

# INTEL TECHNOLOGY APPLICATIONS WITHIN THE HOTEL, RESORT, AND CASINO SECTOR

Tom Lasiter, Hospitality Americas  
Internet of Things Group - Retail Banking Hospitality Education  
April 22<sup>rd</sup>, 2020

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# WHAT'S MY PATH?

Checotah Oklahoma to Stillwater to Phoenix Arizona

5<sup>th</sup> Generation Oklahoman, Family from Seminole County Oklahoma

Education was key for me:

Bachelor of Electrical Engineering – Oklahoma State University

Master of Electrical Engineer – Oklahoma State University

Master of Business Administration – University of Missouri Kansas City

Career has spanned:

Motorola to Crystal Semi to VC Funded Startup to Intel

Systems Engineer to Product Line Manager

to Regionals Sales Director to Corporate Strategy to Hospitality Americas Director



Engineer Your Future  
College of Engineering, Architecture & Technology



2020 Summer Bridge Program  
Campus Orientation. Academic Preparation.  
Community Involvement.  
Oklahoma State University

# WEBINAR OBJECTIVES

- Introduction to the Hotel, Resort and Casino Industries
- Introduction to technology solutions deploying into the Hotel, Resort, and Casino industry vertical

# RETAIL, BANKING, HOSPITALITY & EDUCATION

Corporate Office



Hotels, Resorts, Casinos



Restaurant  
/Quick Service



Shopping Mall



Public Space



Bank



Education



Mass Merchandising



Transit

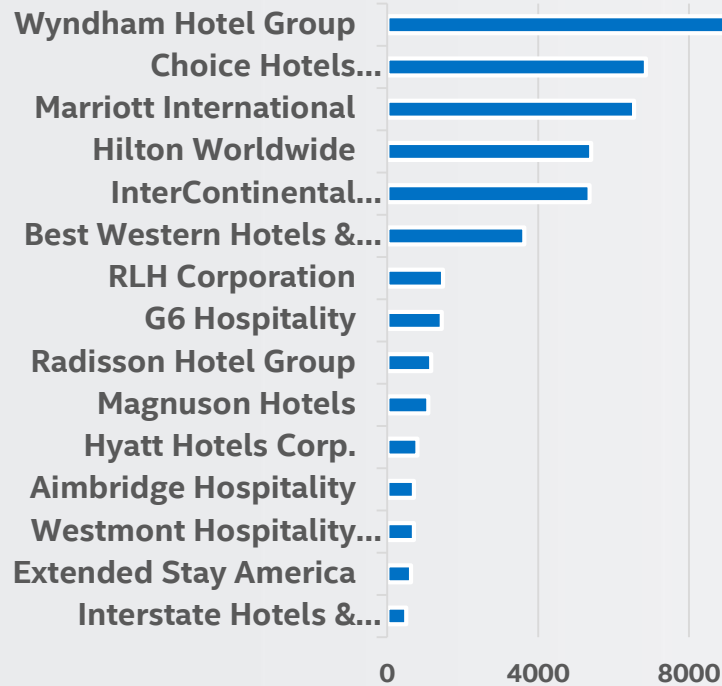


Grocery



# HOW LARGE IS THE HOSPITALITY BUSINESS? \$218B, 79K LOCATIONS

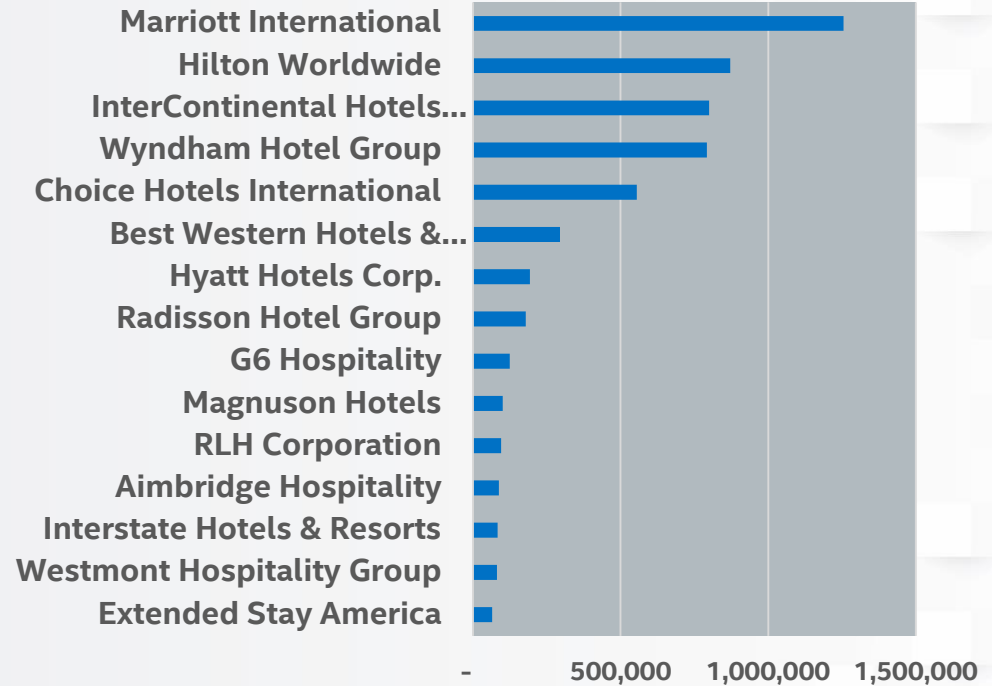
## # of Properties (2018)



■ # of Properties (2018)

