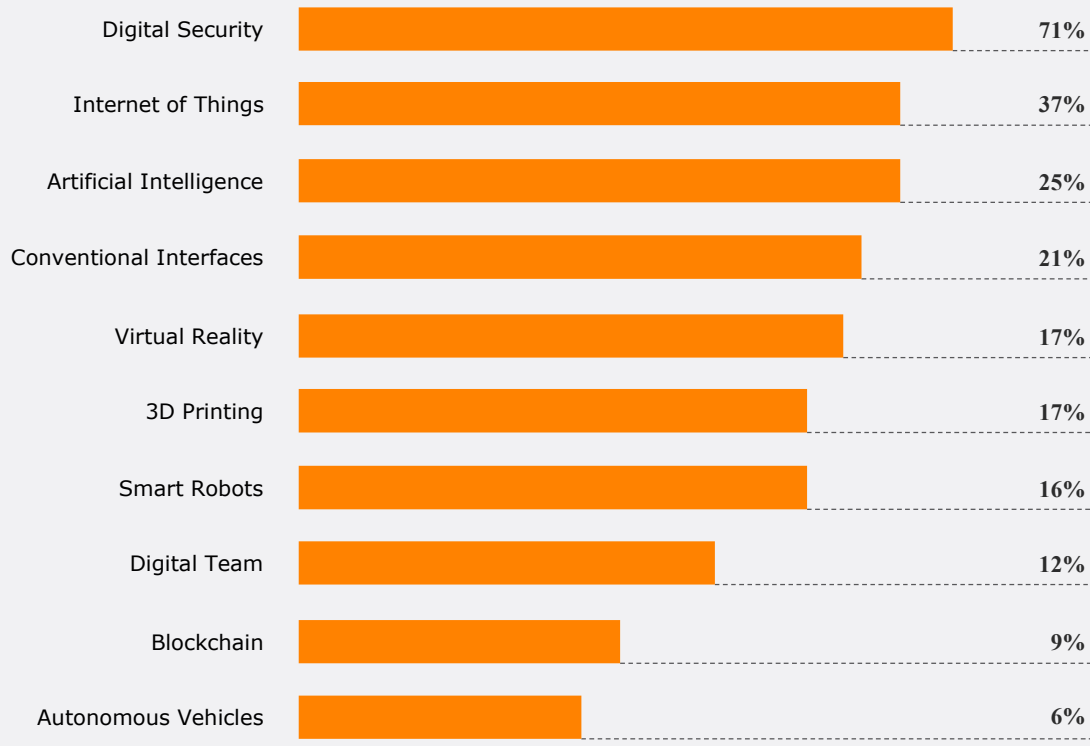




Avaya IoT

Digital Transformation is Accelerating

Disruptive Technology Adoption is Increasing

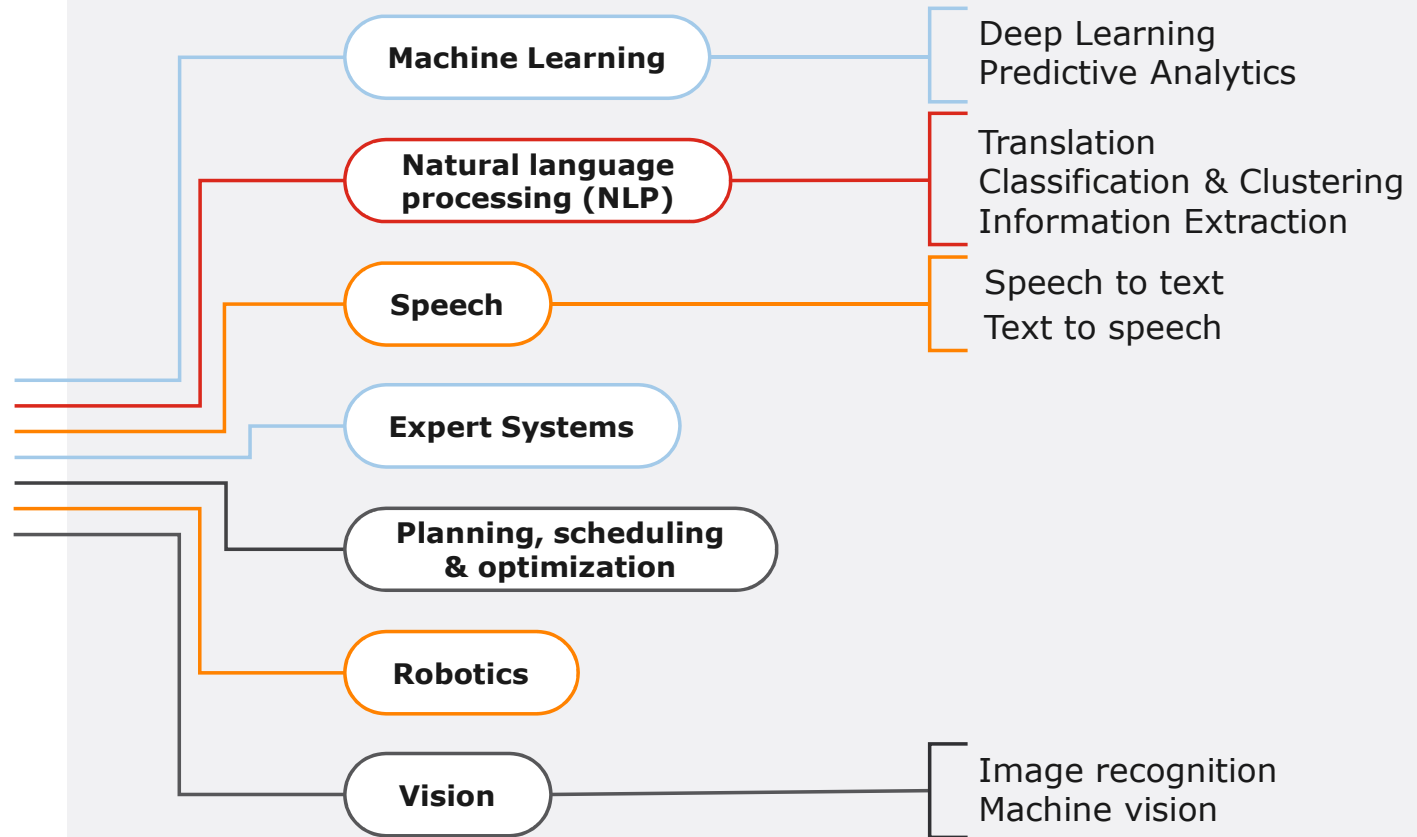


PREDICTS

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



Artificial Intelligence (AI)

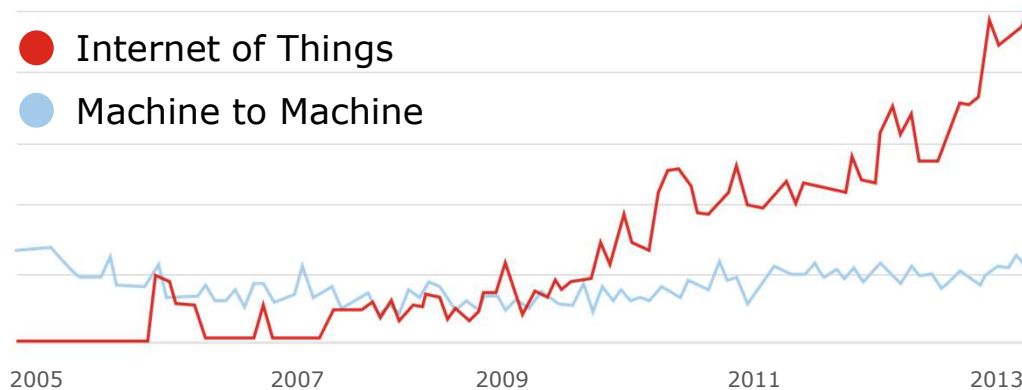


Gartner predicts that by 2020, customers will manage 85% of their relationships with the enterprise without interacting with a Human

IoT with Ecosystem

Trends

- Internet of Things
- Machine to Machine



IoT is about interconnecting devices with systems

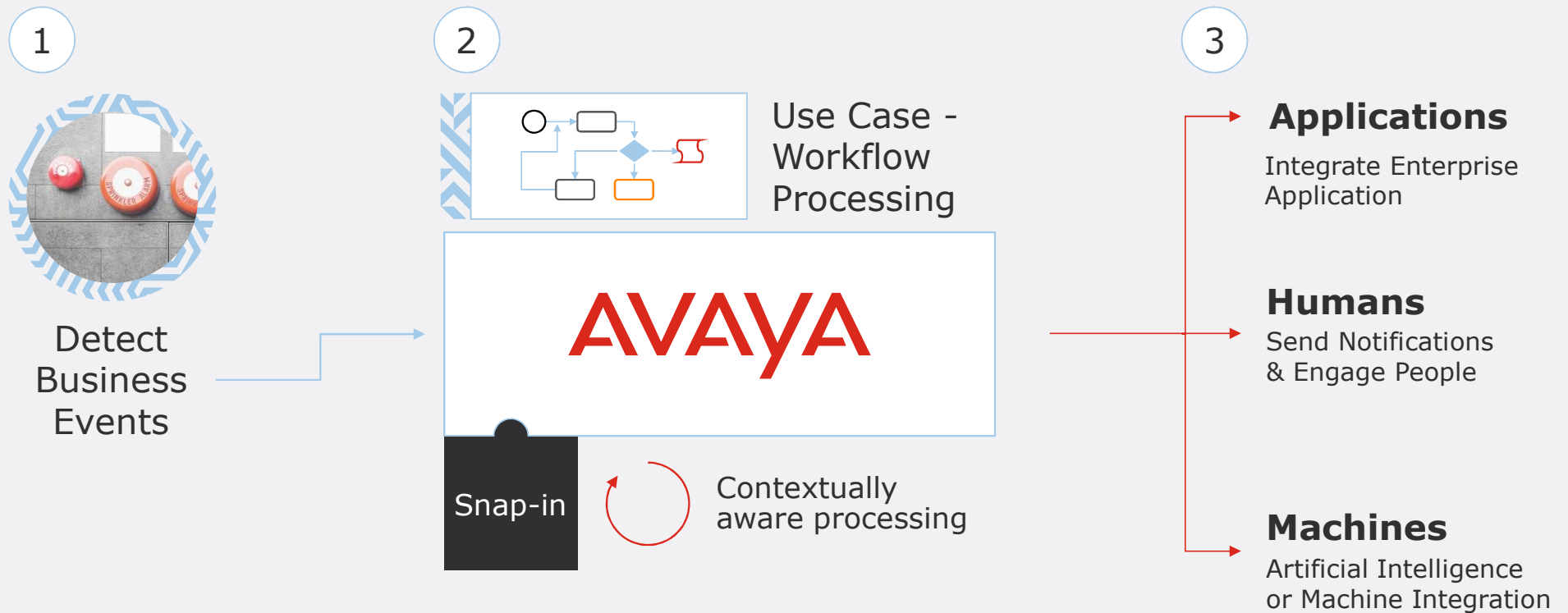
The IoT Platform as enabler, **gathering** and **analyzing** the data

Real value will come applying the resulting insights to **create great IoT services**

e.g. predictive maintenance, proactive customer engagement or advanced analytical insights

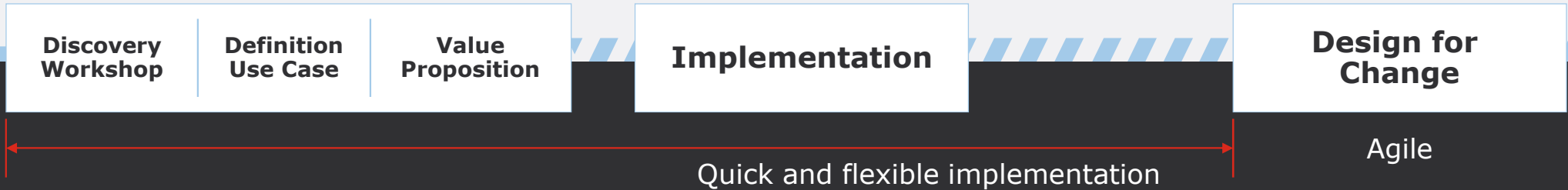
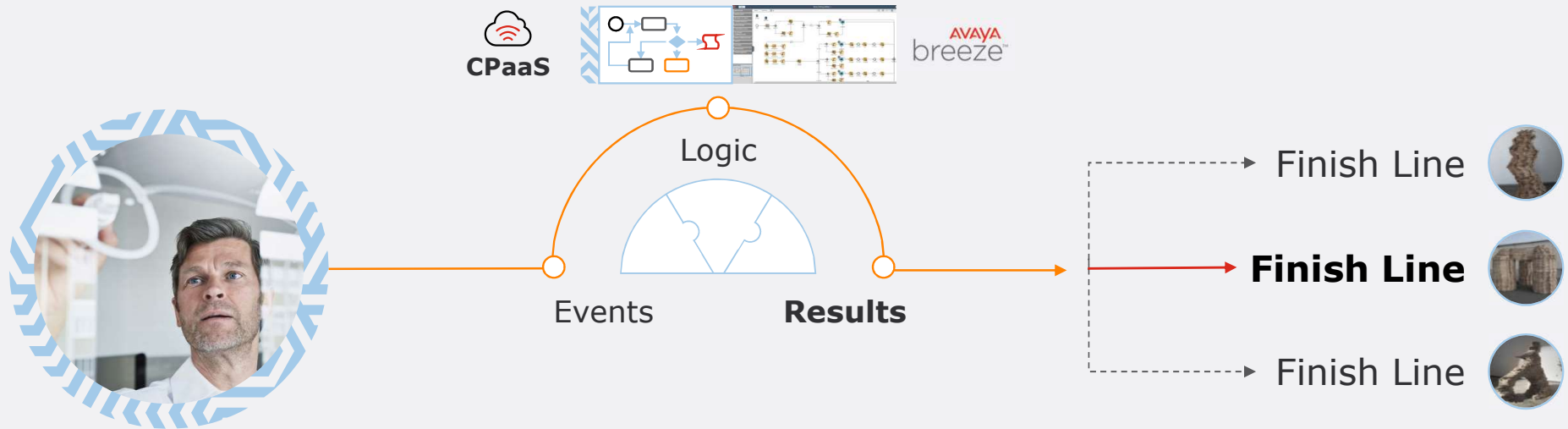
Enabler for new compelling Use Cases across key Verticals

