



SMART FEEDBACK

Insights-as-a-Service

SaaS Platform for Real Time Management and Data Analytics
Of Streaming or Discrete Data From IOT or Digital Applications



Gaia: Digitalizing and Optimizing Operations for Smart Sites

SmartFeedback™



Monitor

Assets

People

Process

Experience

Supply Chain

Provide

Insights as a Service

Closed Loop Feedback

Action Response Engine

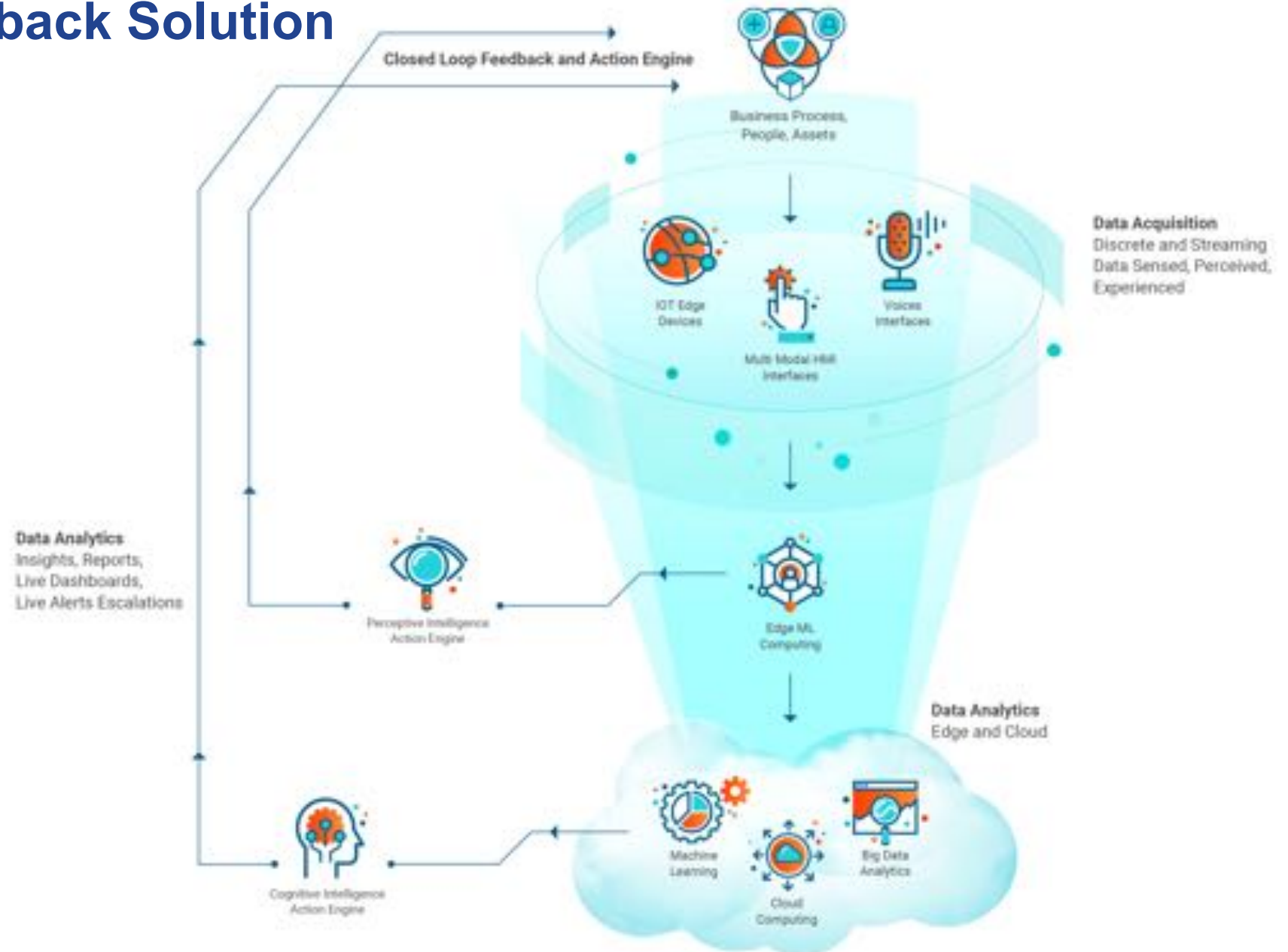
Digital Process Automation

Impact

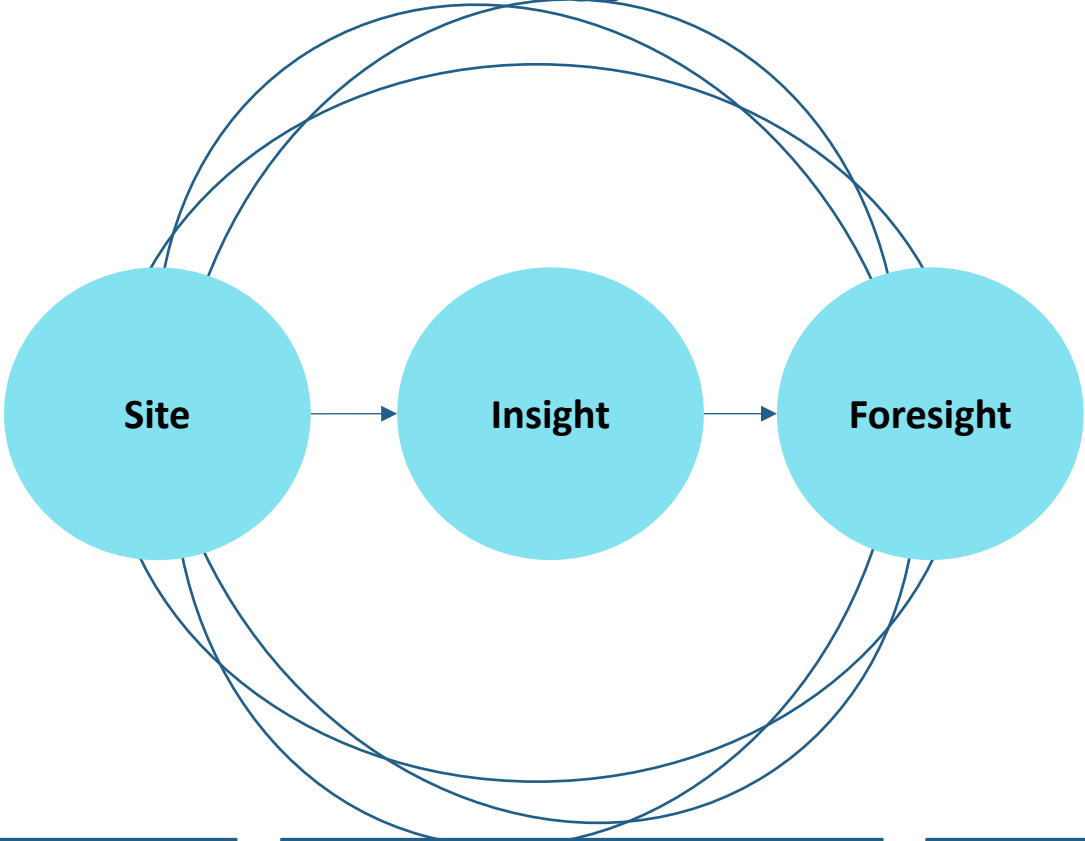
Business Performance . Operations Efficiency . Revenue

Assurance . Customer Satisfaction . Service Level

Gaia Smart Feedback Solution



Gaia Smart Feedback - Technology Overview



Data Acquisition
Collection: Ingest data from IOT devices or digital channels
Attribution: Multi-parameter data source attribution
Fusion: Add custom secondary data, on custom request

Data Insights
Analytics: Real Time, Time Series, Comparative Analytics
Visualization: GIS, Drill Down, Multi Parameter Charts
Action Engine: Custom Rules Engine, Auto Alerts, Multi Tier

