4A Labs

TECHNOLOGY AND INNOVATION BRILLIANTLY BLENDED

4A Labs

4A Smart Hospitality

4A Smart Hospitality is the 4A Labs's collective smart hotel initiatives and applications
that allow the customer access to and manage all hotel/room services
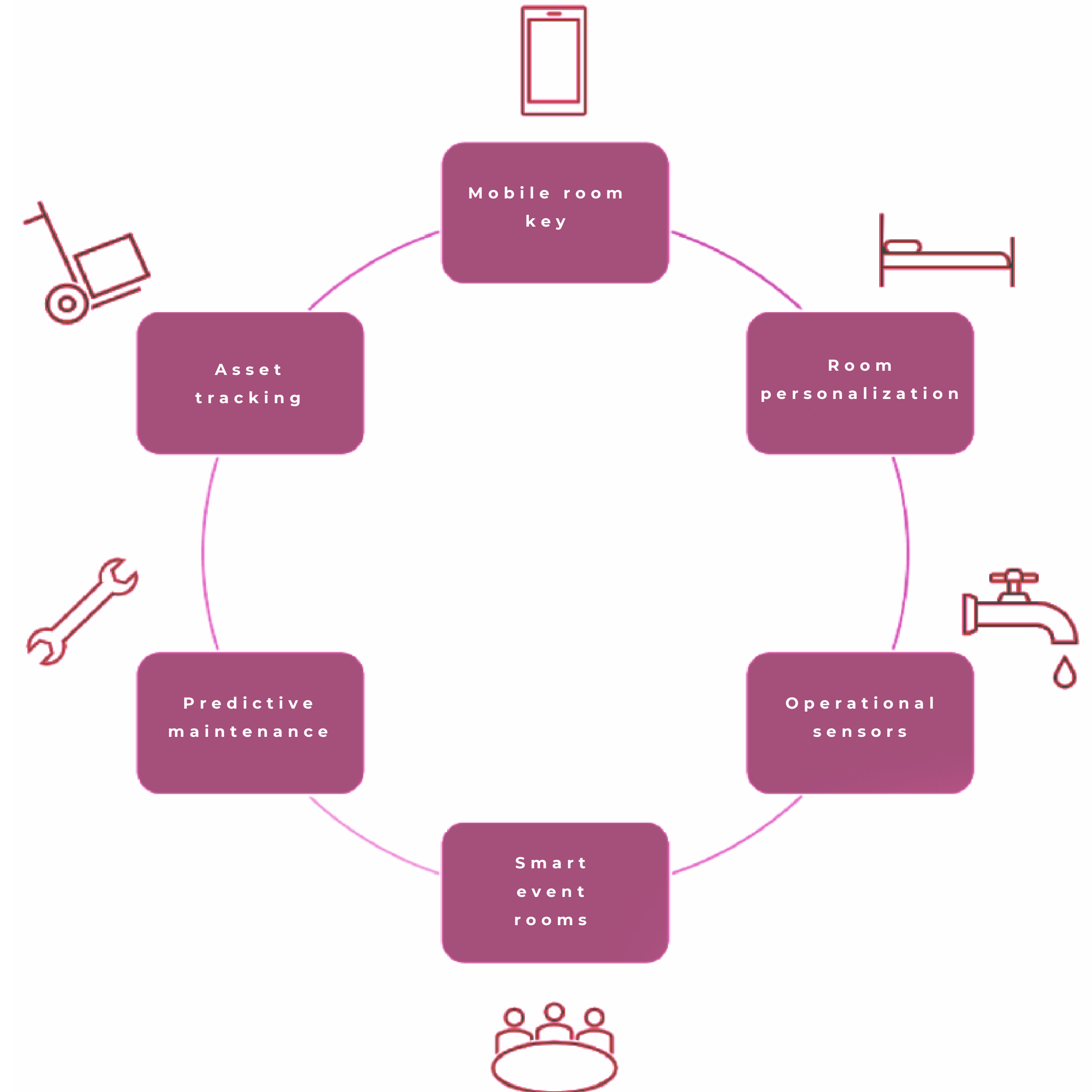through their mobile devices.

4A Labs

Our Smart Hospitality Vision

As technology has become the Catalyst and Prime Condition for success in the International Hospitality and Leisure Industry, 4A Smart Hospitality is aiming to become the global change agent and value driver, transforming both the guest experience and the operational deliverables of successful hospitality applications.

4A Labs

What does the 4A Smart Hospitality offer?

4A Smart Hospitality helps you transform the guest journey into a contactless journey, ensuring safety and experience.