Source: Statista Hotels Dossier 2018

## # Guest Rooms



■ # Guest Rooms



# HOW LARGE THE CASINO BUSINESS - \$42B



**PECHANGA**  
RESORT CASINO

465 Casinos  
514 Tribal Casinos



**Resorts World**  
LAS VEGAS

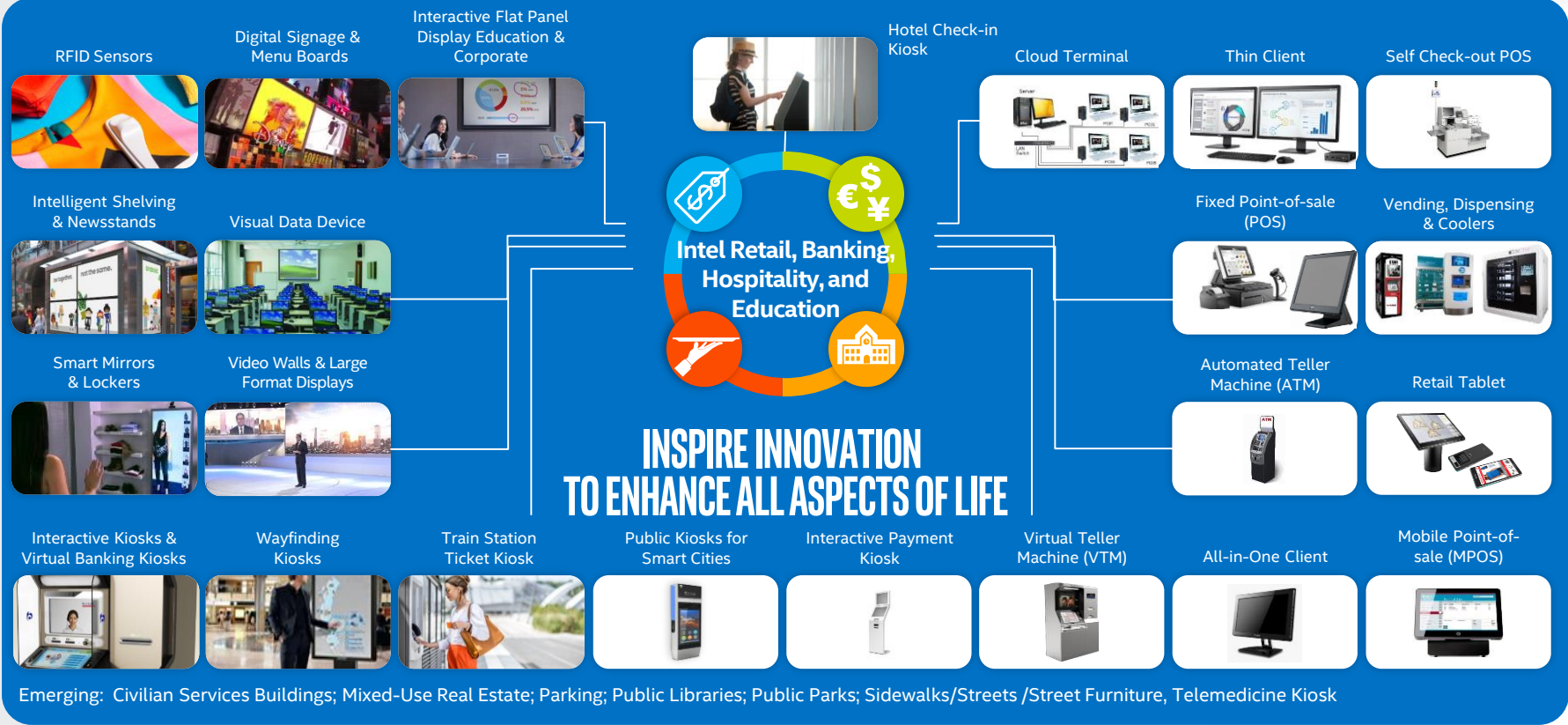
## U.S. GAMING LOCATIONS BY STATE (as of Dec. 31, 2018)

State	COMMERCIAL CASINOS			Tribal Casinos <sup>ii</sup>	Card Rooms <sup>iii</sup>	Electronic Gaming Device Locations <sup>iv</sup>
	Land-Based Casinos	Riverboat Casinos <sup>i</sup>	Racinos			
Alabama				3		
Alaska				2		
Arizona				25		
California				76	73	
Colorado	33			2		
Connecticut				2		
Delaware			3			
Florida	4 <sup>v</sup>		4	7	16	
Idaho				10		
Illinois		10				6,773
Indiana	2	9	2	1		
Iowa	16	1	2	4		
Kansas	4			5		
Louisiana	1	15	4	5		1,674
Maine	1		1			
Maryland	5		1			
Massachusetts	1		1			
Michigan	3			24		
Minnesota				40	2	
Mississippi	13	15		3		
Missouri		13				
Montana				13	150	1,418
Nebraska				5		
Nevada	217			4		1,982 <sup>vi</sup>
New Jersey	9					
New Mexico			5	27		
New York	4		9 <sup>vii</sup>	16		
North Carolina				3		
North Dakota				9		
Ohio	4		7			
Oklahoma			2	139		
Oregon				10		2,200
Pennsylvania	6		6			
Rhode Island	2					
South Dakota	25			12		1,336
Texas				2		
Washington				34	45 <sup>viii</sup>	
West Virginia	1		4			1,245
Wisconsin				27		
Wyoming				4		
<b>TOTAL</b>	<b>351</b>	<b>63</b>	<b>51</b>	<b>514</b>	<b>286</b>	<b>16,628</b>

# HOSPITALITY MARKET SEGMENTATION

HOTEL TYPES	BUDGET HOTEL AND INN	BOUTIQUE HOTEL	BUSINESS HOTEL	LUXURY/5-STAR HOTEL	RESORT HOTEL AND CASINO	LUXURY CRUISE
						
Properties	<ul style="list-style-type: none"> <li>Low room rates</li> <li>Minimal services and amenities</li> </ul>	<ul style="list-style-type: none"> <li>Various price ranges</li> <li>Unique and stylish decor</li> <li>Low number of staff</li> </ul>	<ul style="list-style-type: none"> <li>Appreciate convenience and consistency</li> <li>Conference and meeting facilities</li> </ul>	<ul style="list-style-type: none"> <li>High price tag and emphasis on loyalty programs</li> <li>Deliver excellent services with attention to detail</li> </ul>	<ul style="list-style-type: none"> <li>Include recreational facilities like casino and theme parks</li> <li>Provide enjoyable and memorable guest experiences</li> </ul>	<ul style="list-style-type: none"> <li>Facilities and activities around the cruise are the focus</li> <li>Room comfort is not the priority</li> </ul>
Main target audience	Budget travellers	Young and tech-savvy travellers	Business travellers	High-income travellers	Travellers with family	Travellers with family
Technology Solutions	<ul style="list-style-type: none"> <li>Point of Sale (POS)</li> <li>Kiosk</li> <li>Smart vending</li> <li>Digital signage</li> </ul>	<ul style="list-style-type: none"> <li>Point of Sale (POS)</li> <li>Kiosk</li> <li>Smart vending</li> <li>Digital signage</li> </ul>	<ul style="list-style-type: none"> <li>Point of Sale (POS)</li> <li>Kiosk</li> <li>Smart vending</li> <li>Digital signage</li> <li>Analytics</li> <li>Interactive flat panel display</li> <li>Edge server</li> </ul>	<ul style="list-style-type: none"> <li>Point of Sale (POS)</li> <li>Digital signage</li> <li>Analytics</li> <li>Interactive flat panel Display</li> <li>Video wall</li> <li>Edge server</li> </ul>	<ul style="list-style-type: none"> <li>Point of Sale (POS)</li> <li>Kiosk</li> <li>Smart vending</li> <li>Digital signage</li> <li>Analytics</li> <li>Video wall</li> <li>Edge server</li> </ul>	<ul style="list-style-type: none"> <li>Point of Sale (POS)</li> <li>Smart vending</li> <li>Digital signage</li> <li>Analytics</li> <li>Video wall</li> <li>Edge server</li> </ul>
Optimization Driven				Experience Driven		





