

AVAYA



Avaya Smart City Solutions

Executive Summary

- **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 strategy is **people and communication.**



Intelligently Connecting Citizens and Employees of the City Administration Through a Smart City Ecosystem

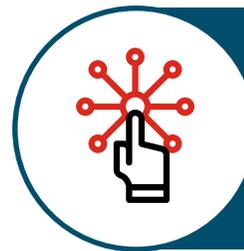


The Dual Core of Avaya's Smart City Solutions:

1. Real-time situational awareness for faster reactions to urban events
2. Omni-channel citizen engagement anytime, anywhere on any device

Business Outcomes:

- **Faster** and more efficient **problem resolution**
- More relevant, meaningful **engagement with preferred forms of communication** for citizens to interact with smart city services
- **Real value** derived from data-driven insights
- **Seamless and contextual connections** between machines, humans and LOB applications

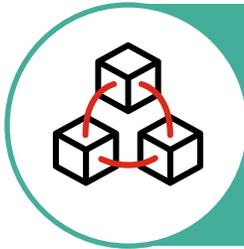


Ensuring the **right information**
is in the **right place** at the **right**
time, maximizing business outcomes.



Key Points

- Service and workflow **automation**
- **Actionable IoT** and ecosystem data
- **Contextual processing** of Ecosystem data
- **AI** and analytics
- **Proactive ecosystem monitoring** and citizen engagement
- **Real-time omni-channel** mass notifications
- **Agile workflows** for more efficient business outcomes



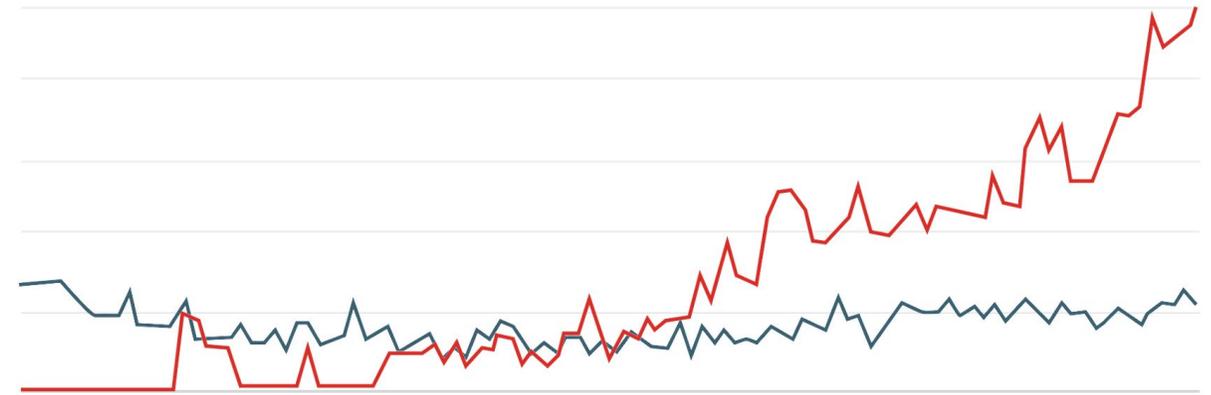
Uniquely automating processes and seamlessly connecting citizens and employees city-wide

IoT-enabled Ecosystem

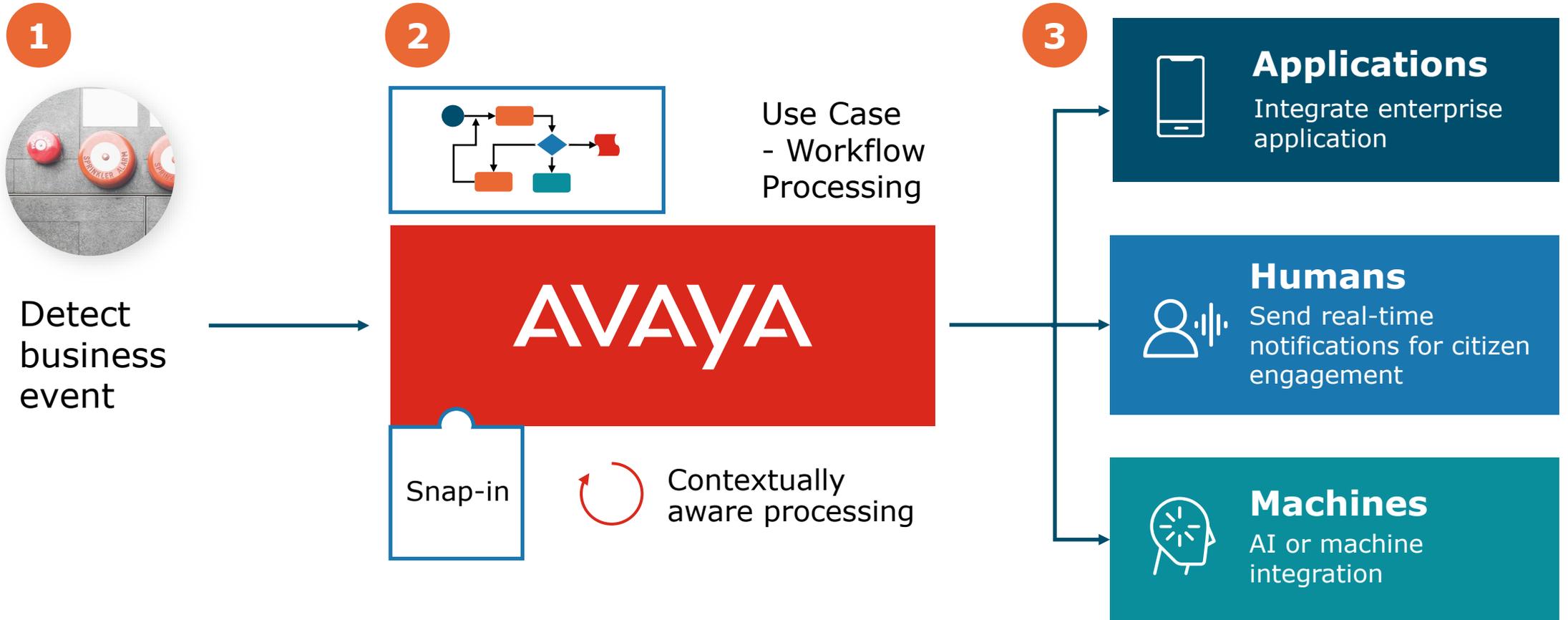
- Interconnecting devices, systems and processes
- IoT as an enabler of the smart city infrastructure, **gathering** and **analyzing** key data
- **Real value** derived from data-driven insights
- Opens the door for new, compelling use cases across key city areas (i.e. healthcare, municipal services, public safety)