Mobile room key

Room personalization

Operational sensors

Smart event rooms

Predictive maintenance

Asset tracking

A mobile (digital) key technology has many benefits over RFID keycards. Not only does it eliminate plastic waste that comes with producing cards, but it also provide more security. Since guests' phones are typically locked with a password, fingertip, or Face ID, the mobile key is protected even if the device is stolen. At the same time, it's more difficult to lose the phone than the keycard, removing the need to reissue it.

Mobile Keys

4A Labs

Hospitality is about giving shelter and comfort. But comfort is not universal. Using a network of connected devices, a customer can control their stay to the smallest detail from their phone or a device provided with the room, like Amazon Alexa or Google Nest. The possible customizations include the following.
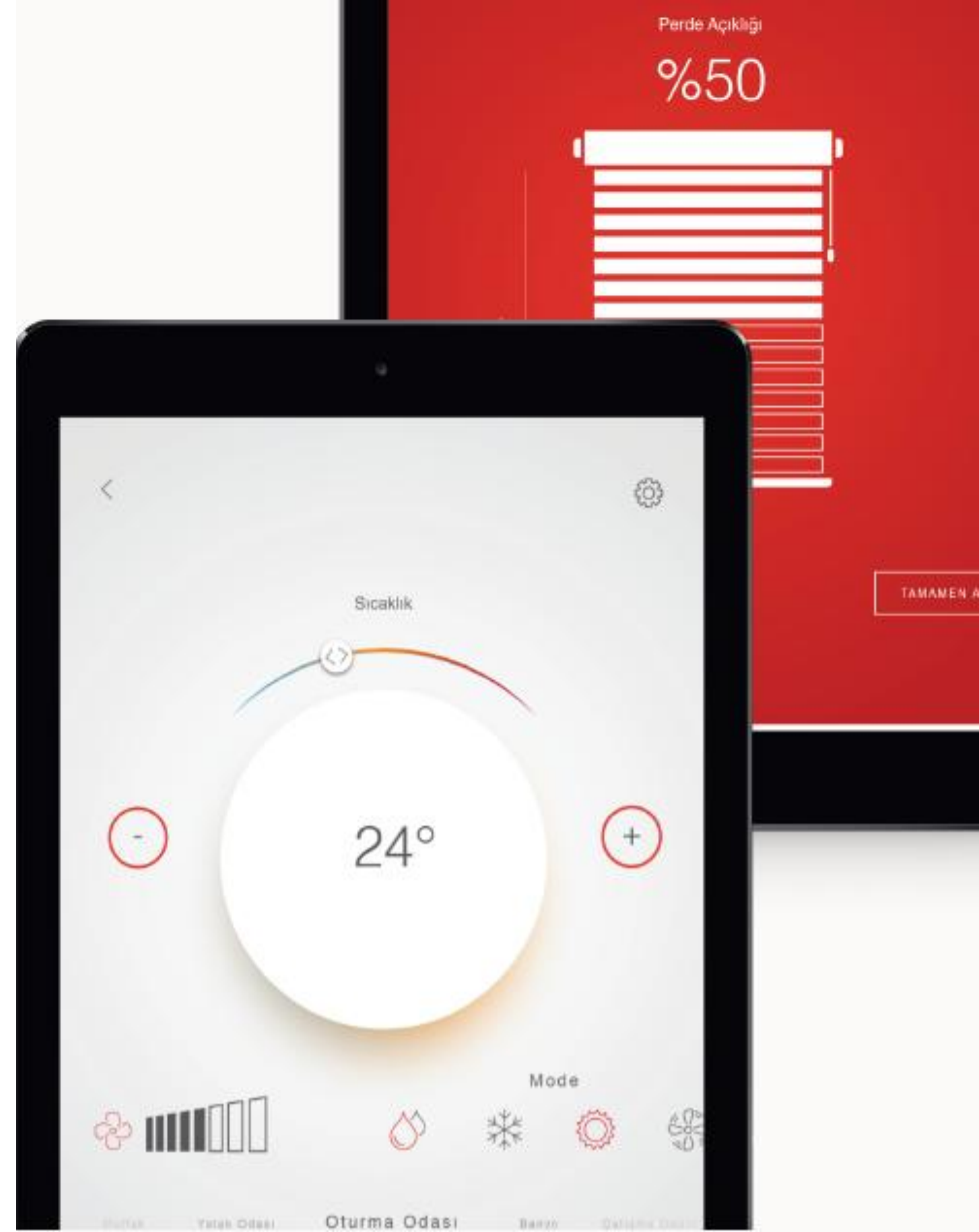
Room Personalization

Room Personalization

Lighting: Guests can control the color, temperature, and brightness of individual and groups of lights in the room, schedule their activities, and change the overall mood of the room as they desire.

