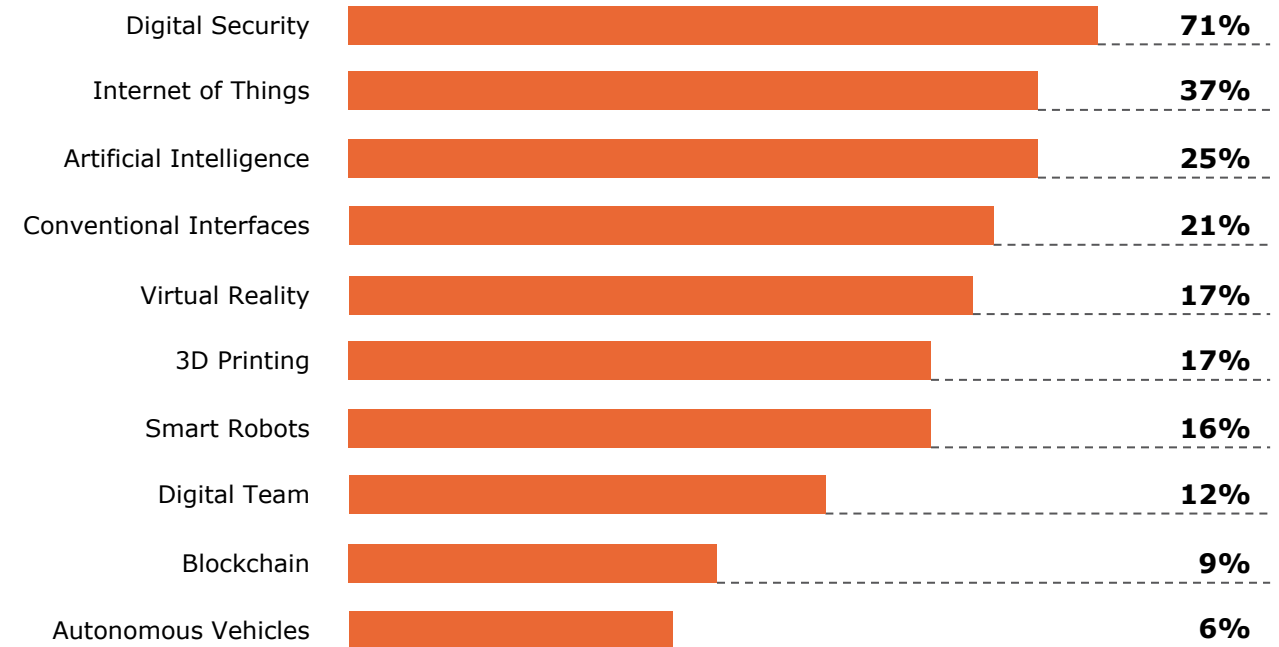




Digital Transformation is Accelerating

Disruptive Technology Adoption is Increasing



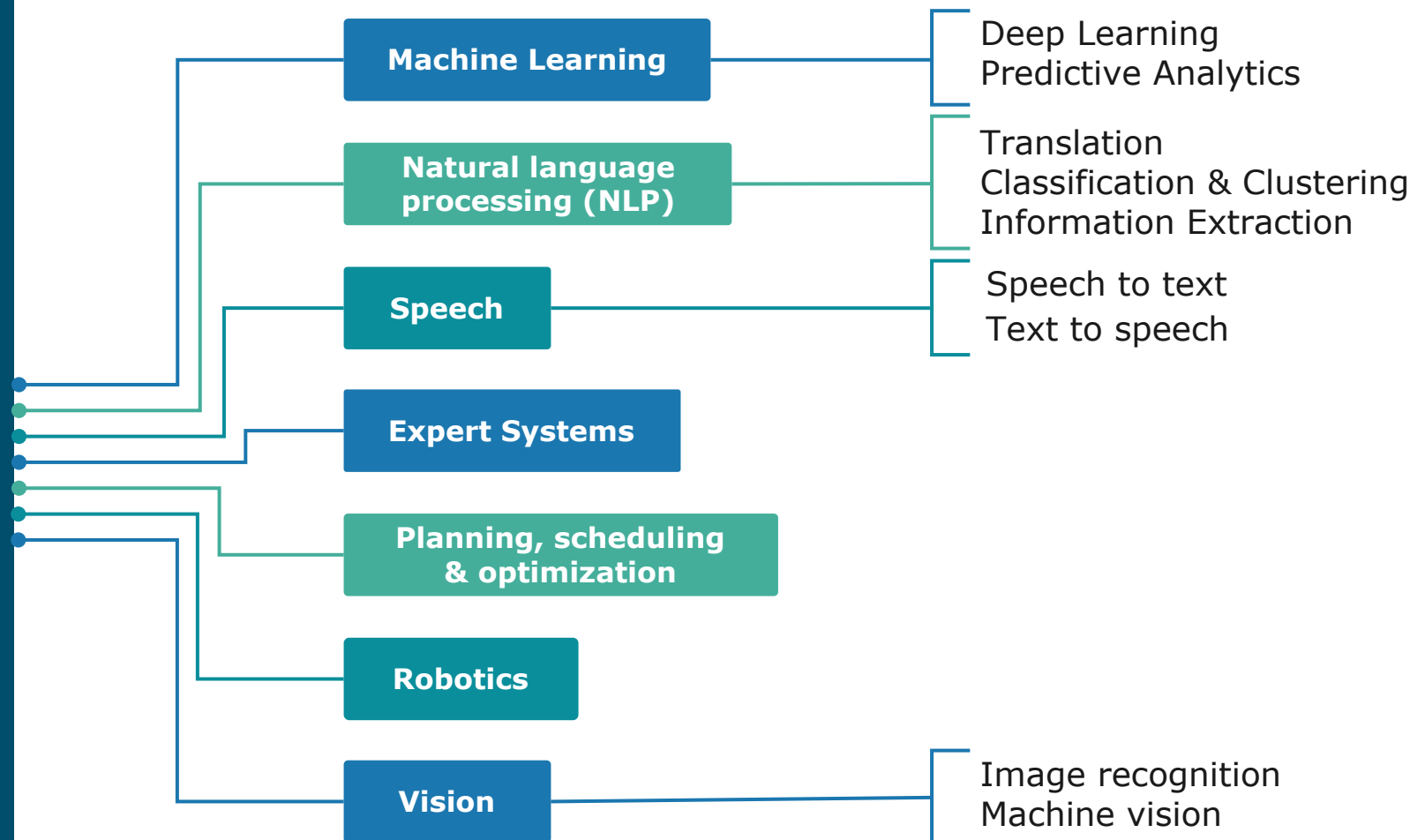
PREDICTS

Through 2020 60% of your time and cost to build a digital platform is on **INTEGRATION**





Artificial Intelligence (AI)



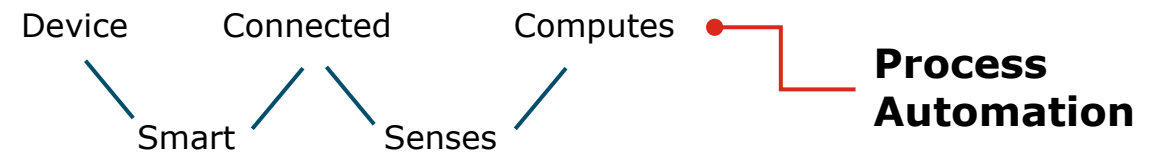
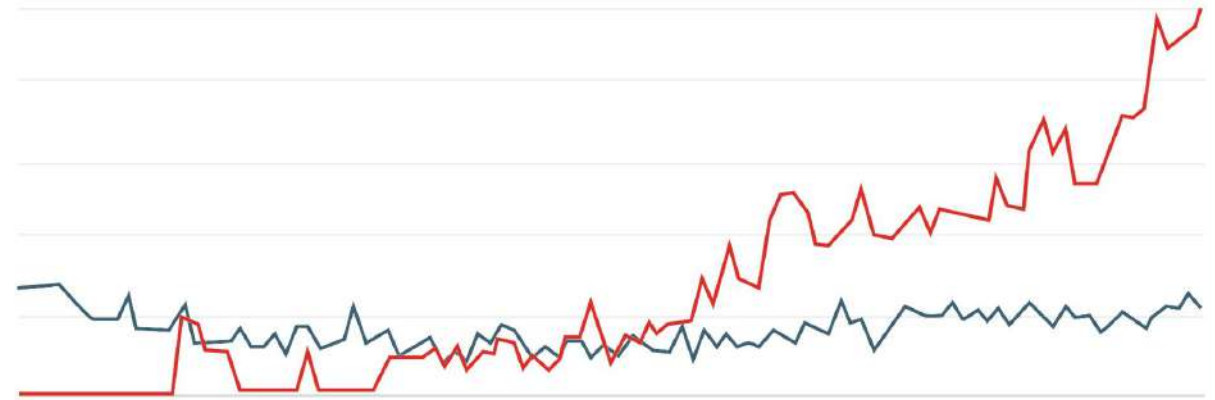
Gartner predicts that by 2020, customers will manage 85% of their relationships with the enterprise without interacting with a Human

IoT-enabled Ecosystem

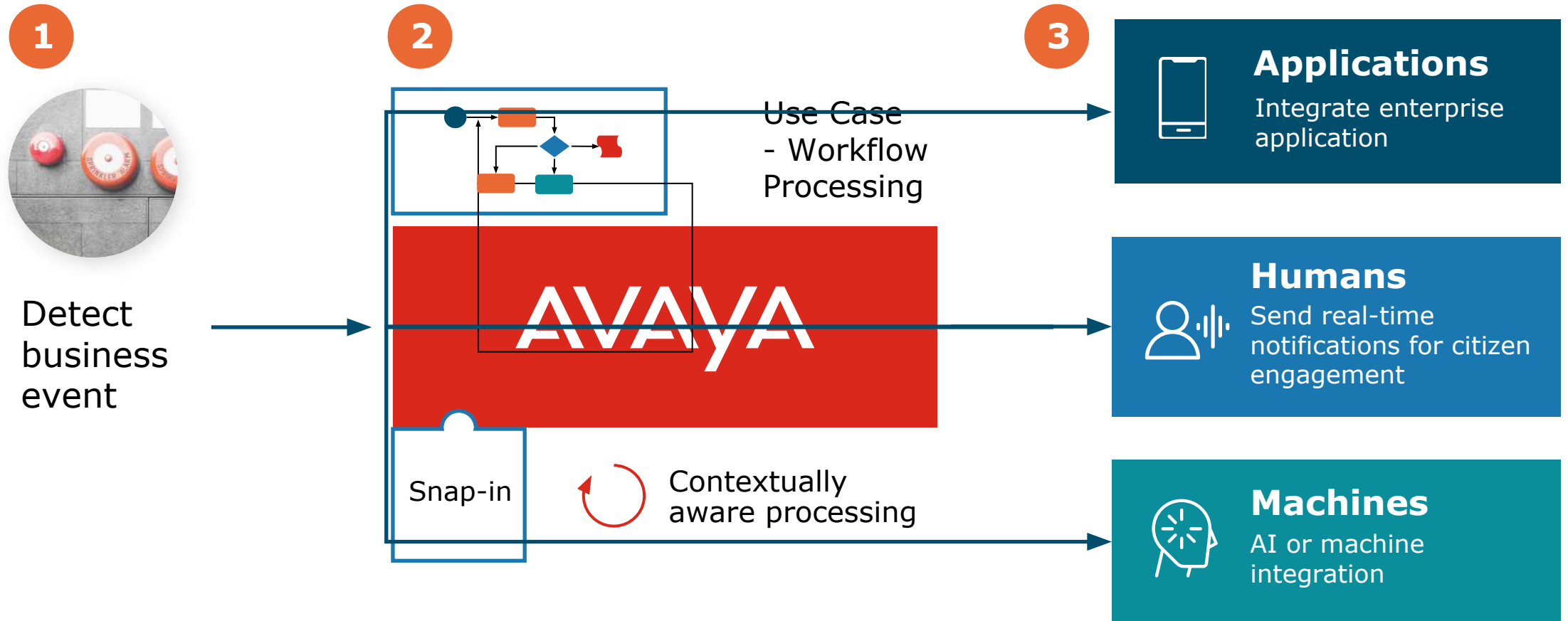
- IoT is about interconnecting devices with systems
- The IoT Platform as enabler, **gathering** and **analyzing** the data
- **Real value** will come applying the resulting insights to **create great IoT services**
 - e.g. predictive maintenance, proactive customer engagement or advanced analytical insights
- Enabler for new compelling Use Cases across key Verticals

Trends

- Internet of Things
- Machine to Machine

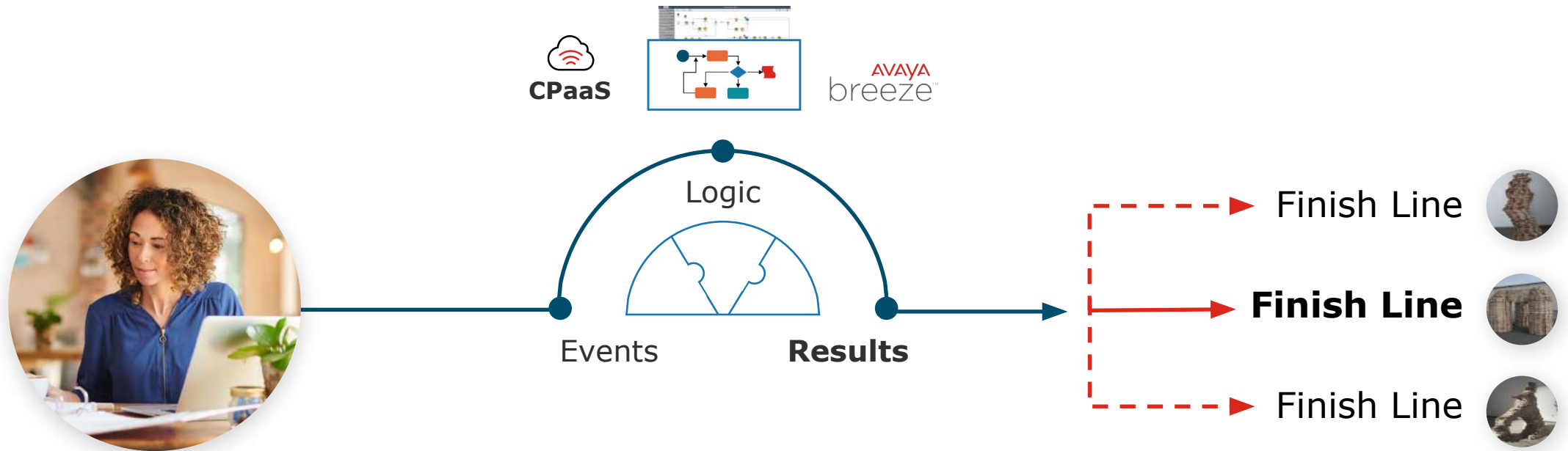


"If This Then That" 2.0 For Organizations



Service Automation & Orchestration

Open and Agile by Default

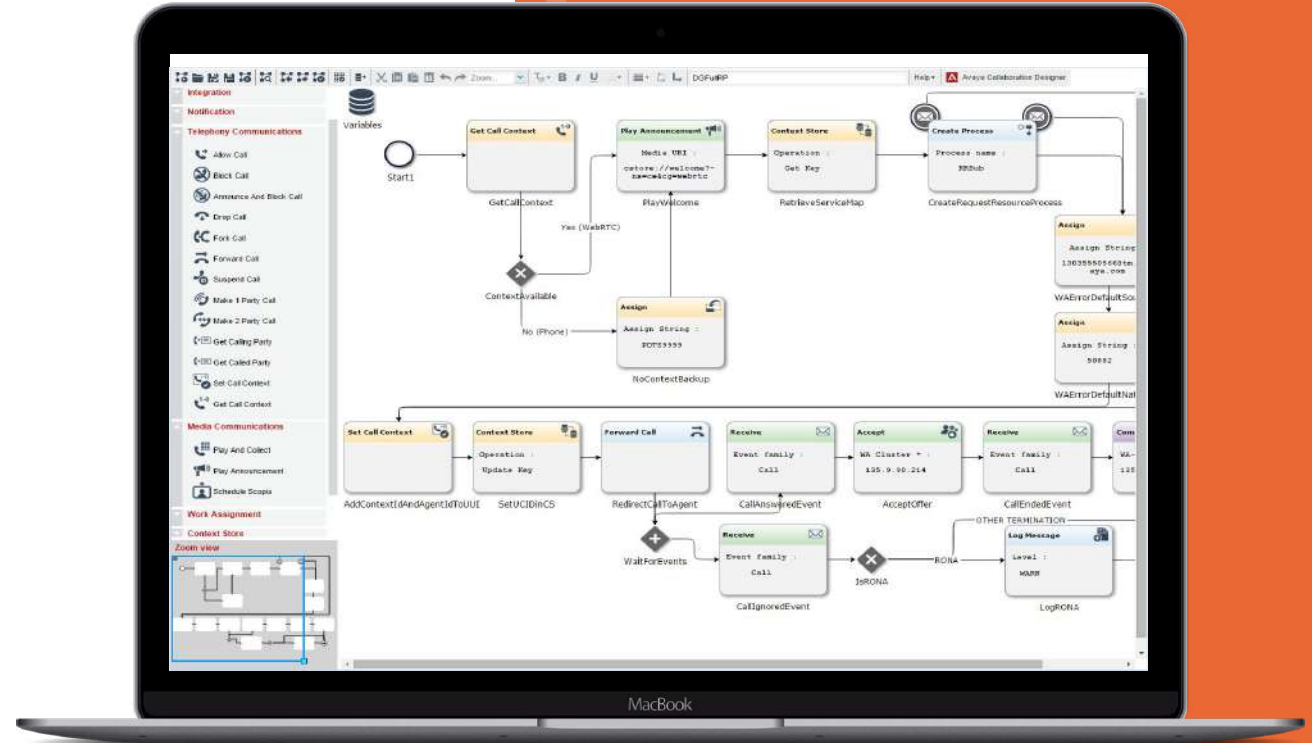


Create and Customize Workflows

Avaya Engagement Designer

Browser-based visual designer for workflow design and automation

- Quickly **create applications** with **minimal programming experience**
- Seamless integration into **IoT, AI and LOB Applications**
- **Create your own task types** and dynamically incorporate them into the palette
- **Visual, drag-and-drop model** for tailoring and customizing workflows



