



AWS - Nouvelles expériences Web Mobile avec AWS IoT et Amazon Alexa

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@aws_actus



@michaelgarcia_



31st May 2016

Dans cette session...

Contexte IoT

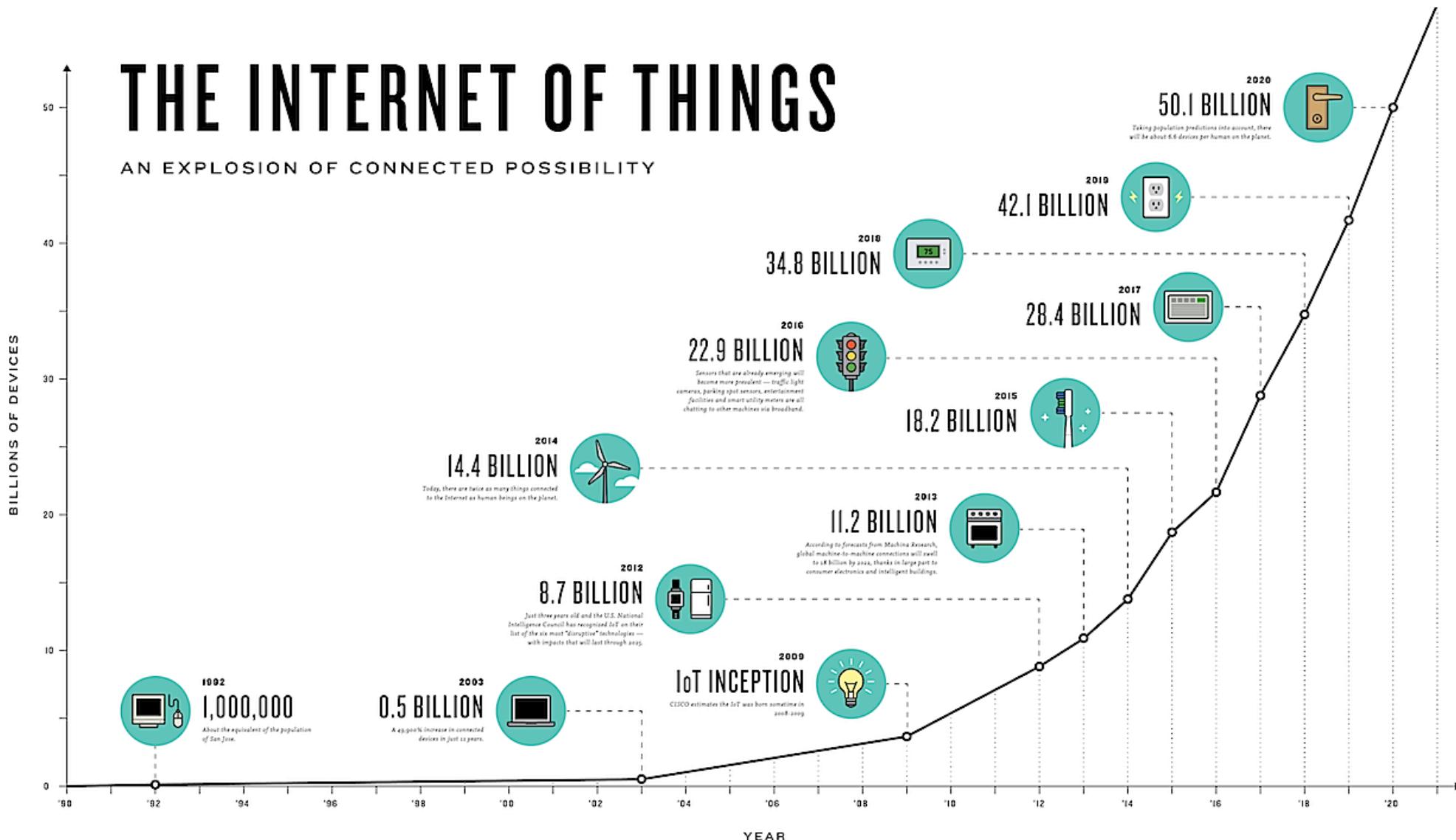
Démonstration Live !

