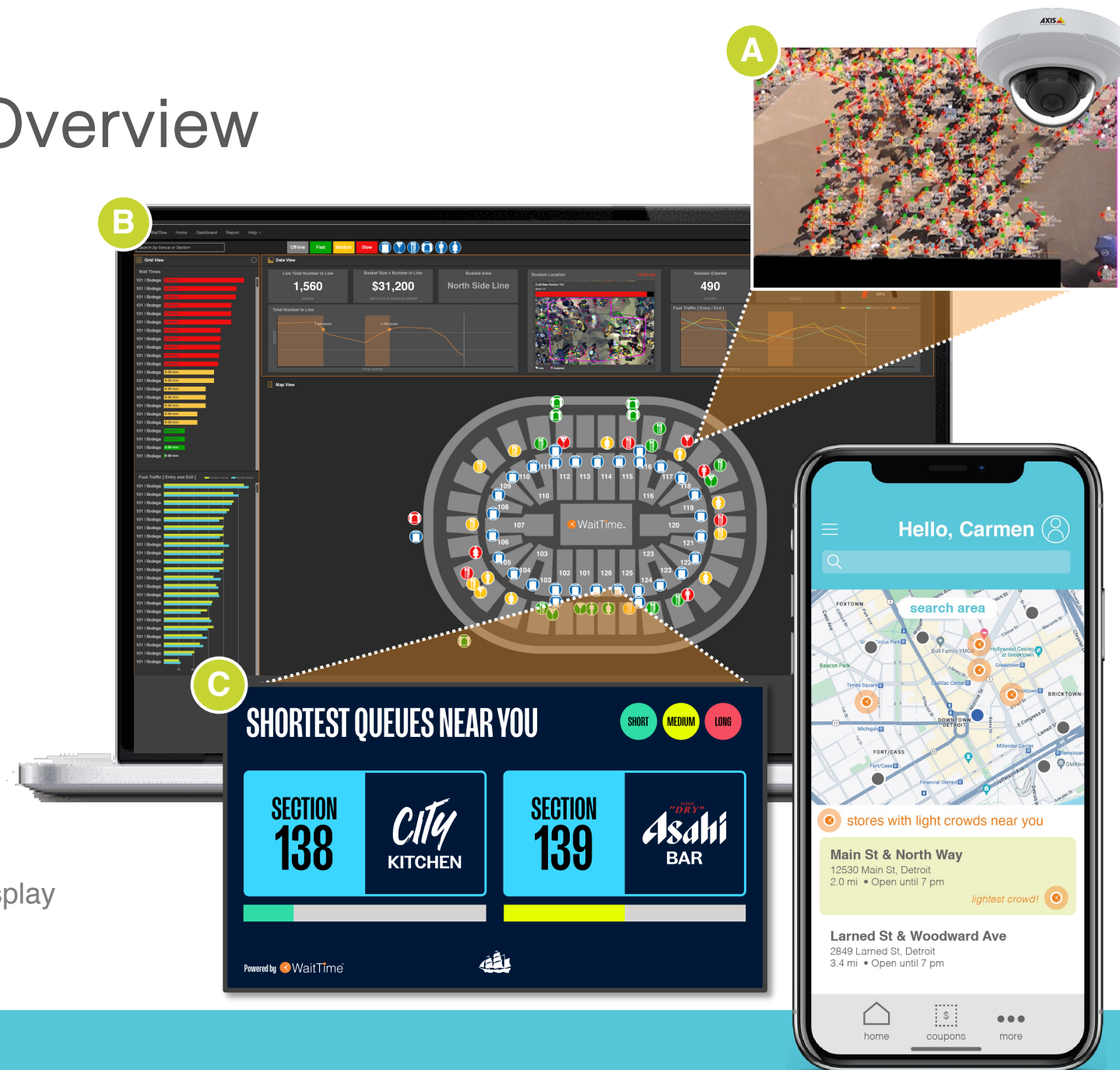
- *Queueing [Overhead]:*
 - Organized: Stanchion
 - Belly Up: Queue
- *Occupancy [Overhead]:*
 - Entry / Exit
- *Density [Z-angle]:*
 - Massing