Simplify creation and control over Business Processes

Modality of Interactions

UC Evolution



Telephony



UC + Presence



UC + RT - Context



AI + IOT + UC

Agent Services

Self Services

Automated services



Voice Channel



Multichannel



Omnichannel
with Context



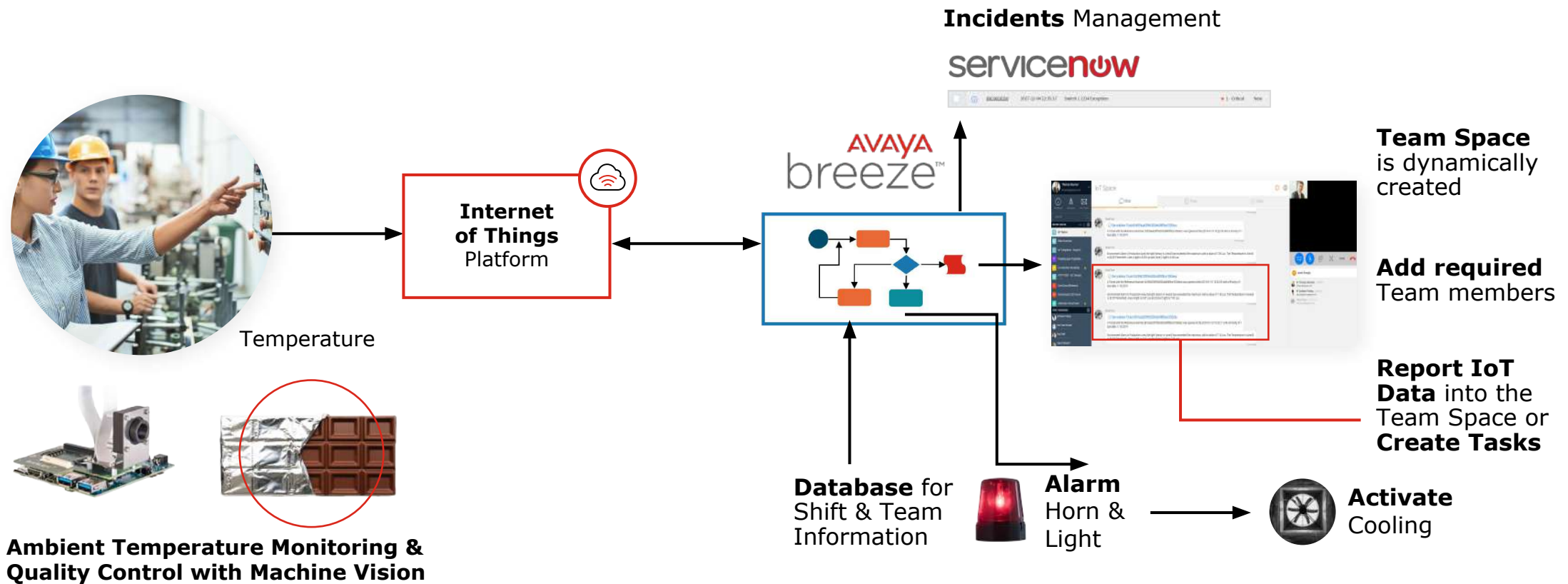
Automated Channel
with Real Time
Contextual Analytics



AI & IoT
CRM - EHR
fully integrated
Real-Time Experiences

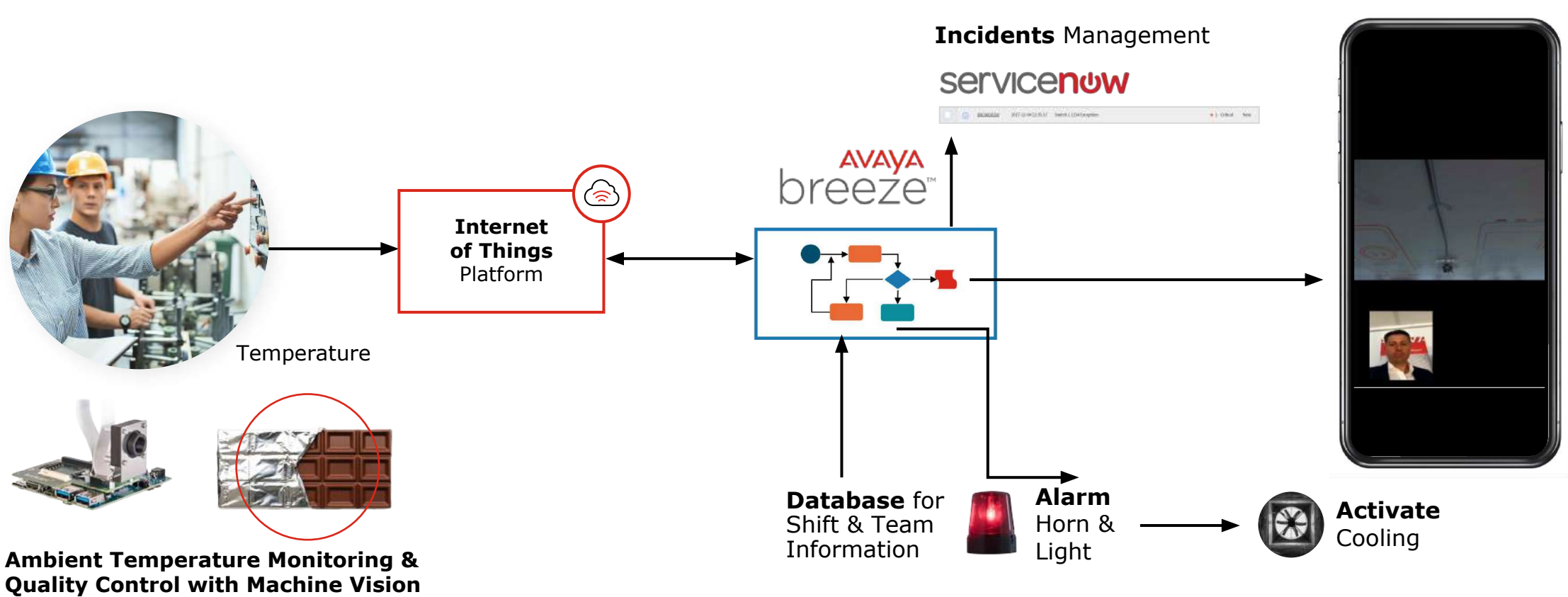
IoT & Collaboration

Real Time Information for Better and Faster Reactions



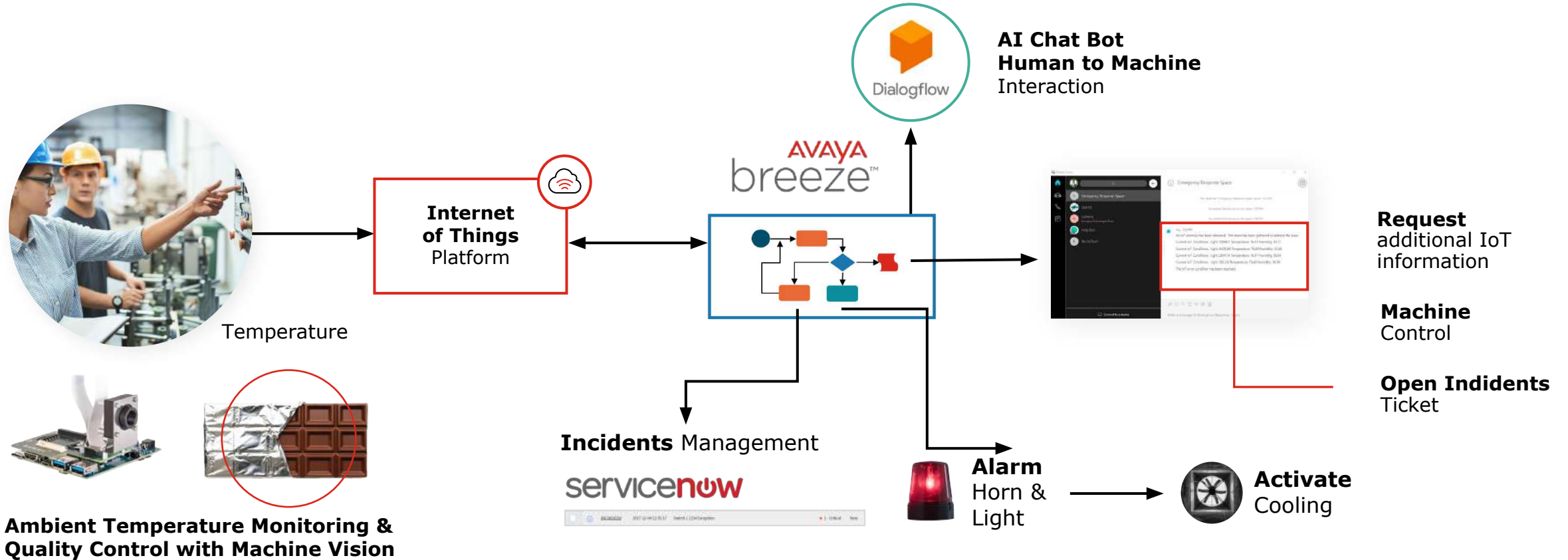
IoT & Mobile Collaboration

Real Time Information for Better and Faster Reactions



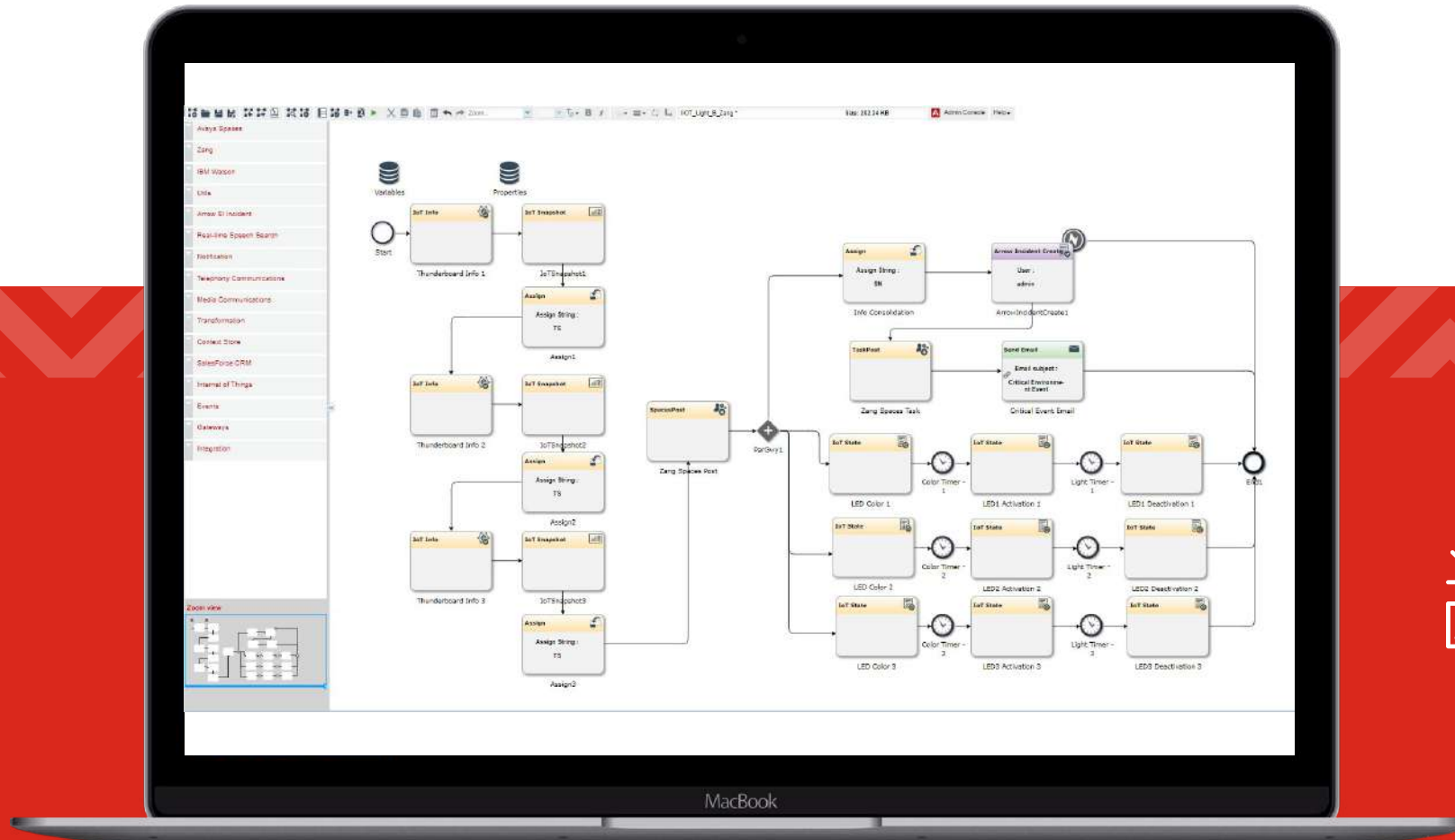
IoT & Mobile Collaboration

Real Time Information for Better and Faster Reactions



"Dialogflow" is the trademark of Google or its affiliates in the United States and/or other countries

Avaya Engagement Designer



 **Easy!**

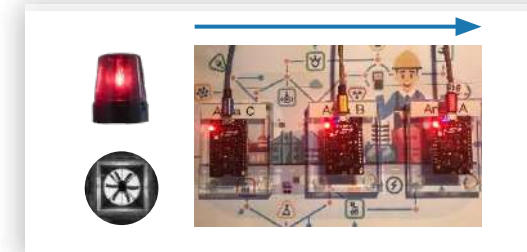
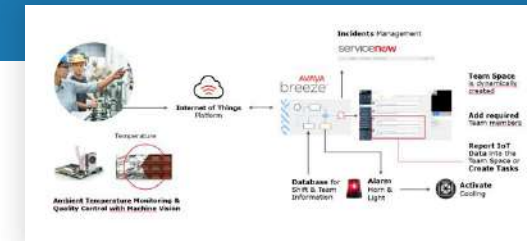
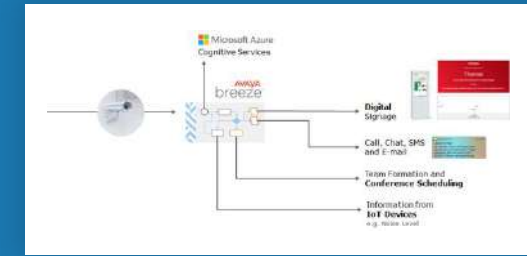
Avaya Apps & API Cloud (OneCloud CPaaS)



Triggered
**Environment
Exception Process**

Triggered **Quality
Assurance Process**

Manually **Activated
Machine Task**



Smart Solution with Vantage

Voice Control

Room Statistics

Ambient Preferences & Control

- Appliances
- Lights
- Thermostat



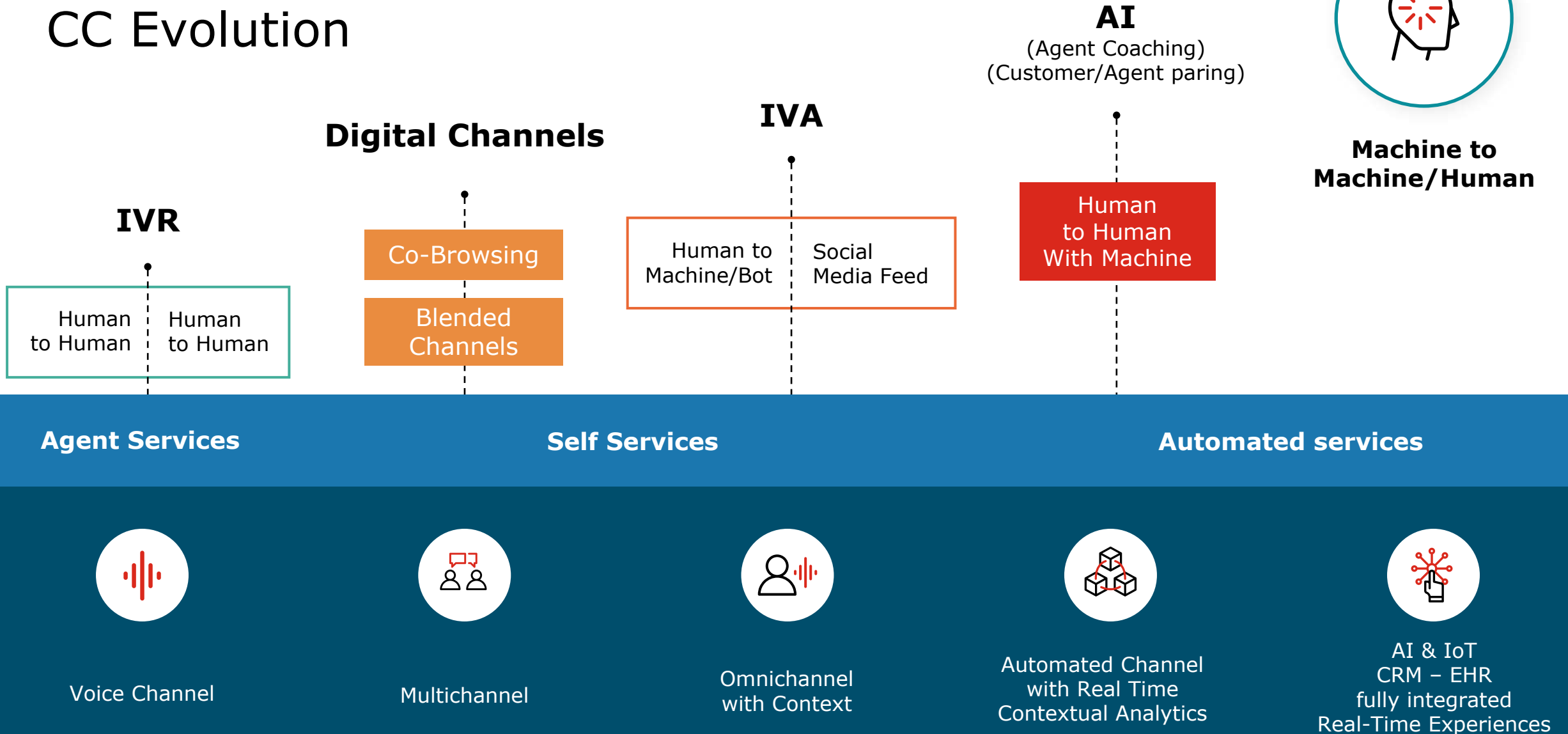
Face Recognition & Room Surveillance

Detect Human Presence

- Presence Detection
- Personalized Ambient
- Face Recognition
- Room Surveillance & motion detection
- VA Ambient Control
- Room statistics