Trends

- Internet of Things
- Machine to Machine

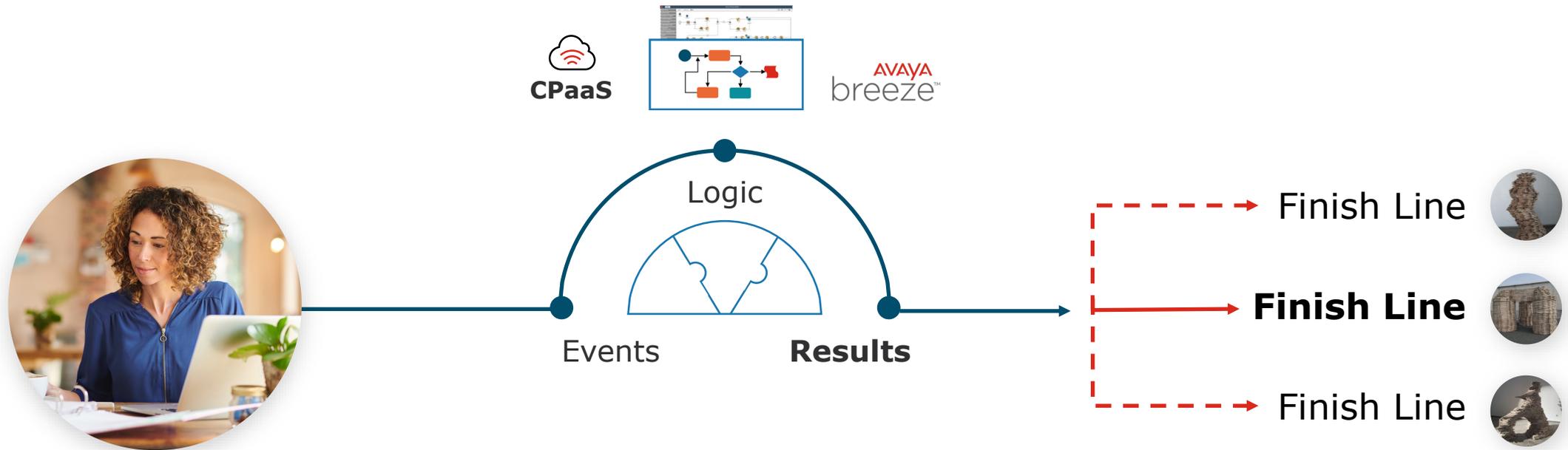


"If This Then That" 2.0 For Organizations



Service Automation & Orchestration

Open and Agile by Default

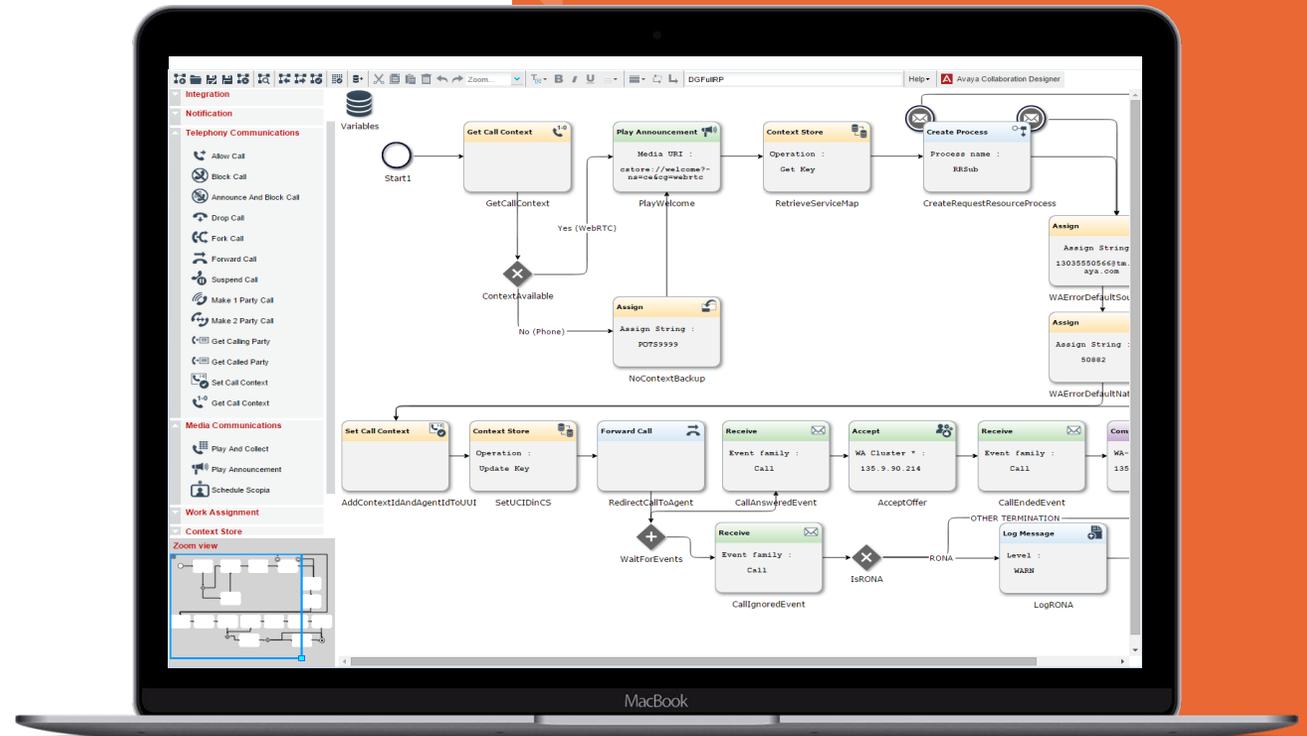


Create and Customize Workflows

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 how you create and control your business processes

Avaya & IoT

Smart Communications for
Smart Engagement

Delivers Intelligent Outcomes

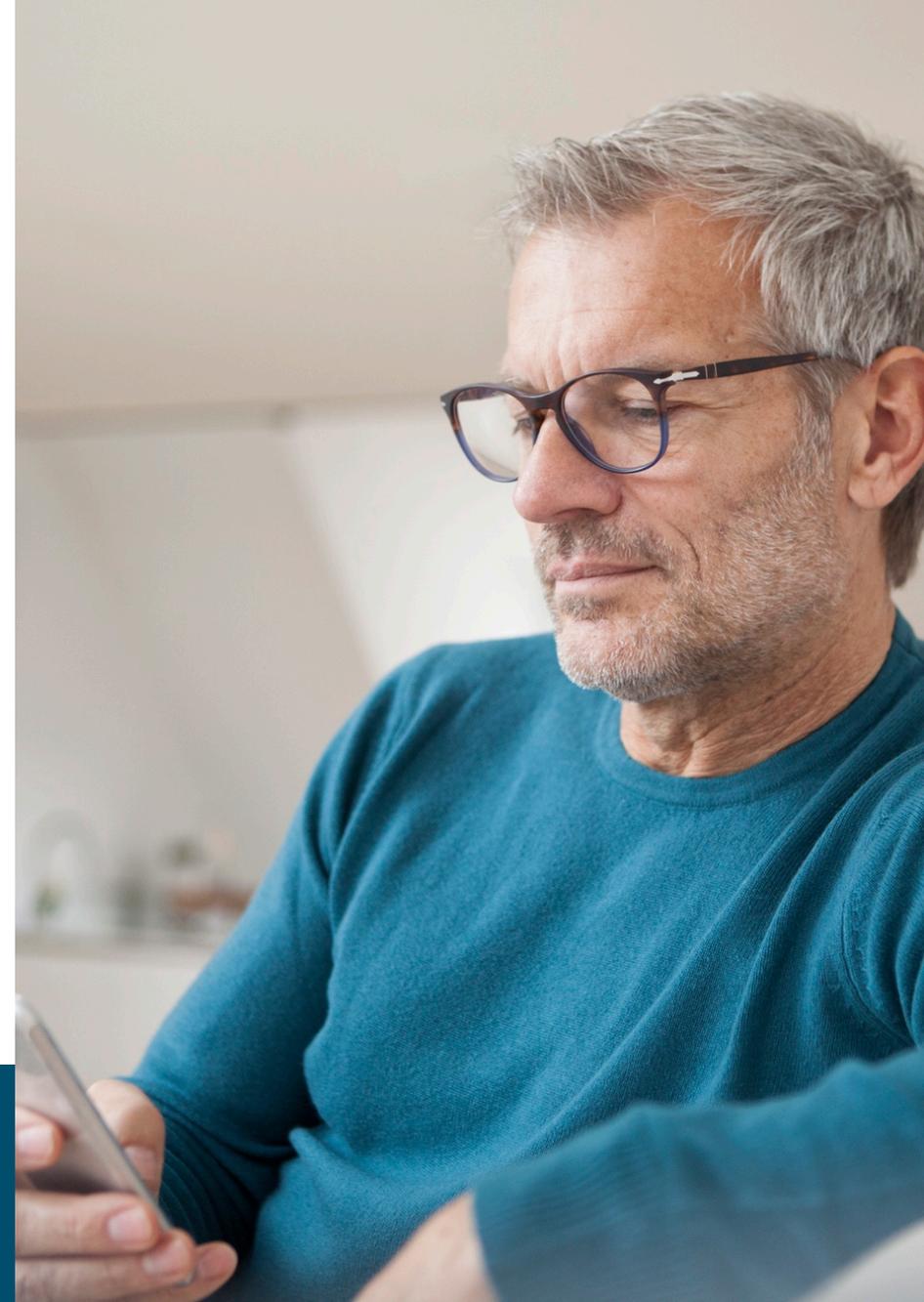
Contextually-aware
Processing

Agile **Workflow**
Automation

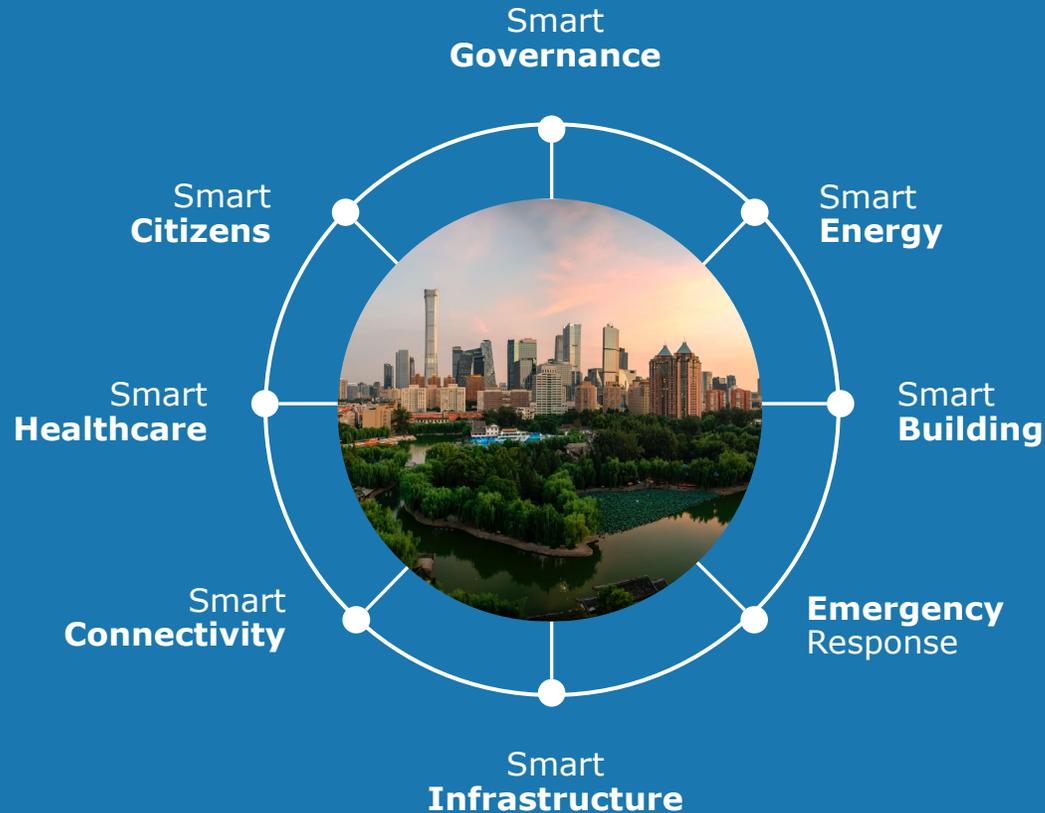
Actionable
IoT Data

Open Ecosystem for
Smart Communication

Seamless and contextual connections between
machines, humans and LOB applications