Data Foresight
Integration: API Based, Link to Client ERP or CRM Systems
Enhanced Analytics: custom AI/ML algorithms for prediction
Custom Cognitive Automation: Custom Modules on request

Intelligent Edge - Smart Feedback Hardware Platform Features



Real Time Data Acquisition

Event Based & Streaming Data
Low Power Consumption Options



Multi Sensor Device

Configuration on Air



Connectivity Options

GSM/ BLE/ Wi Fi
Multi Network Capability



Customizable Firmware

Firmware Upgrade on Air
On Device Security



Backup Local Storage

Intelligent Data
Configurable Transmission



Edge Analytics

Edge Machine Learning
Edge Decision Making

Intelligent Cloud - Smart Feedback Software Platform Features



Device Management

Configuration & Rules
Groups Management



Stream Analytics

Real Time Cloud SaaS
Visually Rich Intelligence



Real Time Dashboards

Historical & Comparative
& GIS Reports



Alerts & Notifications

Custom Rules Driven
SMS / Email/ Alarm



Custom Relevant KPIs

Business Visibility
Process Automation Layers



API Integrations

End to End Approach
Multi Tenanted System

Insights as a Service – Data Acquisition from Multiple Sources

Customer Intelligence . Site Intelligence

Insight . Notify . Predict

SENSE

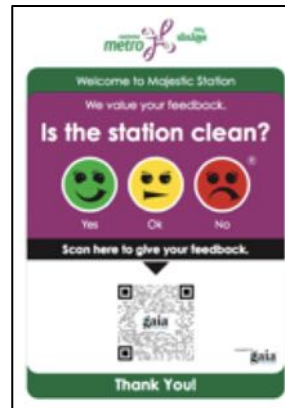


Multiple
Sensors
Integrated

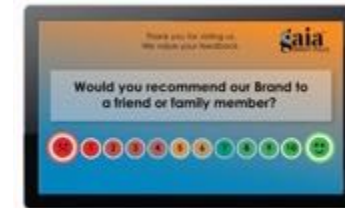
CLICK