Modality of Interactions

CC Evolution



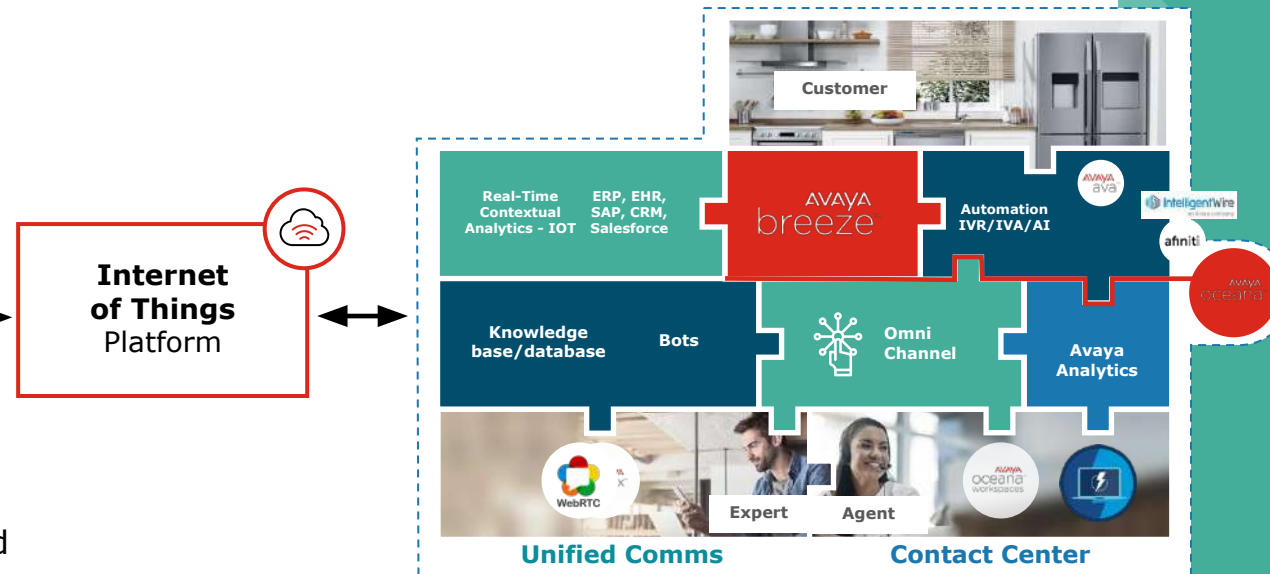
IoT & Customer Engagement

Real Time Machine Information for
Better and Faster Services

Household Appliance (fridge)
**below operating
temperature**



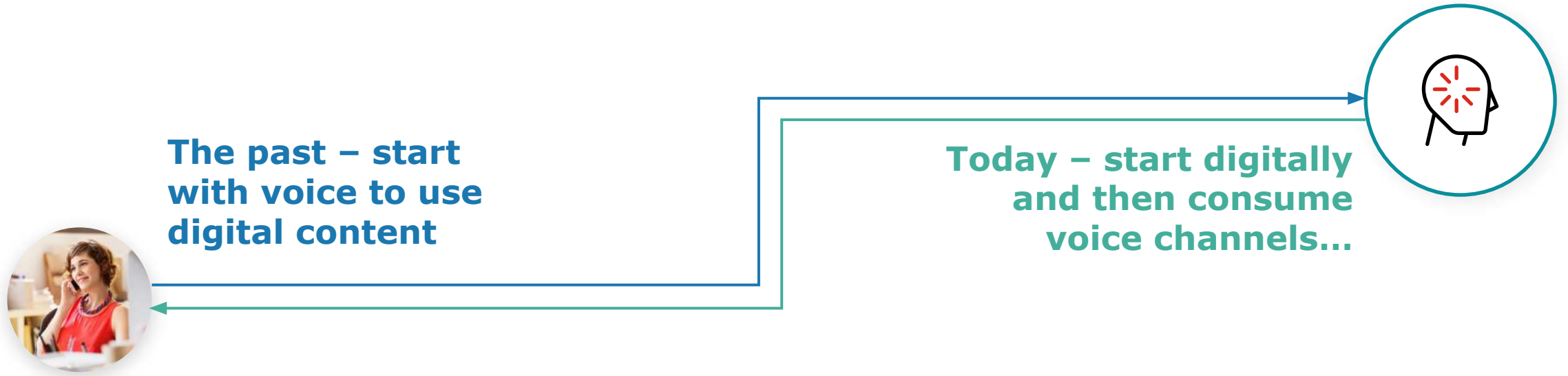
Sensor detects condition and
machine sends **Telemetry &
Diagnostic information to
Service Center**



- **Service Center** receives contextual information and combines them with customer **CRM** records
- **Customer** will be engaged by preferences
 - **BOT notification, if fridge door is open**
- **Clear approach** and recommendation can be provided to the **customer**, based on correlated info
- **Customer dialog transcribed** and made available to **CRM** Application

Modality of Interactions

A Significant Change



Voice Channel



Multichannel



Omnichannel
with Context

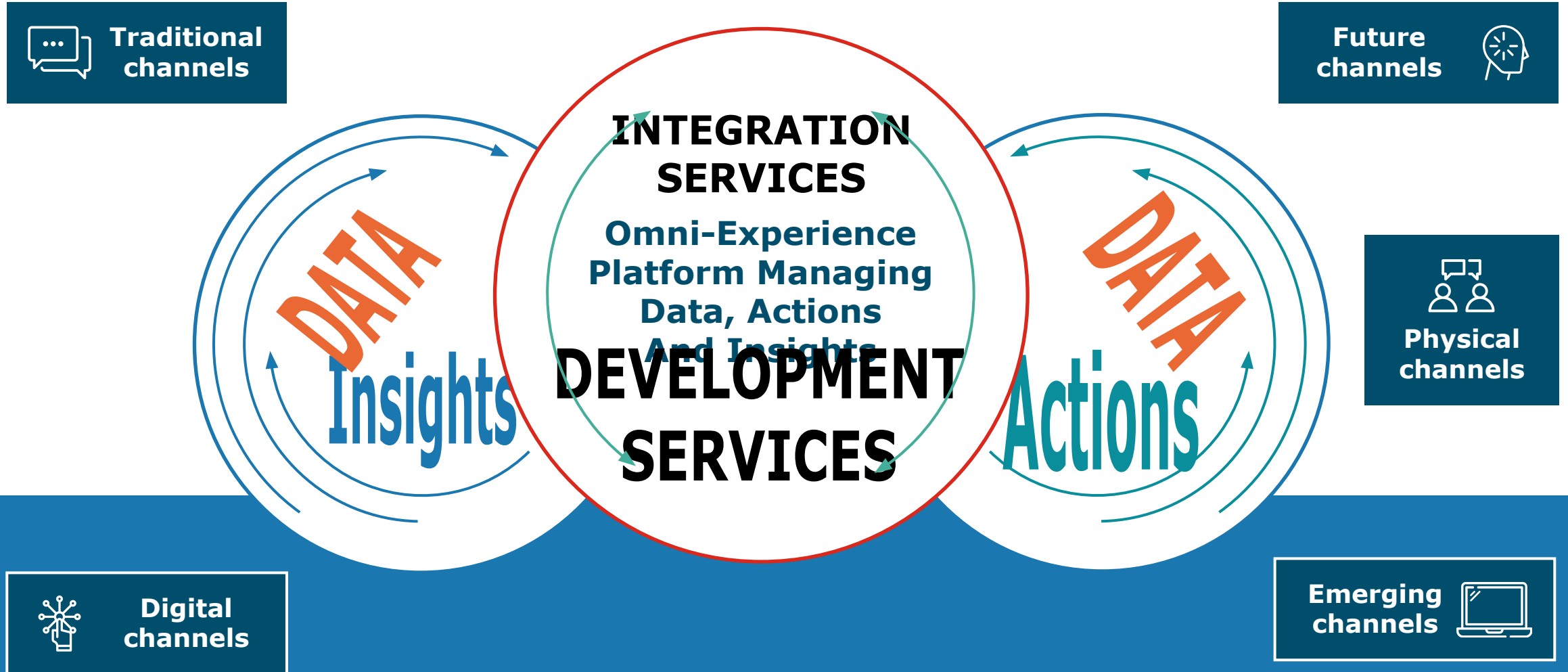


Automated Channel
with Real Time
Contextual Analytics

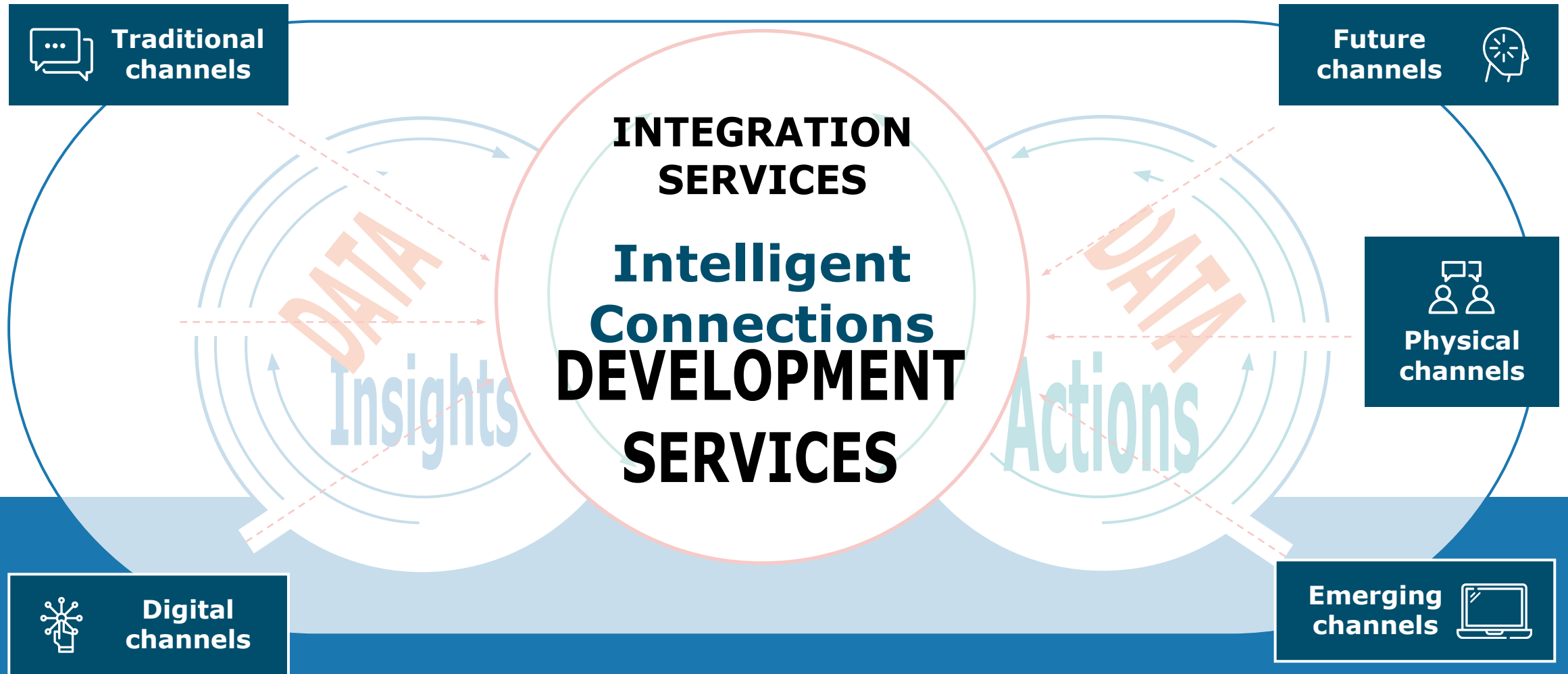


AI & IoT
CRM – EHR
fully integrated
Real-Time Experiences

Connections



Connections

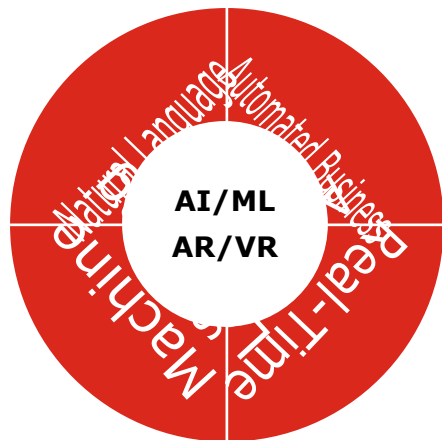


Digital Framework

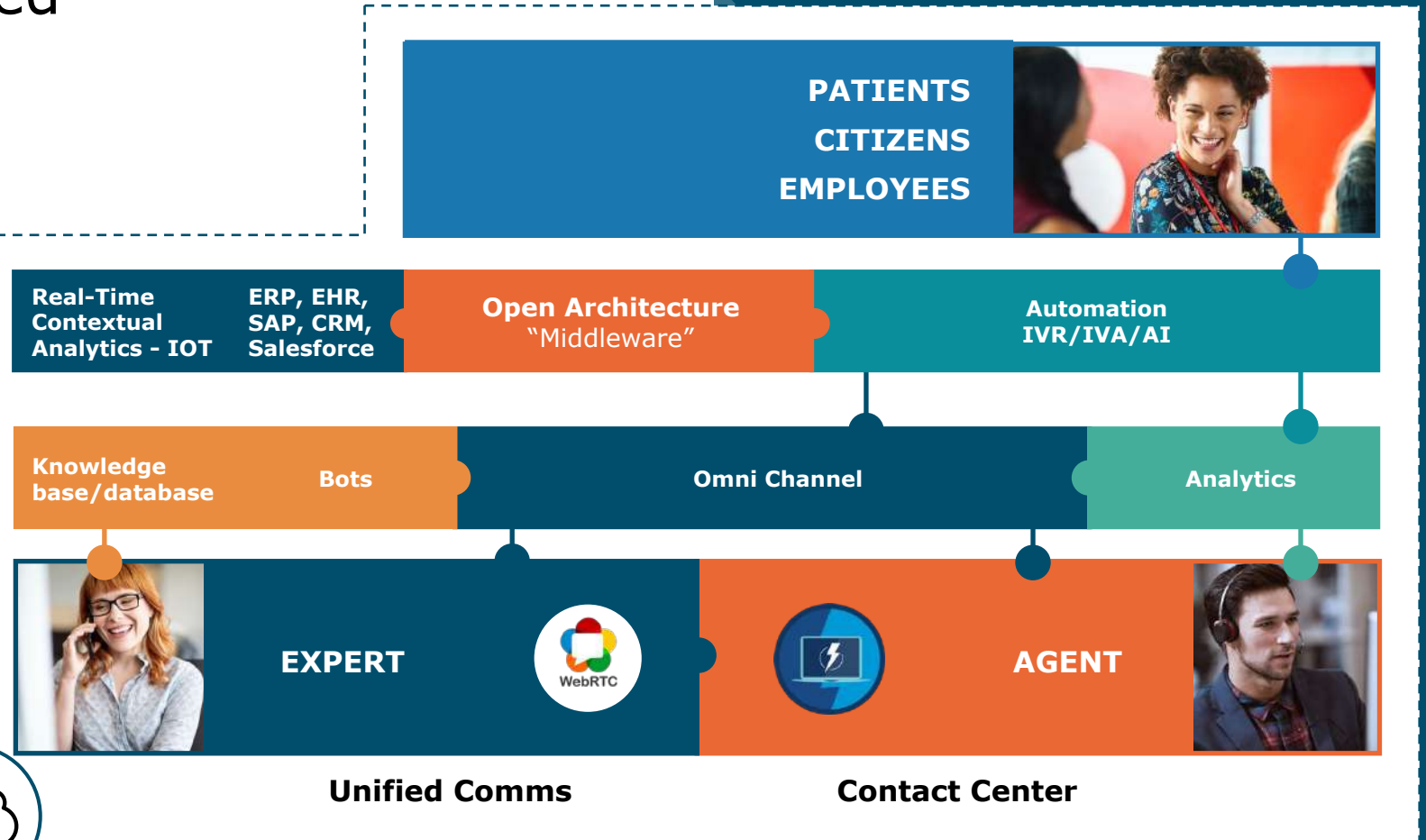
An Ecosystem is Required

Convergence of Mobile UC & CC + Open + Automation

- Next best action
- Customer – agent selection
- Segmentation
- Voicebots, chatbots