What Defines a Smart City



Smart Solutions



E-Governance and Citizen Services

1. Public Information, Grievance Redressal
2. Electronic Service Delivery
3. **Citizen Engagement**
4. Citizens – City's Eyes and Ears
5. Video Crime Monitoring

Energy Management

13. Smart Meters & Management
14. Renewable Sources of Energy
15. Energy Efficient & Green Buildings

Waste Management

6. Waste to Energy & fuel
7. Waste to Compost
8. Waste Water to be Treated
9. Recycling and Reduction of C&D Waste

Urban Mobility

16. Smart Parking
17. Intelligent Traffic Management
18. Integrated Multi-modal Transport

Water Management

10. Smart Meters & Management
11. Leakage Identification, Preventive Maint.
12. Water Quality Monitoring

Waste Management

19. Tele-Medicine & Tele Education
20. Incubation/Trade Facilitation Centers
21. Skill Development Centers

ILLUSTRATIVE LIST

Intelligent Engagement

The Foundation of a Smart City

The dual core of our smart city solutions: **real-time situational awareness** for **faster reactions to events** and **omni-channel citizen engagement.**

Driving more intelligent outcomes by **uniquely automating processes** and **connecting citizens and employees** through a smart city ecosystem

Delivering value in **the way it matters most:** across the public services that citizens **consume and rely on.**



Improved quality of life and safety for all citizens

The Power of an Open Ecosystem

Complete Integration for Continuous Innovation

Waste Management



Any-choice (anytime, anywhere, any-device, any-channel) citizen engagement

Senso detection and proactive engagement



Smart Parking

Noise Pollution

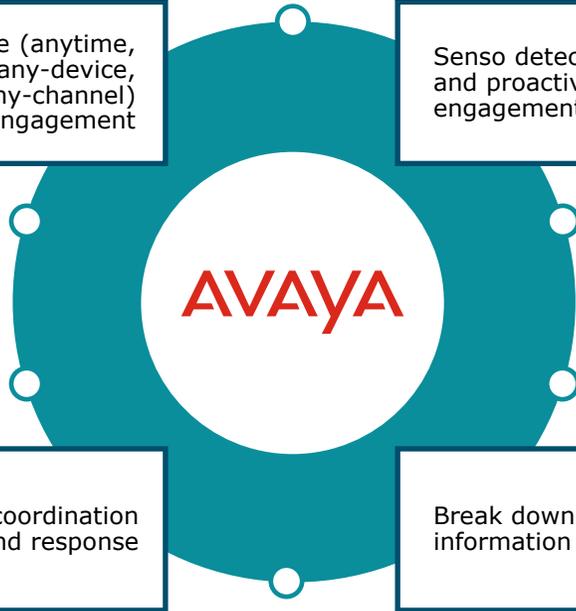


Multi-Agency coordination and response

Break down information silos

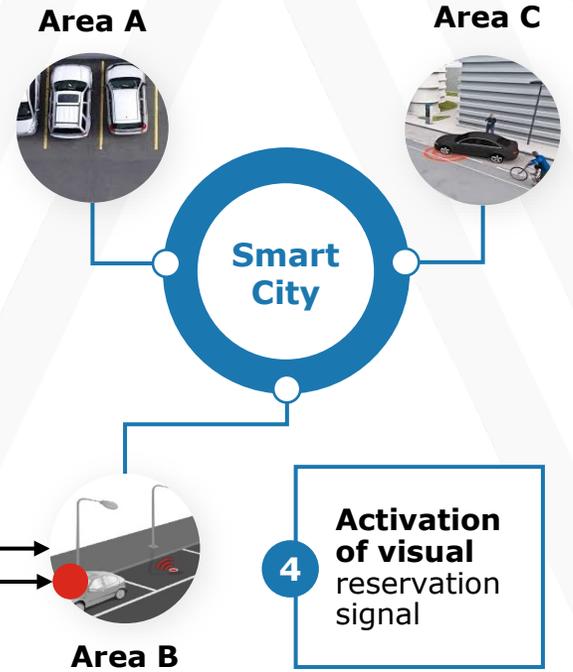


Environmental Protection

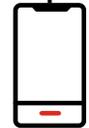


Smart Cities - Smart Parking

Save on Time, Fuel Costs and Emissions



Any Modality Language Phrase

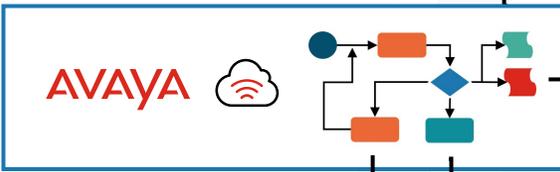


2 Internet of Things Platform

City Council



Smart Parking Service



Modality



3 Available parking spots in requested area. Option for booking

3 Booking confirmation and parking spot location map SMS

1 IBM Watson

1 Detects language and Translates Message

2 Analyzes the message and assigns it to an intent

Smart Parking – Automated Workflow

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

Detects language and **translates** message

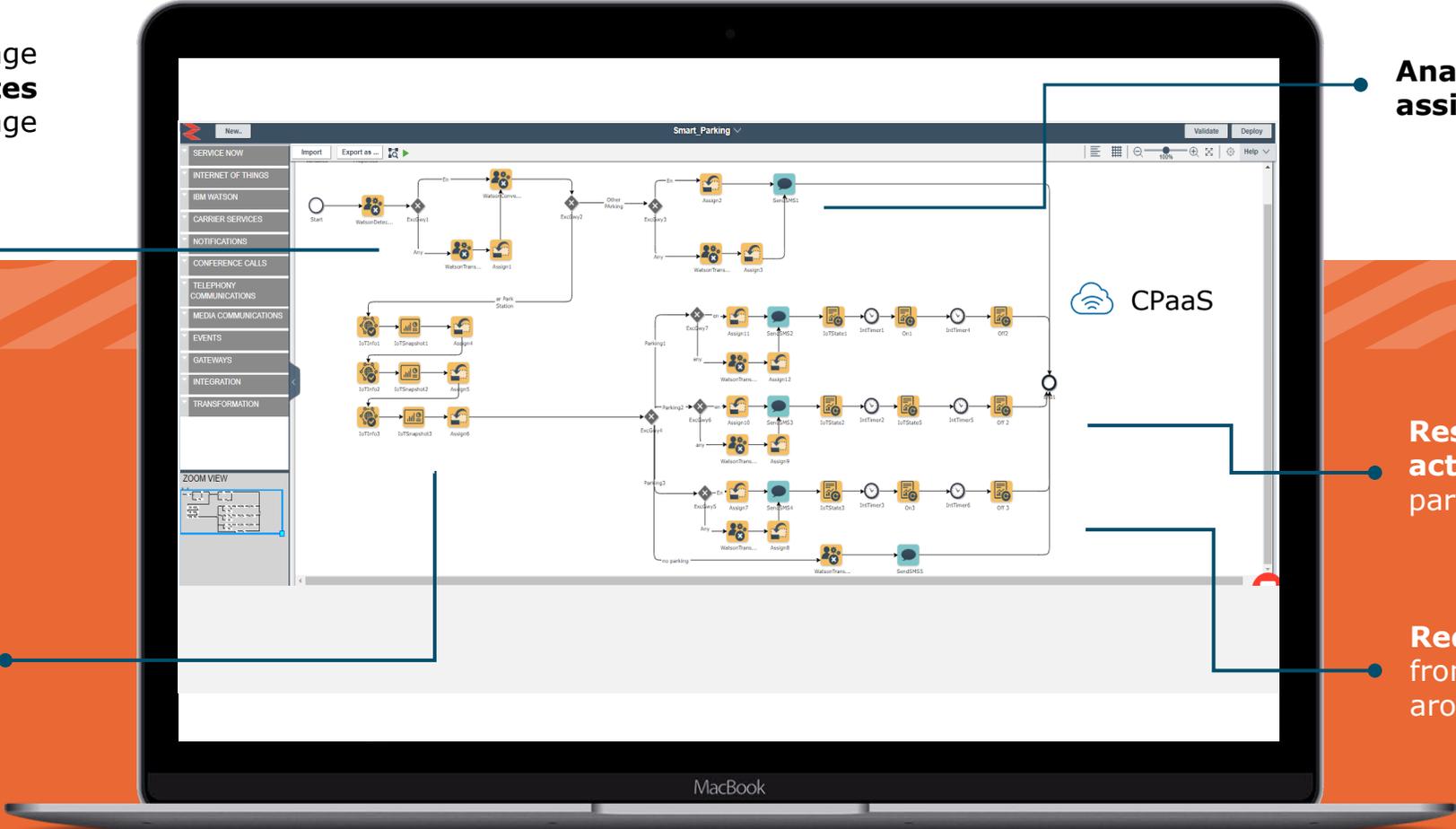
Analyzes the message and **assigns** it to an intent