“If This Then That” 2.0 For Enterprise



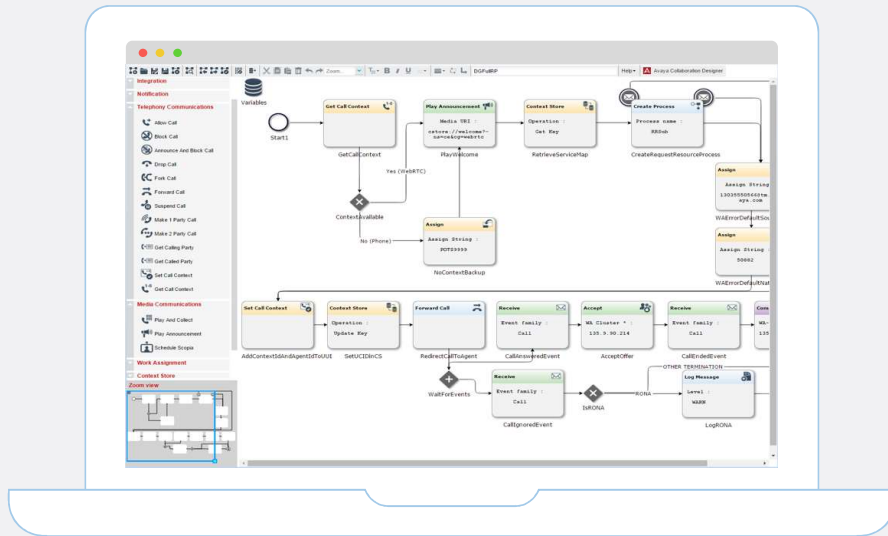
Service Automation & Orchestration

Open & Agile by Default



Create and Customize Workflows

Avaya Engagement Designer



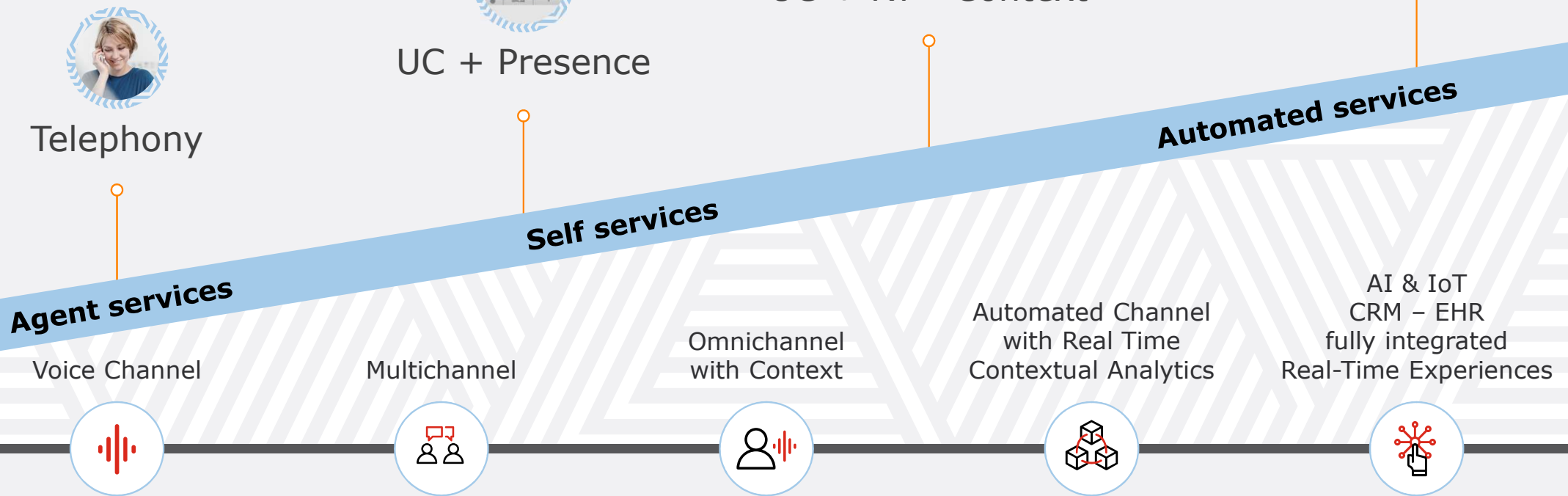
Browser based visual designer for workflow design and automation

- 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
- **Visually** model, tailor and customize workflows

Simplify creation and control over Business Processes

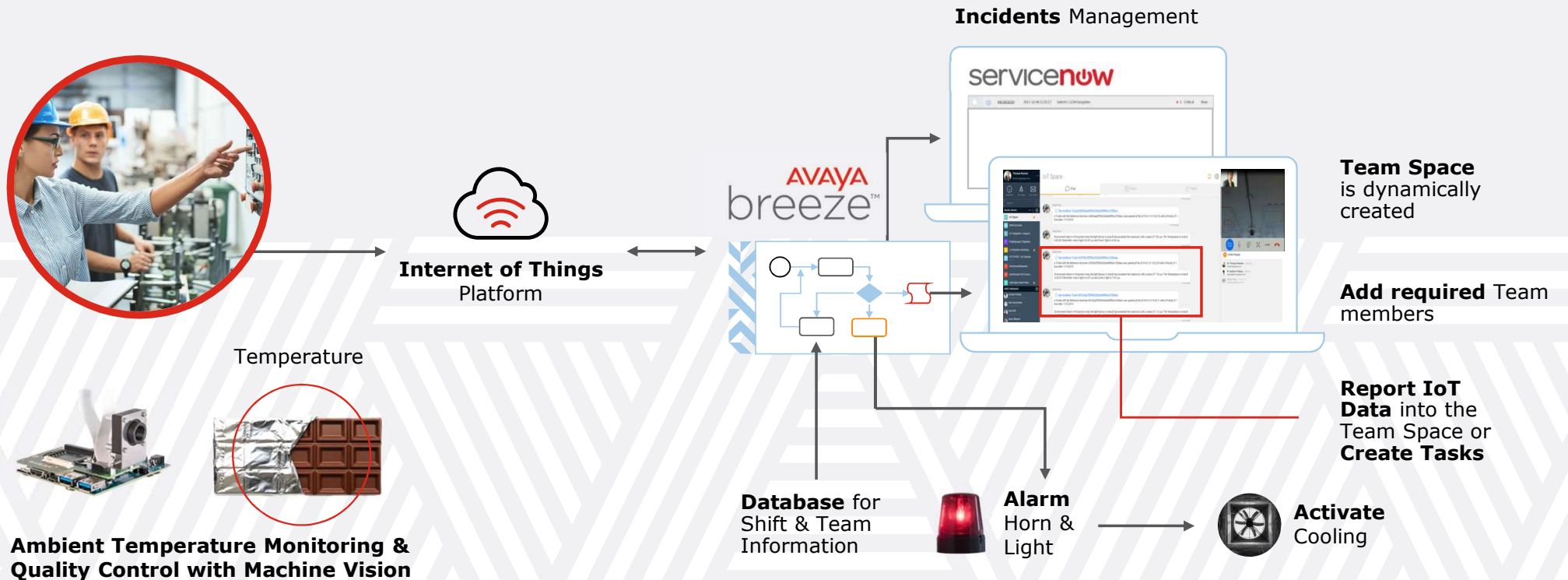
Modality of Interactions

UC Evolution



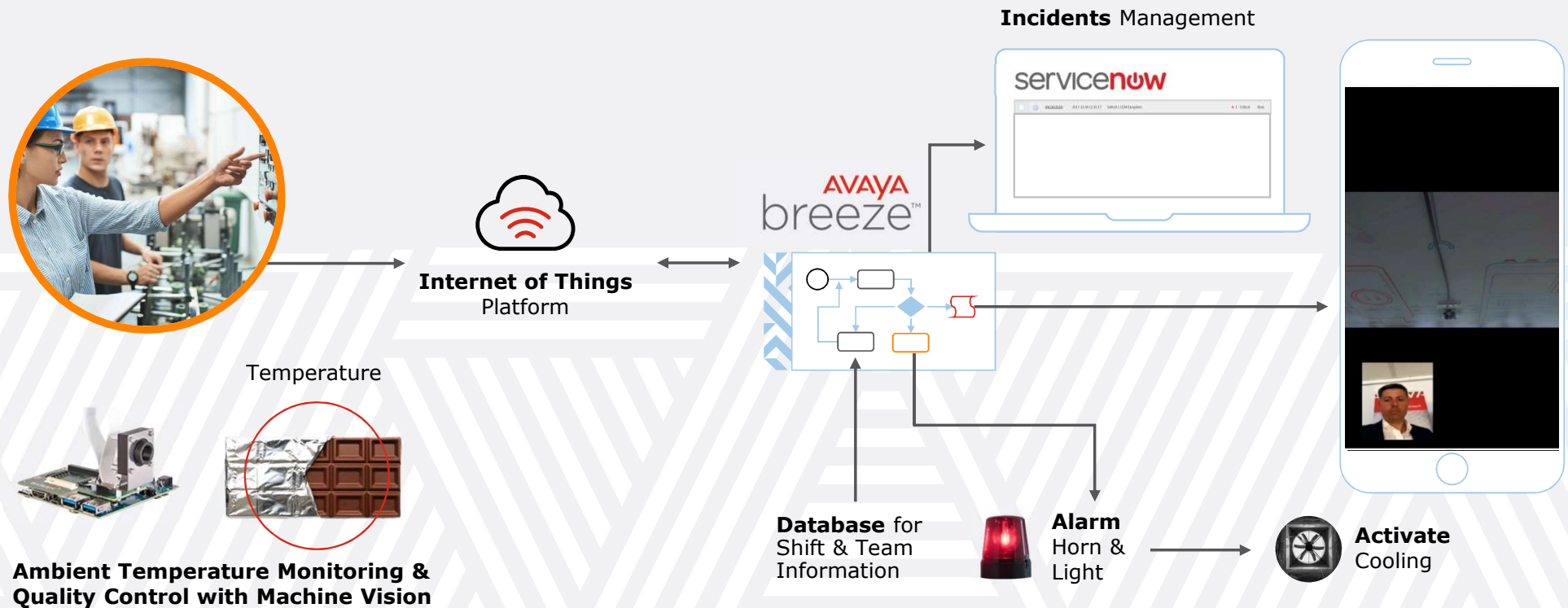
IoT & Collaboration

Real Time Information for Better and Faster Reactions



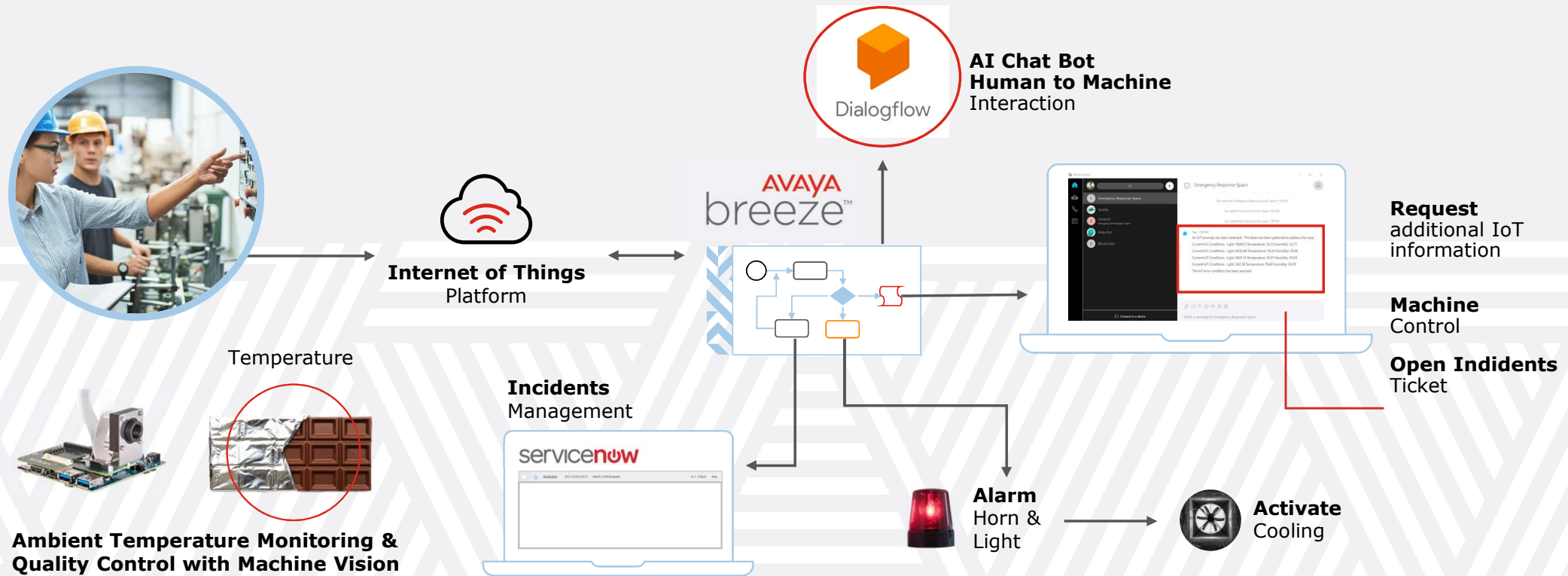
IoT & Mobile Collaboration

Real Time Information for Better and Faster Reactions

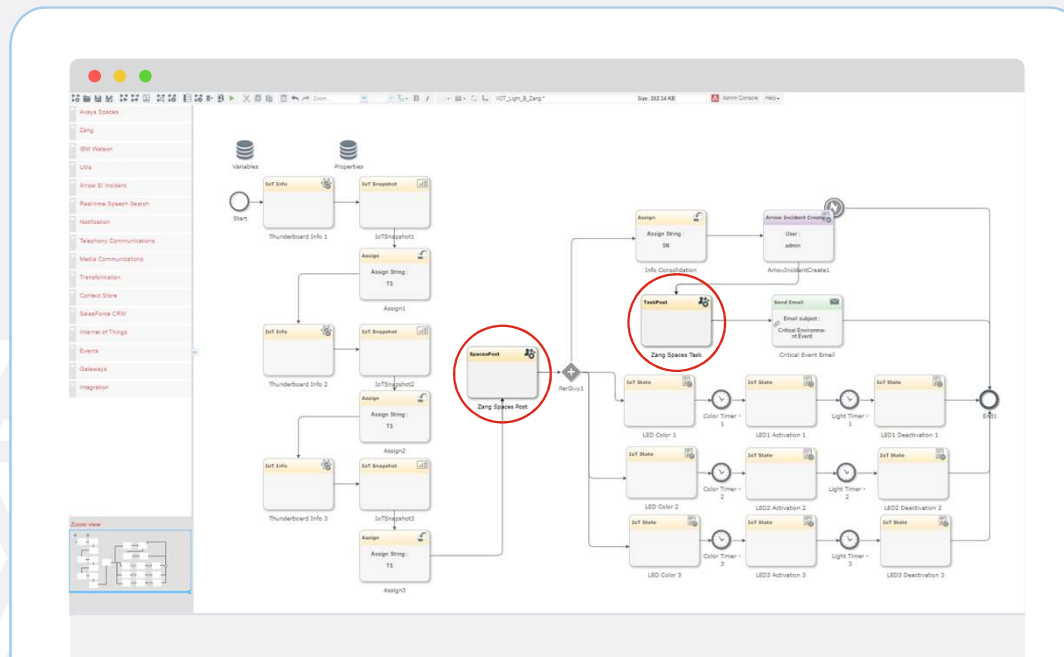


IoT & Mobile Collaboration

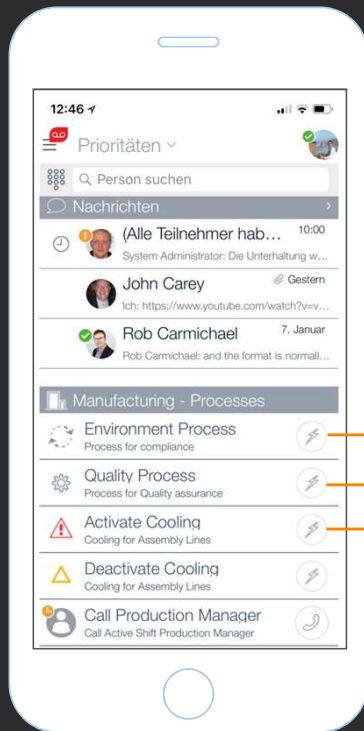
Real Time Information for Better and Faster Reactions