ANY



Avaya & IoT

Smart Communications for
Smart Engagement

Delivers Intelligent Outcomes

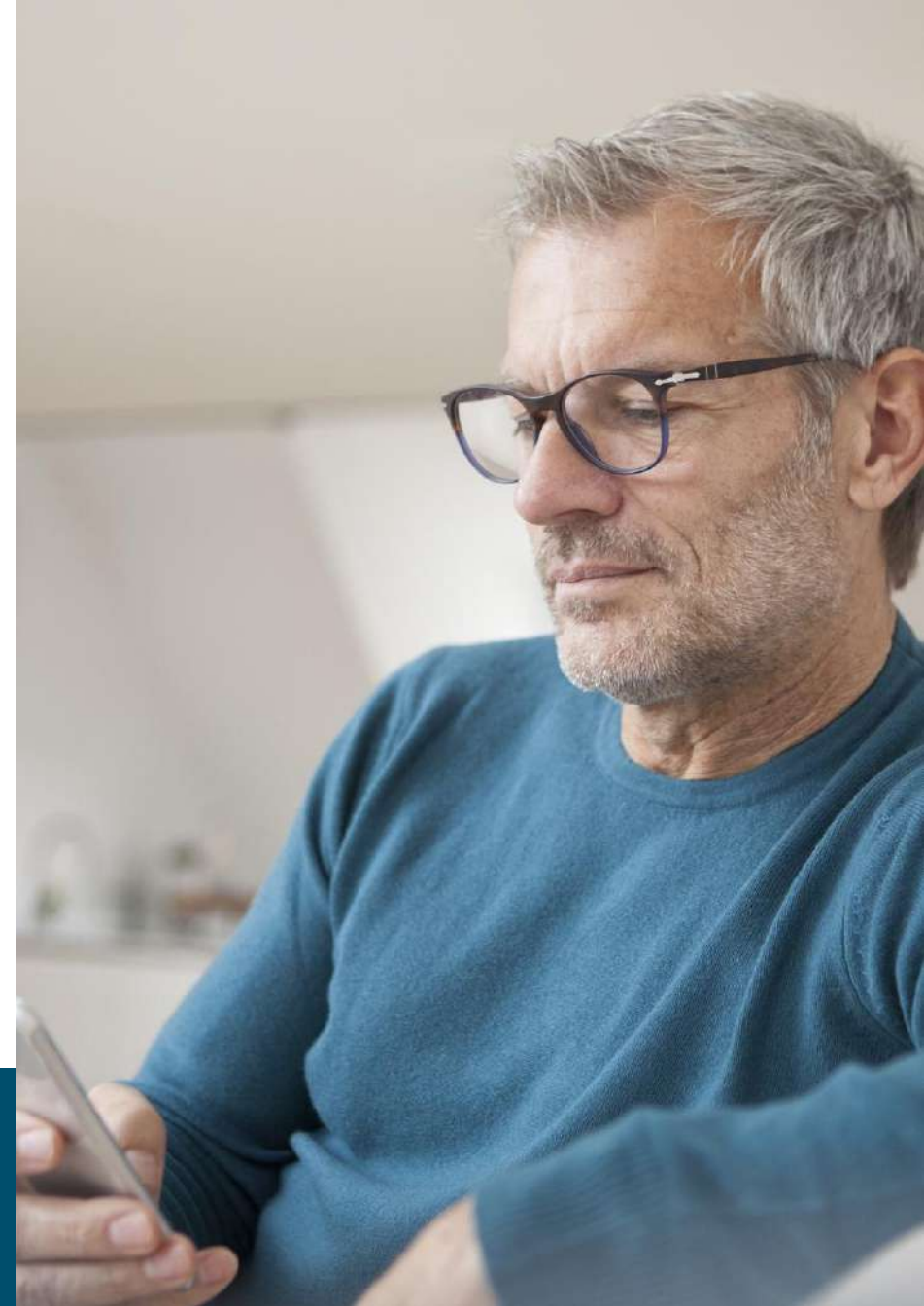
Contextually-aware
Processing

Agile **Workflow**
Automation

Actionable
IoT Data

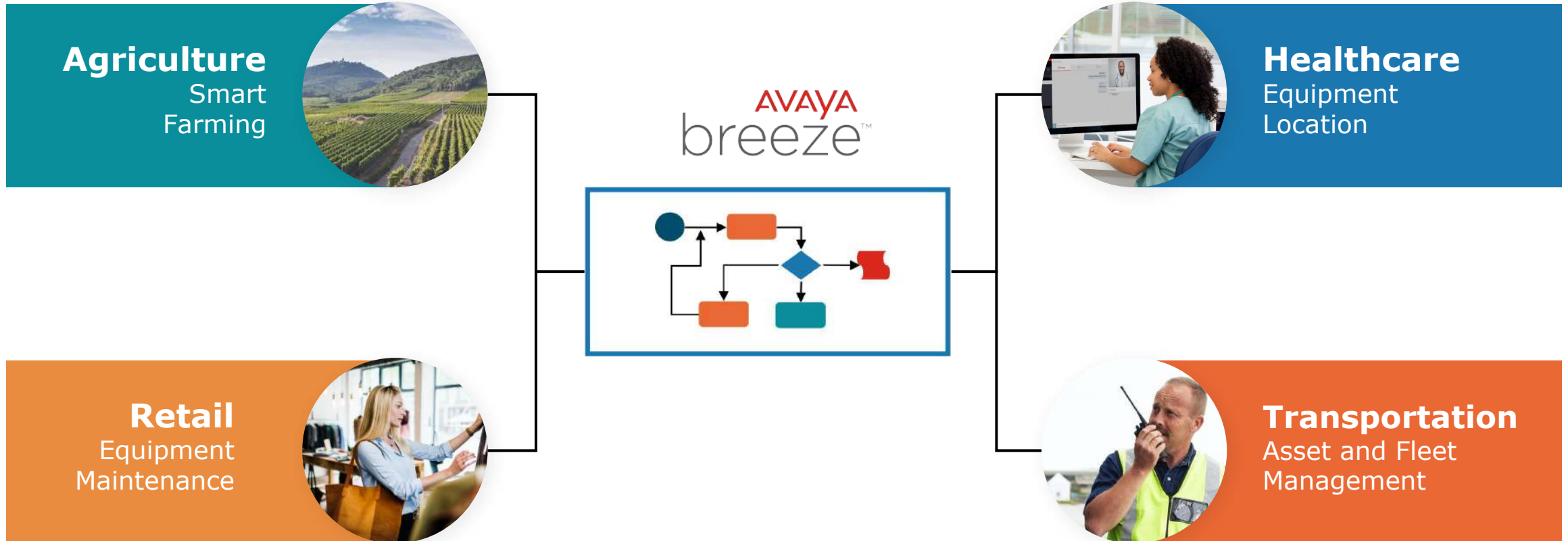
Open Ecosystem for
Smart Communication

Seamless and contextual connections between
machines, humans and LOB applications



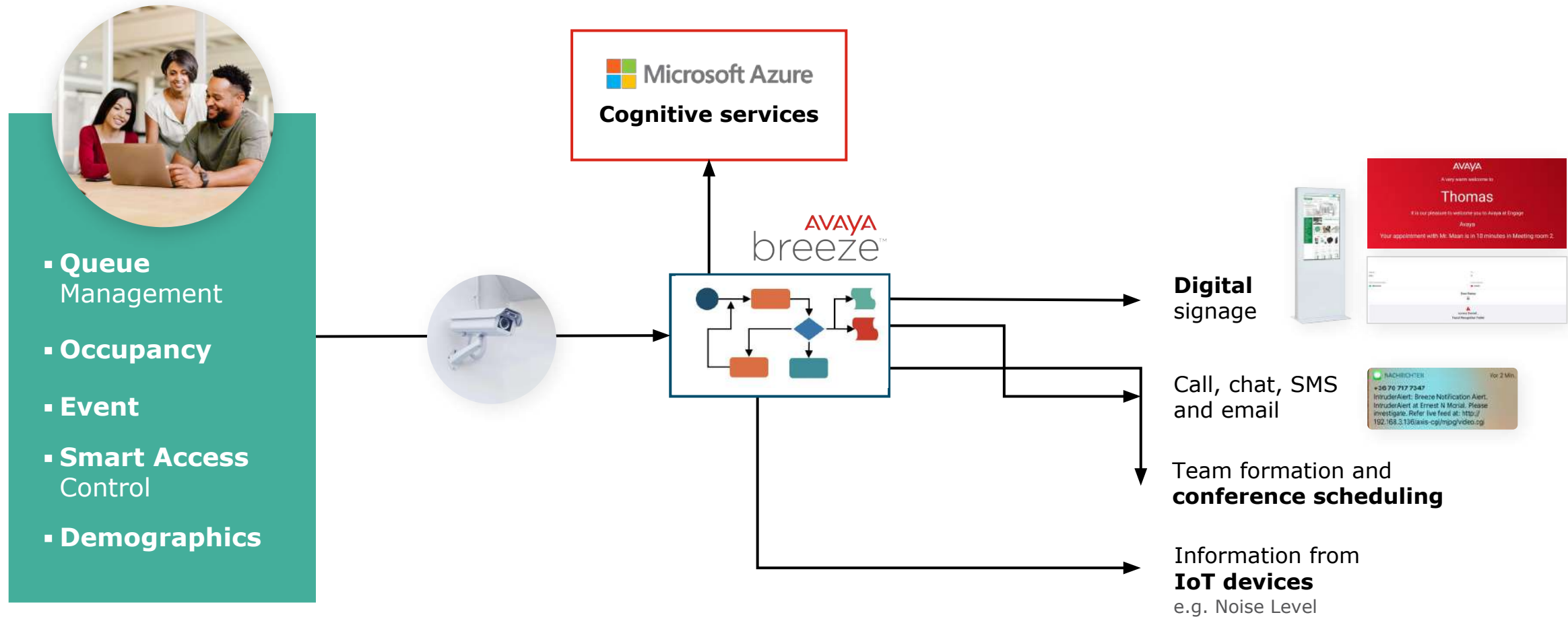
Events Trigger Engagement

Event Triggers to Orchestrate Critical Activities with Ambient Context



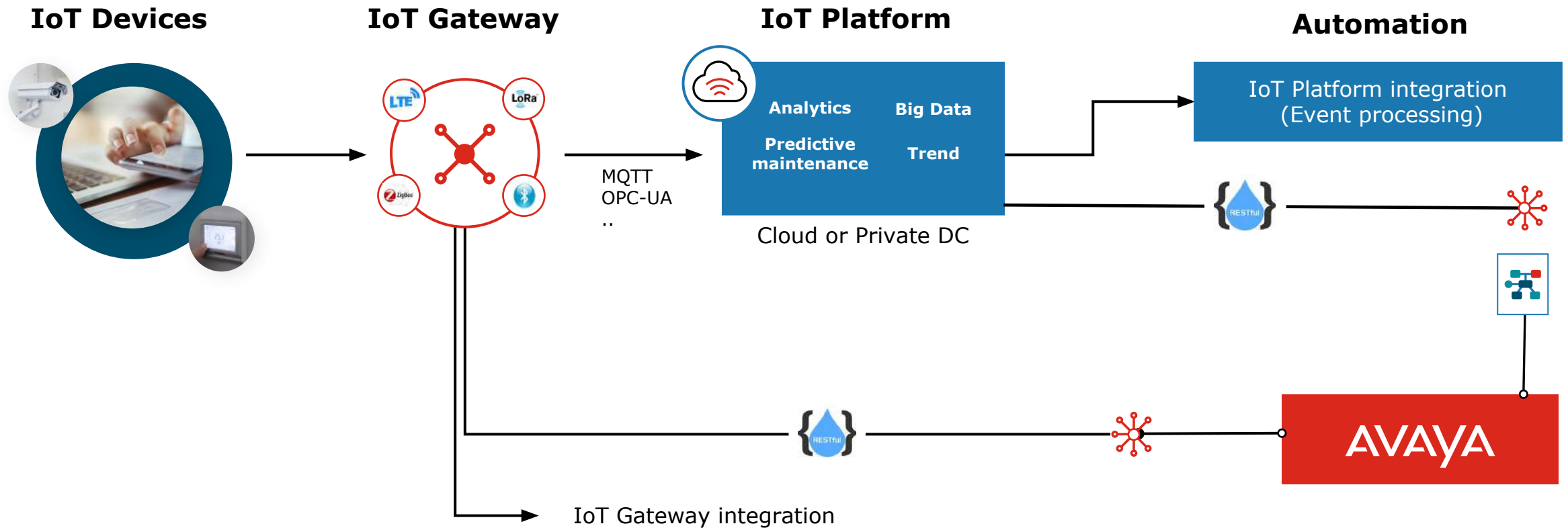
Blending Digital Into The Physical Experience

Seamless Integration of Stand-alone Technologies



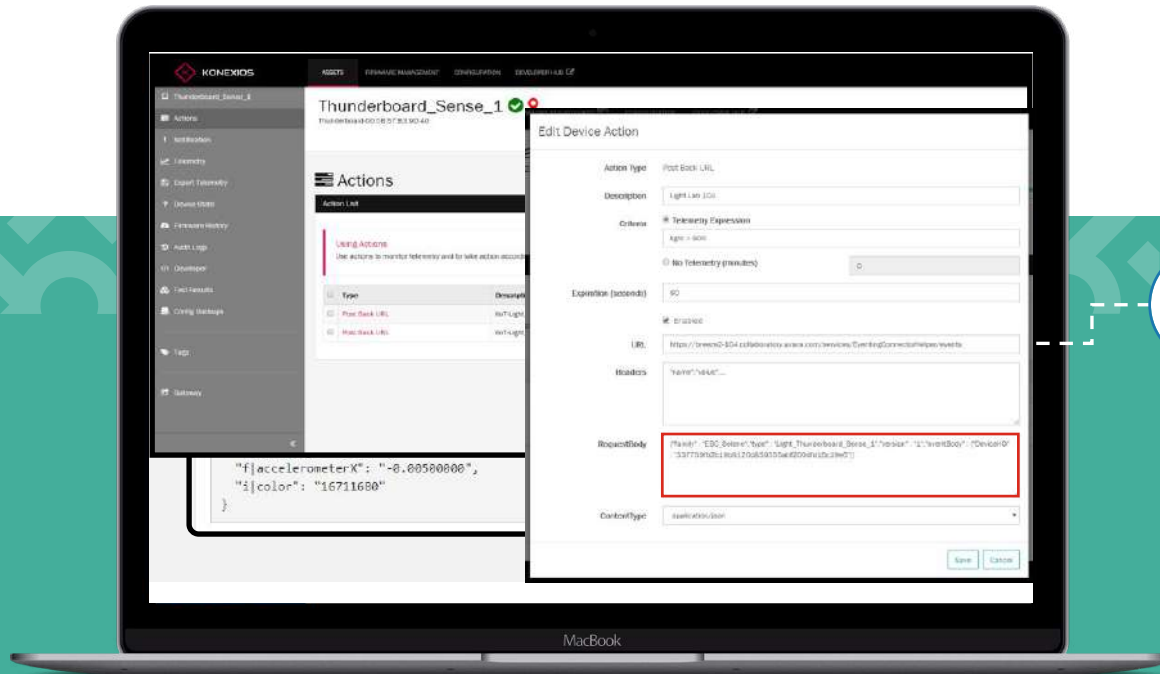
Avaya IoT Reference Architecture

Open by Default

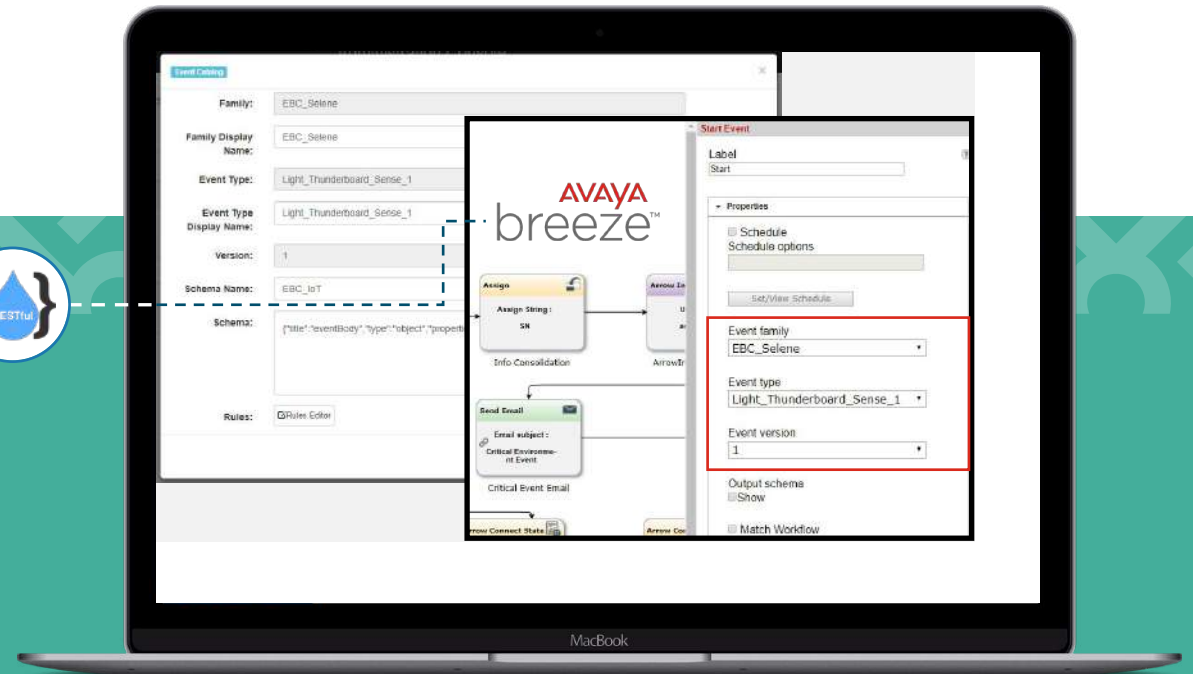


Actionable IoT Data

Turning IoT into Effective Business Actions



IoT Platform

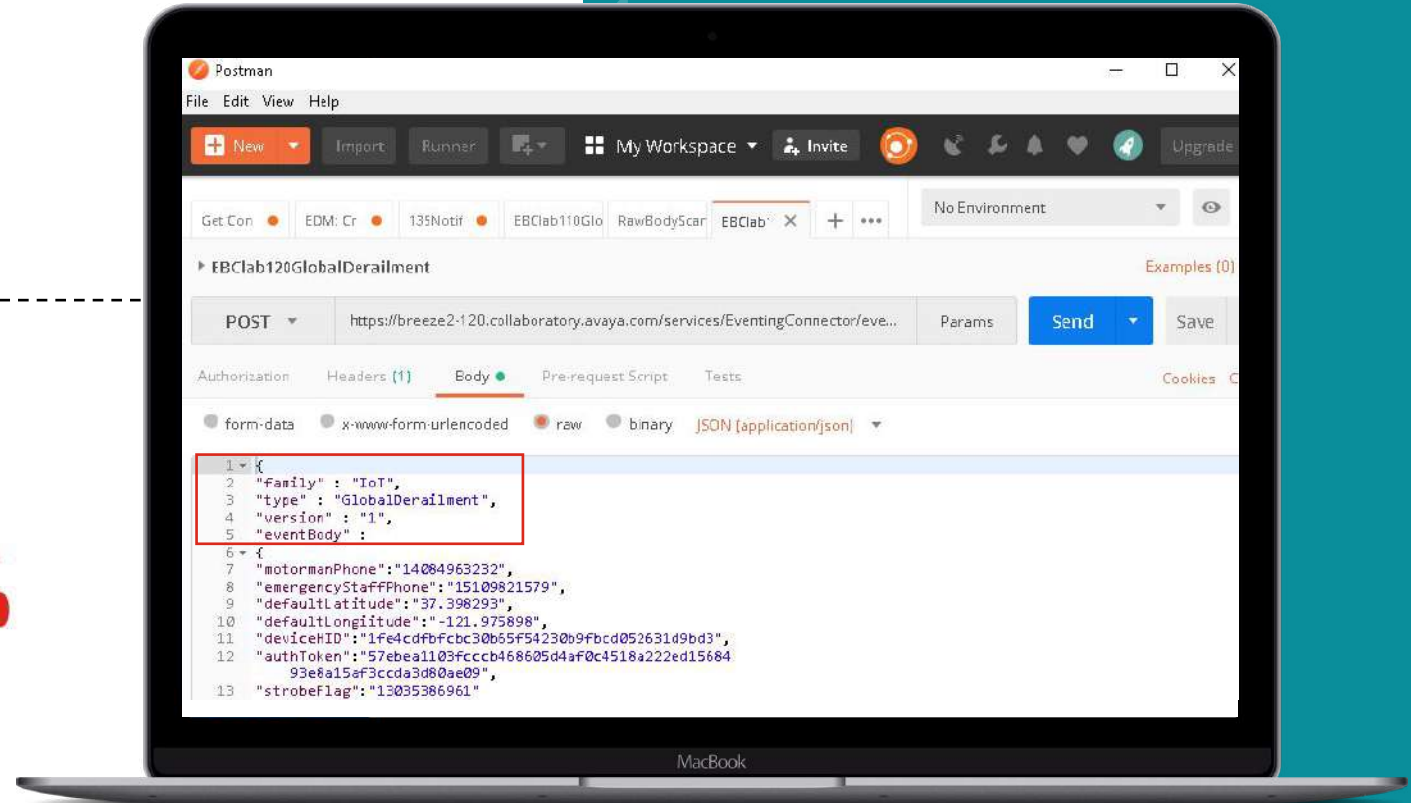
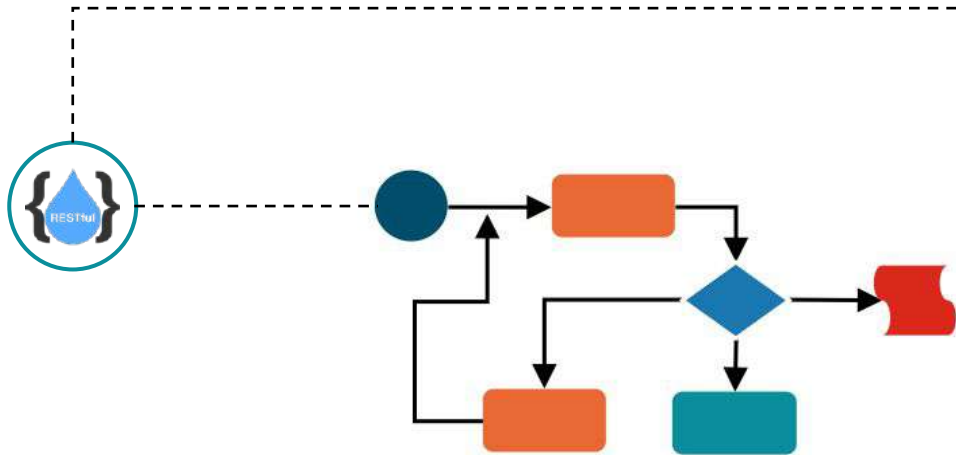