Room Temperature: Heating or cooling the rooms before arrival, scheduling the temperature to go down during the night, and automatically resetting the thermostat after guests check out are some of the ways smart room temperature configuration can benefit guests and the hotel's energy savings.

Curtains & Shades: Guests can open and close curtains remotely or set up automatic controls based on time, for example, at sunrise and sunset.

A variety of sensors can alert you about what's happening at your property at any given moment. This includes the following.

- **Air quality**
- **Humidity**
- **Water leakage**
- **Occupancy**
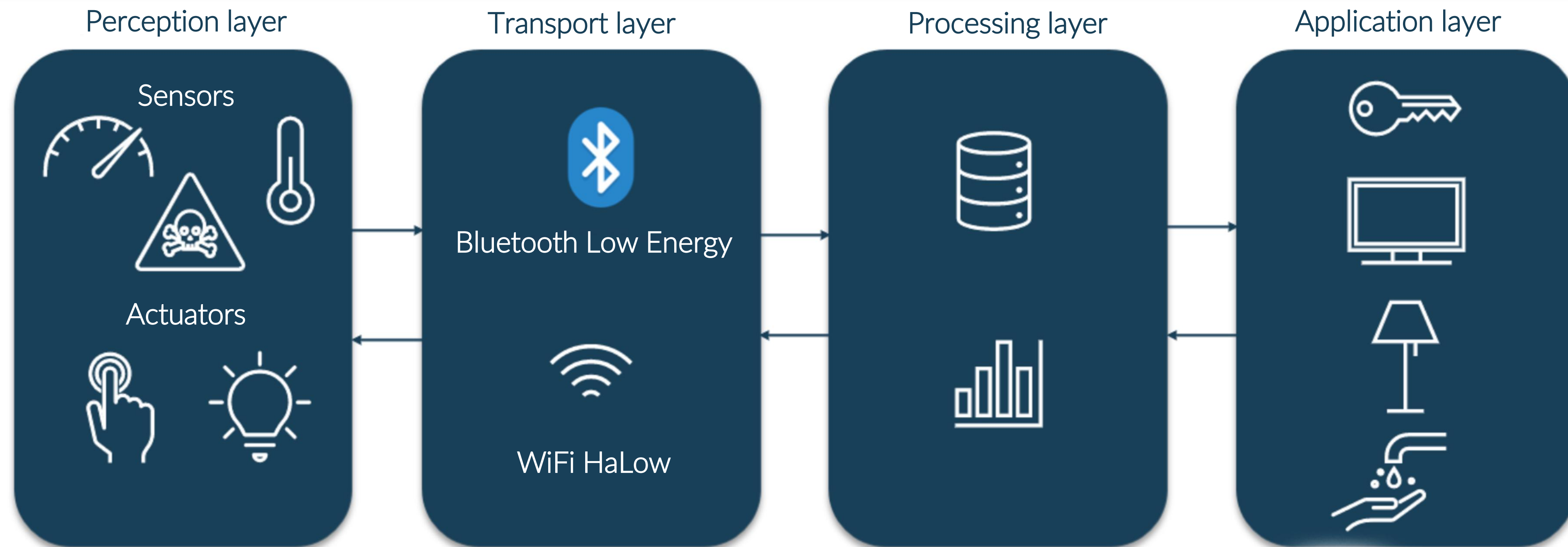
Operational Control

AIR QUALITY

Hotel conference and event spaces can also be more easily customized with the use of IoT. From a single platform, event hosts can operate and schedule light settings, temperature, door accesses, and more.