## OPEN RETAIL INITIATIVE

# GLOBAL CONSUMER EXPECTATION TRENDS: RETAIL, BANKING, HOSPITALITY & EDUCATION



# TOP TRENDS

# 1

## ARTIFICIAL INTELLIGENCE

Prediction.

With ever-greater precision.

Two in five retailers and brands are already using intelligent automation, and adoption is expected to double by 2021<sup>1</sup>

# 2

## AUTOMATION

In the warehouse and in the Hotel.

Efficiency

More Accuracy

Less Labor-training Cost

# 3

## A MANY CLOUD WORLD

Private, Public and Hybrid, Industry...

Moving to Cloud First Strategy with new workloads and dev ops. Innovation is coming from Cloud Natives, focused on delivering faster time to value

# 4

## THE INTERNET OF THINGS

Connecting the disconnected.

In the past 10 years<sup>2</sup>...

2X↓ Cost of Sensors

40X↓ Cost of Bandwidth

60X↓ Cost of Processing

1. The coming AI Revolution in Retail & Consumer Goods, NRF Jan 14 2019 (<https://nrf.com/research/coming-ai-revolution-retail-and-consumer->)

# HOSPITALITY/HOTELS TRANSFORMATION

- 1 KIOSKS  
Entry Bellman Kiosk  
Self Check-in Kiosk  
Wayfinding Kiosks  
Self-order Kiosks
- 2 DIGITAL SIGNAGE  
Remotely Managed Signage  
Digital Menu Boards  
Internal Food Safety D
- 3 TRANSACTIONAL  
POS, mPOS, Payment  
Self Checkout, ATM, V
- 4 COLLABORATION SYSTEMS  
In-room Enhanced Collaboration  
Meeting room Video/Whiteboard  
Collab System
- 5 SMART VENDING  
Smart Vending
- 6 DIGITAL SURVEILLANCE  
Pool/Spa/Gym  
Property-wide
- 7 INVENTORY MANAGEMENT WITH RFID
- 8 VDD  
Visual Data Device
- 9 THIN CLIENT

**CUSTOMER PREFERENCES  
CUSTOMER BEHAVIOR**

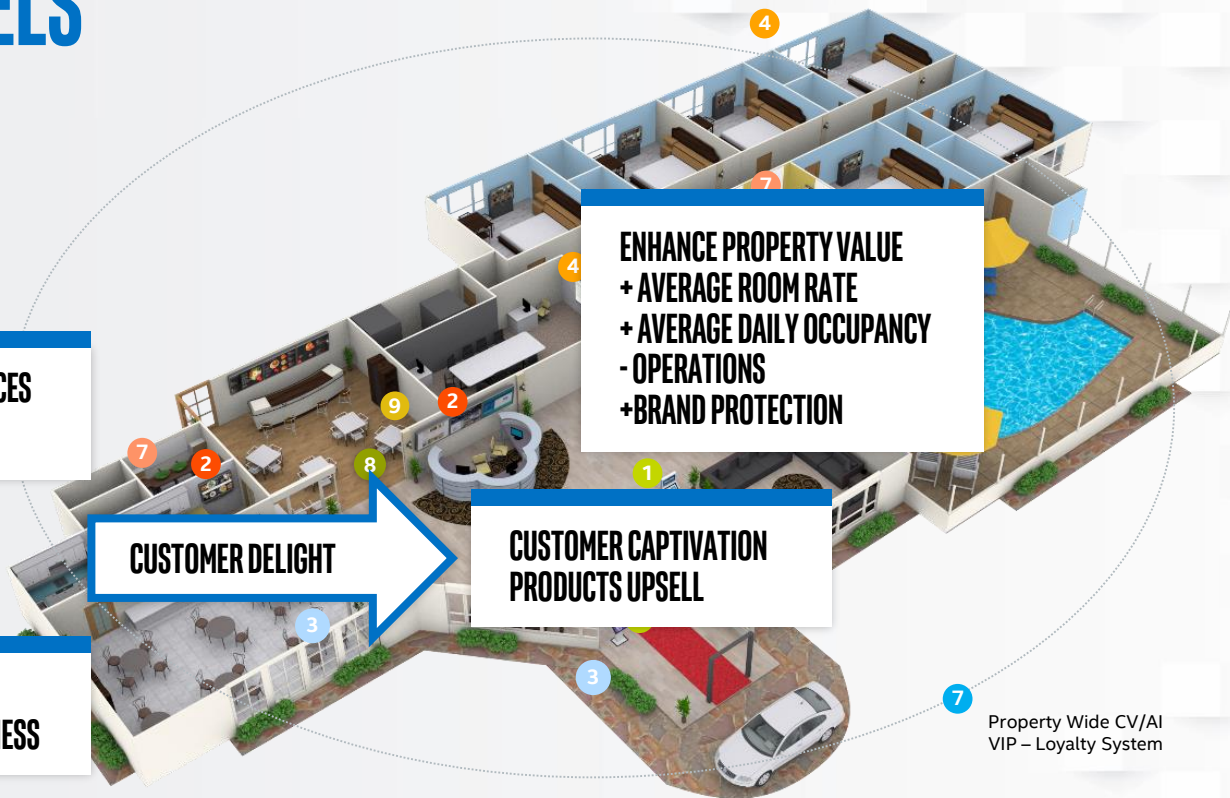
**RESPONSIVENESS  
SITUATIONAL AWARENESS**