Requests sensor info from all parking spaces around the station

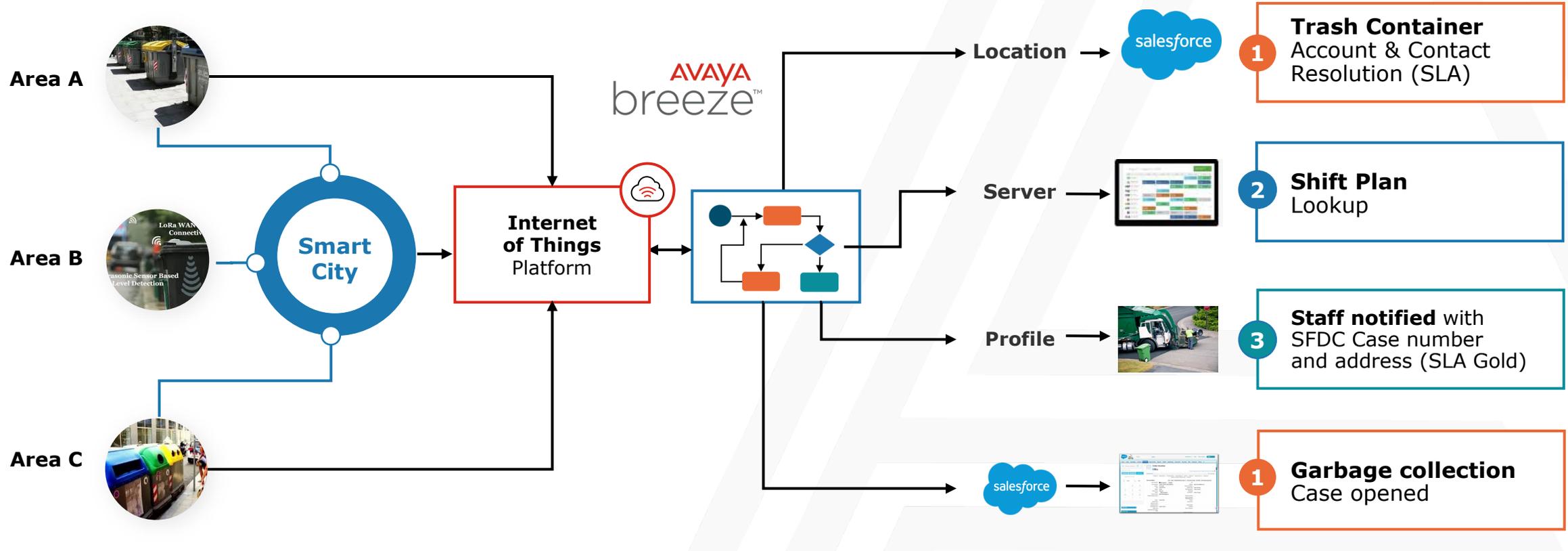
Reservation signage activated at booked parking space