B Operations Dashboard

- Real-Time Alerts
- Real-Data Reports
- Historical Reporting

C Guest Experience Platform

- Crowd Intelligent Digital Display Integration
- Mobile App



Verticals:

- Sports and Entertainment
- Retail
- Conference Centers
- Amusement Parks
- Education
- Airports
- Smart City
- Public Transportation

[02] Back End AI

Algorithm [QUEUE]: Organically forming crowds, belly up queues

Camera Mount: Overhead

USE CASES:

Sports and Entertainment | Gates, Concessions

Retail | Queue Optimization

Amusement Parks | Ride Queues

Airports | Security, Concessions

Conference | Show attractions

RETURN ON INVESTMENT:

Leveraging WaitTime's queue algorithm, venues have been able to **reduce gate entry times by up to 75%**



◀◀◀◀ The wait time for the **MAIN ENTRANCE** is 10-15 min

POWERED BY WaitTime™ TO THE LEFT **SHORT WAIT** ATLANTIC ENTRANCE



[02] Back End AI

Algorithm [STANCHION]: controlled queue

Camera Mount: Overhead

USE CASES:

Sports and Entertainment | Concessions

Retail | Queue Optimization

Amusement Parks | Ride Queues

Airports | Security, Concessions

Education | Dining Halls

RETURN ON INVESTMENT:

WaitTime qualitative reports indicate at least **25% of stanchion queues are not large enough** to accommodate max crowd conditions, resulting in pinch points and guest confusion.

STANCHION



cisco Live! Test your skills in McLaren F1 simulators

Cisco Showcase: Grand Prix

Wait Time: **15 mins**



[02] Back End AI

Algorithm [ENTRY / EXIT]: occupancy, entrances / exits over a threshold

Camera Mount: Overhead

USE CASES:

Sports and Entertainment | Ticket scans vs exits

Retail | Sponsorship monetization, gravity models

Amusement Parks | Number of guests in park / attraction

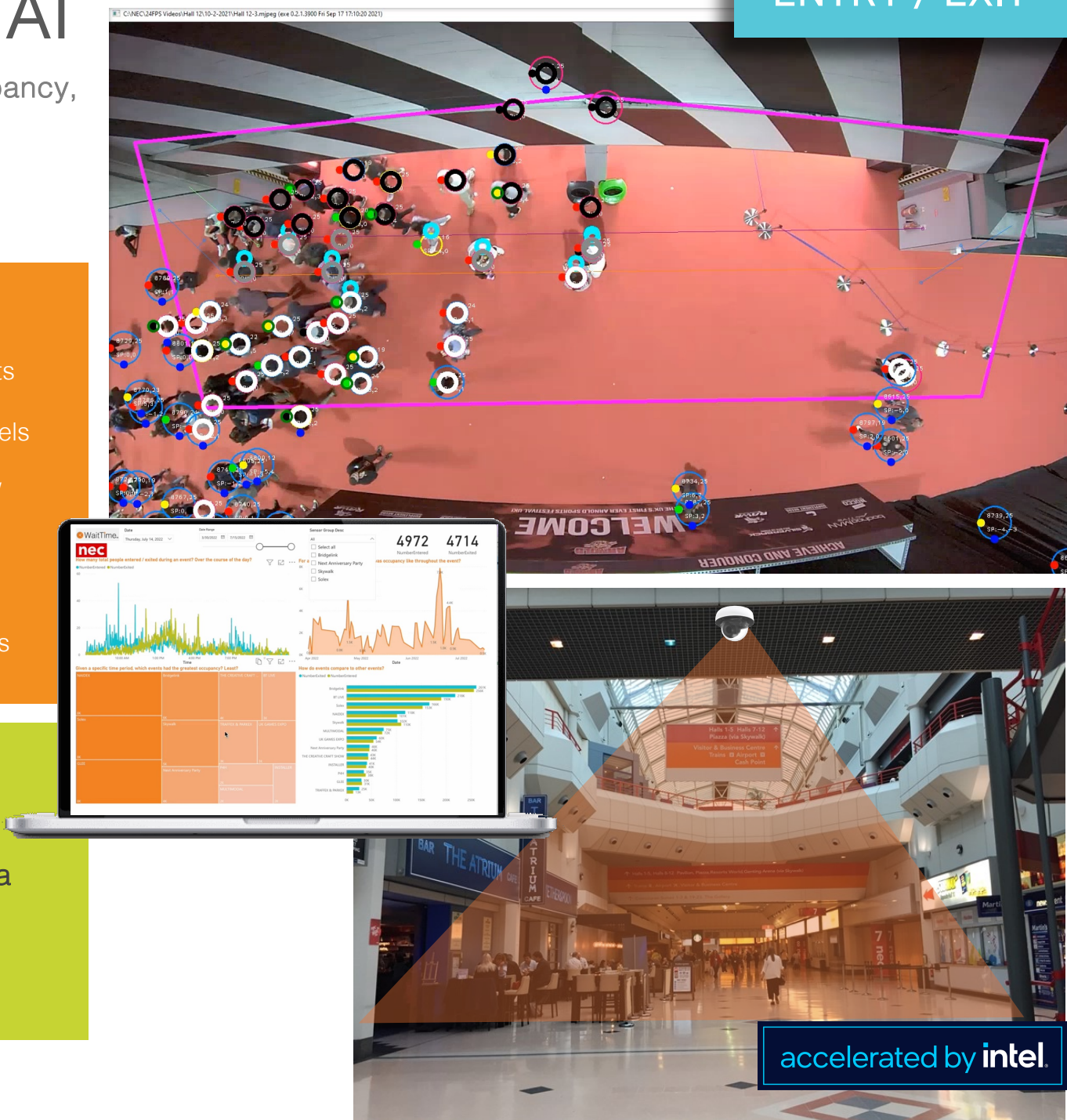
Airports | Zone traffic

Conference Centers | Number of guests in halls

RETURN ON INVESTMENT:

WaitTime clients provide Analytics as a Service to their customers as a way of monetizing the WaitTime platform.

ENTRY / EXIT



[02] Back End AI

Algorithm [MASSING]: Density as %

Camera Mount: Z-Angle

USE CASES:

Sports and Entertainment | Busiest seating areas

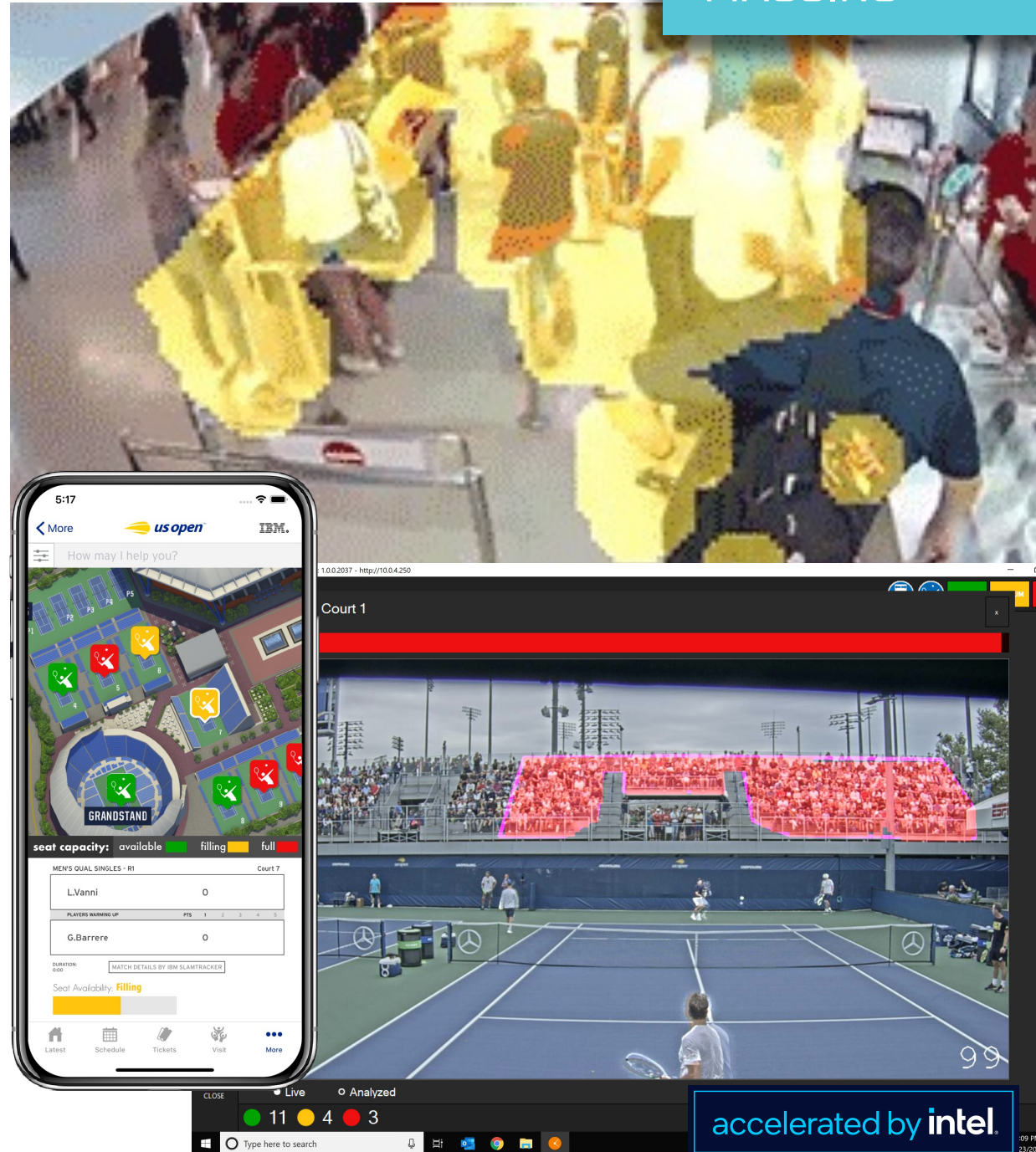
Retail | Zone gravity models

Smart City | Busiest zones

RETURN ON INVESTMENT:

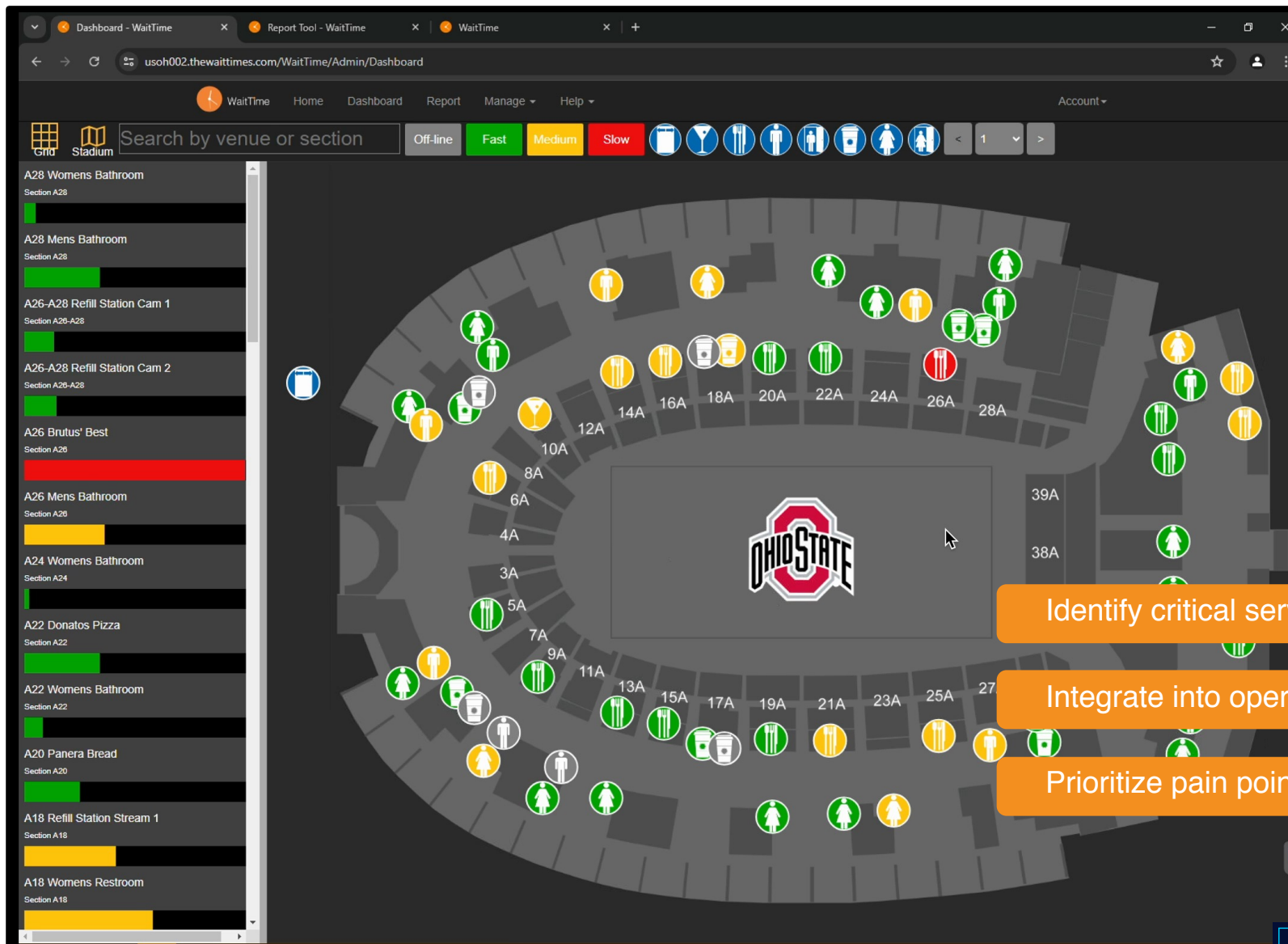
Deploy services and security in real-time based on crowd density as a proactive tool. Best algorithm for existing cameras.