Avaya Engagement Designer



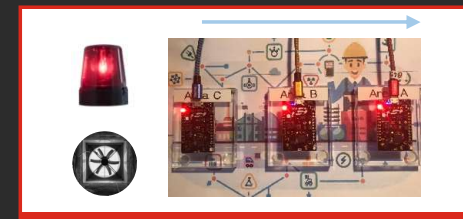
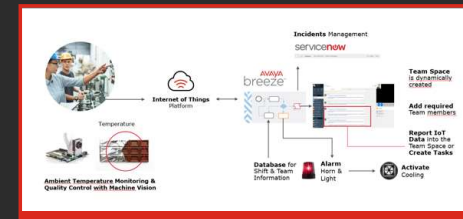
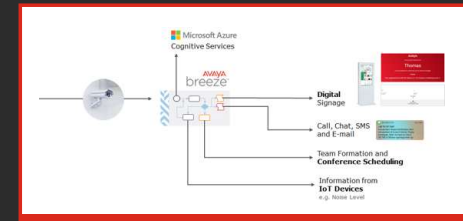
Avaya Apps & API Cloud (OneCloud CPaaS)



Triggered
**Environment
Exception Process**

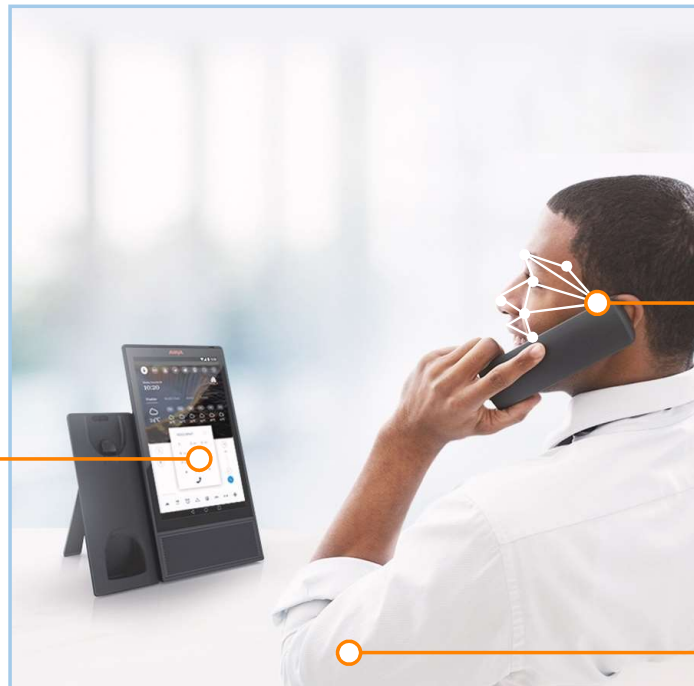
Triggered **Quality
Assurance Process**

Manually Activated
Machine Task



Smart Solution with Vantage

- Voice Control**
- Room Statistics**
- Ambient Preferences & Control**
 - Appliances ○
 - Lights ○
 - Thermostat ○



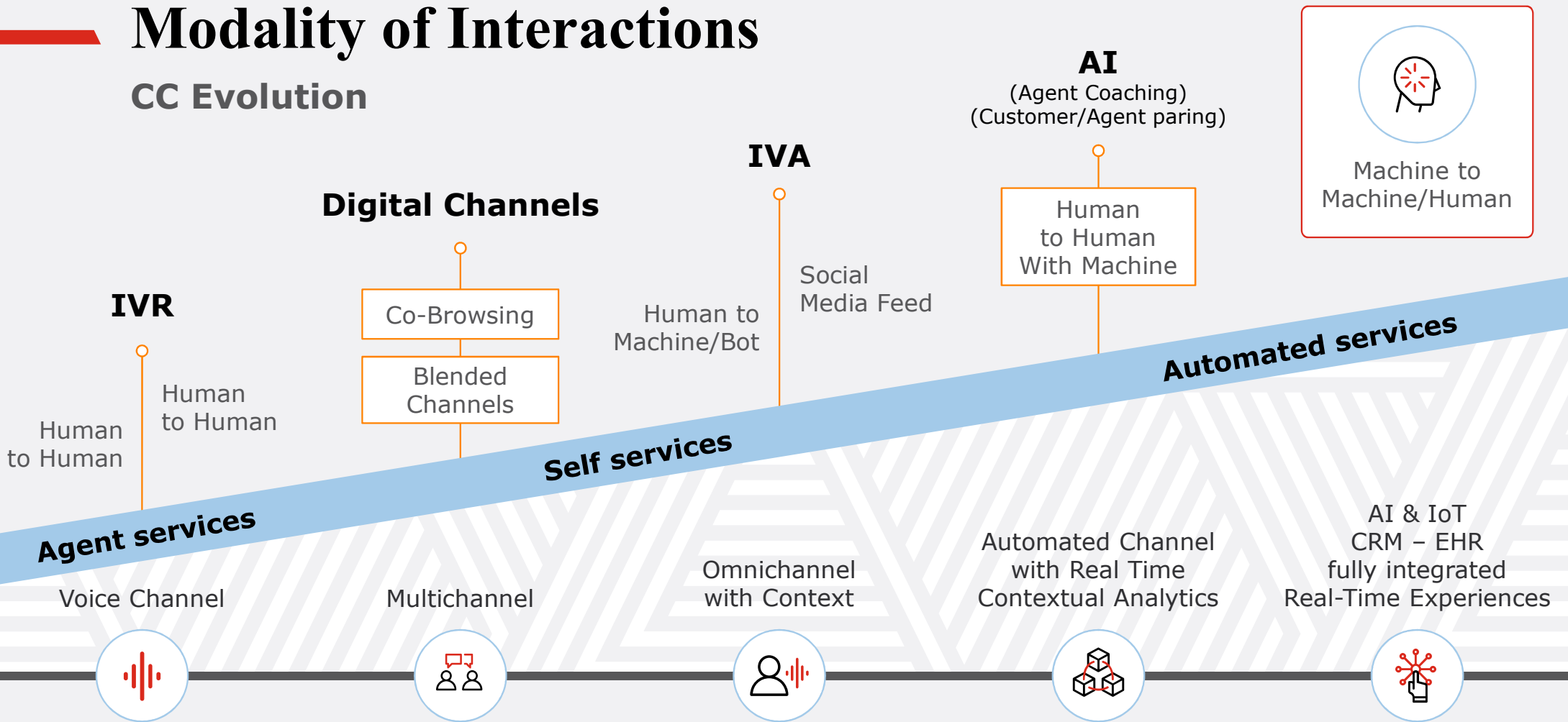
- Face Recognition & Room Surveillance**

- Detect Human Presence**

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

Modality of Interactions

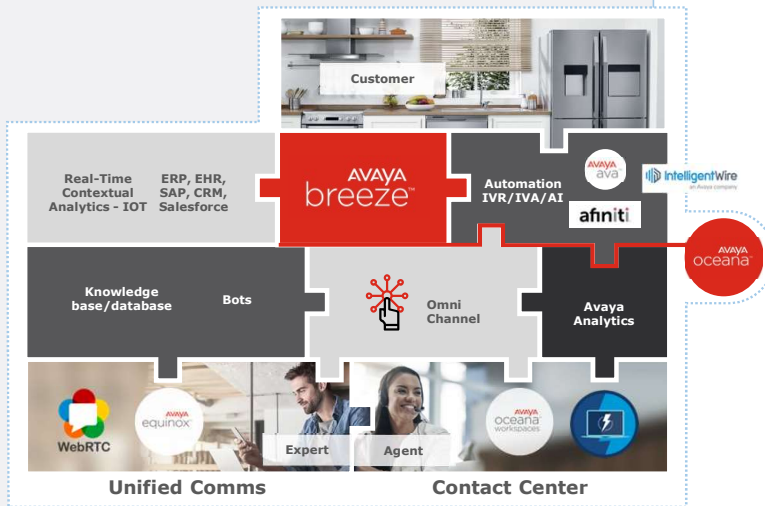
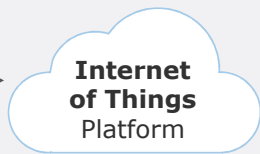
CC Evolution



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

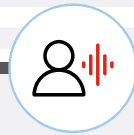
Customer dialog transcribed and made available to **CRM** Application

Modality of Interactions

A Significant Change

Today – start digitally and then consume voice channels...

The past – start with voice to use digital content



Connections



Intelligent Connections

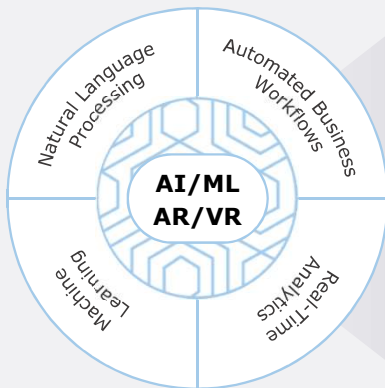


Digital Framework

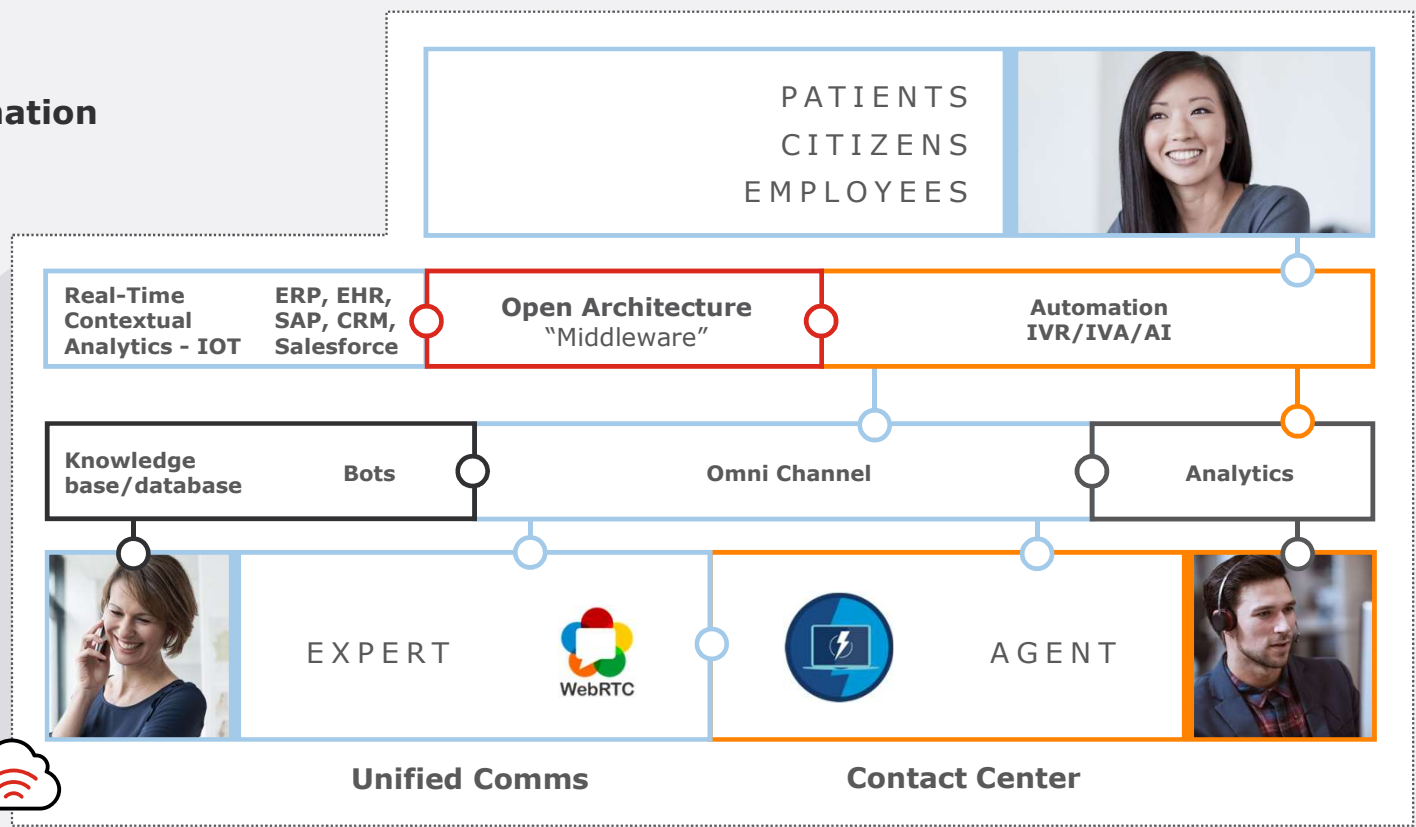
An Ecosystem is Required

Convergence of Mobile UC & CC + Open + Automation

Next best action
 Customer – agent selection
 Segmentation
 Voicebots, chatbots



ANY





Avaya & IoT

Smart Communications for Smart Solutions



Delivers Intelligent Outcomes

**Contextual
Aware Processing**

Actionable
IoT Data

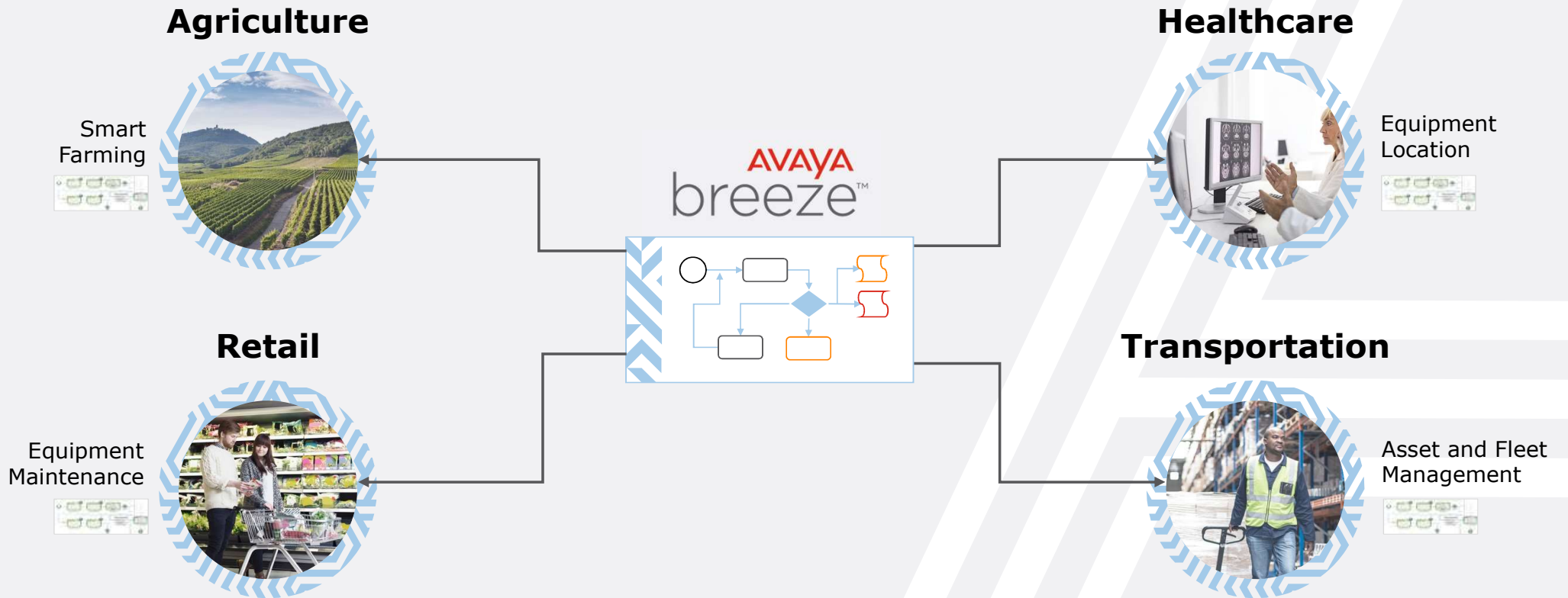
Agile **Workflow
Automation**

Open Ecosystem for
Smart Communication

Seamless and contextual connections between machines, humans and Line-of-business applications