Requests sensor info from all parking spaces around the station



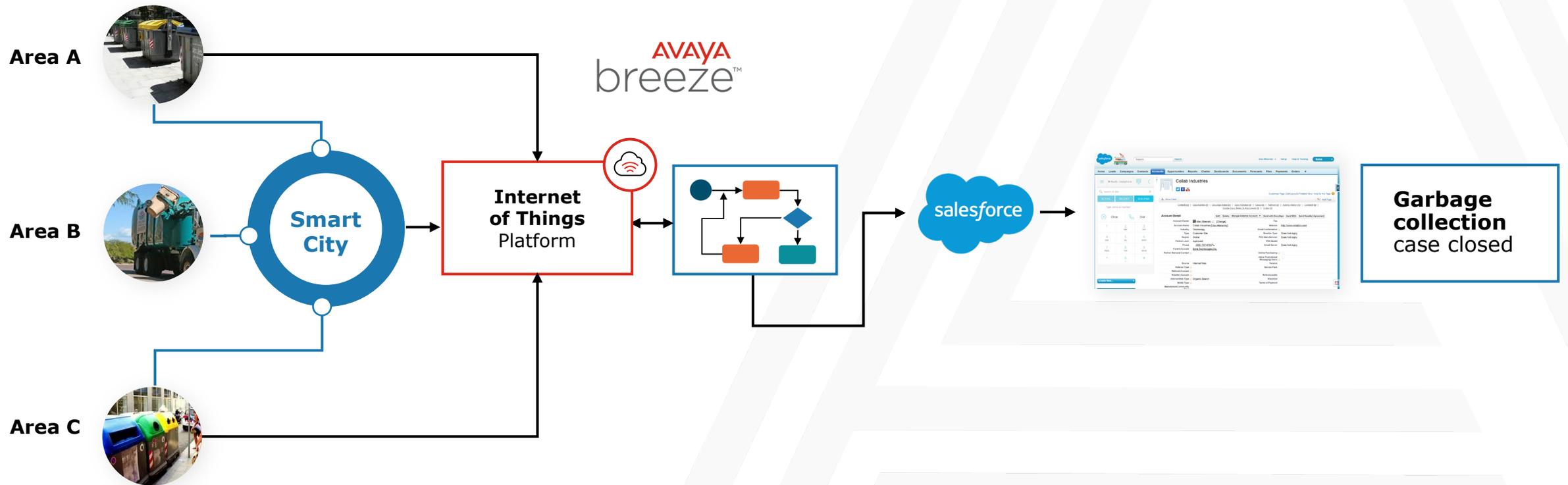
Smart Cities - Waste Management

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



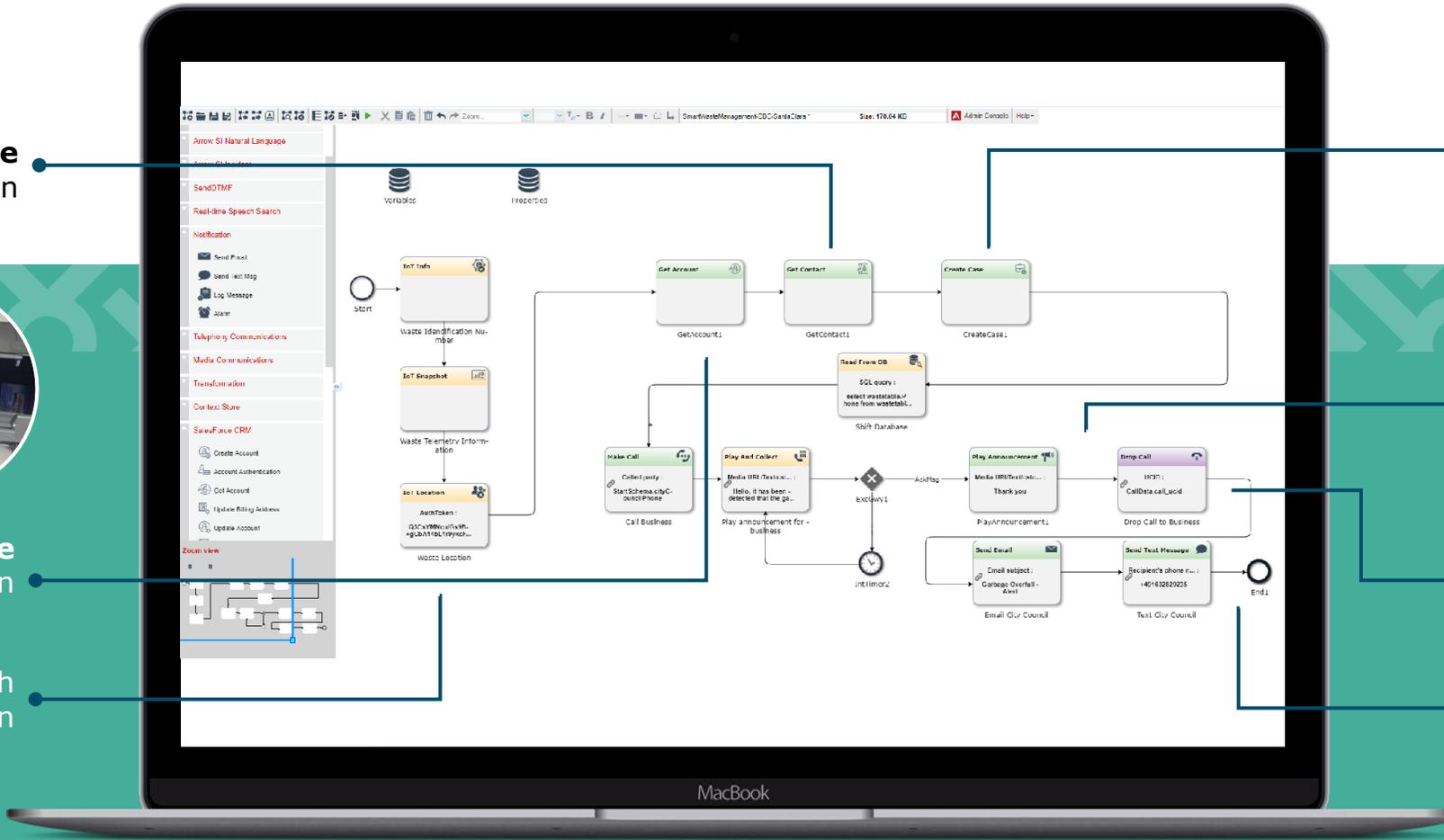
Salesforce Account resolution

Shift plan database lookup

Requesting trash level and location

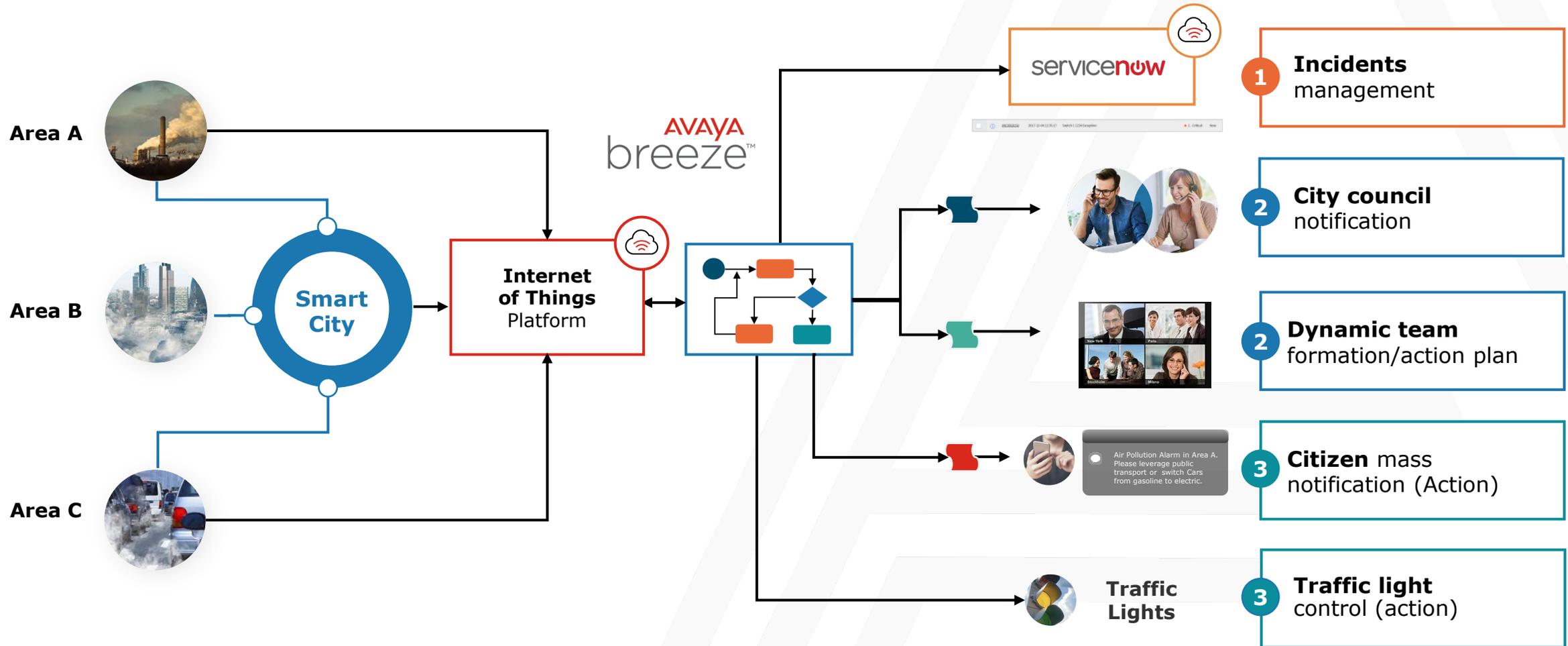
Staff notification of new case with SLA

Text message with case and location



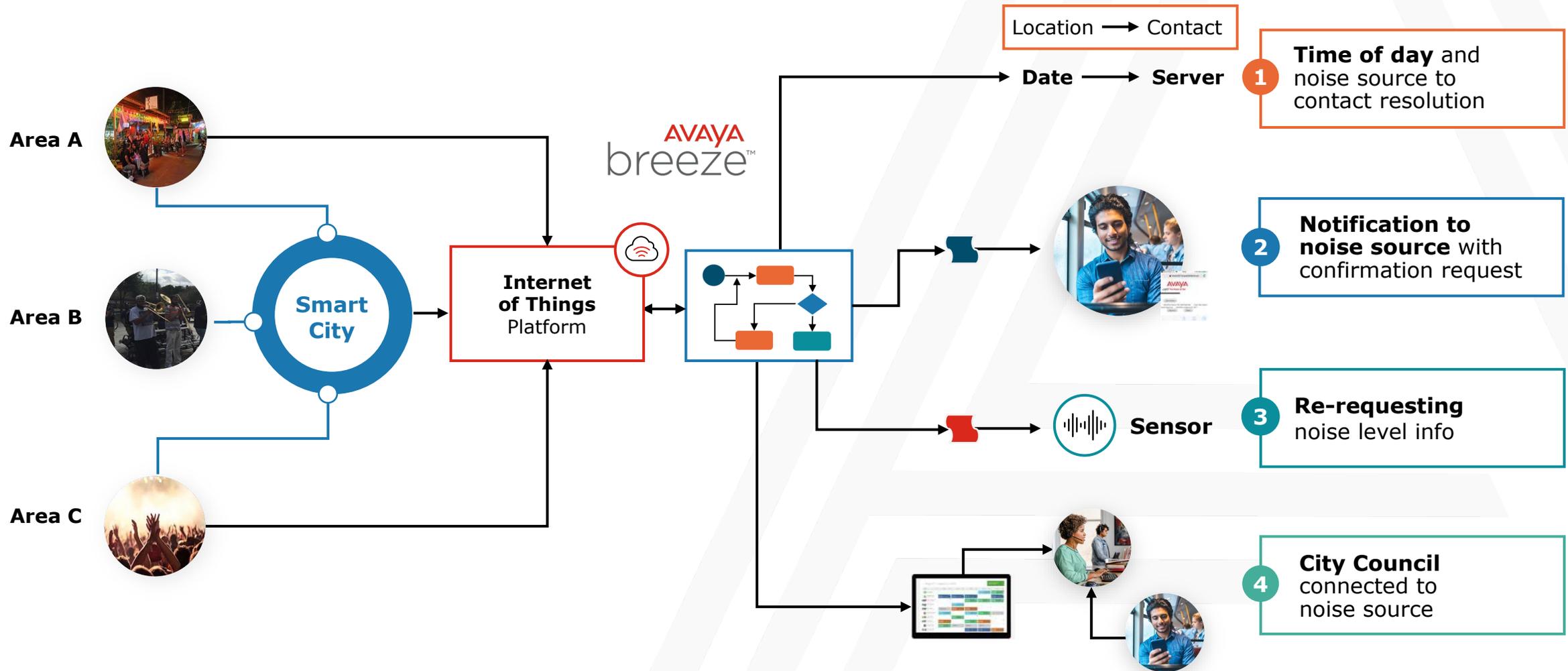
Smart Cities – Air Pollution