MASSING



[03] Front End

[Operations Dashboard, Real-Time and Historical Analytics]



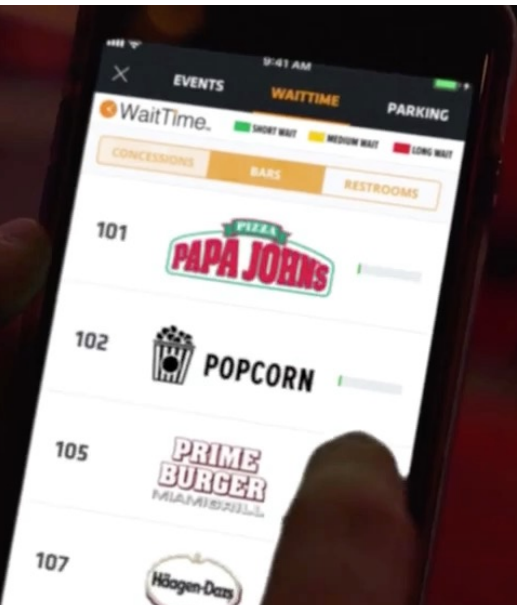

Identify critical service throughput issues

Integrate into operations / security alerts

Prioritize pain points based on loading

[03] Front End

[Crowd Intelligent Digital Displays, Mobile Integration]