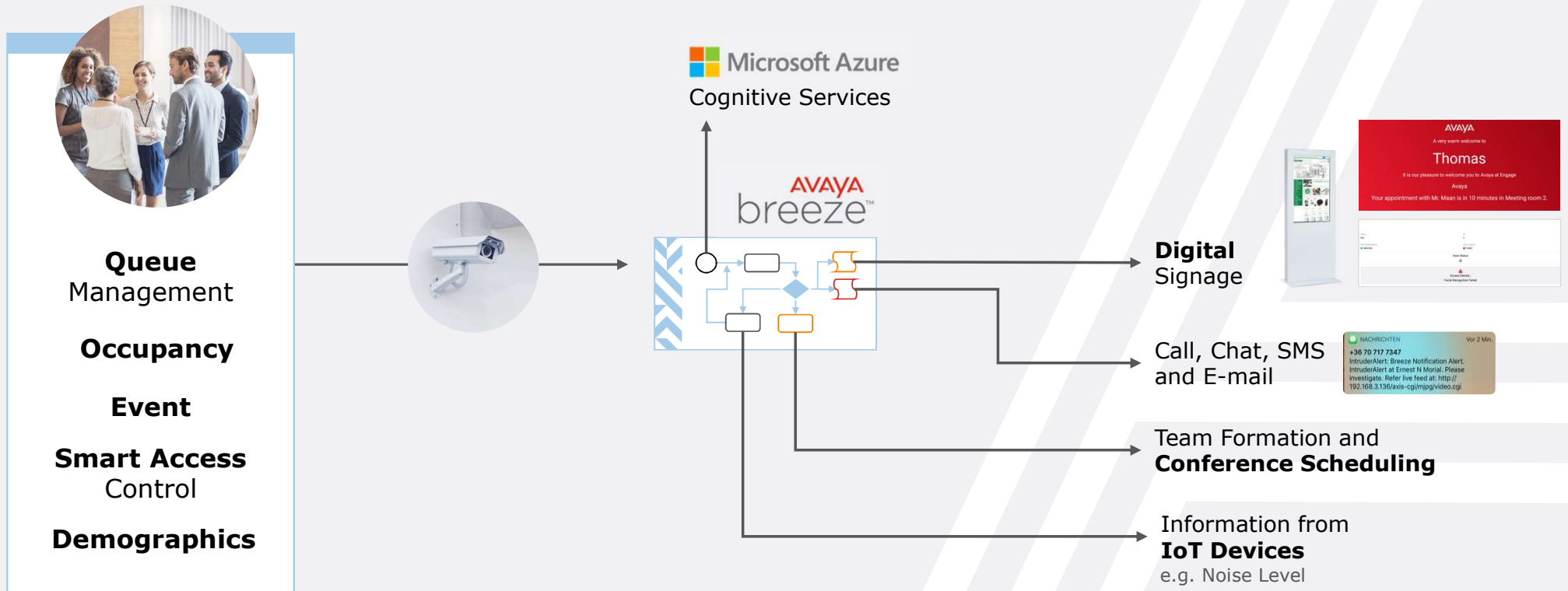
Events Trigger Engagement

Event Triggers to Orchestrate Critical Activities with Ambient Context



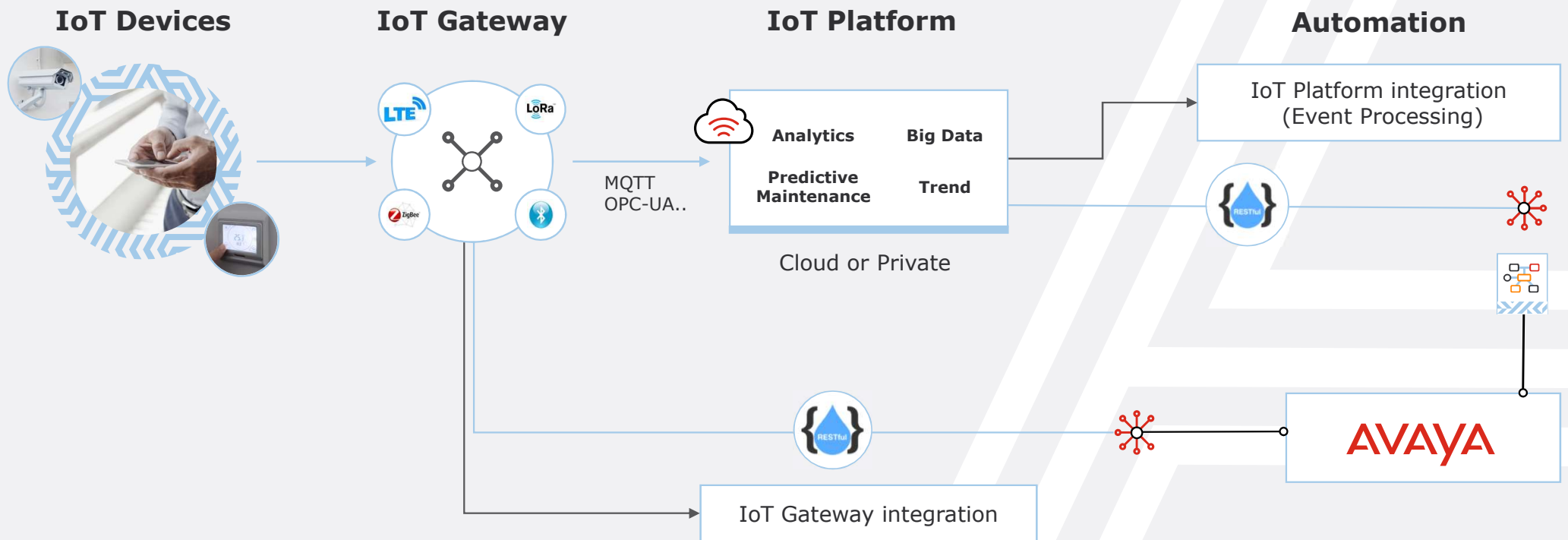
Blending Digital Into the Physical Experience

Seamless Integration of Stand-alone Technologies



Avaya IoT Reference Architecture

Open by Default

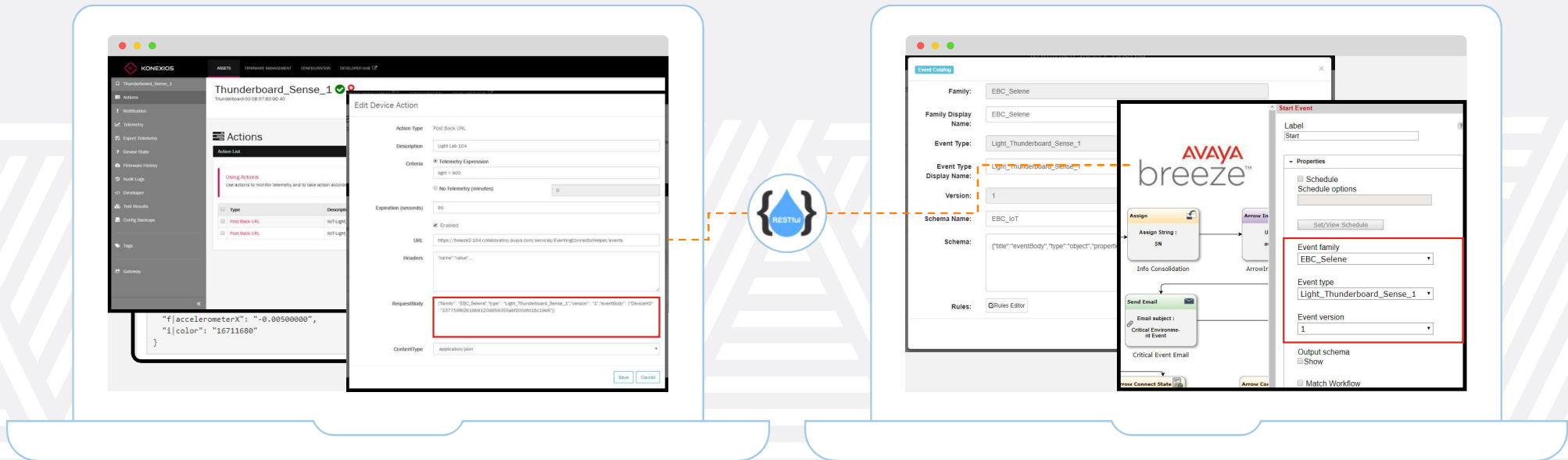


Actionable IoT Data

Turning IoT into Effective Business Actions

IoT Platform

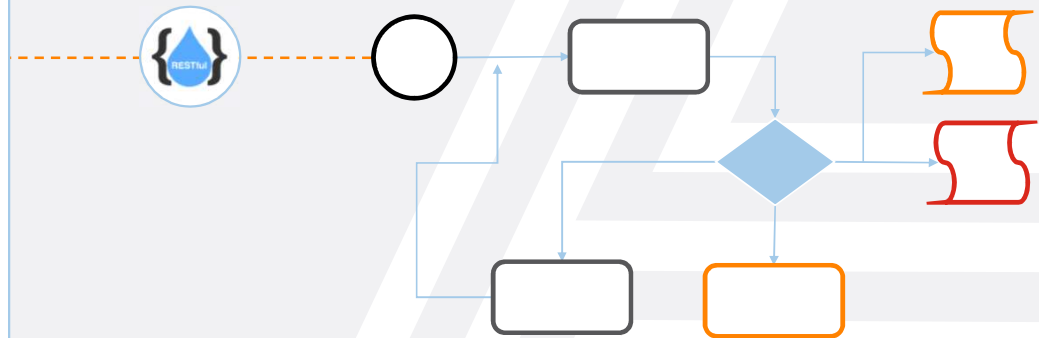
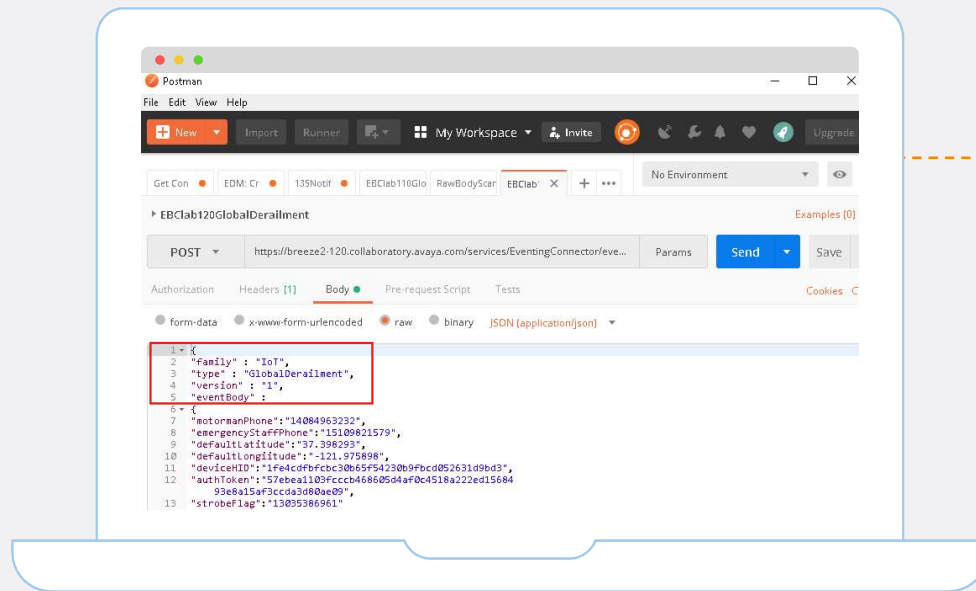
Avaya Automation Platform



Web Service POST to Breeze

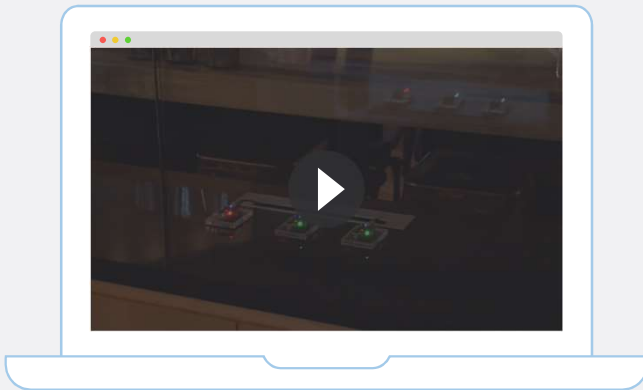
Simple Test Environment

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



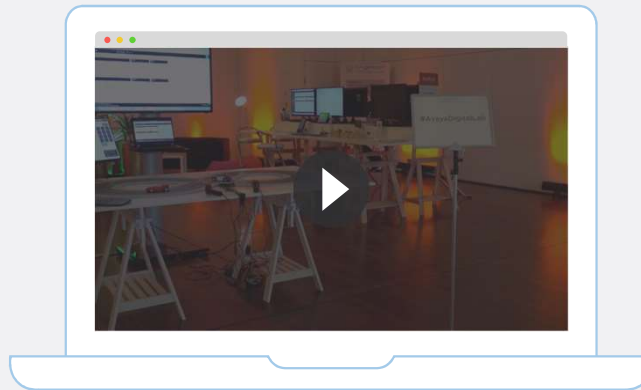
YouTube Demo Videos

Industrial IoT



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

Smart Ordering



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

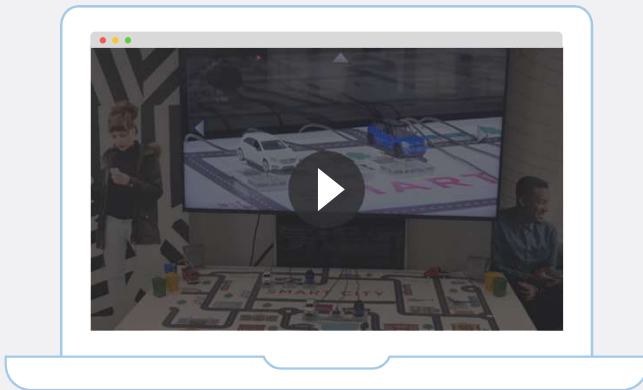
Quality Management



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

YouTube Demo Videos

Smart Parking



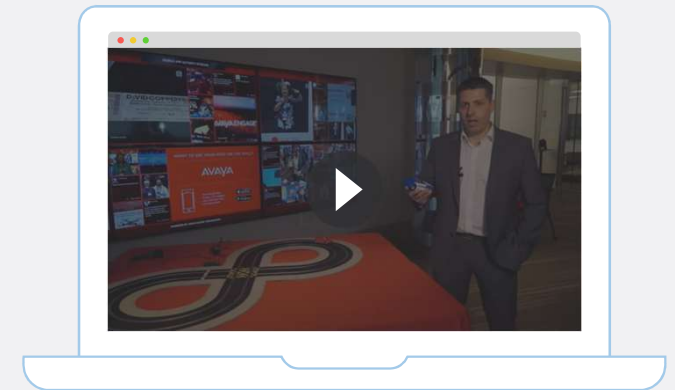
<https://www.youtube.com/watch?v=rd267Nwn-M0>

Smart Waste Management



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

Cops & Robbers



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

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

AVAYA

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).