Situational Awareness for Faster Response Time



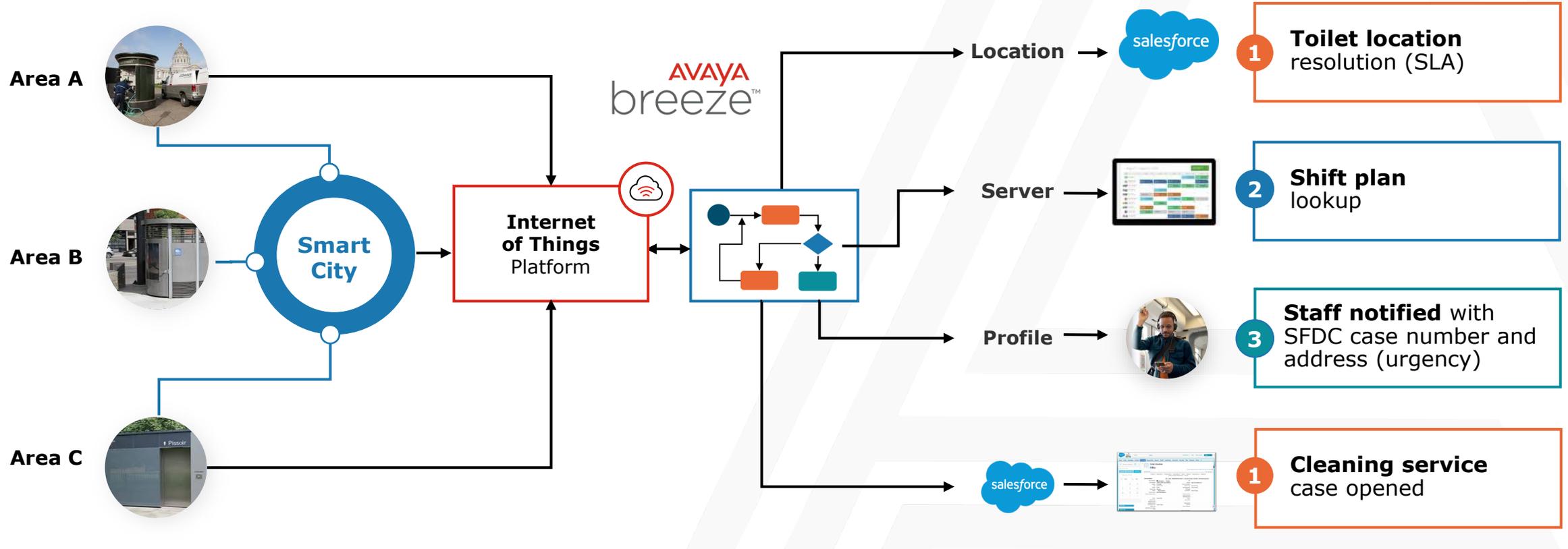
Smart Cities – Urban Noise Monitoring

Situational Awareness for Faster Response Time



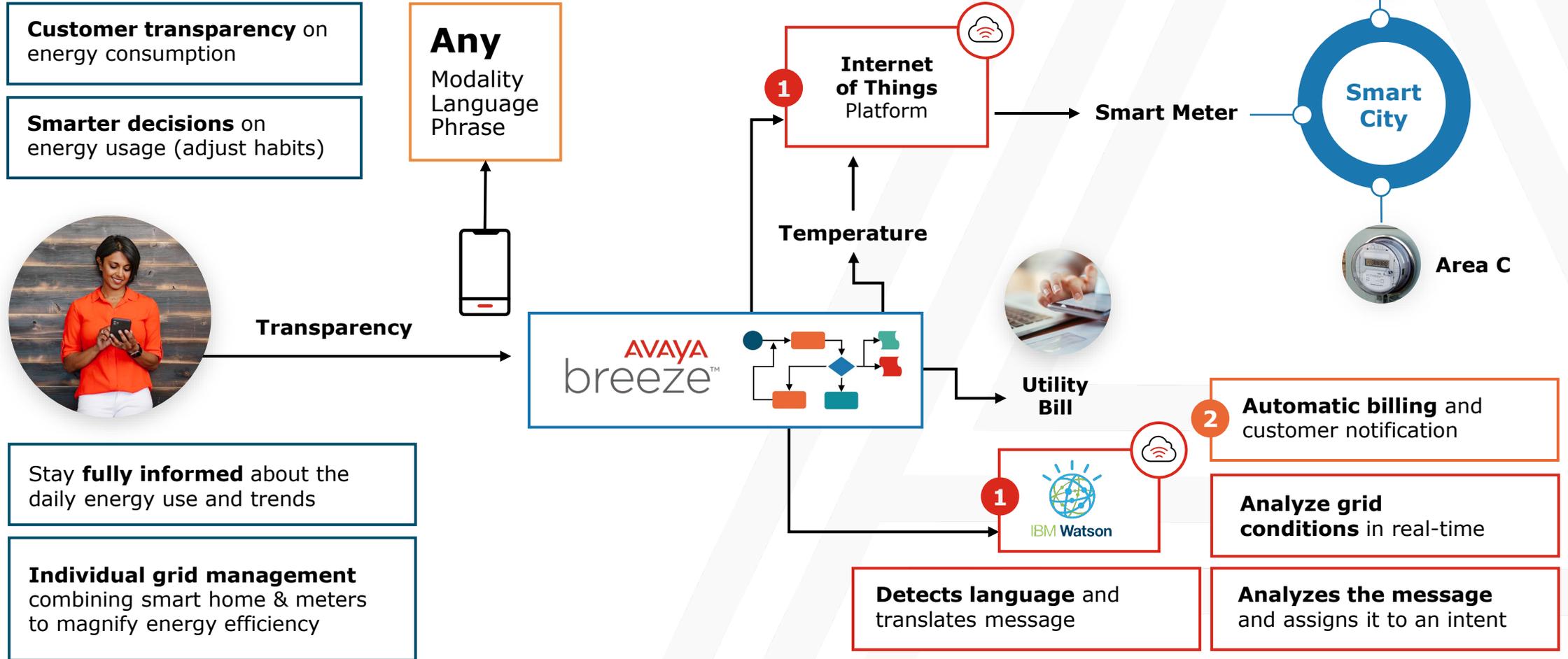
Smart Cities - On-demand Cleaning Services

Situational Awareness for Faster Response Time



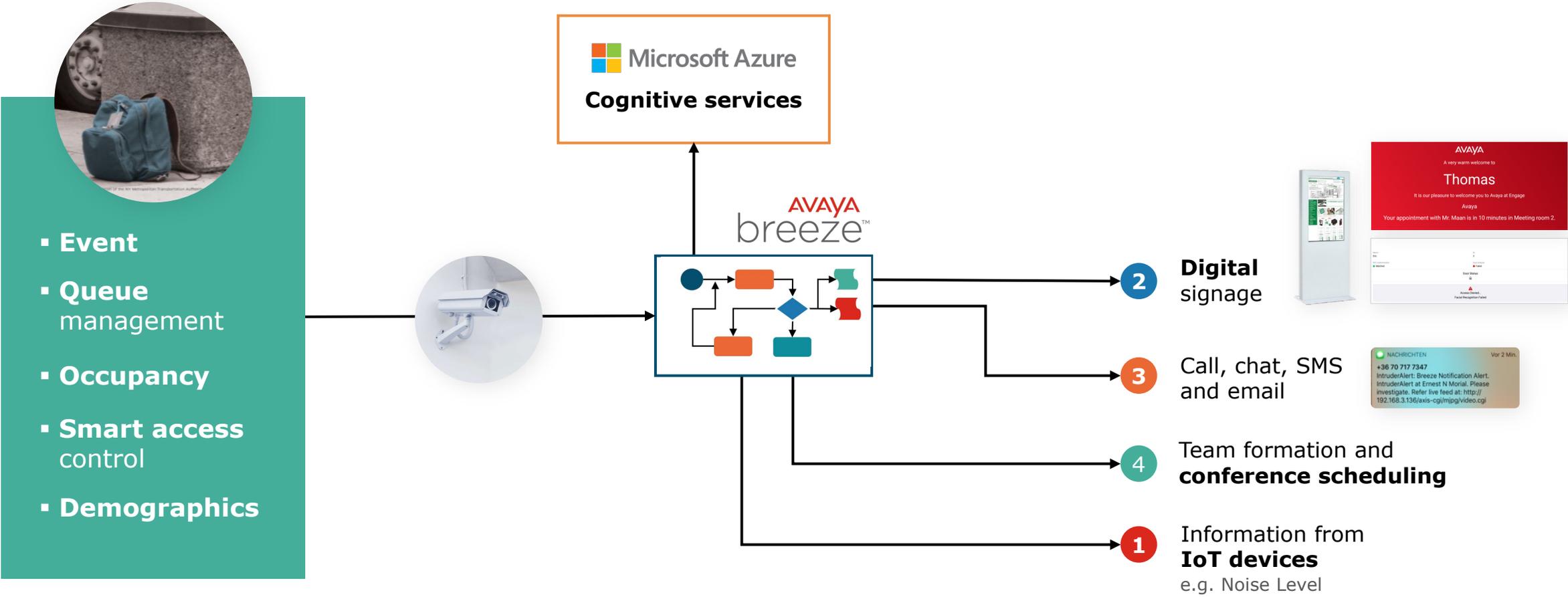
Smart Cities - Smart Metering

Creates a Win-win with IoT Data Insights

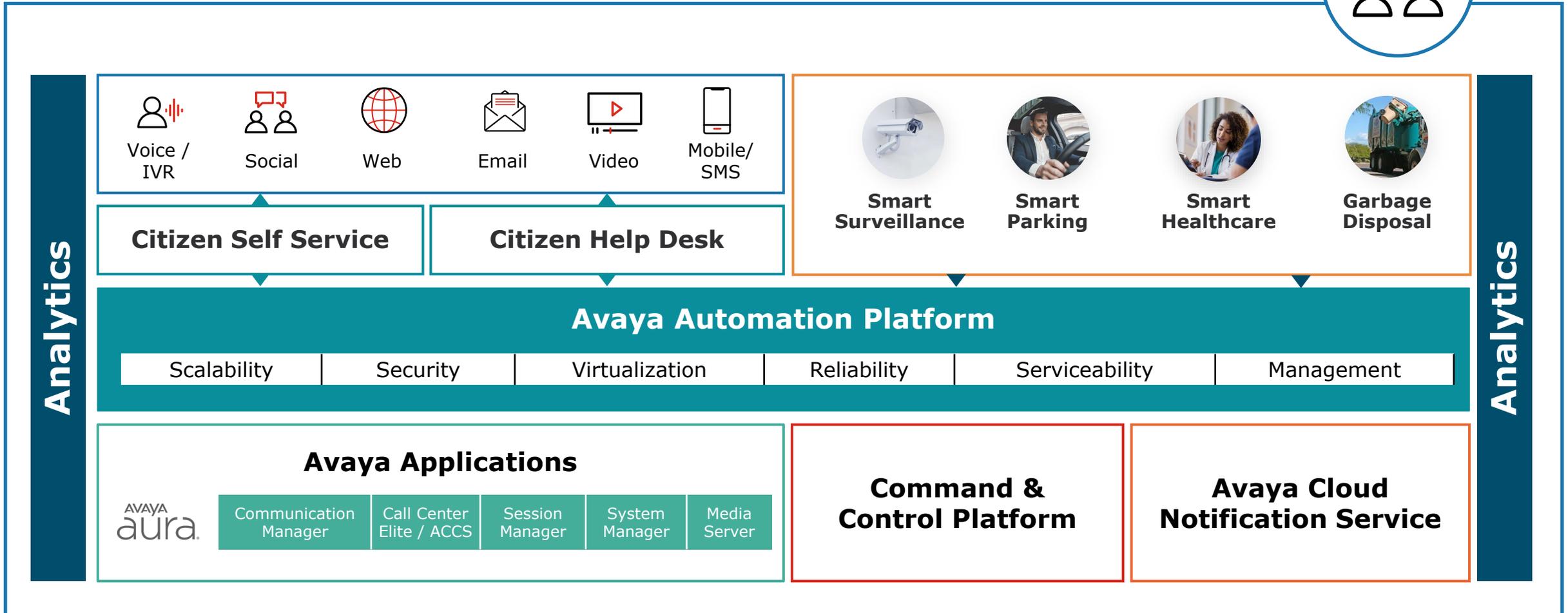
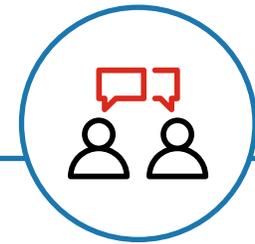