SCAN



TAP



BEAM



VOICE

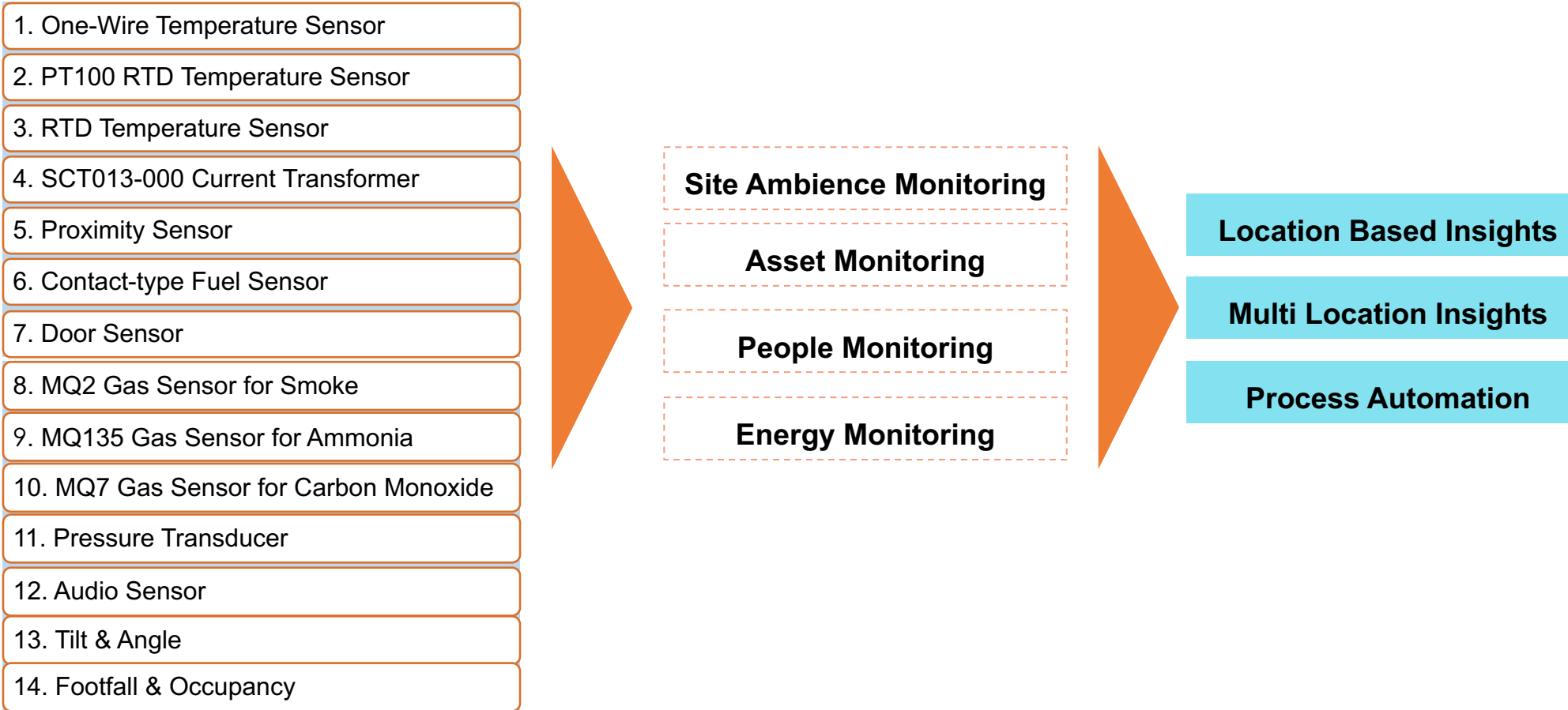


Speak your
feedback

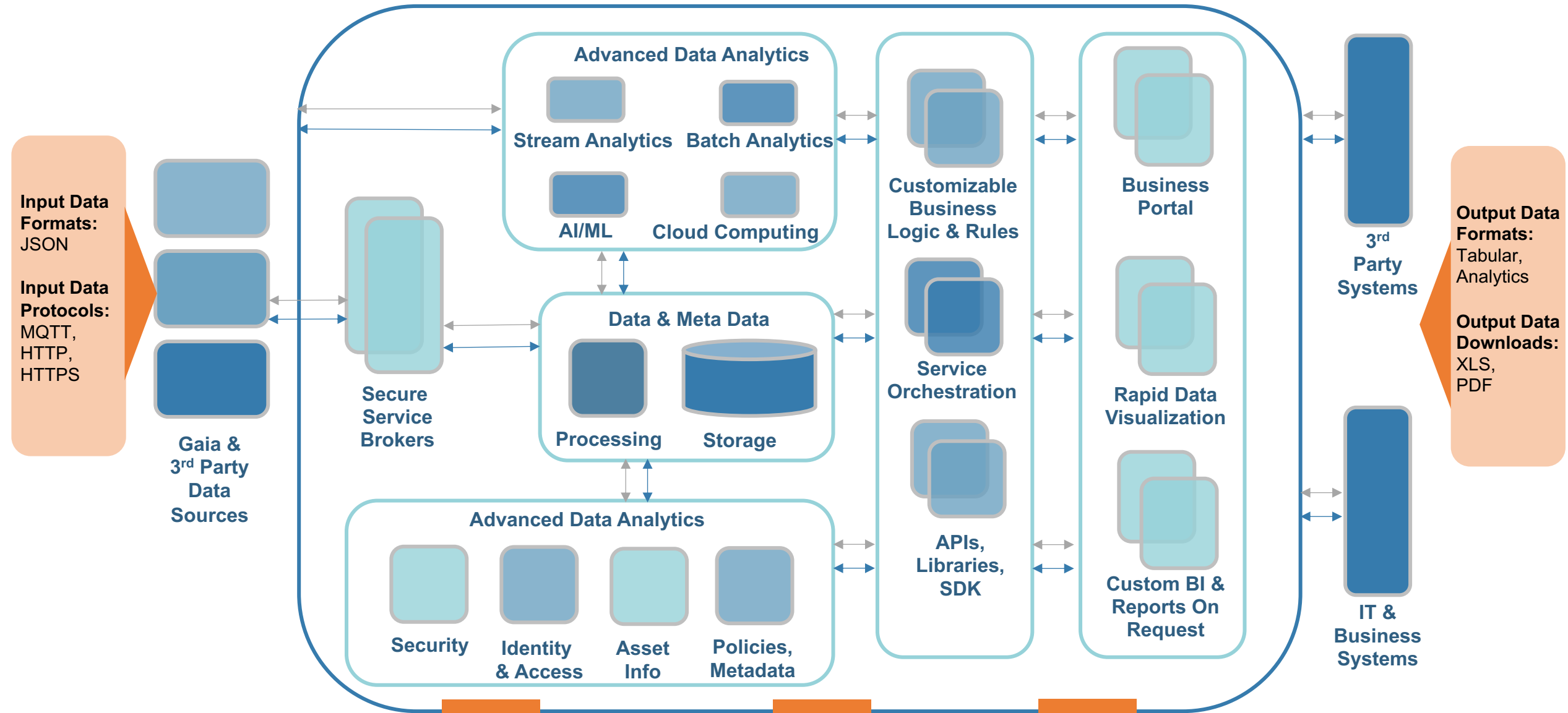
Streaming
Data

Discrete Event Based
Data

Pre-Integrated Sensors for Data Acquisition



SaaS Platform – Tech Architecture



Gaia Smart Feedback – Software Platform Layers

Data Visualization Layer



GIS visualization and intuitive drill down reports to showcase status, progress, trends, and alerts

Use Case Specific

Action Engine Layer



Rules Engine; Create alerts & escalations, and allow rules-driven communication via SMS & email; rules customizable by client

Common

Data Analytics Layer



Collate, transform, and analyze data to derive real time insights on KPIs, historical patterns

Use Case Specific

Data Management Layer



Manage structured and unstructured data with correct attribution across channels, devices, networks

Common

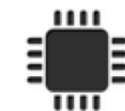
Data Collection Layer



Collect data from multiple channels. IOT channels (sensors, beacons). Sensors (13 types). Digital channels (digital data).

Use Case Specific

Device Management Layer



Manage multiple devices & sensors to bring data into cloud without loss, latency, lag, or errors

Common

Network Management Layer



Manage multiple gateways to bring data in from multiple locations into single cloud platform; send instructions back