1

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





AVAYA

avaya.com

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 18 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.

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

How to Get Hands-on Experience?

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

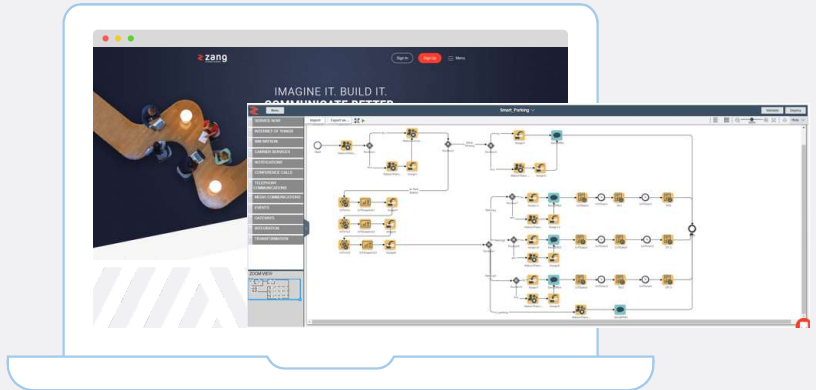
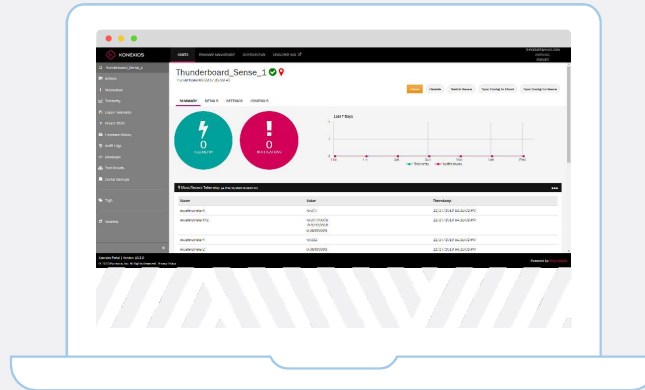
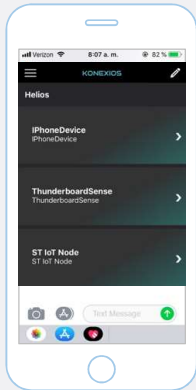
- Thunderboard React/Sense, Simba Pro, Sensor Puck
- Mobile Device can be Gateway and IoT Device

Request a **Free Konexios Trial Account**

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

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

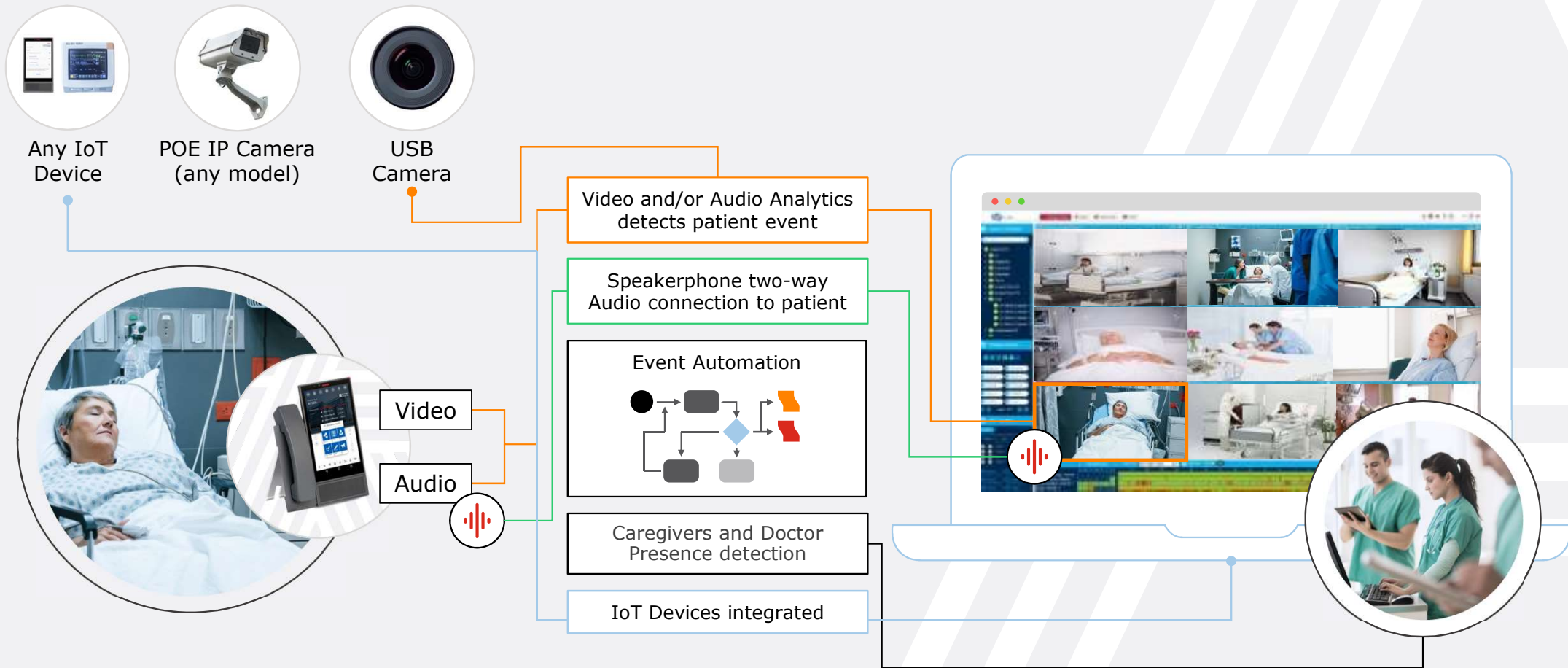
Vertical Industry Solutions

Art of the Possible



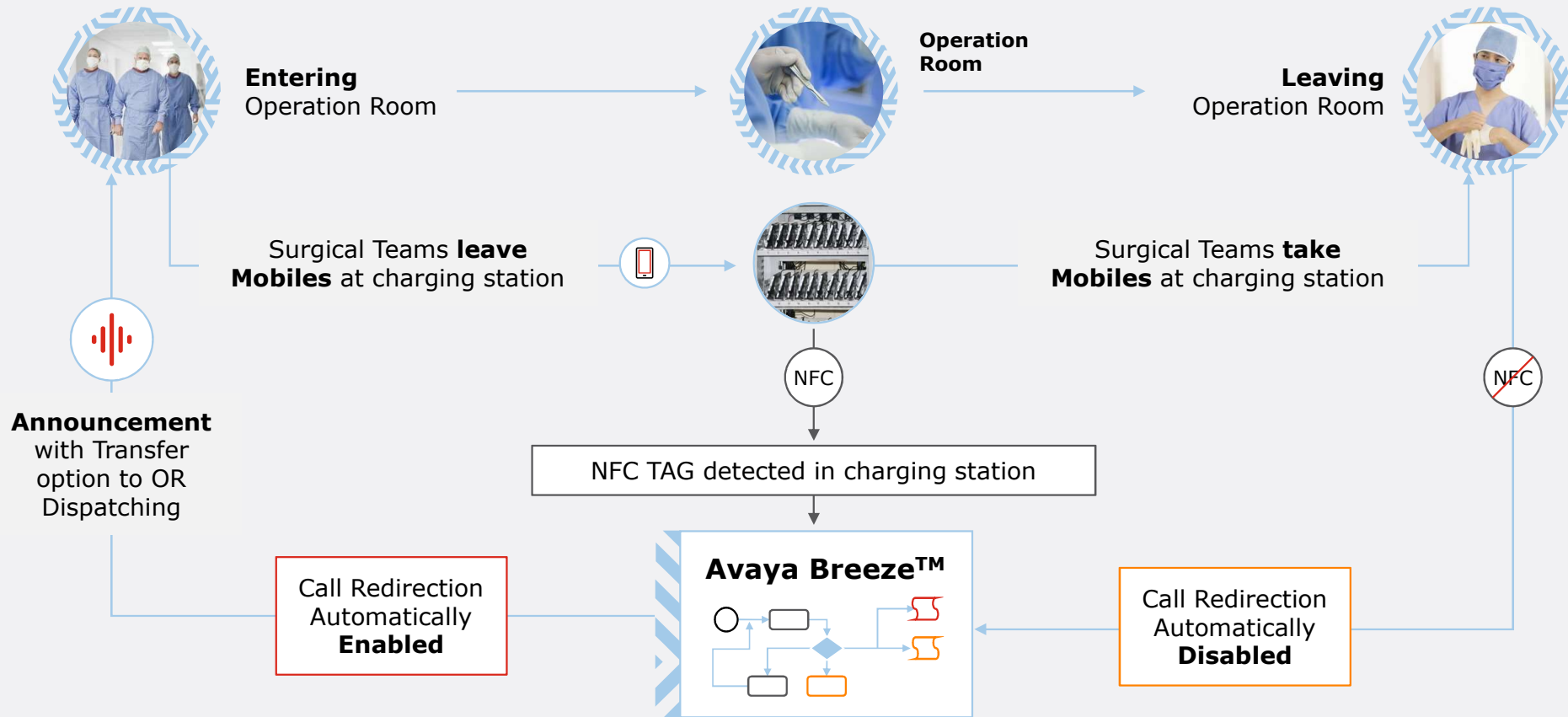
Healthcare

Healthcare Solutions – Remote Patient Monitoring



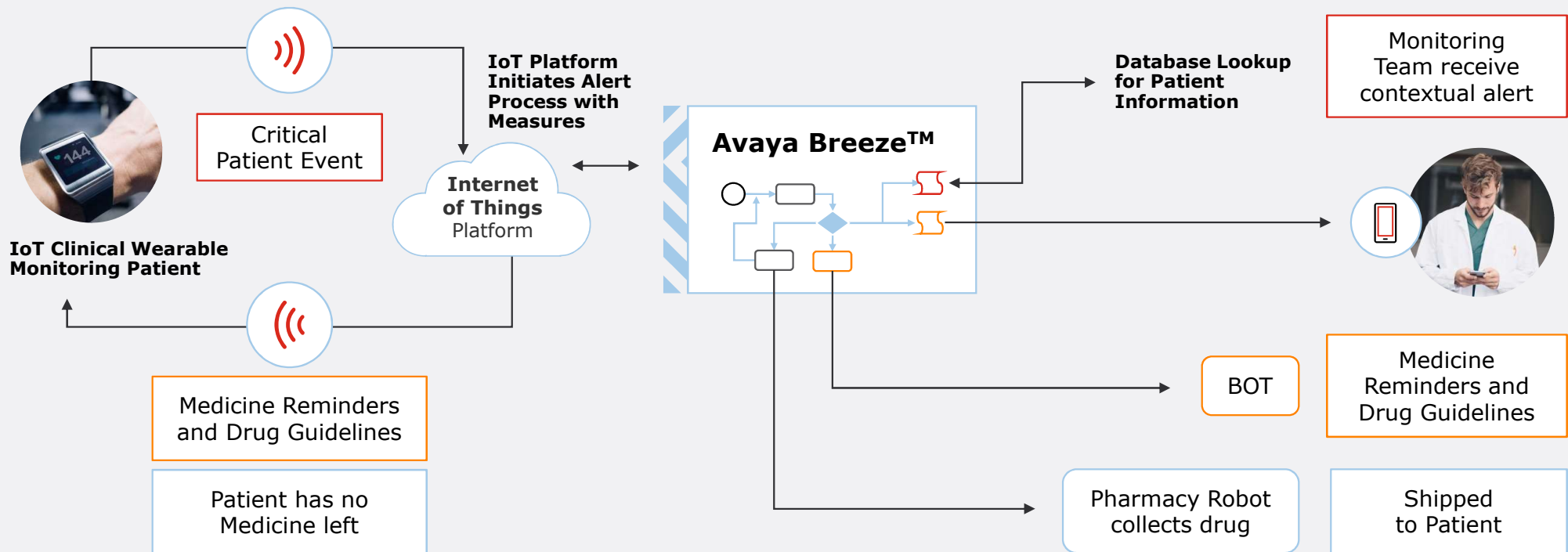
IoT Healthcare

Automation for Surgical Teams



IoT Healthcare

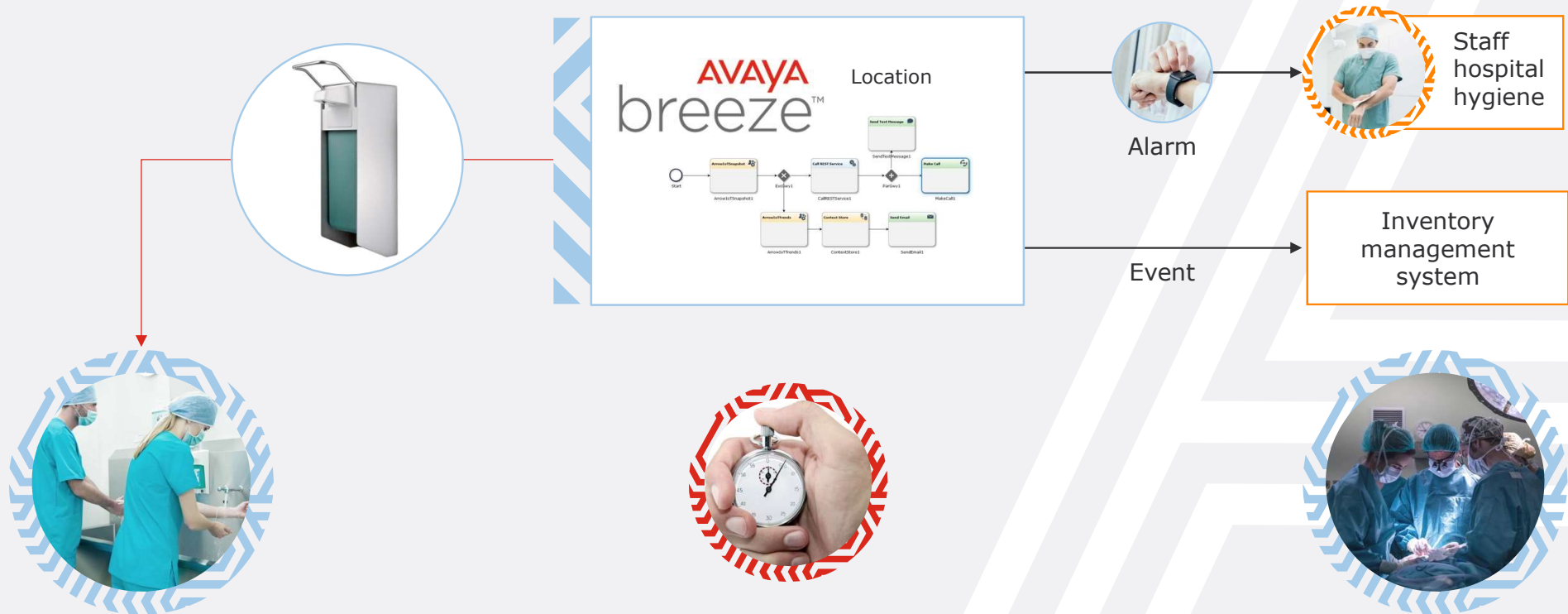
Use Real Time Information to Make Better Decisions