**CUSTOMER DELIGHT**

**CUSTOMER CAPTIVATION  
PRODUCTS UPSELL**

**ENHANCE PROPERTY VALUE**  
+ AVERAGE ROOM RATE  
+ AVERAGE DAILY OCCUPANCY  
- OPERATIONS  
+ BRAND PROTECTION

Property Wide CV/AI  
VIP – Loyalty System



# TRANSFORMATIVE TECHNOLOGIES

## 1 Kiosks

Entry Bellman Kiosk  
Self Check-in Kiosk  
Wayfinding Kiosks  
Self-order Kiosks



## 2 Digital Signage

Remotely Managed Signage  
Digital Menu Boards  
Internal Food Safety Displays



## 3 Transactional

POS, mPOS, Payment Kiosk, Self Check-out,  
ATM, VTM



## 4 Collaboration Systems

In-room Enhanced Collaboration Meeting room  
Video/Whiteboard Collab System



## 5 Smart Vending

Smart Vending



## 6 Digital Surveillance & Security

Pool/Spa/Gym  
Property-wide



## 7 Inventory Management with RFID



## 8 Visual Data Devices

Brings cloud capabilities to the edge by enabling workload consolidation, real-time analytics, and high-performance audio and video processing



## 9 Thin Client

Centrally managed computers, configured with only essential equipment  
Lack optical drives and expansion slots, and most data processing occurs on the server



# HOSPITALITY/ RESTAURANT TRANSFORMATION

- 1 Self Serve Kiosks
- 2 Integrated POS Systems
- 3 Inventory Management With RFID
- 4 Integrated IOT-enabled Kitchen
- 5 Visual Food Quality/ Health Control
- 6 Outdoor Digital Menu board
- 7 Remotely Managed Digital Menus
- 8 Order View/POS at window
- 9 Thin Client



# TRANSFORMATIVE TECHNOLOGIES

**1 Self Serve Kiosks**

**2 Integrated POS Systems**

**3 Inventory Management  
RFID**

**4 Integrated  
IOT-enabled Kitchen**

**5 Visual Food Quality/  
Health Control**

**6 Outdoor  
Digital Menu board**

**7 Remotely Managed  
Digital Menus**

**8 Order View/POS at window**

**9 Thin Client**

# ADDITIONAL RESOURCES

- Intel Internships/Careers: <https://jobs.intel.com/>
- Intel Hospitality Technology Solutions: <https://www.intel.com/content/www/us/en/retail/solutions/hospitality.html>
- Intel Hospitality Newsroom: <https://newsroom.intel.com/tag/hospitality/#gs.4raahg>
- Black Fire Hospitality Innovation Center: <http://www.blackfireinnovation.com/>
- If you have Intel Hospitality Americans Questions please email: Johnny Poolaw [jpoolaw@aises.org](mailto:jpoolaw@aises.org)

# MARKET READY SOLUTIONS

# MARKET READY SOLUTIONS FOR HOSPITALITY/HOTELS

## KIOSKS

ZIVELO RETAIL  
ENDLESS AISLE



22MILES INTERACTIVE  
WAYFINDING



ACRELEC ADDIE SELF-  
SERVING KIOSK



CIVIQ WAYPOINT



V-SERIES CASHLESS  
SELF ORDERING KIOSK



## SIGNAGE

NEXCOM SMART  
SHELF



INTEL® / GIADA  
SHUTUO SMART DS



FOUR WINDS  
INTERACTIVE ENGAGE



ONELAN DIGITAL  
SIGNAGE



## COLLABORATION

VESTEL MEETING  
COLLABORATION  
CLOUD



NEWLINE TRUTOUCH X  
SER



WINDOWS  
COLLABORATION  
DISPLAY BY AVOCOR



CRESTRON FLEX -  
UNIFIED  
COMMUNICATIONS  
PLATFORM



## VENDING

VENDRON SOFTWARE  
FOR SMART VENDING  
MACHINES



AAEON ENHANCED  
SMART VENDING



JWIPC RRK

## PRO-AV

MRS FOR PRO AV

## SECURITY & SAFETY

HITACHI  
VISUALIZATION SUITE



SEAVO REAL-TIME  
FACE RECOGNITION  
GATE ACCESS  
CONTROL



INTELLISITE PUBLIC  
SAFETY AND SECURITY



GORILLA  
TECHNOLOGY



DAHUA TECHNOLOGY  
CO., LTD.SAFE CITY



## VISUAL DATA DEVICE

MRS FOR VDD

## TRANSACTIONAL

ZIVELO QSR SELF  
SERVICE KIOSK



TRYUO (INTRAEDGE)