Common

Communication Management Layer



Manage multiple communication modes to bring data into single cloud platform (GSM, Wi Fi, LoRa, BLE)

Common

Security & Fraud Analytics

Multi-Layer Software

Modular ICT Architecture

Scalable

Extensible

Robust & tested (in Gen 4)

SaaS Model

Streaming & Time-bound data

Ready for specific use cases:

Feedback, Temp, Power, Water

Software Tools: Java, Spring, Hibernate, Angular JS, Python, Shell Script, C, C++

Building Tools: Eclipse (Mars & Neon), Git Lab for Version Control, JenKins for deployment, Bower, Node IS, Gulp, Maven, IOT Hub, Event Hub

Databases: MySQL, MongoDB, Kafka Apache

Libraries: Panda, Numpy, Scikit Learn, TensorFlow, ARM Cortex M3 & M4 Series & DSP Libraries

Certifications: CE, ISO 9001:2015

Globally Recognized: Accelerator Support & Awards



Microsoft

2018 Cohort of the Global Microsoft Scale Up Program

2018 Microsoft Research Winner for Machine Learning on Edge Devices

LONDON
& PARTNERS



INDIA EMERGING TWENTY

2018 Cohort of the Mayor of London Business Program



First Indian Company in Innovation Lab

ARM

Embedded Partner

QUALCOMM

Qualcomm Design in India Challenge Grant for Voice IOT on Edge



Smart Feedback Customer Traction

120 Cities



32 Airports



200+ Trains



Retail Stores



Hospitals



Buildings



Warehouses



Exhibitions





Thank You

www.gaia.in