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

Disinfection Dispenser Refill

Critical Event Monitoring



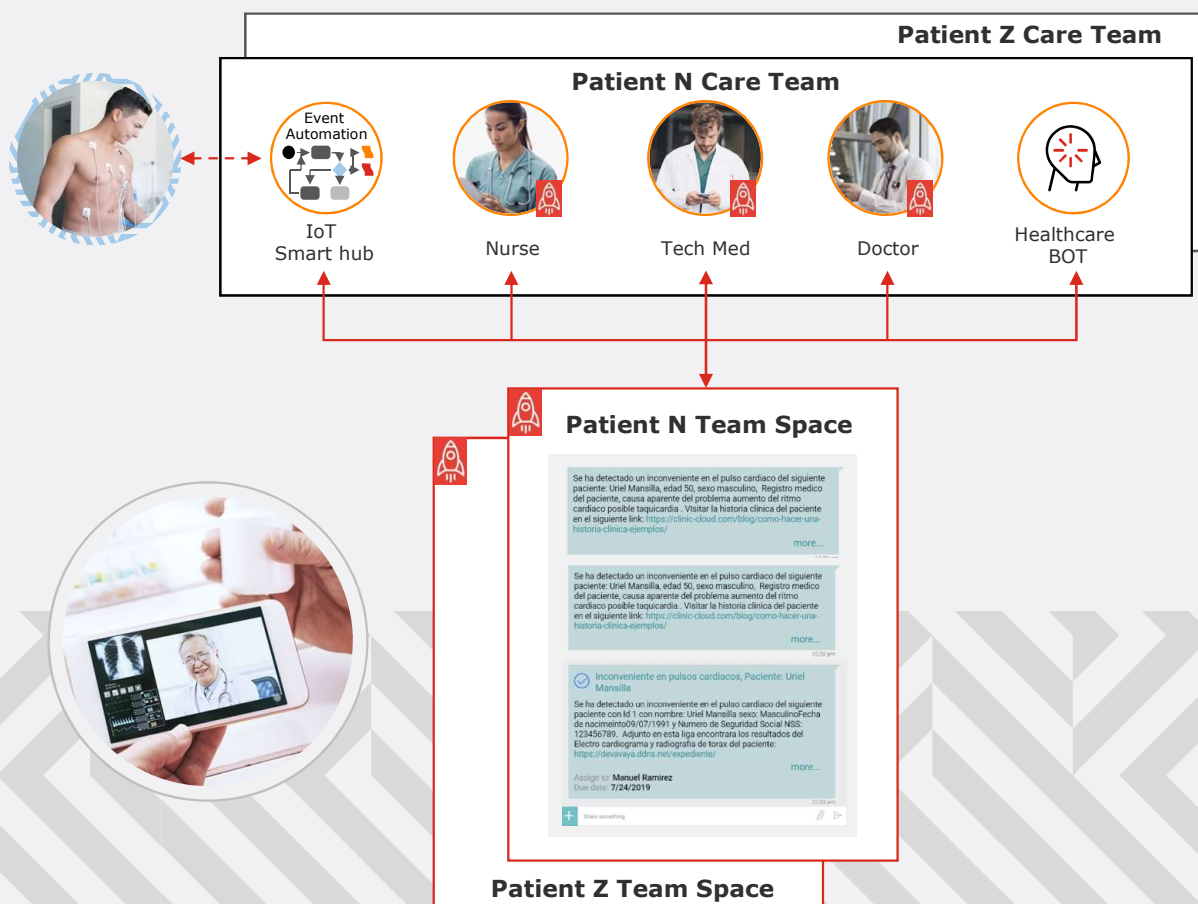
Use Case: Smart Health Care Team Space

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**

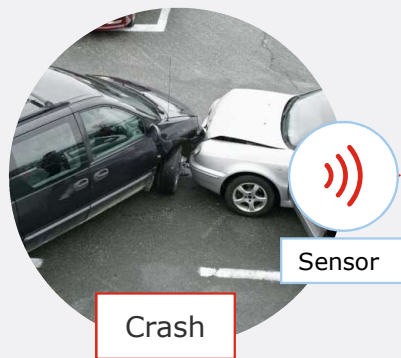
Connected Vehicles – eCall

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

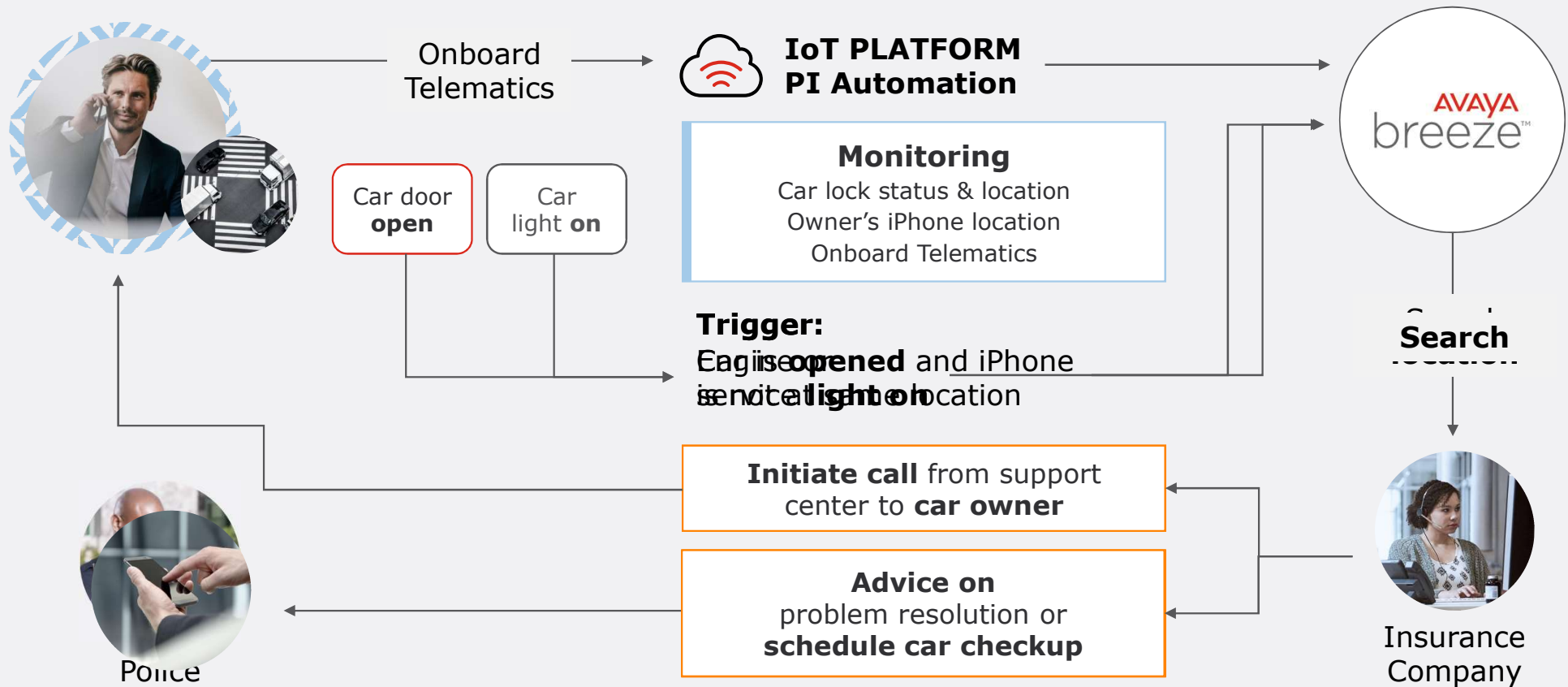
modem
MSD transmission

voice call

time

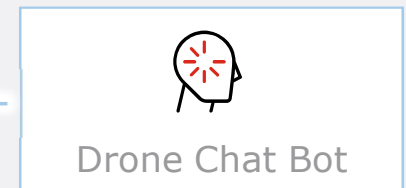
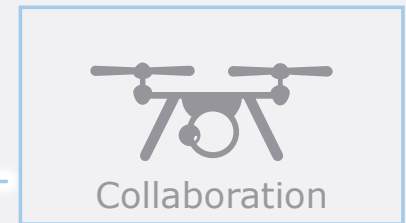
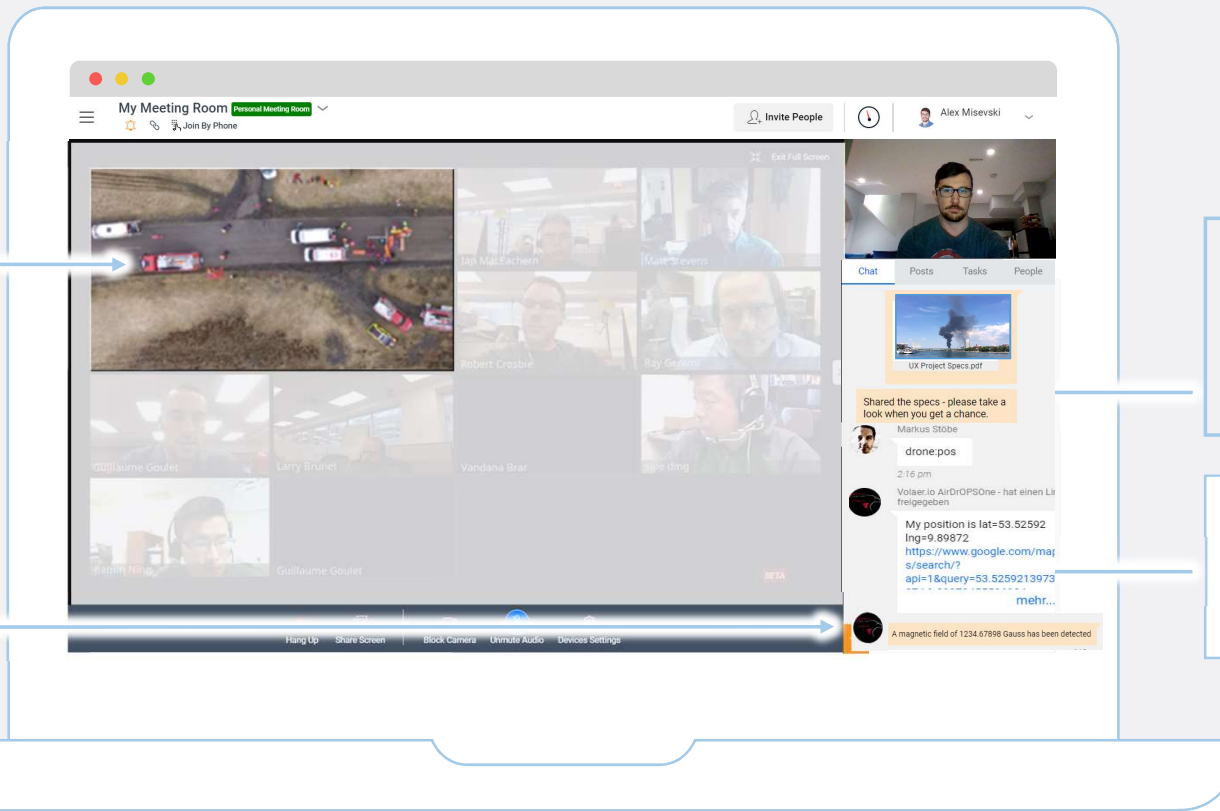
Insurance - Connected Vehicles