Blending Digital Into The Physical Experience

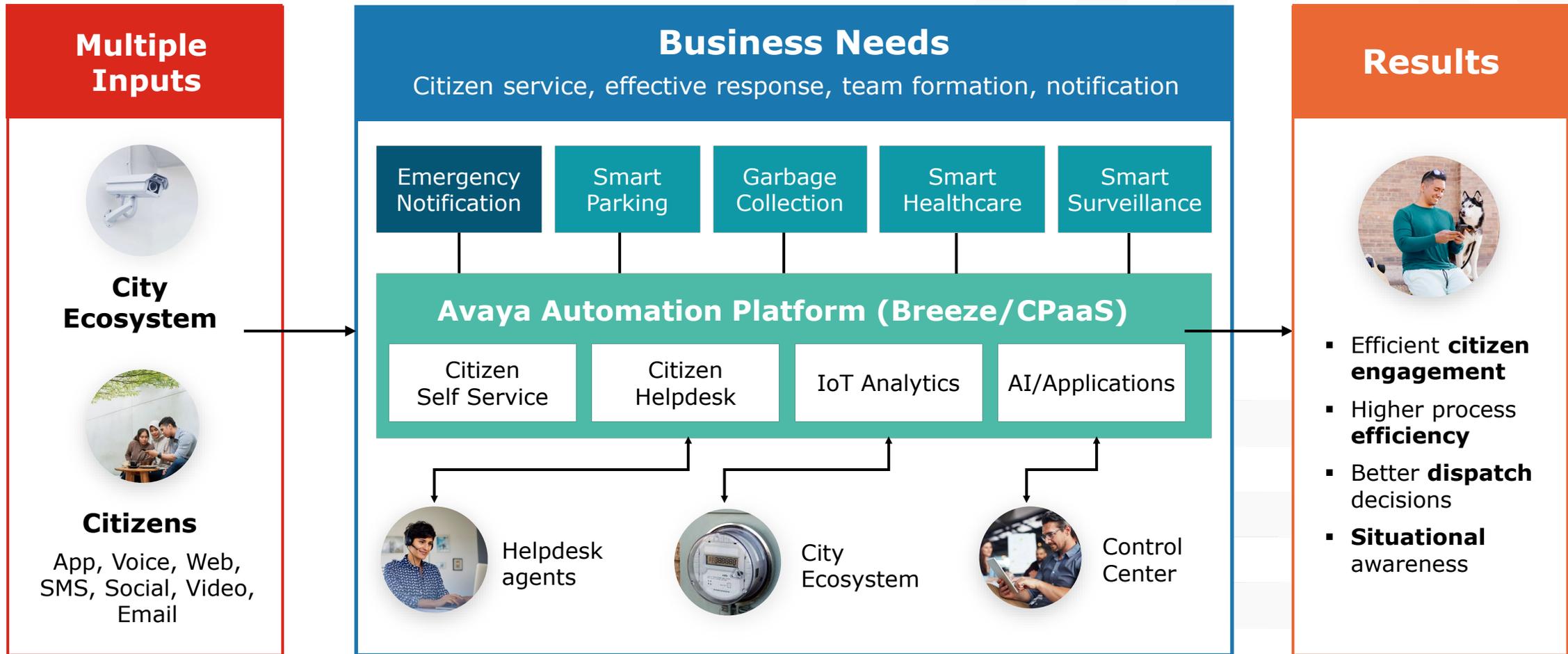
Seamless Integration of Stand-alone Technologies



Avaya Smart City Framework



Smart City = Smart Communications



The Kiosk for the Citizen



Self Service

- **Self help for citizens** at strategic city locations
- **Extend service** at the branch and the home
- Video **self-help, wait-treatment, two-way collaboration**

Two-Way Conference Video

Agent shares:

Video

Documents

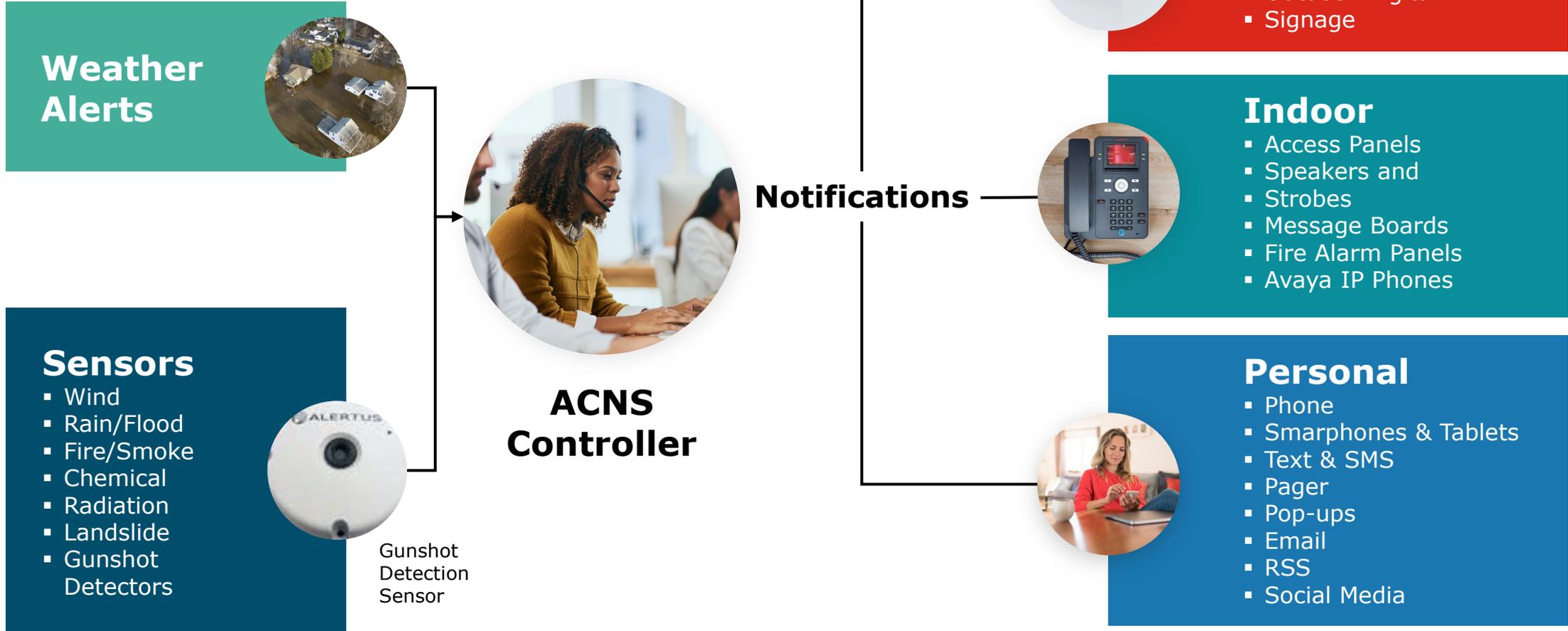
Web Pages

Smart Notification

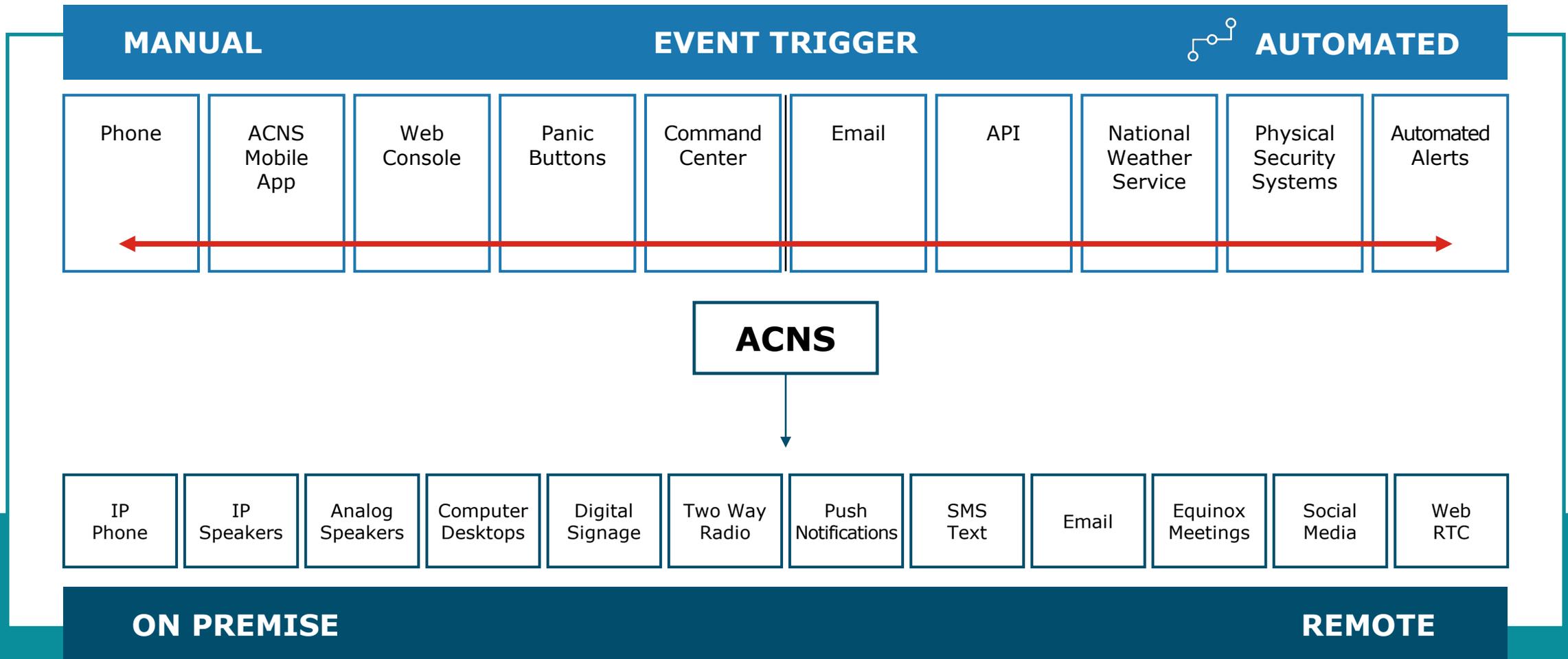
AVAYA



Threat Detection & Omni-Channel Mass Notification



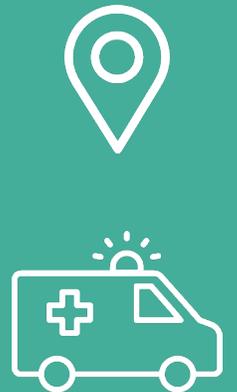
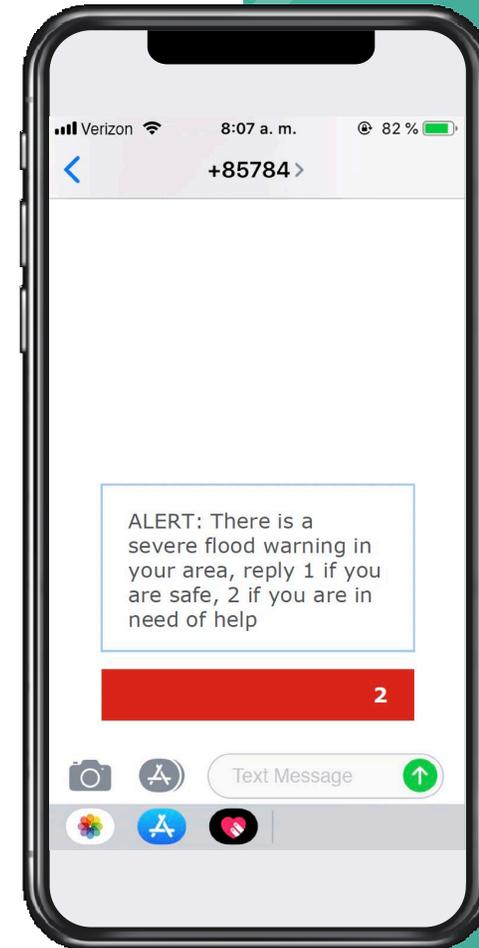
Avaya ACNS - Omni Channel Notification -



Safety Status and Location

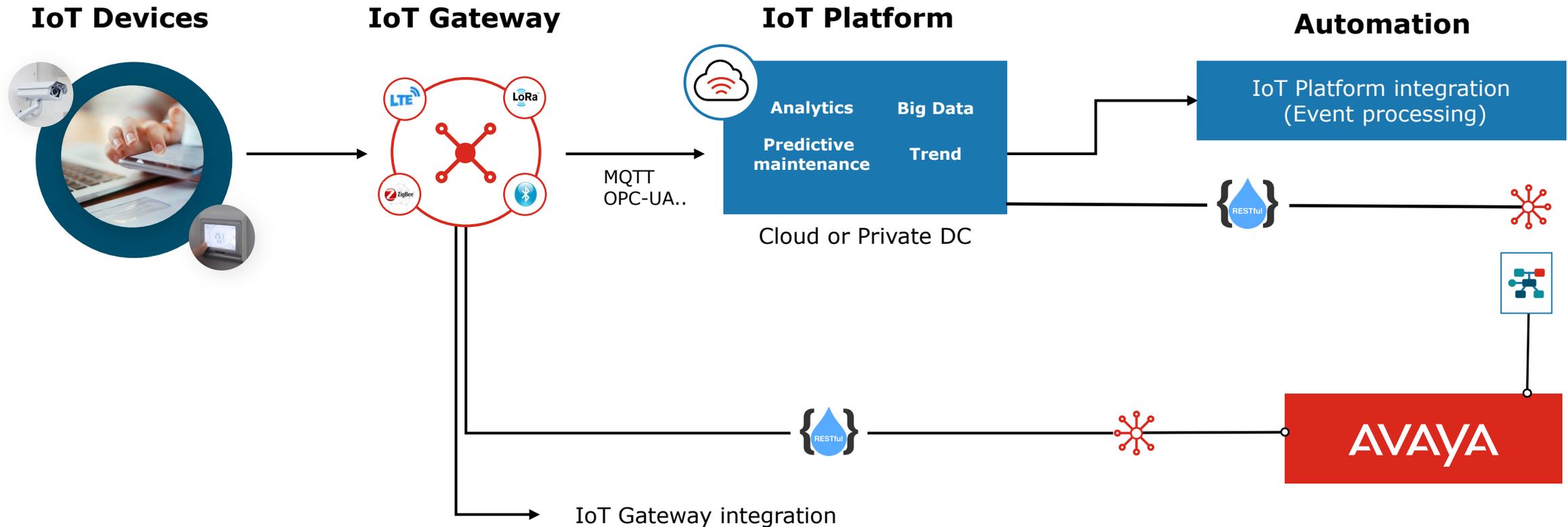
Advanced Mission-critical Interaction During an Emergency

- Triggered by premise equipment or manually
- Location services
- Output to emergency services
- Real-time awareness
- No app install necessary

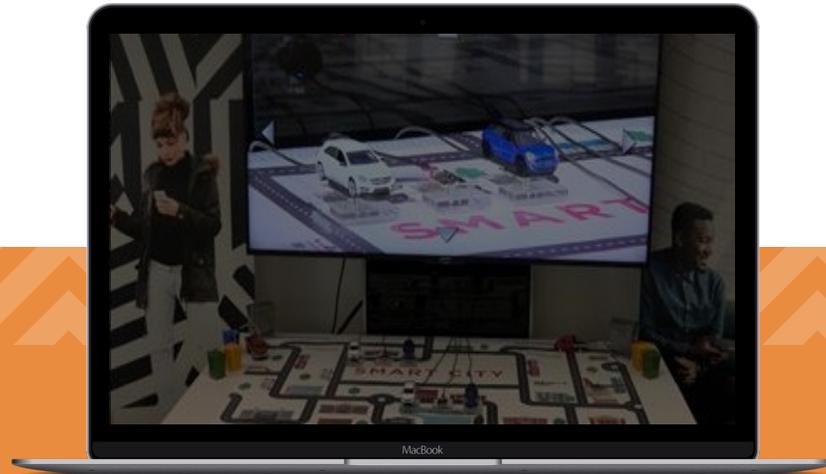


Avaya IoT Reference Architecture

Open by Default



YouTube Demo Videos



Smart Parking

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



Smart Waste Management

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

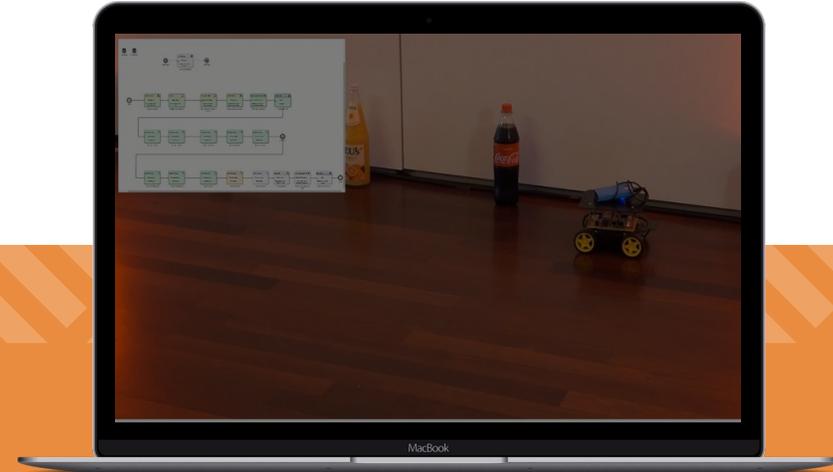
YouTube Demo Videos



Cops & Robbers

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

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



Smart Ordering

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

Recap

City administrators can drive more intelligent outcomes by **uniquely automating processes** and **seamlessly connecting citizens and employees** through a smart city ecosystem.

Avaya's Smart City Solutions intelligently connect and automate processes between people, machines, devices and LOB applications to ensure the right information is in the right place at the right time, maximizing business outcomes.





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.**"

AVAYA



Experiences
That Matter

www.avaya.com