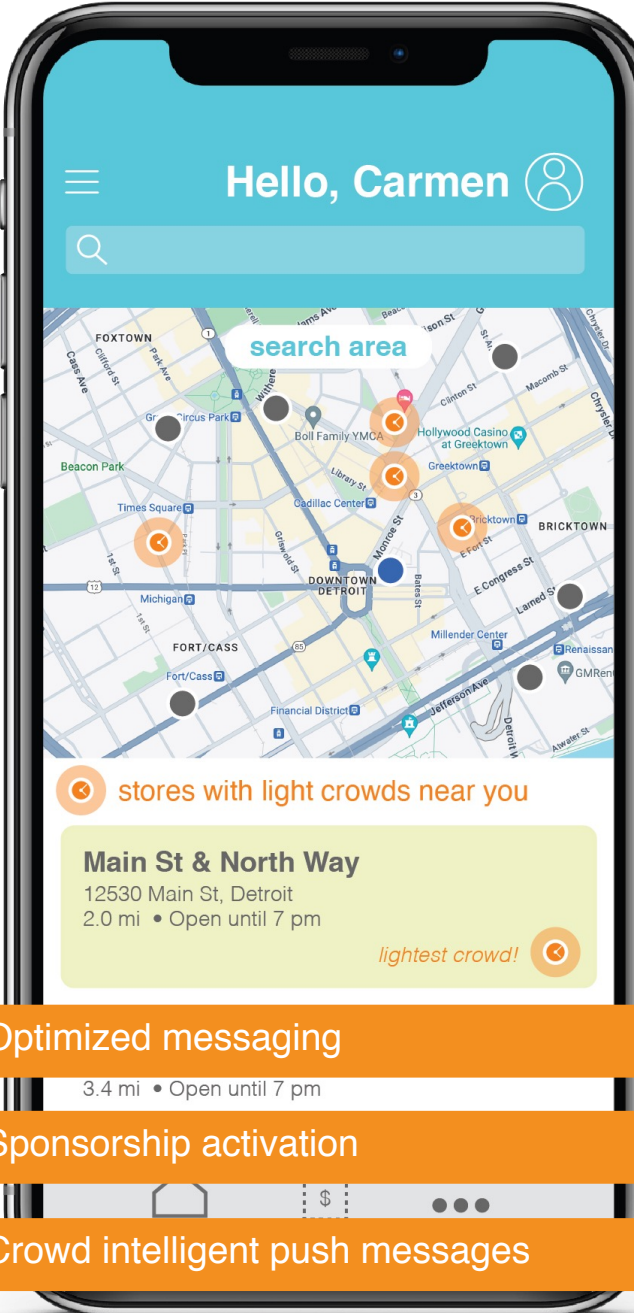


SHORTEST QUEUES NEAR YOU

SHORT MEDIUM LONG

Section	Restaurant	Queue Status
SECTION 138	BAREFOOT WINE & BUBBLY	Short (Green)
SECTION 139	Häagen-Dazs	Medium (Yellow)

Powered by WaitTime™



Hello, Carmen

search area

stores with light crowds near you

Main St & North Way
12530 Main St, Detroit
2.0 mi • Open until 7 pm
lightest crowd!

Optimized messaging

Sponsorship activation

Crowd intelligent push messages

[04] ROI

[reference install: Denver Broncos]

Significantly reduced wait times at key tailgate areas (up to 75% reduction).



Sports and Entertainment

Optimizing Operations at Gates

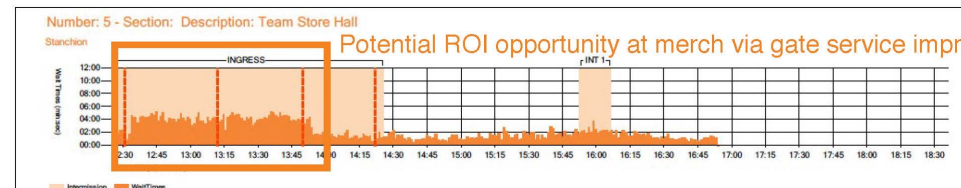
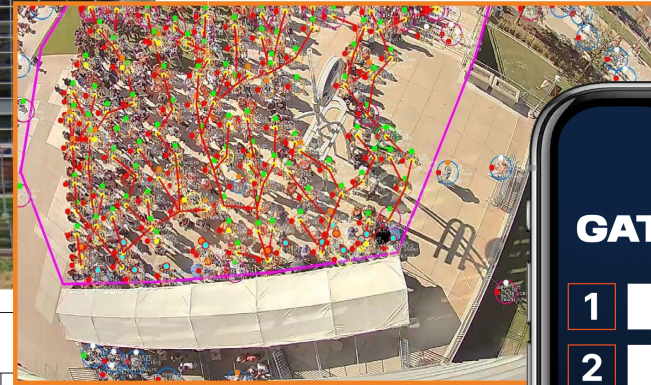
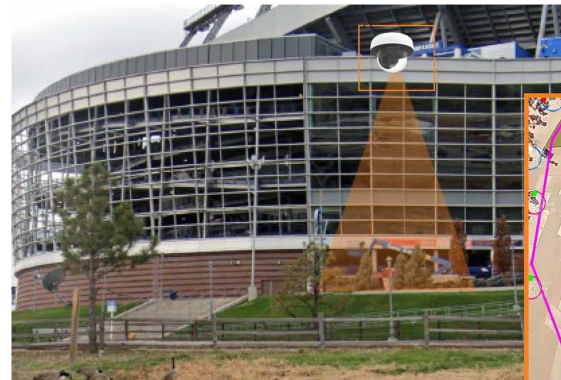
Overview