## INVENTORY MANAGEMENT

VOLTEO ASSET  
MANAGEMENT WITH  
RFID



# WHY INTEL FOR KIOSKS?

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## COMPUTE

7th and 8th Generation Intel® Core™ Processor

## CONNECTIVITY

(Data Driven) | Fiber, Small Cell

## SENSOR HUB

(Data Driven) | Air Quality, Sound

## ANALYTICS

(Value Added Insights, Ad Revenue) | Audience Analytics

## CONTENT MANAGEMENT SYSTEM

(Ad Revenue) | Integrated Content Management Software

## NATURAL INTUITIVE INTERACTION

(Ad Revenue) | Computer Vision

## RICH GRAPHICS

(Ad Revenue) | Intel® Iris™ Pro Graphics, Intel® HD Graphics

## ENHANCED REMOTE MANAGEMENT

(Reduced Op-Ex) | Intel® vPro Technology

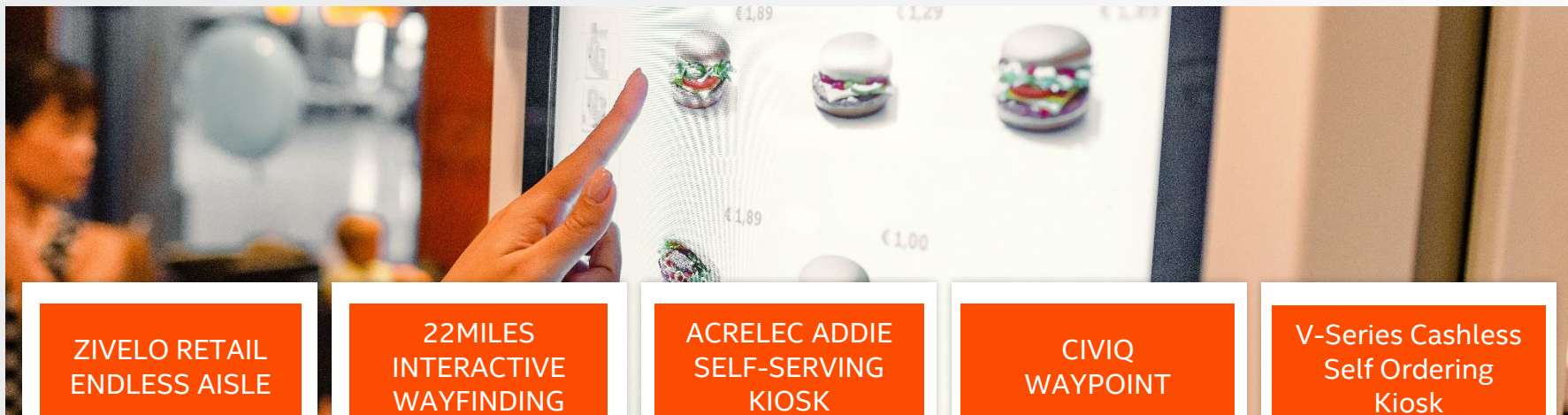
## SECURITY

(Trusted) | Intel® Security Technology

(Pull value prop) | Push value prop

# INTEL POWERED KIOSK SOLUTIONS

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## ZIVELO RETAIL ENDLESS AISLE

Increase sales & productivity with a seamless endless aisle solution with 5 preconfigured kiosk models

## 22MILES INTERACTIVE WAYFINDING

Enhance customer experiences by helping them get to where they want to go. Increase responsiveness with integrated analytics

## ACRELEC ADDIE SELF-SERVING KIOSK

Expedite customer service and increase sales with fully customizable self-service kiosks

## CIVIQ WAYPOINT

Engage communities with interactive information and communication that generates revenue and enhances city services

## V-Series Cashless Self Ordering Kiosk

Combined hardware and software solution for food and beverage.

# ZIVELO | RETAIL ENDLESS AISLE KIOSKS

## ENGAGE AUDIENCES AND EXTEND YOUR BRAND

[MRS Directory](#)[Back to Kiosks](#)[Back to 3D Model](#)

### 5 essential kiosk models for connected retail

Preconfigured kiosks ship with standard components and feature extremely accurate Projected Capacitive (PCAP) touch screen technology capable of up to 10 touch points

### Seamless Endless Aisle

Integration with inventory, loyalty, eCommerce, and payment back-end systems avoids conflicts with transaction & inventory management systems

### Connected Consultative Selling

- Large multi-touch interfaces, conducive for collaboration
- Upselling, Grow basket size, increase customer loyalty

# INTERACTIVE WAYFINDING BY 22 MILES, INC

## A BETTER VISITOR EXPERIENCE MAKES A DIFFERENCE



- **Analytics & Statistics:** Integrate 22 Miles analytics engine to monitor interactive ads, navigation searches and usage data
- **Easy to manage:** 1-click to publish to Mobile Web/API. Push new engaging content and updates instantly

### Better customer return rates by helping them get to where they want to be :

- **Automatic Destination Routing:** Intelligent built-in wayfinding algorithm auto-generates the shortest path
- **Find ADA/Wheelchair accessible Routes** with text to speech also supported
- **Map It Now:** Provides directions through SMS, QR codes, email or printout.
- **3D map views** with multi-floor destination, 360-degree direction controls, and screen orientation

# ACRELEC - ADDIE : SELF-SERVICE KIOSK

## ENHANCE CUSTOMER EXPERIENCE, INCREASE SALES, CREATE BUSINESS EFFICIENCIES

Enhance customer experiences, increase sales, and improve efficiency and responsiveness with an interactive kiosk powered by Intel



**A global QSR company with 6 kiosks at 180 stores, leading to:<sup>1</sup>**

- ROI for the company in **<2 years**
- An increase in overall sales of **10%**
- **95%** of customers responding that they would use again

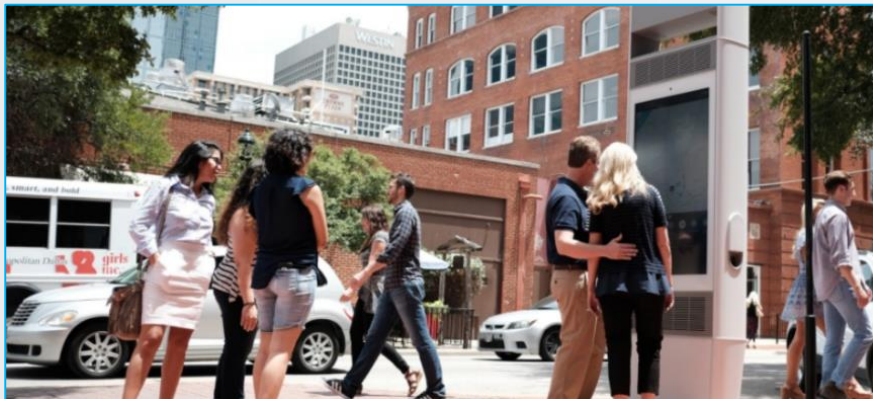
1. Based on Acrelec internal estimates



# CIVIQ WAYPOINT

## STREET LEVEL INTERACTIVE INFORMATION AND COMMUNICATION FOR SMART CITIES

Modernize civic infrastructure with an all-in-one ruggedized smart city solution that sets the standard for urban innovation by redefining public safety, mobility, connectivity, and city efficiency.



**The City of New York needed to tackle the city's aging communication and transportation infrastructure problems. With a specially-developed Waypoint-based kiosk, it was able to :**

- Deploy a kiosk network at no cost to taxpayers
- Project revenue generation of more than \$500 million for the city over the next 12 years
- Create up to 500 full-time jobs over the next 12 years

# V-SERIES CASHLESS SELF ORDERING KIOSK

## HARDWARE AND SOFTWARE SOLUTION FOR FOOD AND BEVERAGE ORDERING



- V-Series Design and Manufacture the total solution for F&B Self Ordering Kiosk with Intel® Core® i5 (formerly Kaby Lake) with Intel® vPRO™ Technology.
- Entry level with Intel® platform (formerly Apollo Lake) and Intel® SSD Solution.
- Our solution include complete hardware & software solution.