Avaya Automation Platform

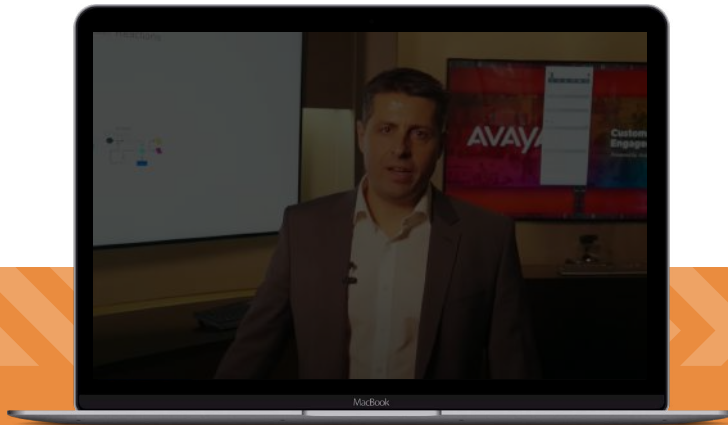
Web Service POST to Breeze

Simple Test Environment

- Postman Application can trigger the postback URL directly through REST
- Skipping the IoT infrastructure

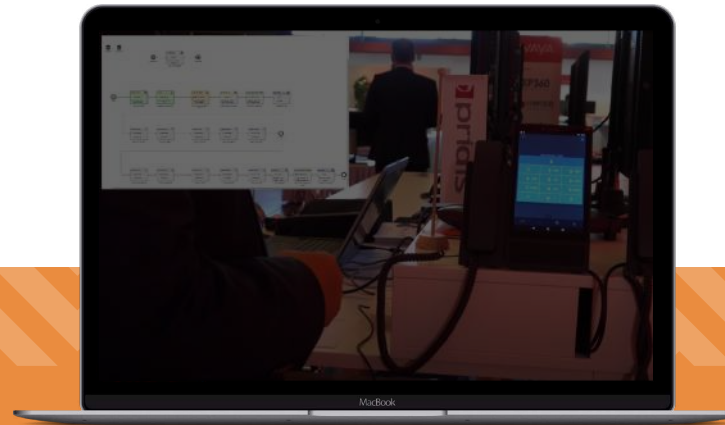


YouTube Demo Videos



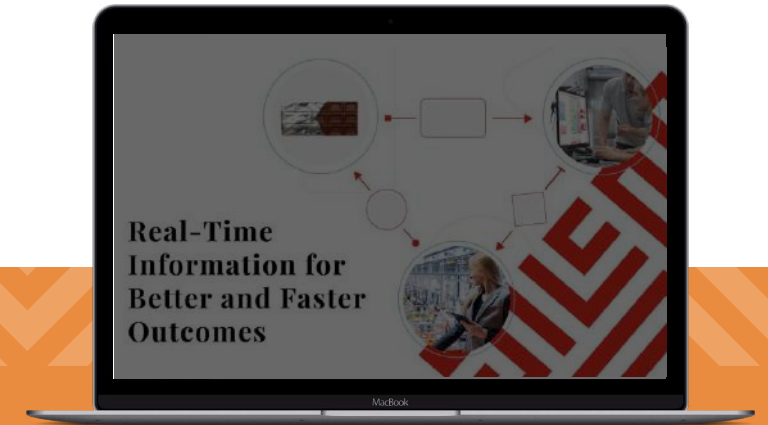
Industrial IoT

<https://www.youtube.com/watch?v=LFtDKVs9YHw>



Smart Ordering

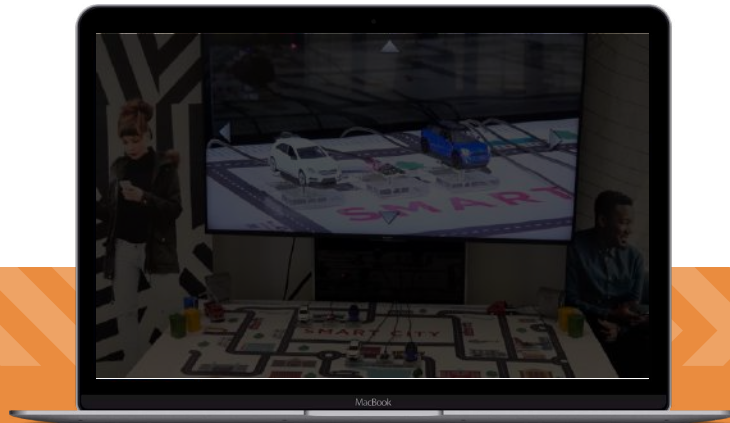
<https://www.youtube.com/watch?v=sKgdi5IXv7w>



Quality Management

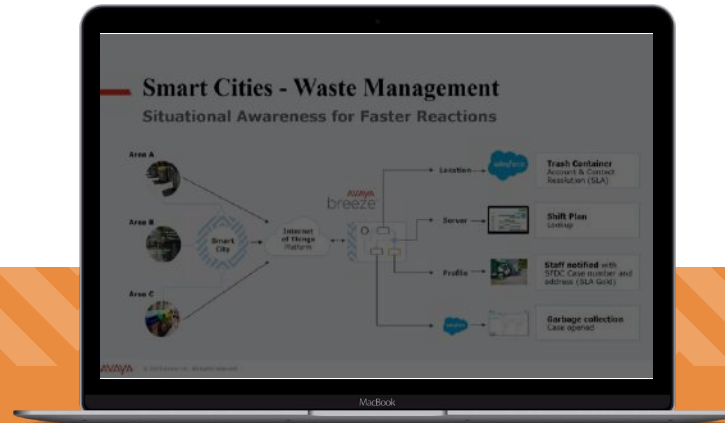
<https://www.youtube.com/watch?v=9Q1qdeZZvWU>

YouTube Demo Videos



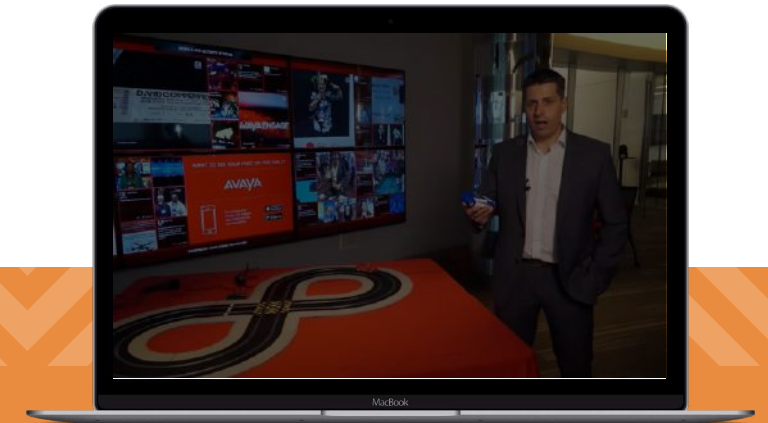
Smart Parking

<https://www.youtube.com/watch?v=rd267Nwn-M0>



Smart Waste Management

https://www.youtube.com/watch?v=MGiLYo1j_X8





Cops & Robbers

<https://www.youtube.com/watch?v=Pu1ror6r0BQ>

<https://youtu.be/24qBOciIOd4>

<https://www.avaya.com/smartcity/>


avaya.com



Industry

The Intelligent Experiences of a Smart City

City administrators need a smart city strategy for more sustainable development

Approximately 70% of the world's population is expected to live in cities by 2050. City administrators need a smart city strategy for more sustainable development, wiser resource management, enhanced quality of life, citizen safety, and increased economic opportunities. At the heart of this smart city is **people and communication**: intelligently connecting citizens and employees of the city administration through a smart city ecosystem.

What is a smart city?



A city is considered a smart city if it uses digital technology to manage critical infrastructure more efficiently and offer public services more interactively through intelligent connections.

How can more intelligent connections be established?

An IoT-enabled ecosystem—interconnecting devices, systems and processes—can uniquely automate processes and seamlessly connect citizens and employees city-wide (i.e. smart municipal services, smart campuses and buildings, next-gen public safety, smart healthcare, smart transport).



<https://www.avaya.com/IoT/>





Turning IoT Into Effective Business Actions

Avaya seamlessly enables IoT ecosystems to communicate with any user or device with the right information in the right place at the right time.

What is IoT?

The Internet has insurmountable power for connecting people. Every minute, over 15 million text messages, 188 million emails and 41 million social media messages are sent. The Internet has revolutionized the concept of communication, and it's now taking one step further to connect the world in ways never before thought or seen.

Currently, the world is using nearly 50 billion connected devices (a.k.a. devices enabled by the Internet of Things, or IoT). In short, IoT is about connecting physical objects that surround us—everything from vehicles to refrigerators to home thermostats—into an ecosystem of information that will enrich our lives. These connected “things” send data to a system which collects and analyzes the received information—via embedded electronics, software, sensors and network connectivity—extending the power of the internet to literally any connected object that is able to sense and exchange data. IoT is bringing more things into the digital fold each day, being projected as a multi-trillion-dollar industry in the near future.

At the enterprise level, these “things” can range from condition monitoring equipment on the factory floor for predictive maintenance to wearables for remote health monitoring for higher-quality care across a greater number of patients. Overall, 86% of enterprises have increased IoT spending in 2019, with the goal of digitally transforming their business models.

It's important to note that IoT is a major contributor to Big Data. While not the same thing, the two are closely intertwined. In short, Big Data means “all data” in the context of an organization and its ecosystem. Systems like IoT platforms are enablers of this data, gathering, analyzing and exchanging it with smart “things” or devices. Businesses collect a massive volume and variety of data from IoT devices, but an IoT solution does not provide much business value in isolation.

The underlying value of IoT technology is that it creates opportunities for businesses to realize the untapped potential of data that resides in their existing, unconnected infrastructures. In doing so, for example, they can use data analysis for cognitive services or business-relevant automation actions to extract key insights that will improve business processes and help employees drive smarter, real-time decision making.

Old brand screenshots



How to Get Hands-on Experience?

Use a **Mobile Device**
or buy an **IoT Sensor**

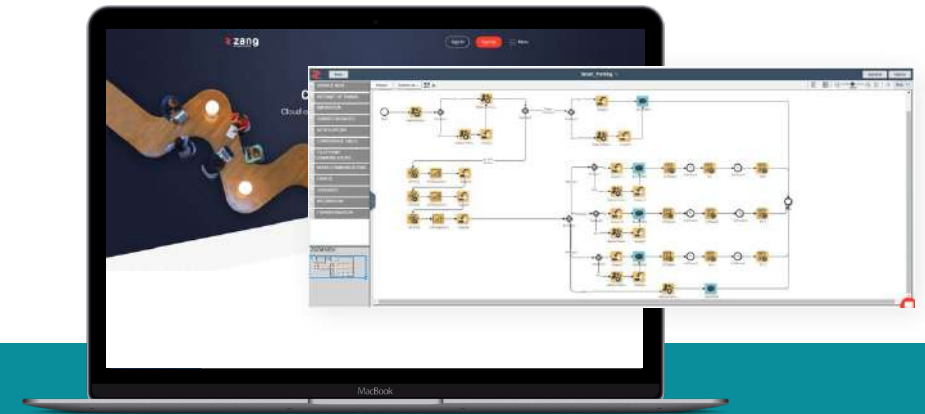
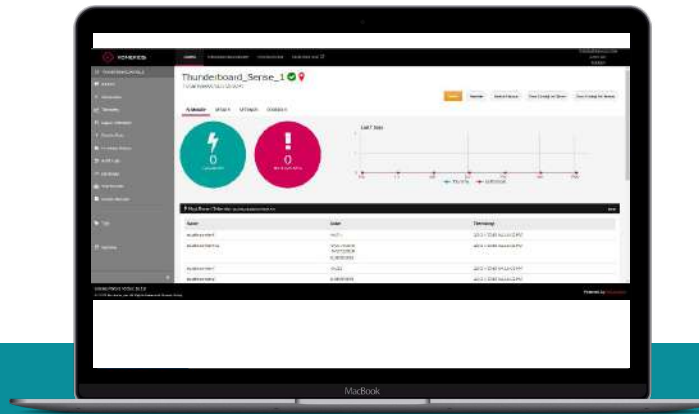
- Thunderboard React/Sense, Simba Pro, Sensor Puck
- Mobile Device can be Gateway and IoT Device

Request a
Free Konexios Trial Account

<https://portal-helios.konexios.io/> - /signupz

Install **Konexios Gateway** from
App store
(Google/Apple)