Extended Services & Customer Loyalty



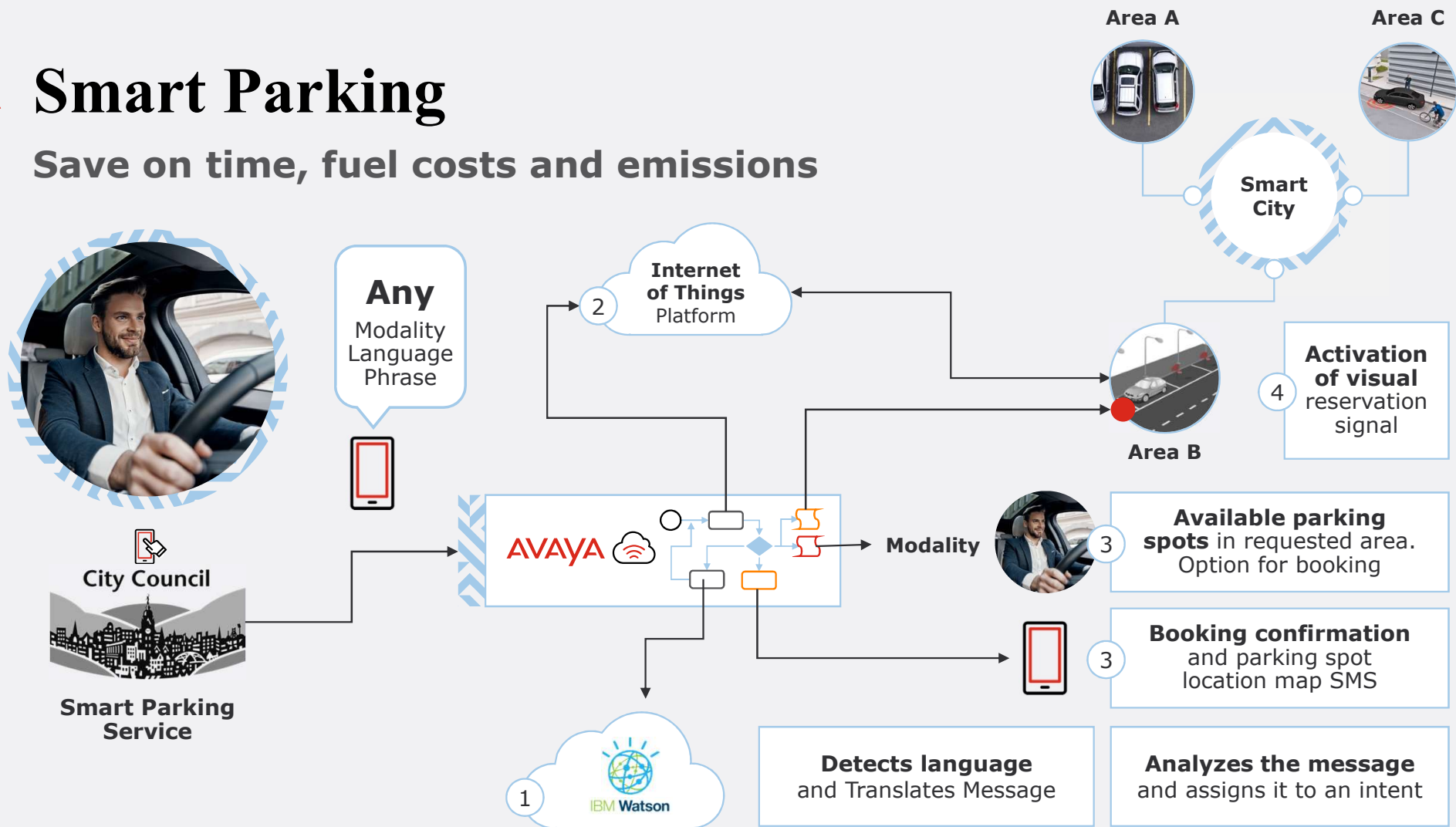
The Flying Eye

Drones become Collaboration Endpoints in Avaya IX Spaces



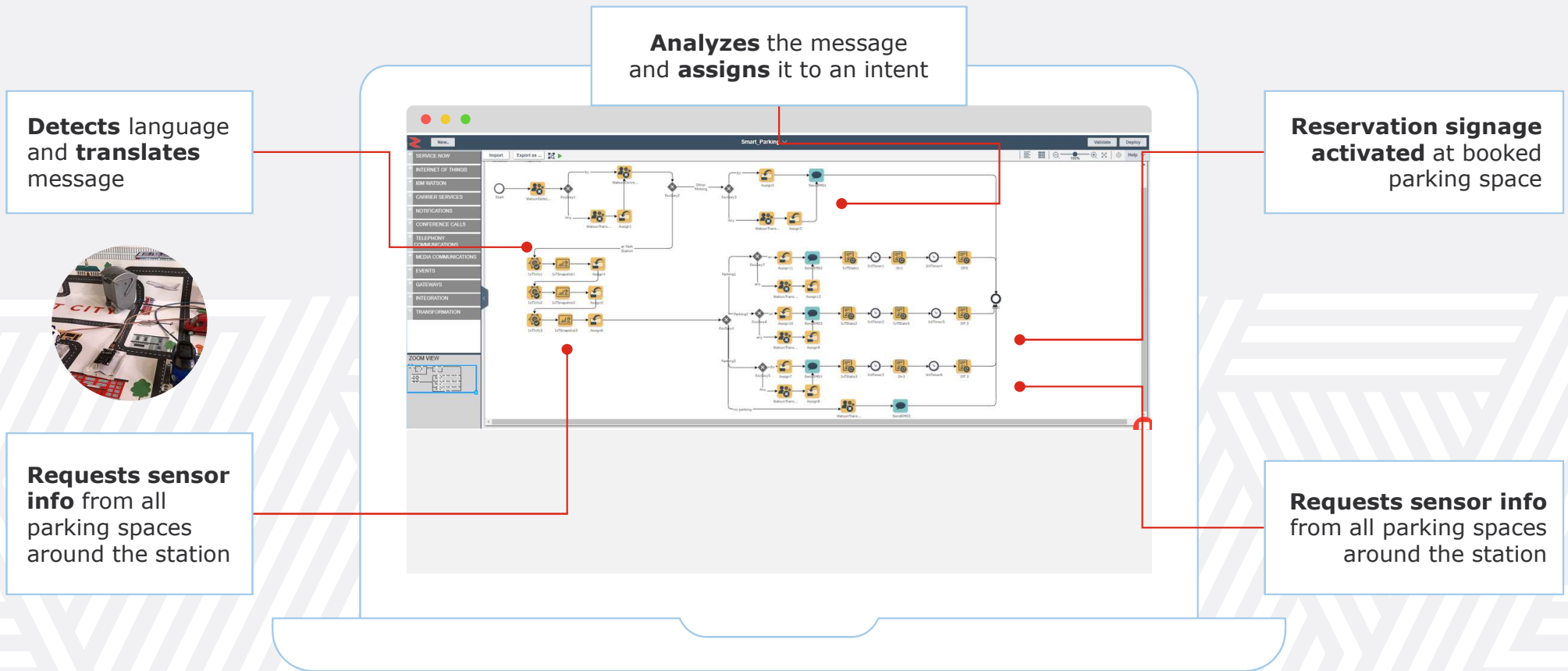
Smart Parking

Save on time, fuel costs and emissions



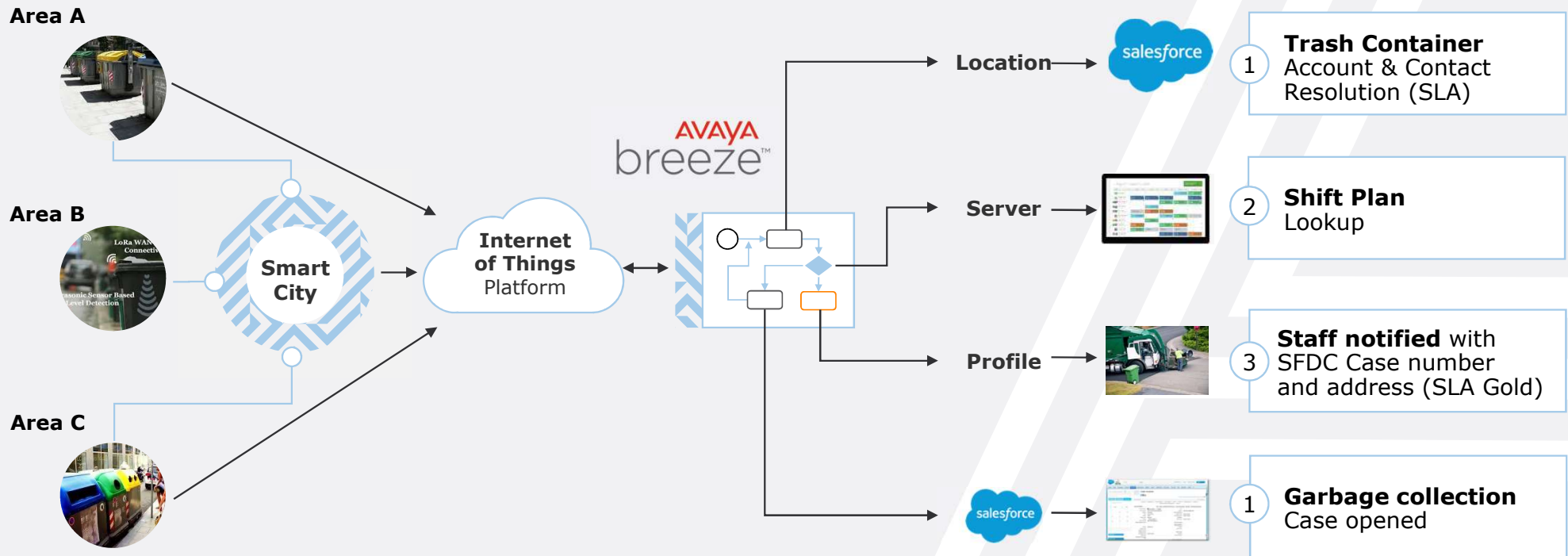
Smart Parking – Automated Workflow

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



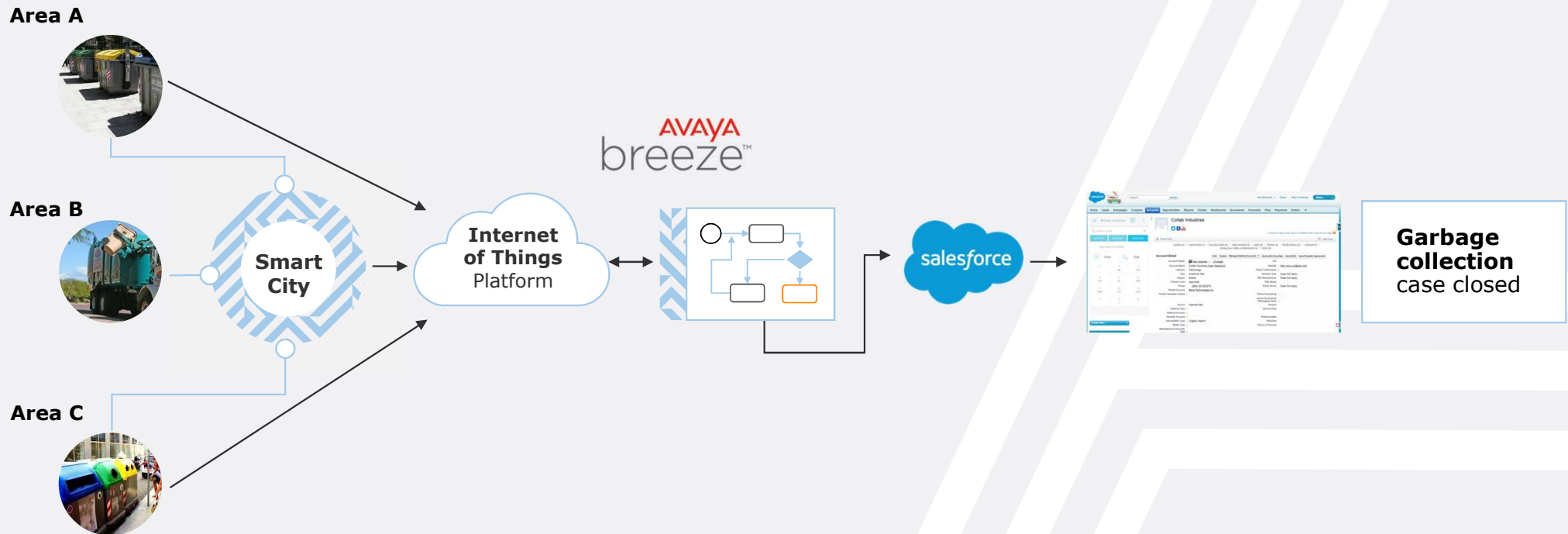
Smart Cities - Waste Management

Situational awareness for faster response time



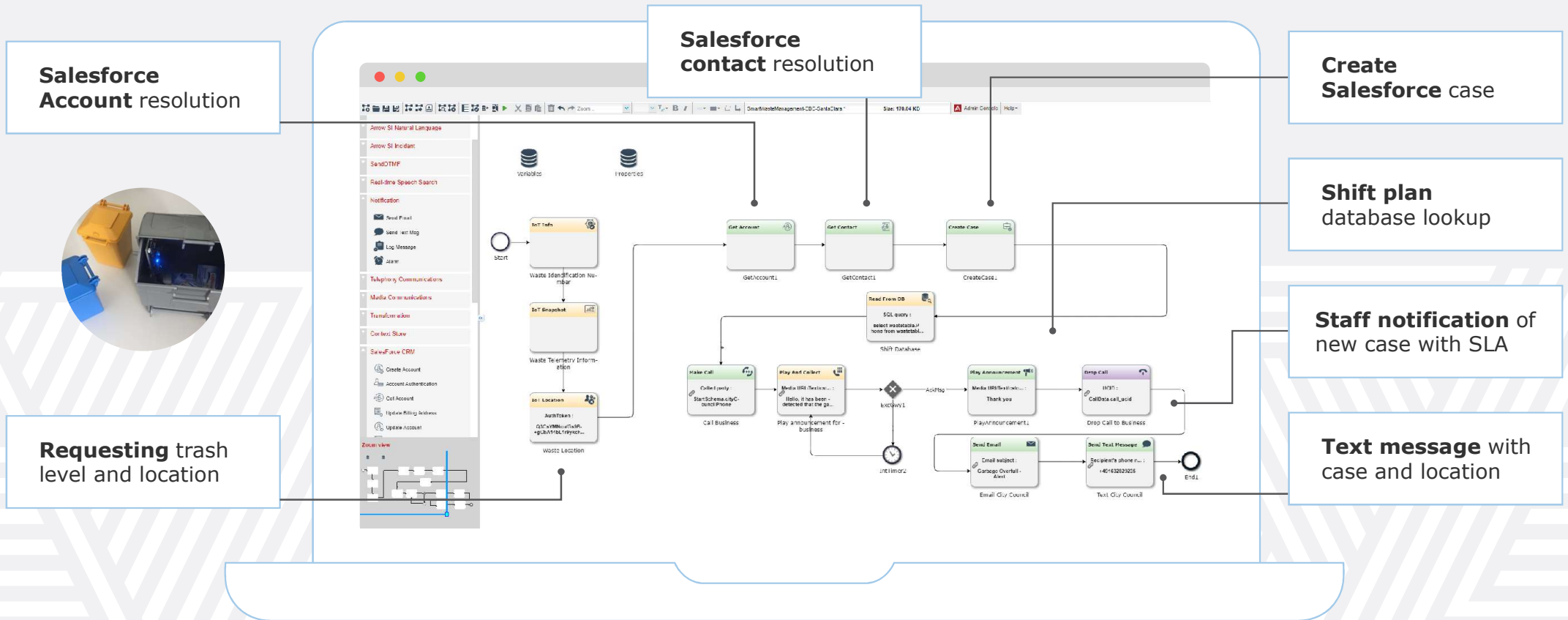
Smart Cities - Waste Management

Situational awareness for faster response time



Waste Management – Automated Workflow

Avaya Breeze



Salesforce Account resolution

Salesforce contact resolution

Create Salesforce case

Shift plan database lookup

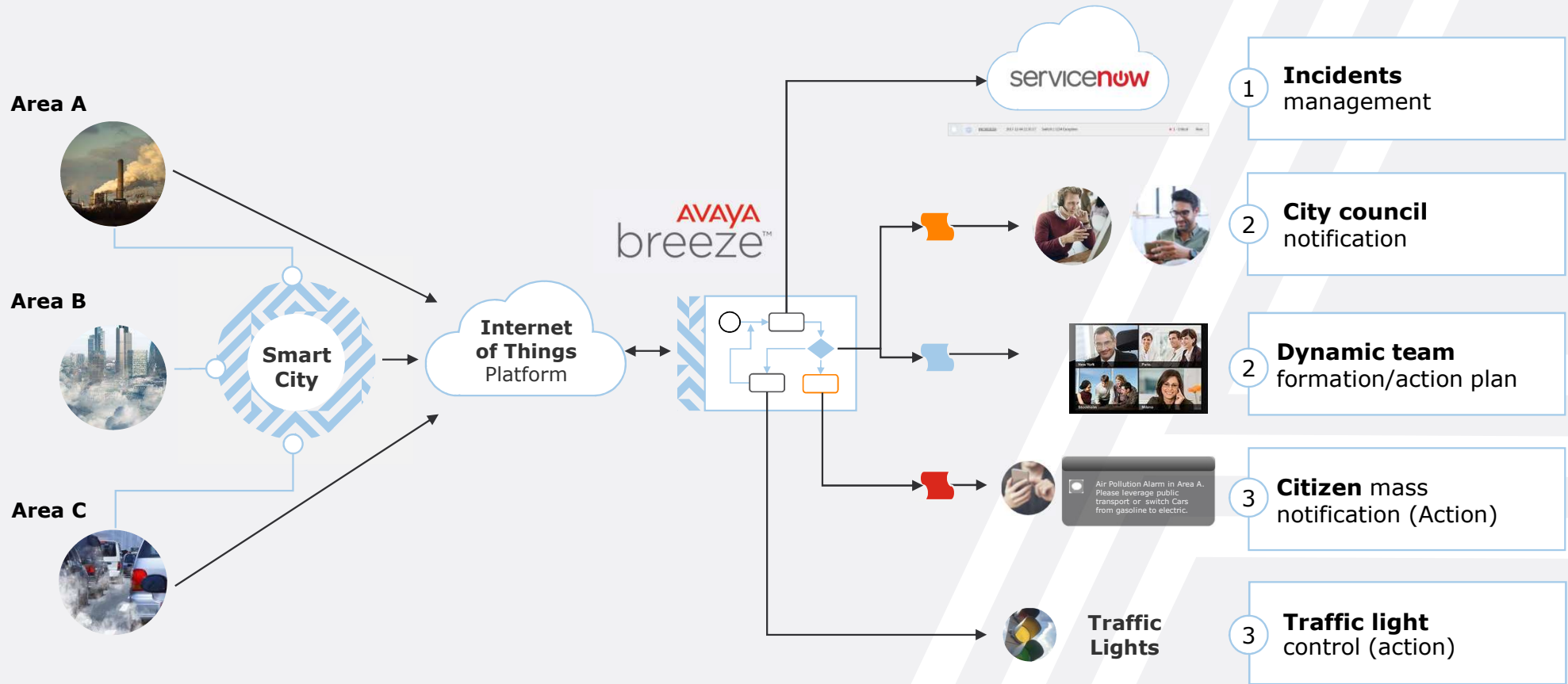
Staff notification of new case with SLA

Text message with case and location

Requesting trash level and location

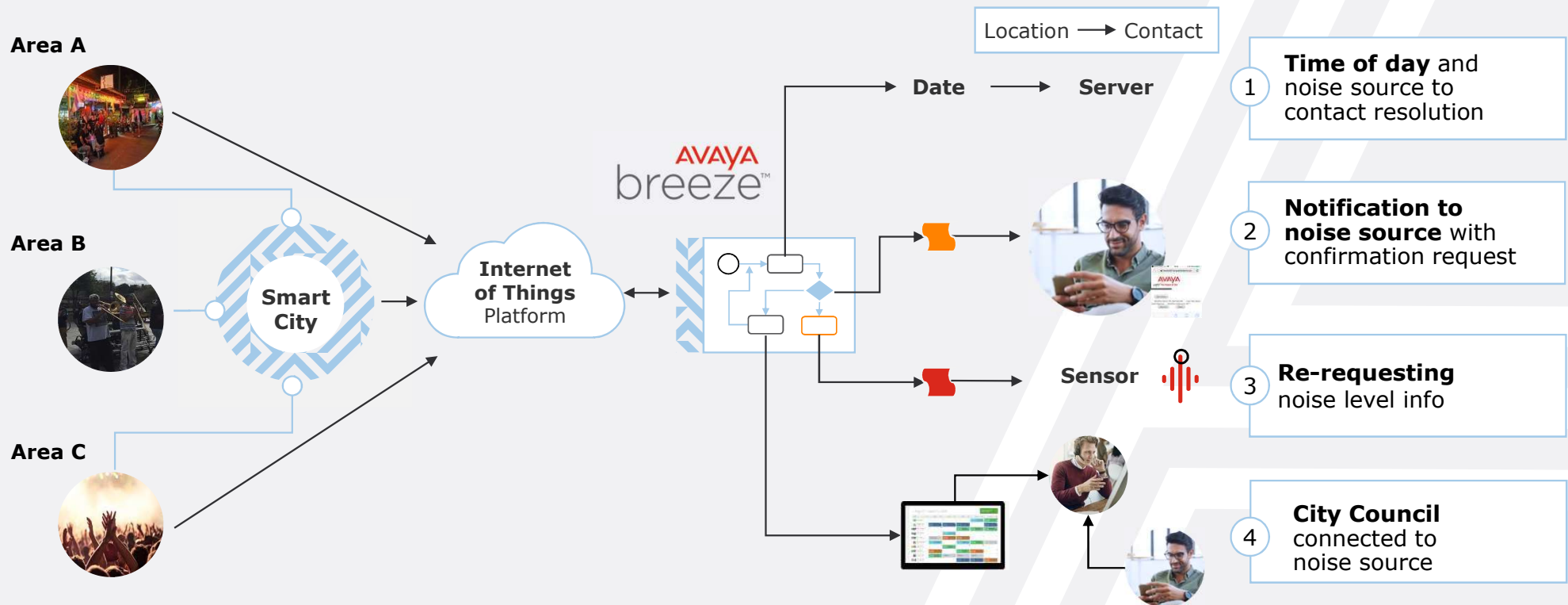