# WHY INTEL FOR DIGITAL SIGNAGE

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**PERFORMANCE / RICH MEDIA**



**MANAGEABILITY**



**STANDARDIZATION**



**NATURAL INTUITIVE INTERACTION**



**ANALYTICS**



**SECURITY**

Experience advanced capabilities with your Intel-enabled digital signage solution

# INTEL-POWERED DIGITAL SIGNAGE SOLUTIONS

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## NEXCOM SMART SHELF

Interactive and engaging technologies to motivate customer purchases, plus audience and attention analytics to optimize selling strategies

## GIADA/SHUTUO SMART DIGITAL SIGNAGE

Intelligent interactive displays that you can integrate with social, digital and physical storefronts to optimize store layouts and make in-store pickup smart, simple and efficient

## FOUR WINDS INTERACTIVE

Flexible, interactive workforce communications solution that easily scales with the needs of the business

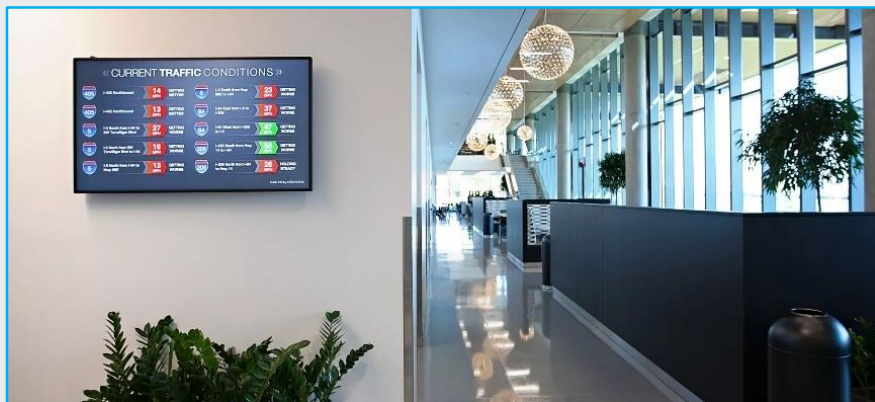
## ONELAN Digital Signage

With its enterprise Content Management System and a range of media players, ONELAN provides a rich platform on which to build a communication strategy

# FOUR WINDS INTERACTIVE ENGAGE

## CREATE A UNIFIED WORKPLACE EXPERIENCE THAT DRIVES DEEPER CONNECTIONS

Enables companies to reach their workforce where they are, at the right times, with the right information to create a more engaged and higher performing workforce

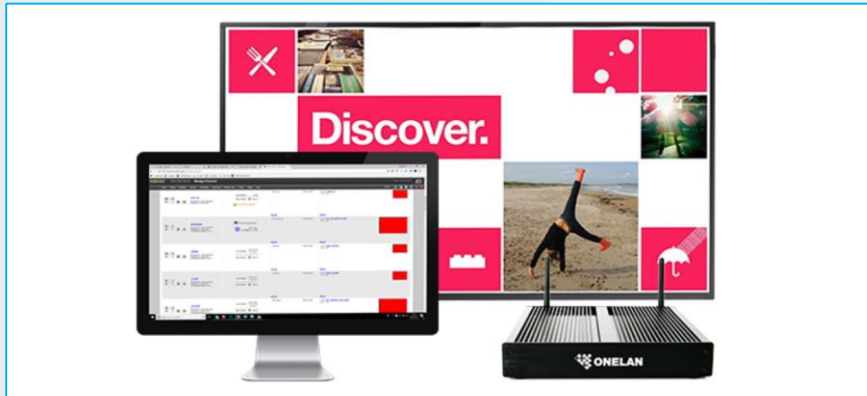


- **Daimler Trucks North America** used the flexibility, scalability, and usability of the FWI platform to create an immersive visitor experience while enticing top employee talent<sup>1</sup>
- **A worldwide leader in aerospace manufacturing** used the FWI solution to inform its workforce of over 60,000 employees across 65 countries, engaging globally via over 1,000 employee communication displays<sup>2</sup>

1. Four Winds Interactive, [Digital Signage Drives the Employee and Visitor Experience at the New Daimler Trucks North America Headquarters](#)  
2. Four Winds Interactive [For a Worldwide Leader in Aerospace Manufacturing—the Sky's the Limit With Visual Communications](#)

# ONELAN DIGITAL SIGNAGE

ONELAN provides a rich platform on which any organization can build its wider communication strategy, be it a single screen in a foyer, a wayfinder in a shopping mall or a large global retail network.



**ONELAN** are market leaders in visual communications and digital signage solutions.

With its enterprise Content Management System and a range of media players, ONELAN support some of the most prestigious retailers, corporations, education institutions and venues.

Based on Intel CPU and GPU technologies, ONELAN's Net-Top-Box (NTB) media player offers exceptional media play back quality, reliability, security and scalability.



# WHY INTEL FOR COLLABORATION

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## MODULAR & INTEROPERABLE

OPS & SDM pluggable compute for all-in-one UC solutions for any conference, meeting, or huddle space. Optimized for continuum of Intel Atom®, Intel® Core™, and Intel® Xeon® processors as well as Intel® FPGAs Enhanced Security



## SIMPLE & EASY TO INSTALL

Simplifies device installation, usage, maintenance, and upgrades. No cables



## WIRELESS CONTENT SHARING

Intel Unite: Enterprise-Ready, Flexible Architecture, Unified Communications Plugins



## ENHANCED SECURITY & REMOTE MANAGEMENT

vPro - Built-in security, reduced total cost of ownership, dynamic support



## ANALYTICS FOR CLASSROOM AND MEETINGS

People counting, engagement, usage patterns, utilization rates, etc.