(7) Cameras

- Operations Platform
 - Operations Dashboard
 - End of Event Reports
- Algorithms
 - Queue
 - Stanchion
 - Massing
 - Entry Exit

WaitTime was installed with the Denver Broncos to monitor crowd behavior at gates. Guests tail gate in the parking lot and head into the stadium at the last moment creating operations and security issues.

WaitTime helped to identify opportunities for improvement and prove out use cases for guest engagement. In addition, it was identified that merchandise queues have a similar crowd profile as gates as they get busiest prior to the game-identifying opportunities for improved ROI.



Potential ROI opportunity at merch via gate service improvements



accelerated by intel.

[04] ROI

[reference install: NEC]

Analytics as a Service provided to shows offsets WaitTime licensing.

nec

Convention Center

Occupancy Counting at
Conference Halls

Overview

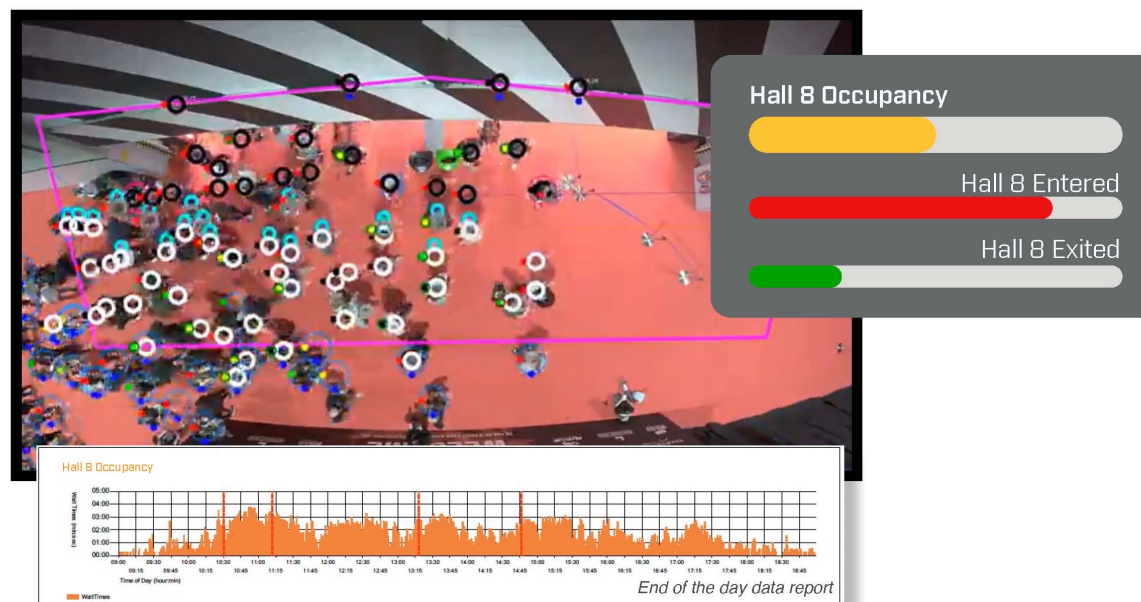
(26) Cameras

- Operations Platform
 - Operations Dashboard
 - End of Event Reports
- Algorithms
 - Entry Exit

NEC is leveraging state of the art WaitTime technology and data to inform smart operational decisions throughout their event spaces.

With WaitTime, the NEC is able to granularly and accurately track guest traffic in and out of the exhibition center to inform smarter business decisions and in turn provide a more efficient guest experience.

The NEC aligned a CCTV refresh to provide better operational insights and guest experience. The data from the WaitTime system is packaged and shared with NEC clients.



WaitTime Operations Dashboard

accelerated by intel.