Smart Event Rooms

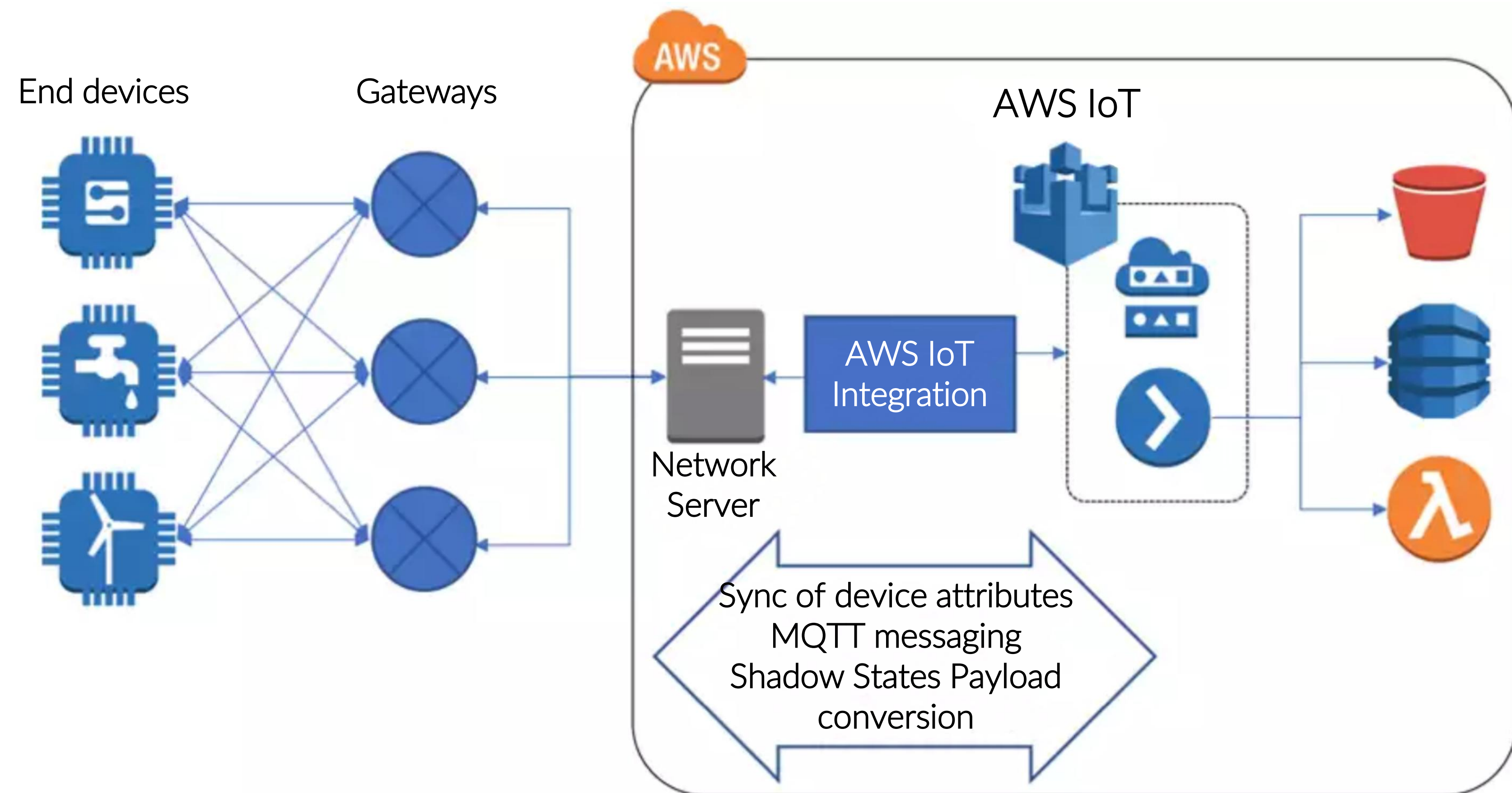4A Labs

Smart Hotel Components: How does it work?

The Internet of Things is not a single technology, but a combination of many of them working in tandem. The architecture of an IoT system may vary in complexity and the type of solution you are building. But it typically consists of the following building blocks.

Perception layer

Sensors

Actuators

Transport layer

Bluetooth Low Energy

WiFi HaLow

Processing layer

Application layer

Smart Hospitality Infrastructure

4A Labs

Processing Layer: Middleware and IoT Platforms

Data captured by devices is transmitted via communication methods to cloud middleware – IoT platforms responsible for linking that data to applications and other systems.

End devices   Gateways

AWS

AWS IoT

Network Server

AWS IoT Integration

Sync of device attributes
MQTT messaging
Shadow States Payload conversion

AWS IoT infrastructure
Source: AWS

4A Labs

Application Layer: Interfaces

IoT Middleware feeds the processed data onto the application layer, where end-users can operate various software to review analytics and access IoT features.

Applications can be accessed by two parties: guests and hotel staff. For guests, there is a variety of apps to control smart features:

4A Labs

Application Layer: Interfaces

Hotel employees typically can interact with these applications via a property management system.

Branded Hotel Apps or Provider Apps	Web Apps	Tablets installed in rooms	Kiosks	Voice-Activated Interfaces.

4A Labs

Our Clients

4A Labs

Get in Touch With Us

LOCATIONS

MIAMI, FL/USA
ISTANBUL/TURKEY
ANKARA/TURKEY
SANTIAGO/CHILE
LIMA/PERU
BOGOTÁ/COLOMBIA
www.4alabs.io

CONTACT US

info@4alabs.io

PHONE

US: +1 786 713 2697
TR: +90 212 282 83 85
CL: +56 2 2712 8722
PE: +51 1 743 6596
CO: +57 6019142284

FOLLOW US

Facebook
Twitter
Linkedin
Crunchbase
Instagram

4A Labs