Sign up for
Avaya CPaaS
(Zang Cloud)
<https://zang.io/>



Vertical Industry Solutions

Art of the Possible



Healthcare



Hospitality



**Government &
Public Safety**



**Finance &
Insurance**



Manufacturing

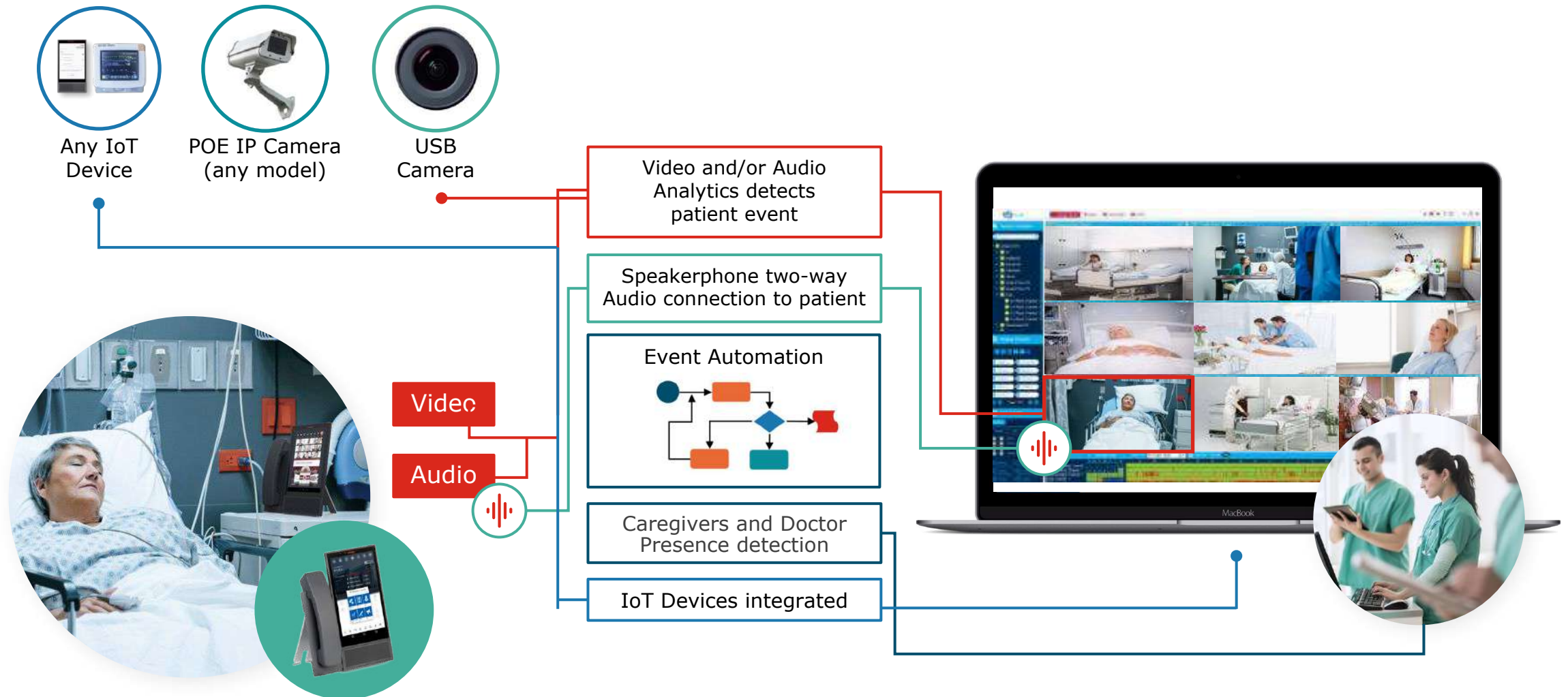
Vertical Industry Solutions

Art of the Possible



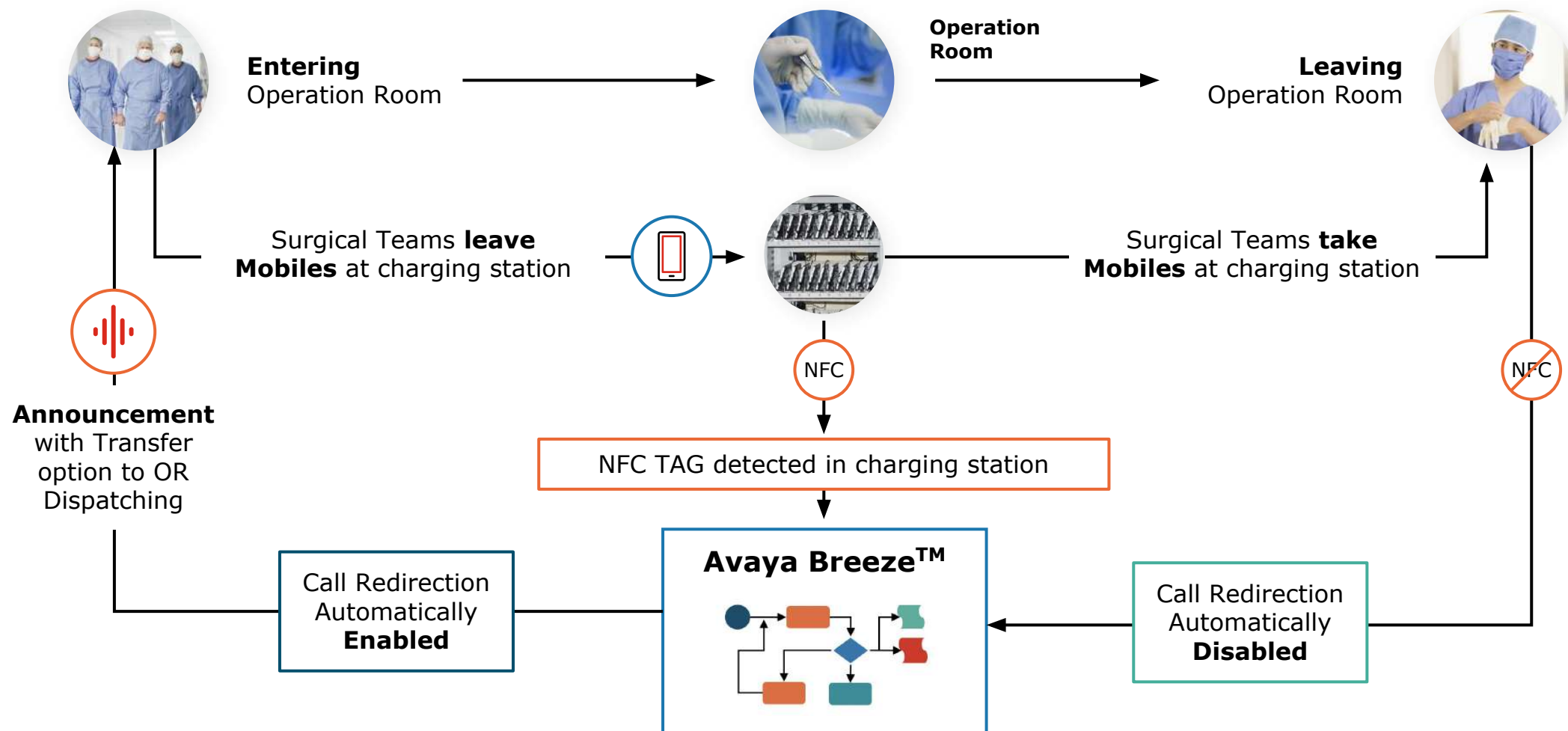
Healthcare

Healthcare Solutions – Remote Patient Monitoring



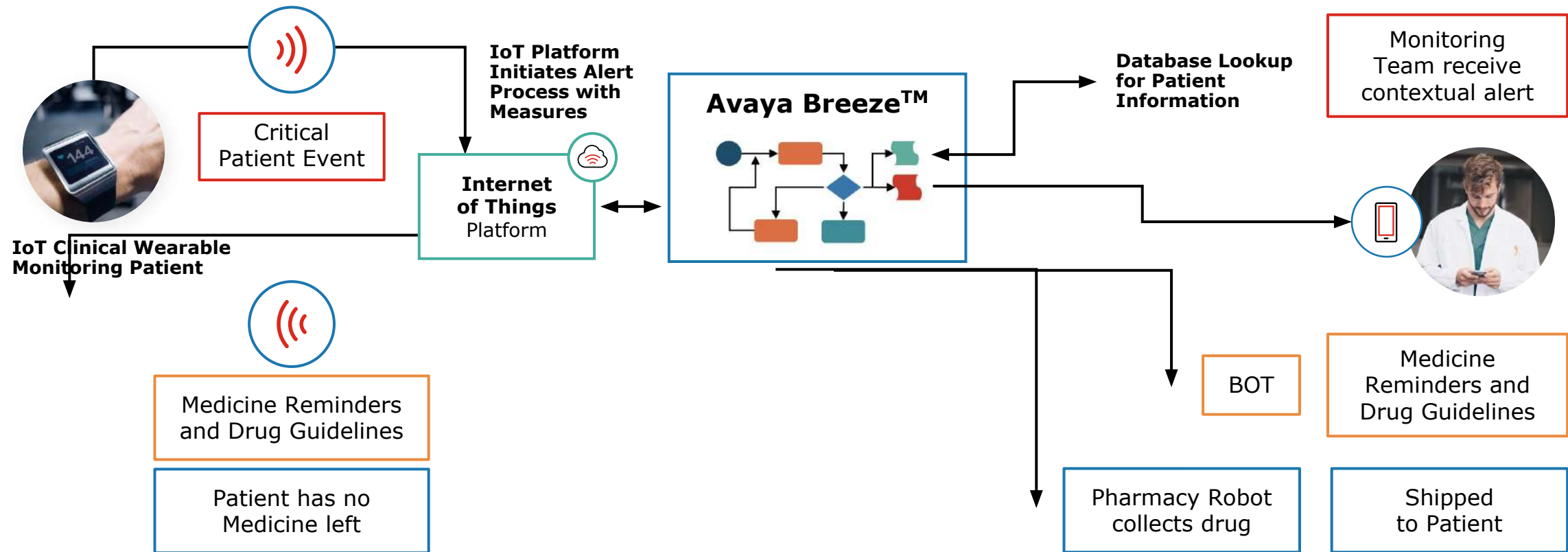
IoT Healthcare

Automation for Surgical Teams



IoT Healthcare

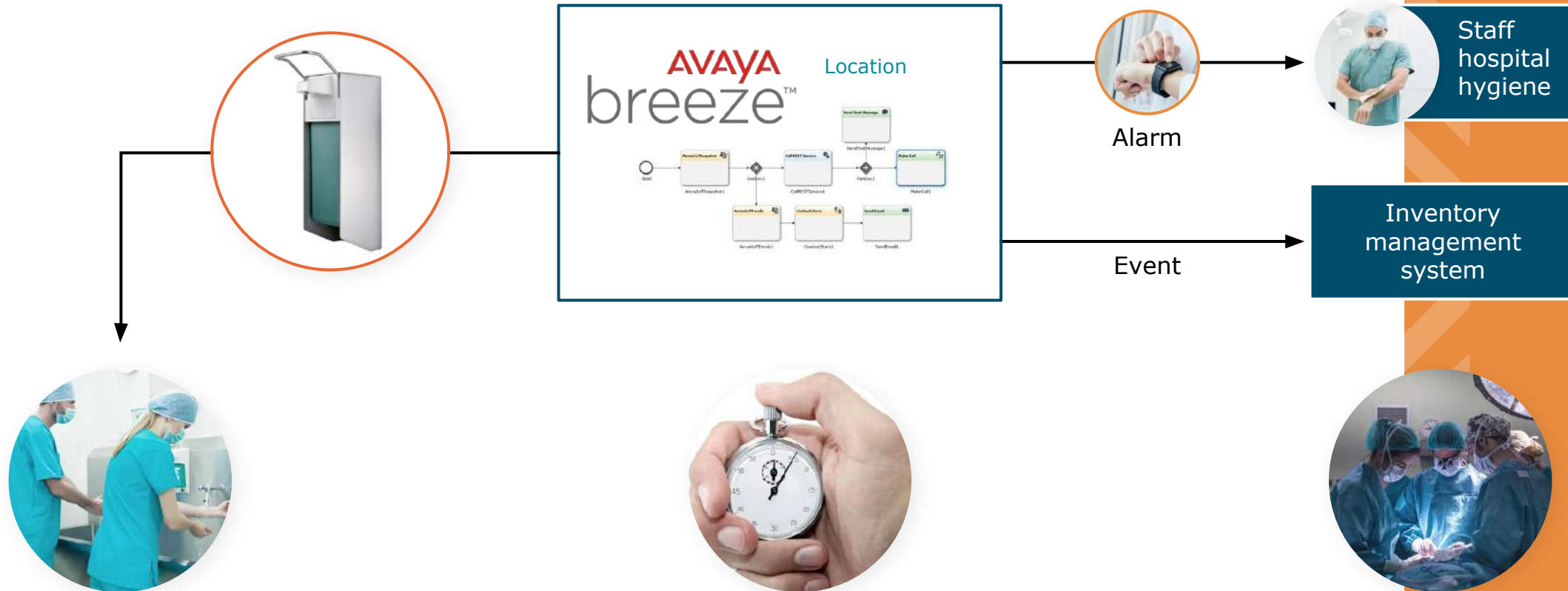
Use Real Time Information to Make Better Decisions



Relevant, Real-time Information | **Better, Faster** Decision Making | **Better** Patient Outcomes

Disinfection Dispenser Refill

Critical Event Monitoring



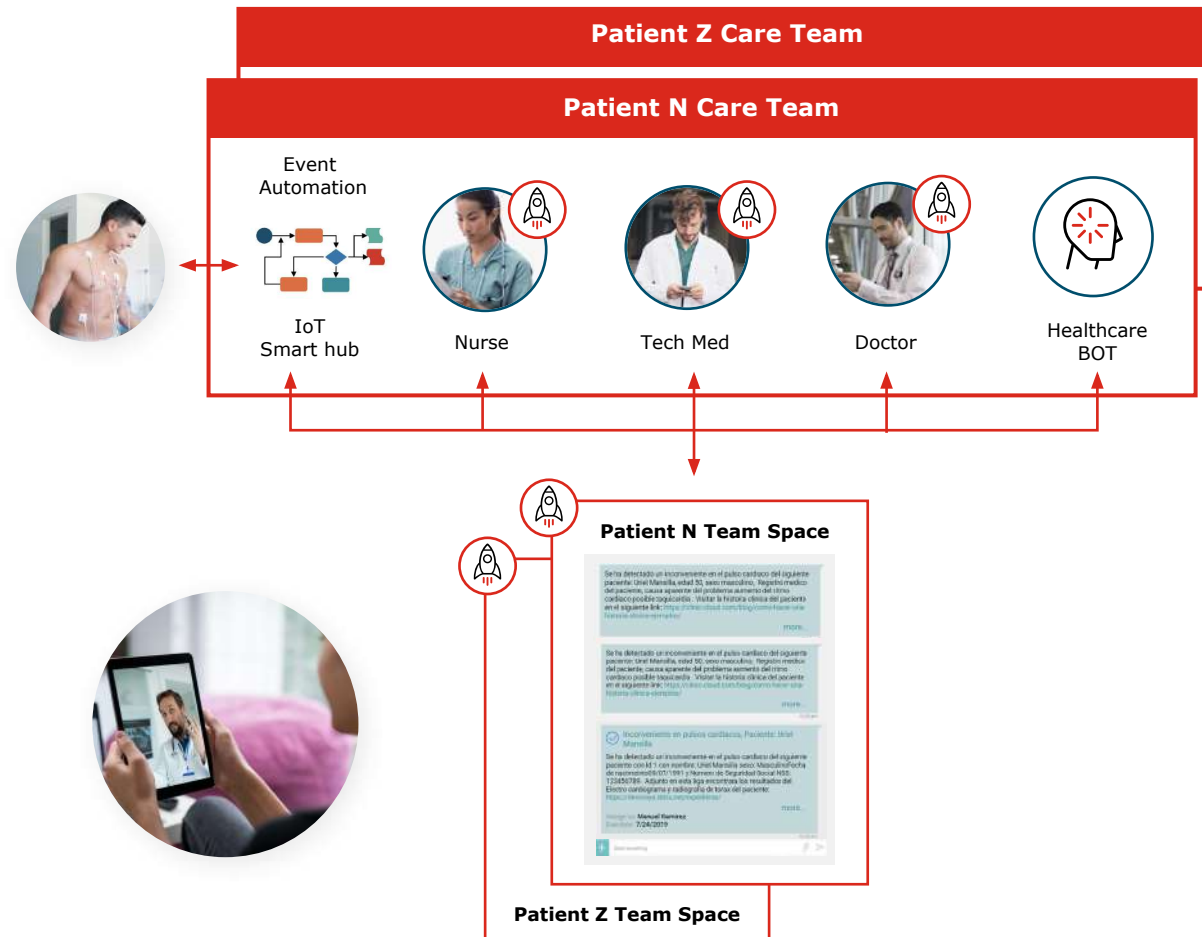
Use Case: Smart Health Care Team Space

SOLUTION

- At time of admitting a patient into the hospital, a virtual patient space is assigned
- The healthcare team and patient room is added to the Space
- Patient vital signals are monitored
- Information is sent into the Space and visible thru the mobile device, anywhere, anytime
- Bot supports the healthcare team

BENEFITS

- Patients care improvement
- Tools for healthcare team at hand
- Lower costs of operation



- Sensors attached to patient body send data to Avaya Automation Platform** which determine if vital signal thresholds are exceeded
- A task is posted** into the respective Patient Space
- Medical team real time collaboration**
- Medical questions and requests are raised to BOT**
- Team can control patient room equipment**, changing the ambient conditions, stopping, accelerating or slowing the fed of certain medicines
- Doctor can open tasks to be completed** by other members within certain period

Vertical Industry Solutions

Art of the Possible



**Government &
Public Safety**



**Finance &
Insurance**

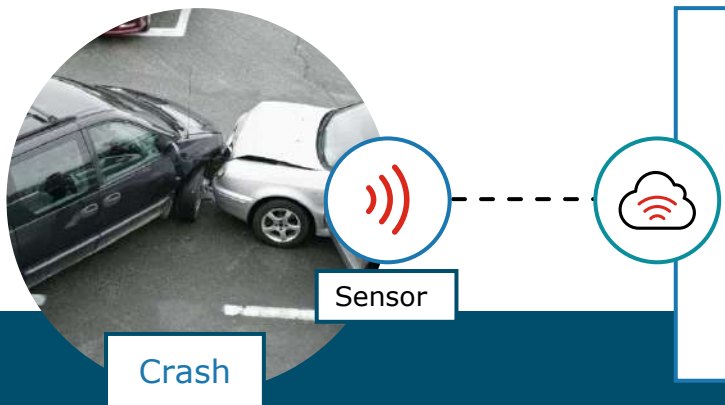
Connected Vehicles – eCall

Improving the Most Critical Service

In the case of a **car accident**,
eCall automatically triggers
a call to the Emergency service

Contextual Insight –
Transmitting data („MSD“ Minimum
Set of Data) in-band of the voice
call using a modem

Breeze is creating an **eCall specific
call flow** and extracts/delivers
MSDN information before presenting
the call to the call taker



MSD

Minimum Set of Data (140 byte)

- Location: GPS latitude /longitude
- Activation: manually / automatically
- Call type: real emergency / test call
- VIN: Vehicle identification number
- ...
- ...

Public Safety Answering Point



Avaya Breeze™

eCall
Snap-In

eCall SW
Modem (Oecon)