Smart Cities - Air Pollution

Situational Awareness for Faster Response Time



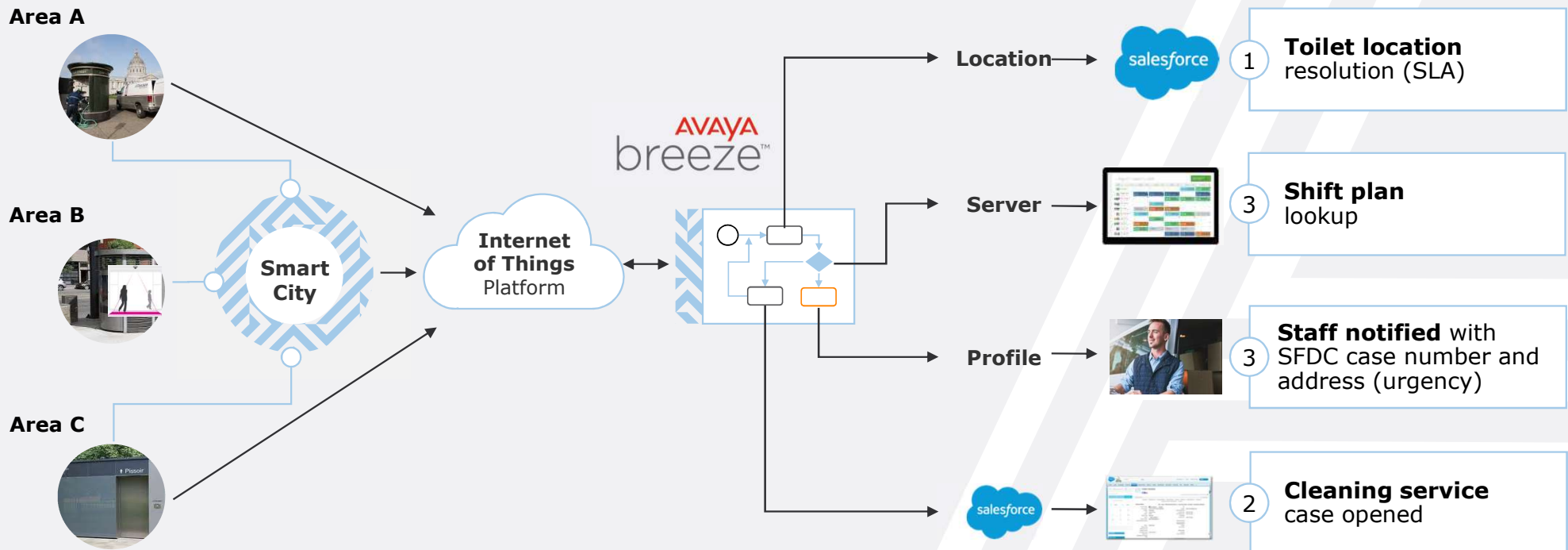
Smart Cities - Urban Noise Monitoring

Situational Awareness for Faster Response Time



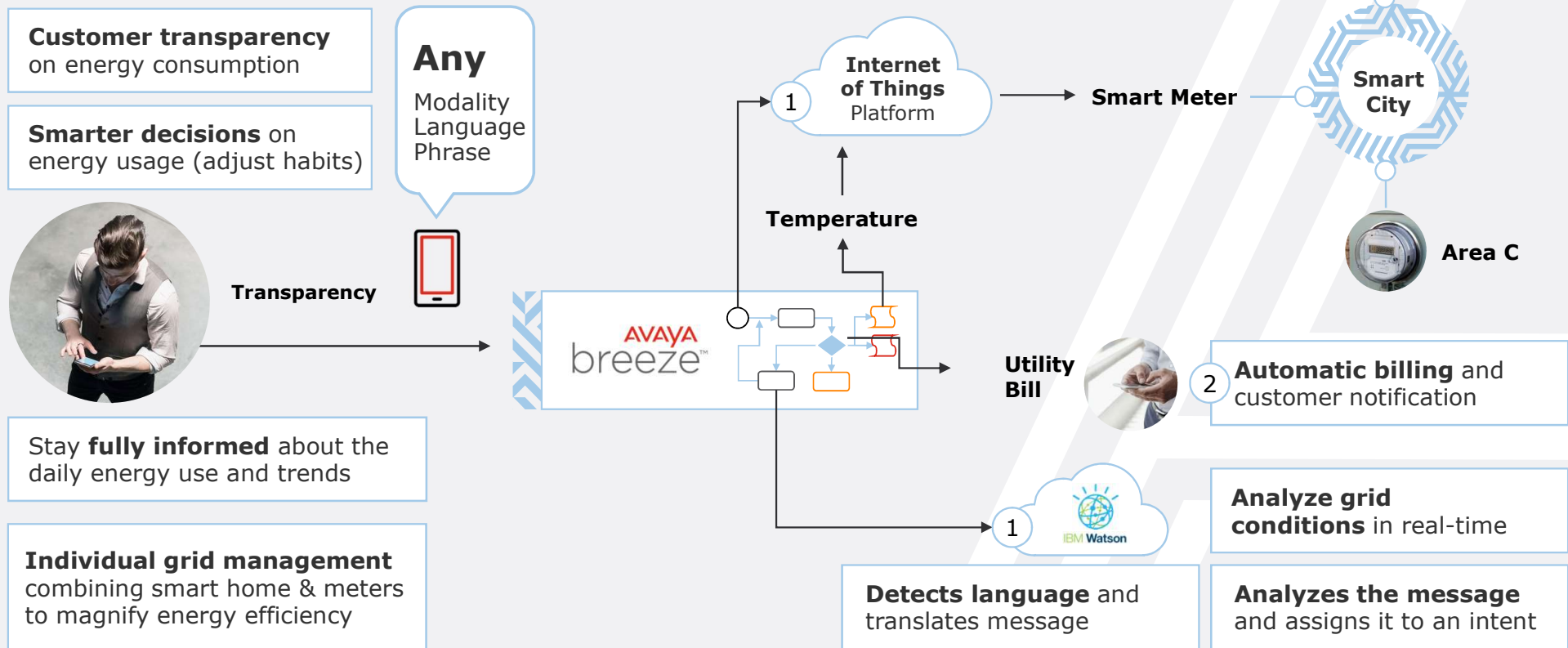
Smart Cities - On-demand Cleaning Services

Situational Awareness for Optimized Efficiency



Smart Cities - Smart Metering

Creates a Win-win with IoT Data Insights



Vertical Industry Solutions

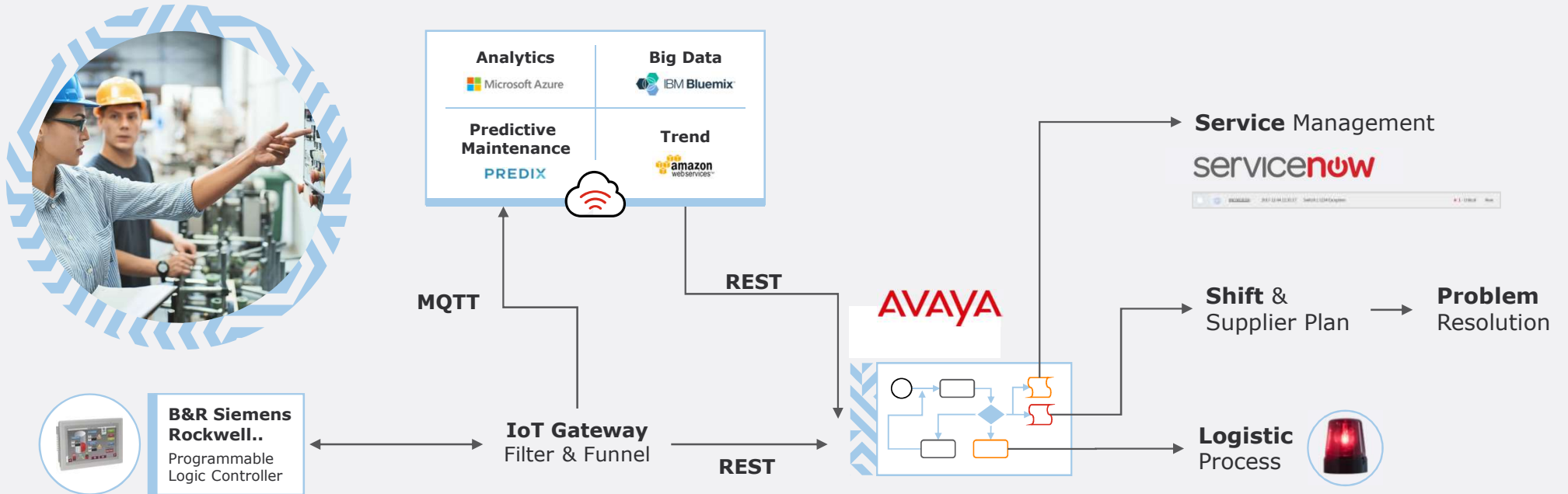
Art of the Possible



Manufacturing

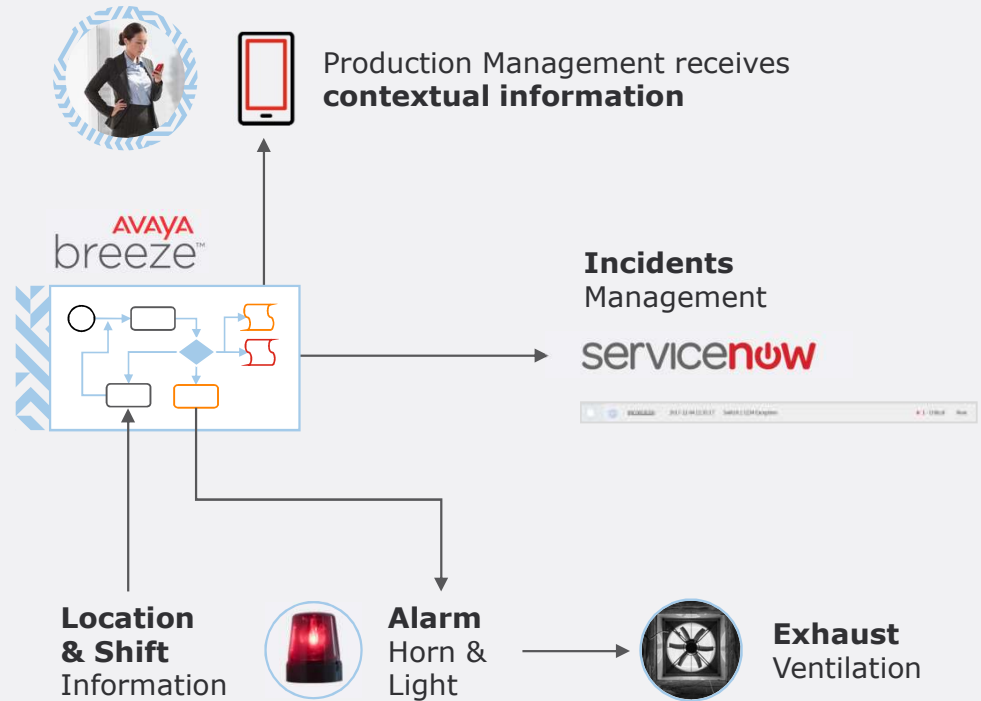
IoT Manufacturing with PLC System

Connects Machines with Humans & Shop Floor with IT



IoT Manufacturing

Real Time Information for Better and Faster Reactions



Hazards of abnormal environmental conditions are detected when special **compliance criteria** must be met

- Air Quality monitoring
- Man-Down detection

“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.**”





Thank you.