# INTEL POWERED COLLABORATION SOLUTIONS

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## VESTEL MEETING COLLABORATION CLOUD

Integrated all-in-one conferencing solution with Microsoft and Intel® Unite™

## NEWLINE TRUTOUCH X SERIES

Unified collaboration system with tools integrated that make meetings seamless and is BYOD ready

## AVOCOR WINDOWS COLLABORATION DISPLAY

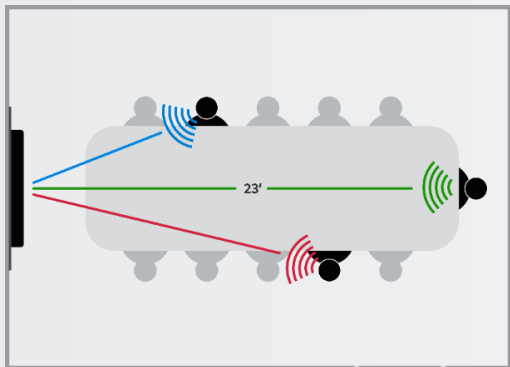
Fast, frustration-free collaboration with single-cable solution enables users to connect laptops to the display quickly

## CRESTRON FLEX- UNIFIED COMMUNICATIONS PLATFORM

Uses features such as Auto Focus, AutoZoom, and people count to ensure everyone is seen and heard

# CRESTRON FLEX - UNIFIED COMMUNICATIONS PLATFORM

## EXCEPTIONAL AUDIO AND IMAGE QUALITY FOR ANY SIZE ROOM



Zero-touch deployment via the Crestron XiO Cloud platform. Crestron was awarded the prestigious 2018 Microsoft Global Partner of the Year Award for Internet of Things (IoT) in recognition of how Crestron XiO Cloud, built on the Microsoft® Azure® platform, has revolutionized provisioning and management of Crestron's workplace solutions.

### Hear all, See all, Do it all - Fast

- Decades of audio engineering is delivered with the Creston UC Smartbar series
- Pick up every visual cue and gesture: Autofocus, AutoZoom, people count. Choose camera options that best suit your needs.
- An installation process that's as close to instant gratification as you can get

### Consistent user experience from workstations to boardrooms

- Built on the Intel® Core™ i7 platform. Crestron Flex delivers a native Microsoft Teams, Skype for Business, and Zoom Rooms software experience, including one-touch join

# WHY INTEL FOR SMART VENDING

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## WORKLOAD CONSOLIDATION

Provides an “all-in-one” architecture for vending, which eases software management as well as provides a future-proofed compute platform and accelerators.

## SCALABILITY

Delivers an integrated, pre-validated, and flexible retail vending solution, including foundational hardware, software, and security building blocks to speed up solution development and deployment.

## STANDARDS BASED

Specifies a proven recipe for building scalable solutions with standards-based interfaces and ensuring secure communications between vending machines and the edge continuum.

## BUSINESS INNOVATION

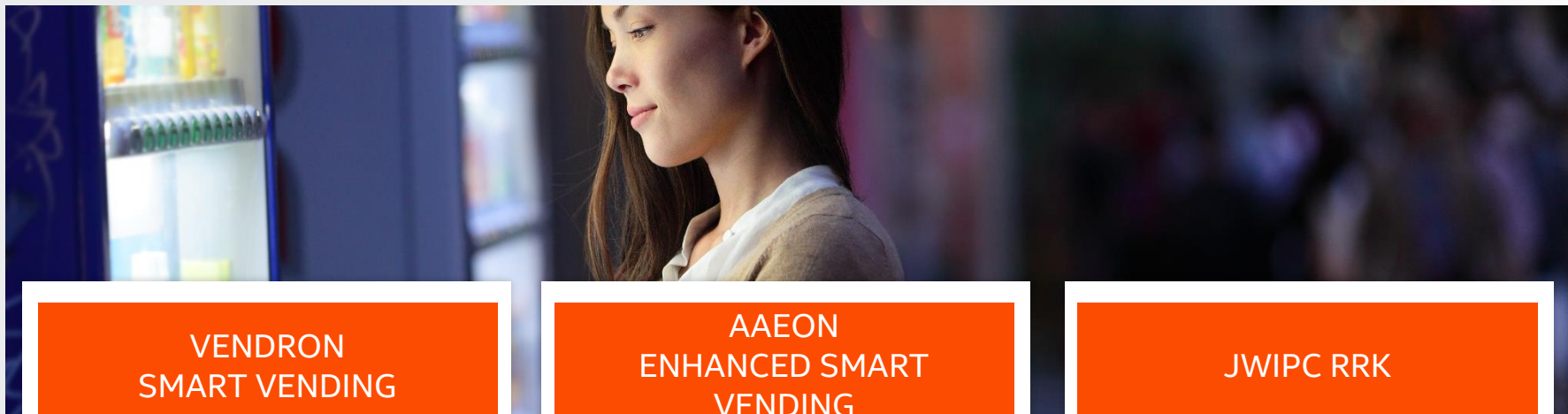
Enables business innovation on proven technologies that provide the computing power, connectivity, security, manageability, and ease of reprogramming needed to support advanced services such as autonomous and frictionless experiences

## NEW REVENUE STREAMS

Facilitates the implementation of new revenue generating functions, such as digital advertising or product recognition, without requiring additional platform investment

# INTEL POWERED SMART VENDING SOLUTIONS

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## VENDRON SMART VENDING

Machine agnostic hardware and rich Vendron API's, create opportunity for increased revenue, profits, and ease of management

## AAEON ENHANCED SMART VENDING

Vending solution software packages to enable enhanced smart vending for increased revenue, profits and ease of management

## JWIPC RRK

Information to come

# AAEON ENHANCED SMART VENDING SOLUTION

## VENDING SOLUTION PACKAGES TO ENABLE SMART VENDING



- Real-time transactional inventory information
- Remote management
- Cloud based business analytics for telemetry data
- At-a-glance dashboard for operators
- Pay at the machine with credit card (NFC contactless or swipe), Google Wallet/Apple Pay/Samsung Pay (NFC contactless) or pay online and then pick up by QR code.