6...10 s

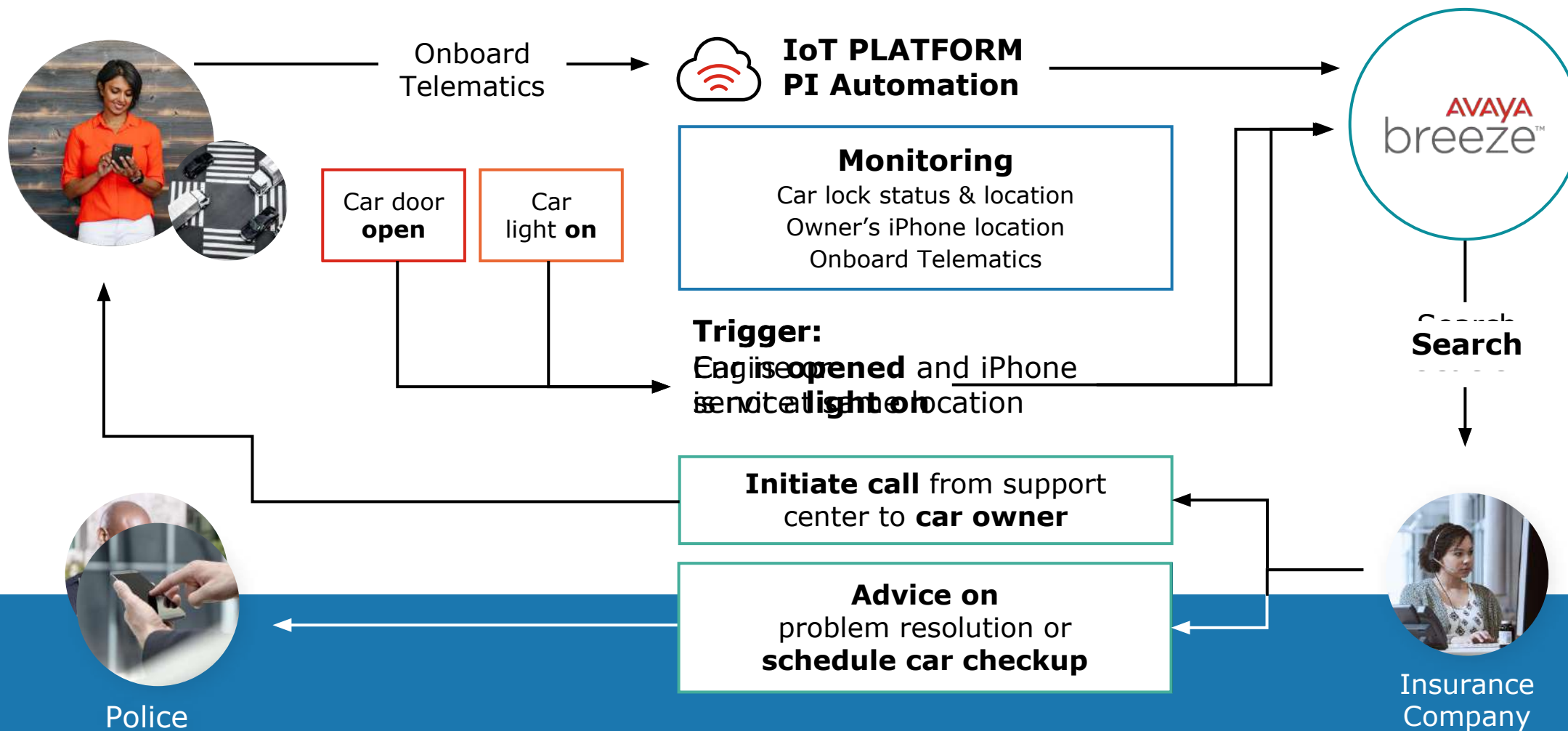
modem
MSD
transmission

voice
call

tim
e

Insurance - Connected Vehicles

Extended Services & Customer Loyalty



Drones Become Active Team Members

Communication and Collaboration



Communication



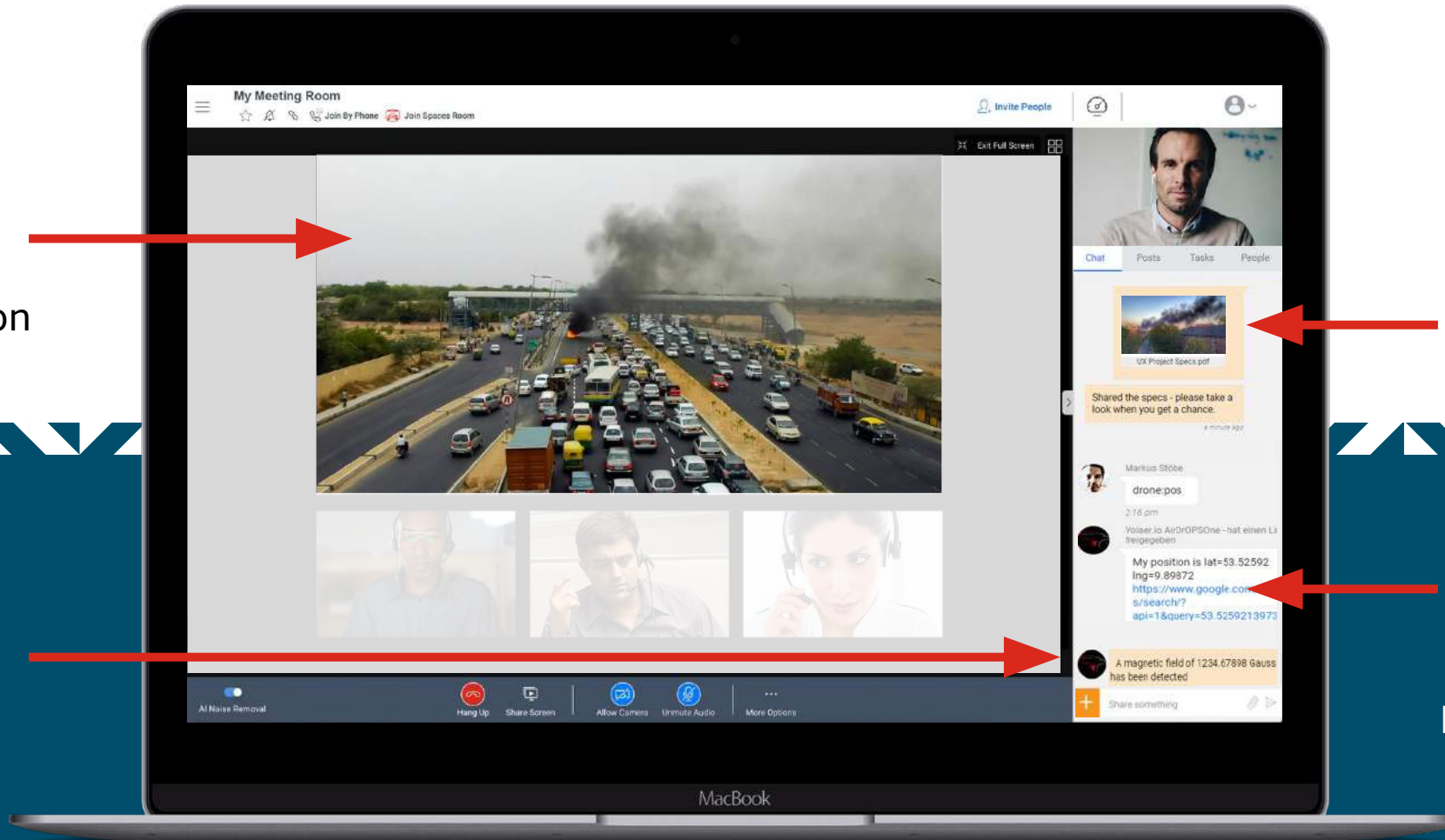
Collaboration



Context

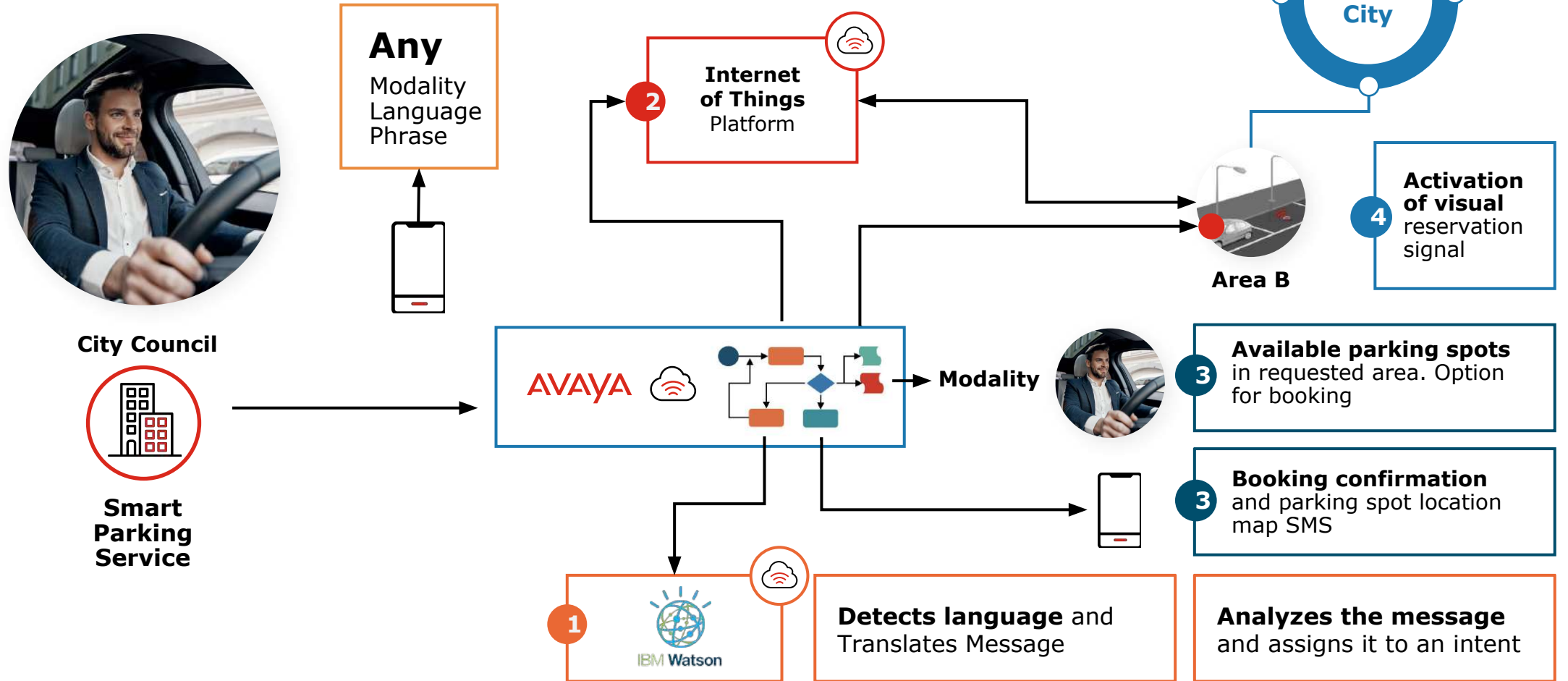


Drone Chat Bot



Smart Parking

Save on Time, Fuel Costs and Emissions



"Watson" is the trademark of IBM or its affiliates in the United States and/or other countries

Smart Parking – Automated Workflow

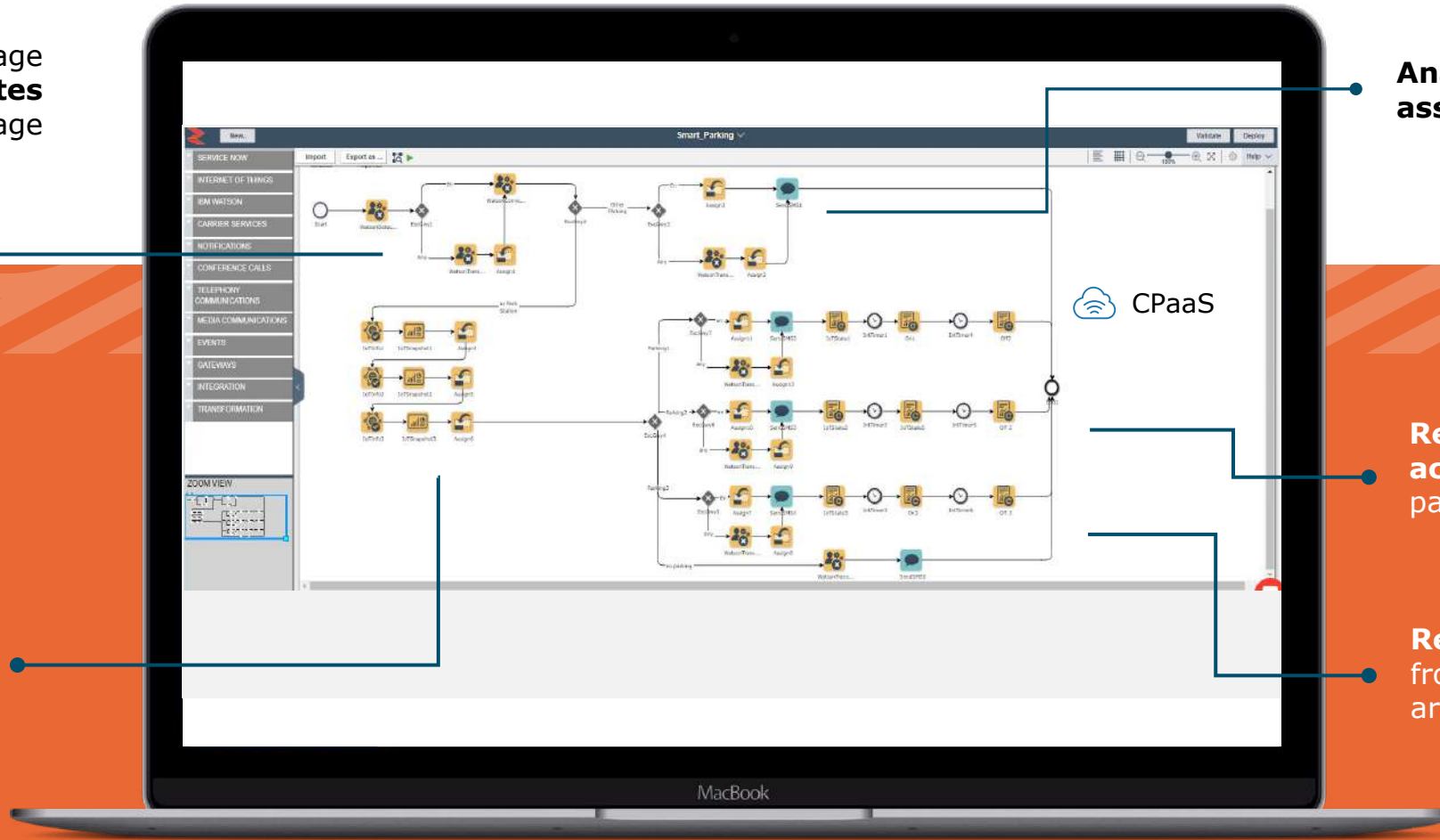
Avaya Communications Platform-as-a-Service (CPaaS)