[05] Intel

Software:

- Ecosystem based co-selling
- Channel Based GTM

Hardware:

- Intel 5th Gen Xeon Scalable Processors



Software:

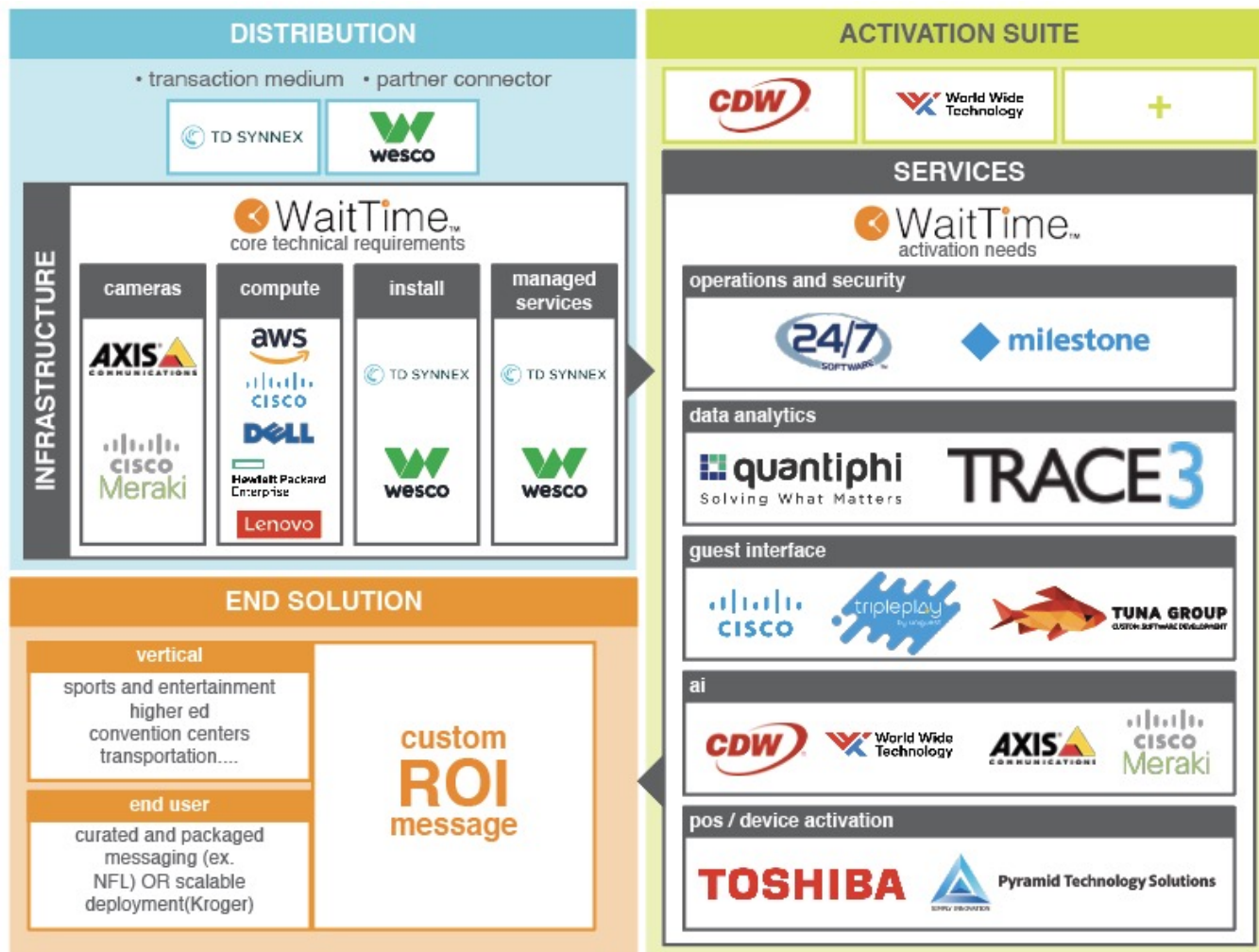
VTune

intel
GETi™

1
oneAPI

OpenVINO™

CLIENT ACTIVATION ECOSYSTEM





THANK YOU