### Increase Revenue

- Sell ad space! multimedia display ads can be presented, and can be swapped out remotely!
- Have better product offering by identifying top selling items and slow moving ones in real-time
- Adjust pricing remotely in real-time

### Cut Costs

- Business intelligence reports enable minimizing costs and maximizing profits
- Know exactly what and when to restock
- Multi-item vend in one transaction

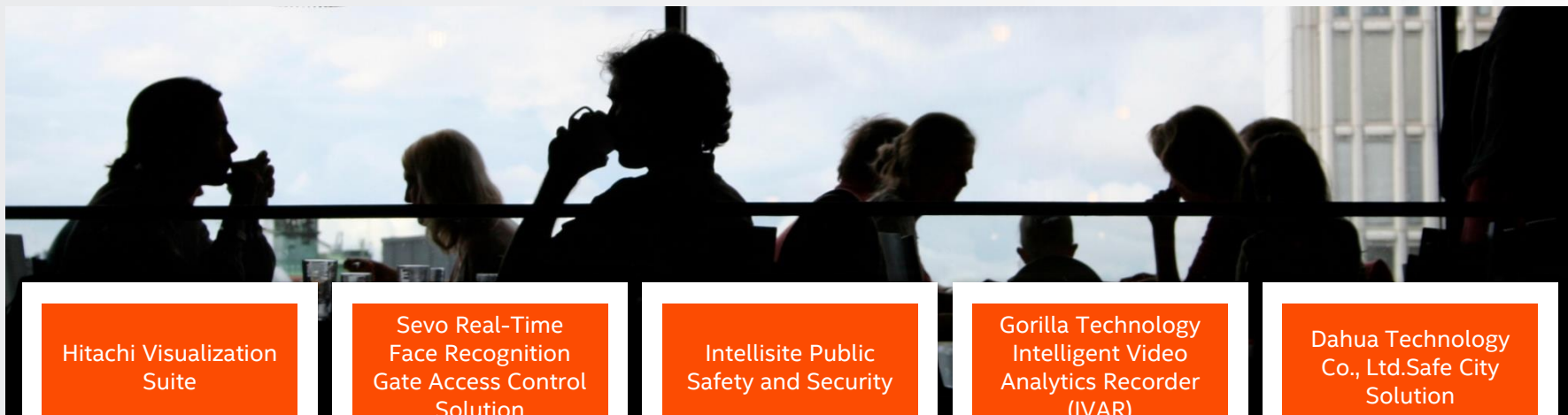
### Ease of Management

- Change item pricing, item information, control your machine temperature and lighting, and monitor its health in real-time or opt-in to be alerted.
- Reduce machine downtime with real-time alerts



# INTEL POWERED SAFETY & SECURITY SOLUTIONS

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## Hitachi Visualization Suite

Enhances real-time intelligence, situational awareness, and predictive crime analytics.

## Sevo Real-Time Face Recognition Gate Access Control Solution

Enables identification at the edge to support gate access control.

## Intellisite Public Safety and Security

Detects criminal activity such as loitering, trespassing through a secure platform.

## Gorilla Technology Intelligent Video Analytics Recorder (IVAR)

Extract insights and deliver actionable suspect/object and identification results.

## Dahua Technology Co., Ltd. Safe City Solution

Detects threats via face and license plate recognition using ultra-zoom and panoramic view.

# HITACHI VISUALIZATION SUITE

## VIDEO, IOT AND ANALYTICS SOLUTION FOR SMARTER SPACES



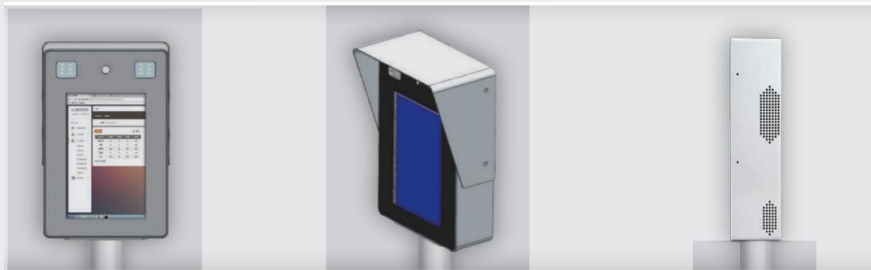
Includes facial recognition and social media monitoring, can plug into emergency response systems.

Hitachi Visualization Suite (HVS) is a public safety solution that uses Intel technology to enhance real-time intelligence, situational awareness, and predictive crime analytics. The Intel hardware powers data capture, analytics, and workflow from edge devices to the cloud and Data Center. The solutions consists of gateways, servers, NUCs, Intel SSDs.

More info here:

<http://www.hitachi.us/social-innovation/public-safety>

# SEAVO REAL-TIME FACE RECOGNITION GATE ACCESS CONTROL SOLUTION



Seavo Real-Time Face Recognition Gate Access Control Solution provides high precision and low latency Identification for different application of Digital Security

Facial recognition, enables real-time face detection and identification at the edge using the Face Recognition algorithm program and supports gate access control and early warning. Could hospitality clients register their guests faces and use that to grant access to hotel/room/pool instead of using a key card?

[Learn More](#)

# GORILLA TECHNOLOGY

## INTELLIGENT VIDEO ANALYTICS RECORDER (IVAR)

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Key capabilities include ability to monitor and track suspicious activities and people with facial attributes, facial recognition and watchlists, zone intrusion detection and human behavior. Also includes OpenVINO. Seems like a great fit.

Extract surveillance video insights and deliver actionable suspect/object and identification results for law-enforcement and commercial entities to track.

<https://www.gorilla-technology.com/IVAR>

# ZIVELO KIOSK – QUICK SERVE RESTAURANT – SELF SERVICE KIOSK



The ZIVELO Kiosk – Quick Serve Restaurant – Self Service Kiosk provides a self-service kiosk solution to QSR customers. Connected through either Wi-Fi, Ethernet, Bluetooth, 3G or 4G, the kiosk computes from a Dell OptiPlex 3040 PC powered by an Intel® Core™ i5 processor. QSR customers place transactions on the kiosk using the Honeywell Vuquest 3320g barcode scanner and either a Verifone or an Ingenico cashless device. Information from the transaction is then sent to the user's preferred cloud, where analytics can be performed at the edge in real-time. Intel® SSDs make higher data storage capacity possible, so users can choose to store the information either on the device or in the cloud

[Learn More](#)

# VOLTEO ASSET MANAGEMENT WITH RFID RRK

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Accurate, reliable, automated, remotely managed solution for real-time visibility into item (or shipment) existence, inbound and outbound item (or shipment) movements from facilities and usage patterns of any inventory item within a facility.

This RFID based system enables receiving of items, populating inventory repository (SOR) ensuring alignment between financial and operational systems via a common mobile interface.

- Easy to set up and configure
- Data analysis and decision making
- Audit compliance
- RFID enabled

<https://volteo.com/iot.html>