Detects language and **translates** message

Analyzes the message and **assigns** it to an intent



Requests sensor info from all parking spaces around the station

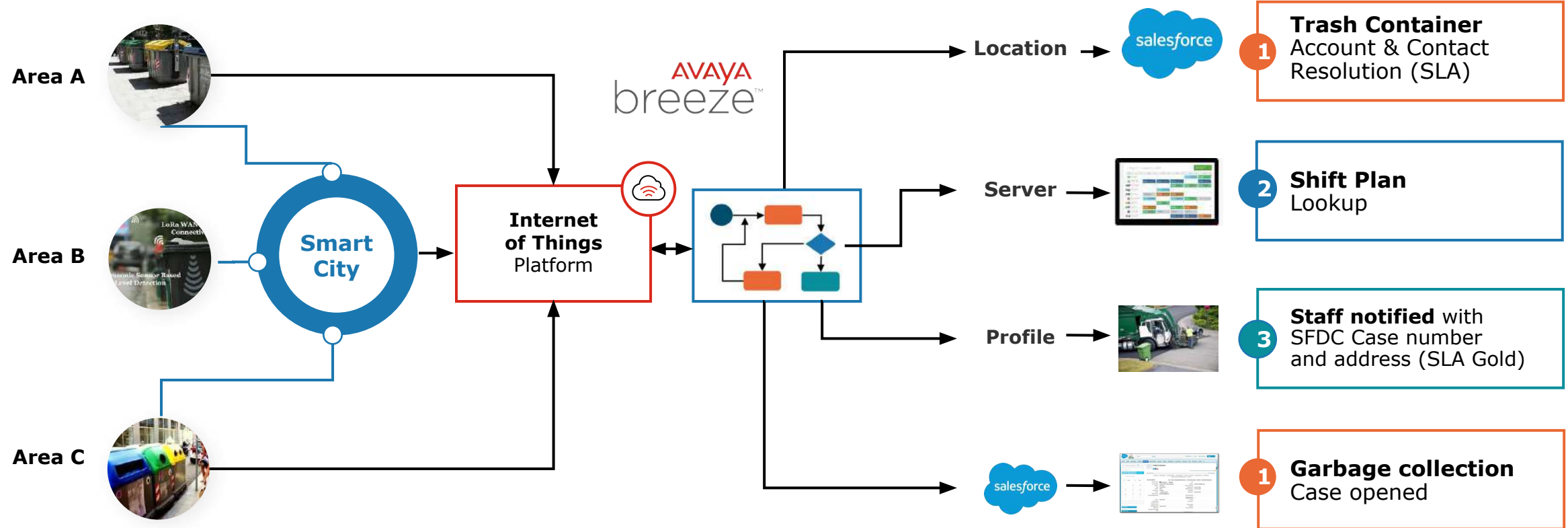


Reservation signage activated at booked parking space

Requests sensor info from all parking spaces around the station

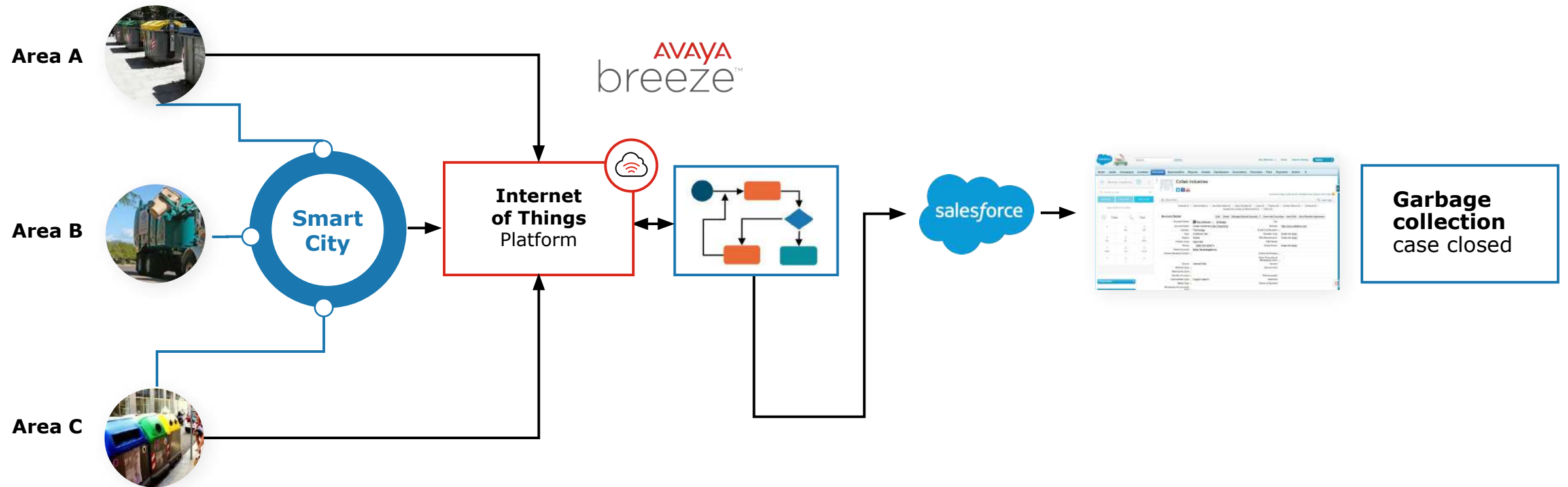
Smart Cities - Waste Management

Situational Awareness for Faster Response Time



Smart Cities - Waste Management

Situational Awareness for Faster Response Time



Waste Management – Automated Workflow

Avaya Breeze

Salesforce contact resolution

Create Salesforce case

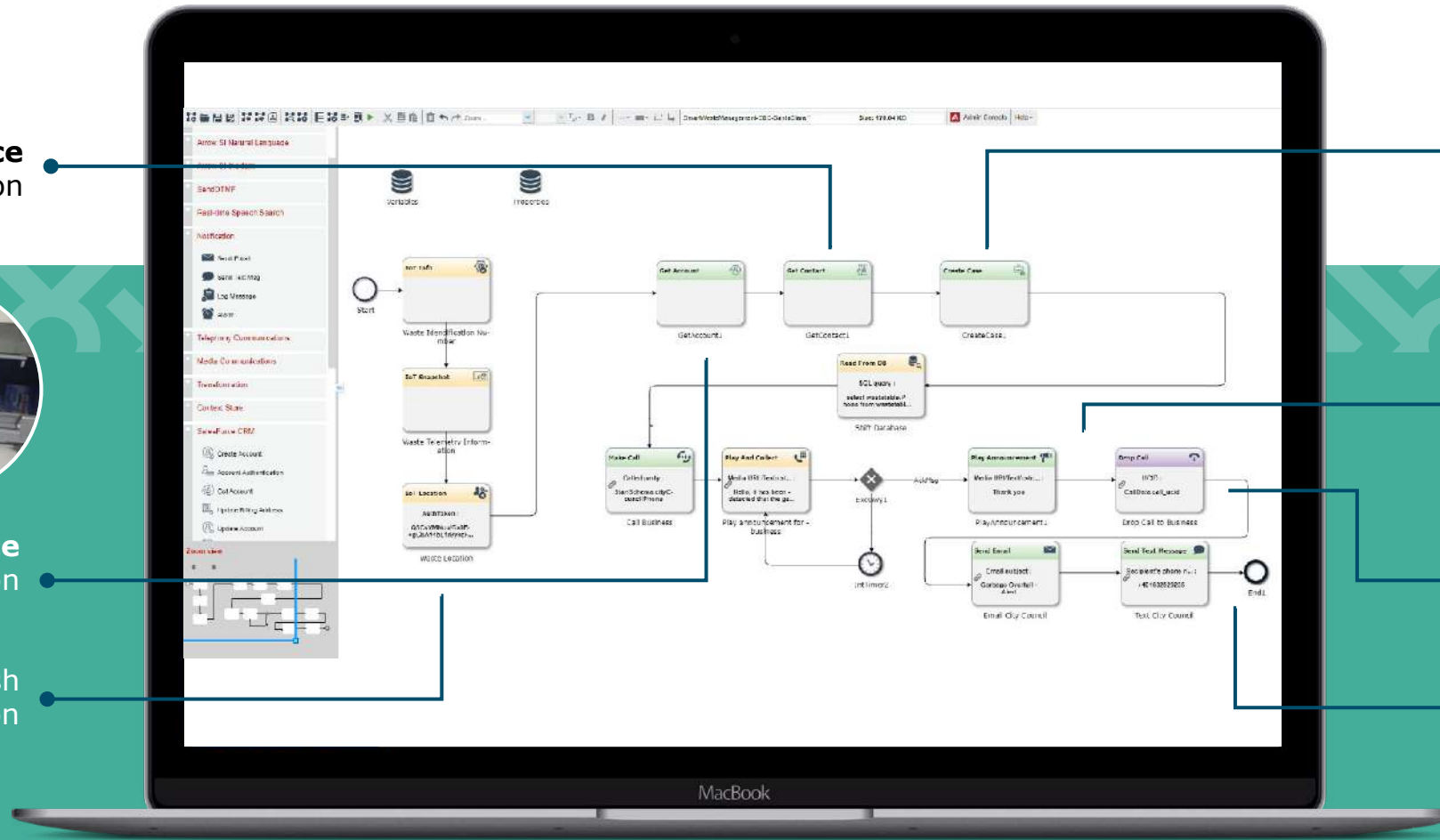
Shift plan database lookup

Staff notification of new case with SLA

Text message with case and location

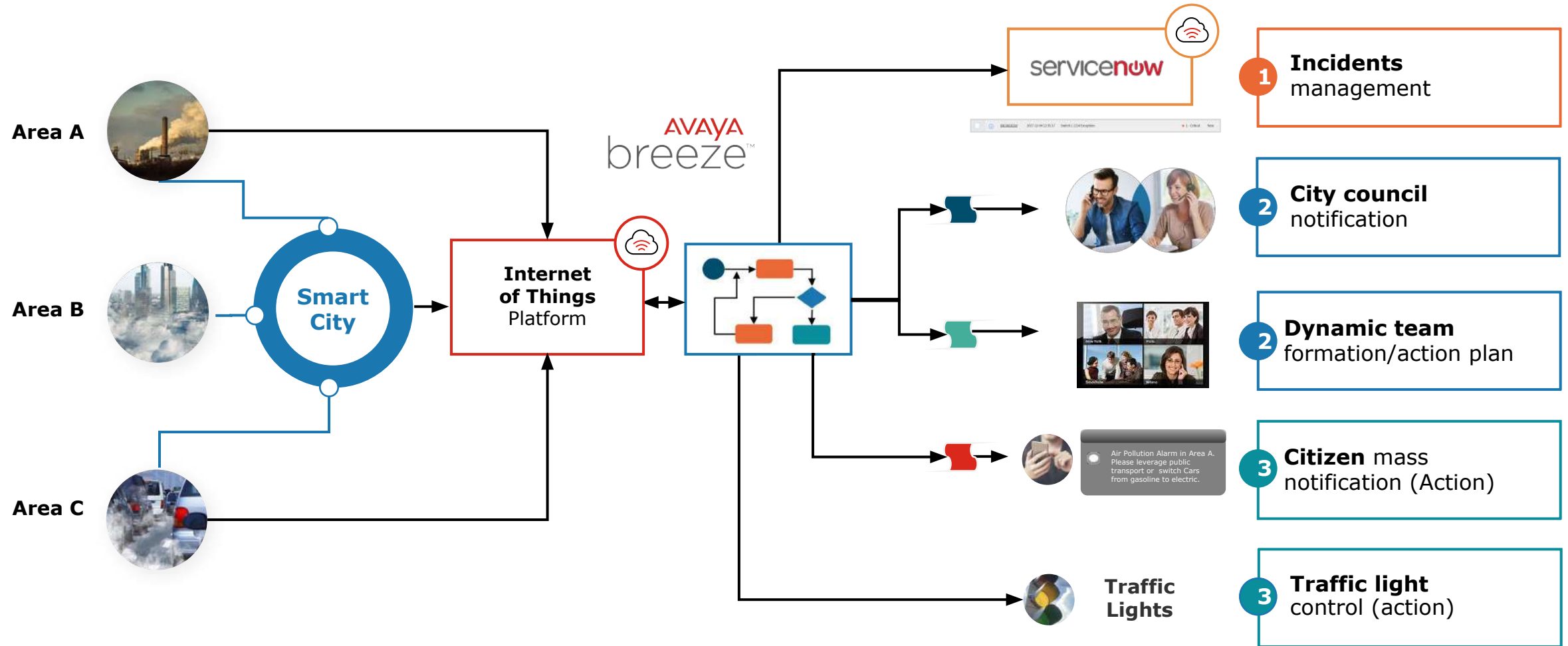
Salesforce Account resolution

Requesting trash level and location



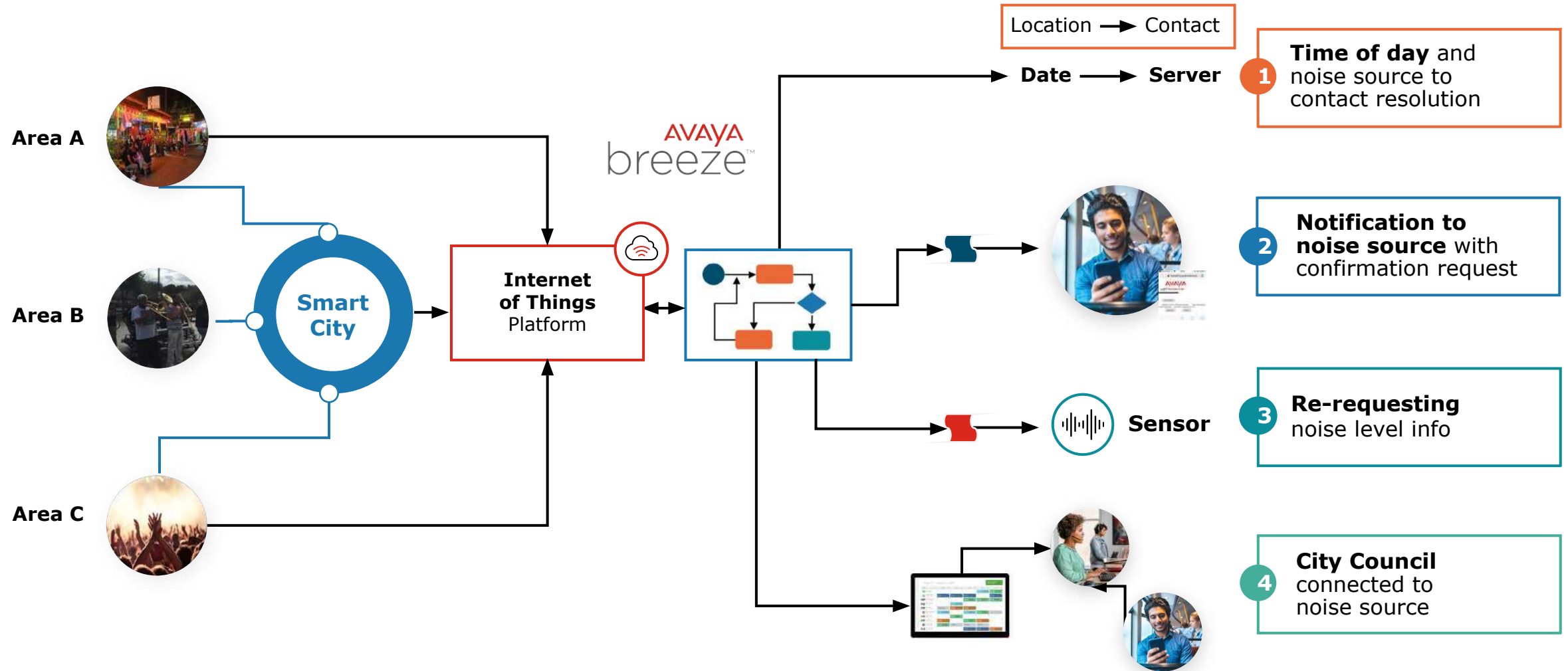
Smart Cities – Air Pollution

Situational Awareness for Faster Response Time



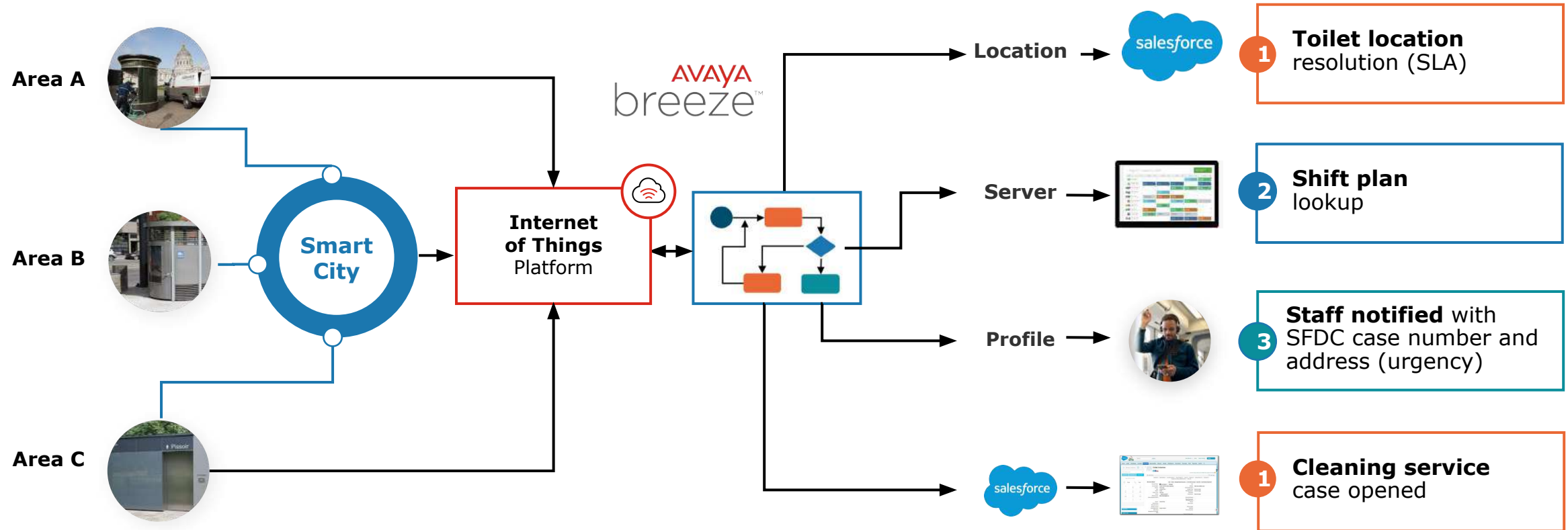
Smart Cities – Urban Noise Monitoring

Situational Awareness for Faster Response Time



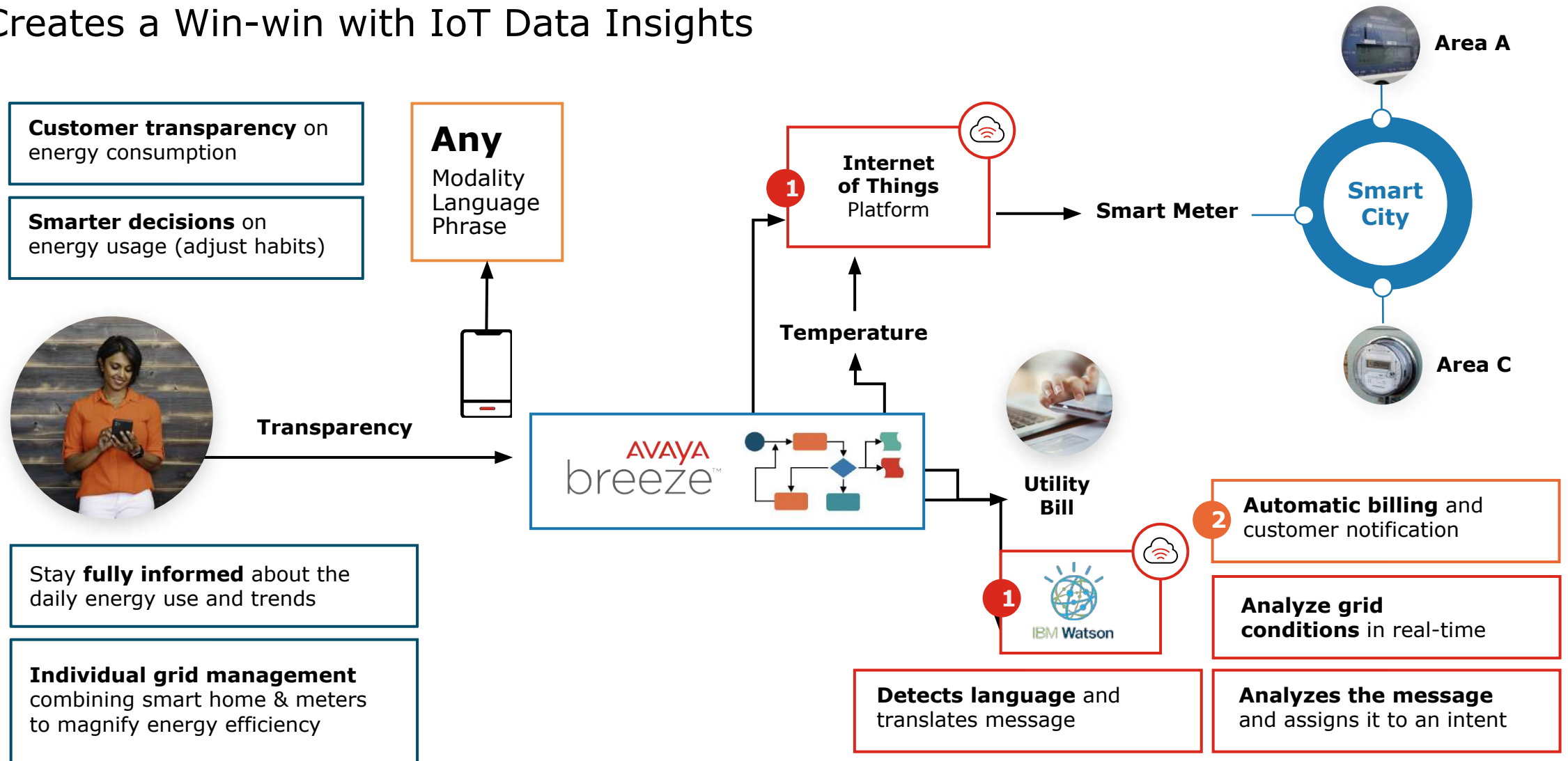
Smart Cities - On-demand Cleaning Services

Situational Awareness for Faster Response Time



Smart Cities - Smart Metering

Creates a Win-win with IoT Data Insights



Vertical Industry Solutions

Art of the Possible



Manufacturing

IoT Manufacturing with PLC System

Connects Machines with Humans & Shop Floor with IT



**B&R Siemens
Rockwell..**
Programmable
Logic Controller

Analytics	Big Data
Microsoft Azure	IBM Bluemix
Predictive Maintenance	Trend
PREDIX	amazon web services

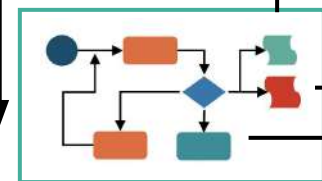
MQTT

REST

REST

IoT Gateway
Filter & Funnel

AVAYA



Service Management

servicenow



**Shift &
Supplier Plan**

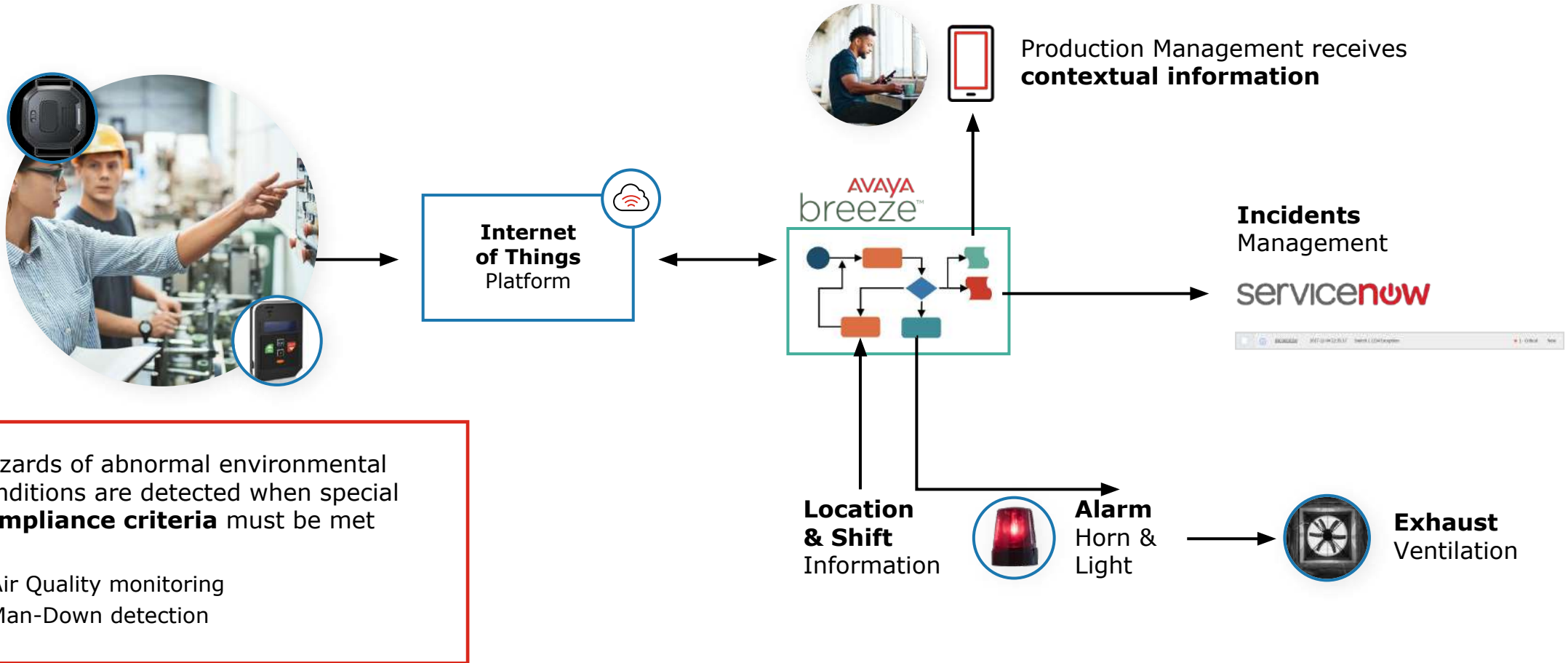
**Problem
Resolution**

**Logistic
Process**



IoT Manufacturing

Real Time Information for Better and Faster Reactions





Avaya provides the ability to seamlessly enable **IoT ecosystems** to communicate with any user or device **with the right information, in the right place at the right time."**



Experiences
That Matter

www.avaya.com