Témoignage client/partenaire avec Z#bre

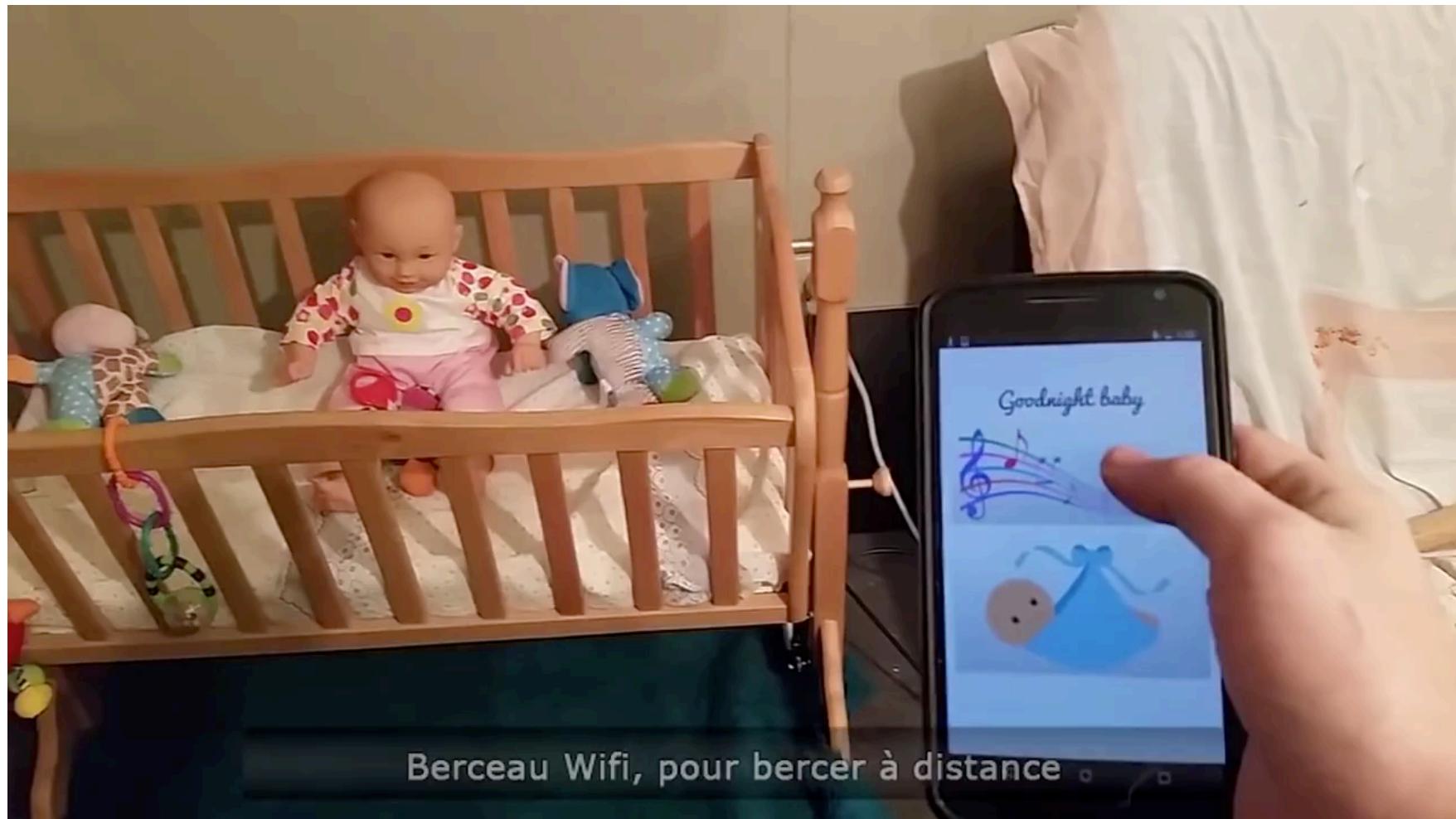
Tendances à venir

THE INTERNET OF THINGS

AN EXPLOSION OF CONNECTED POSSIBILITY



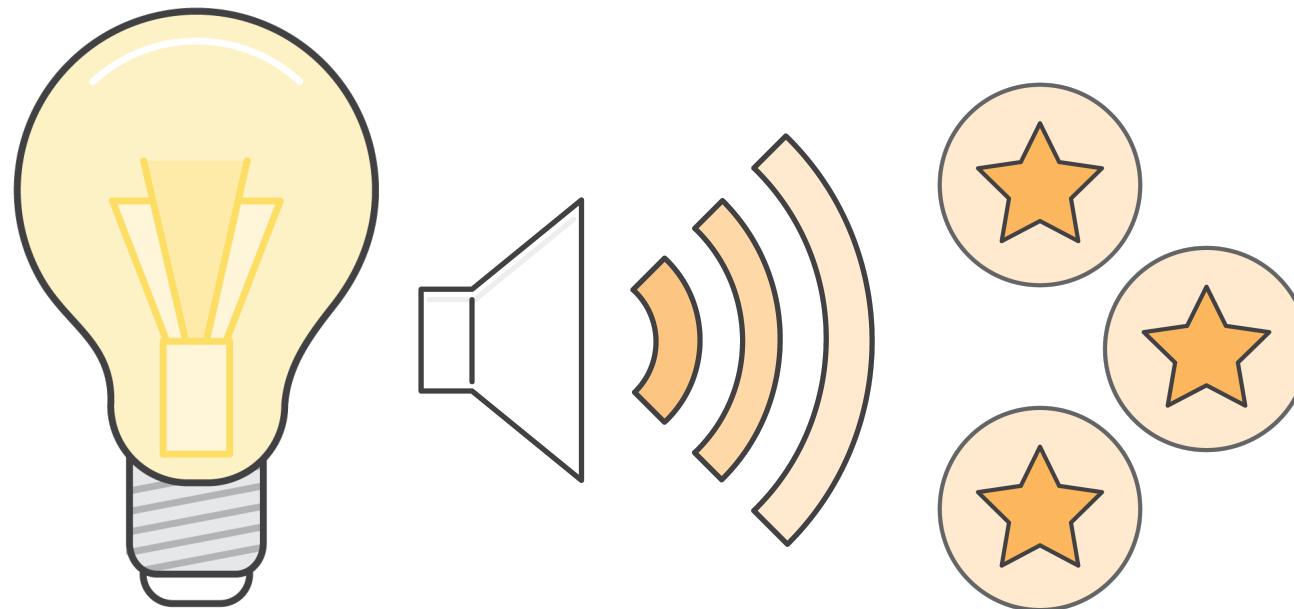




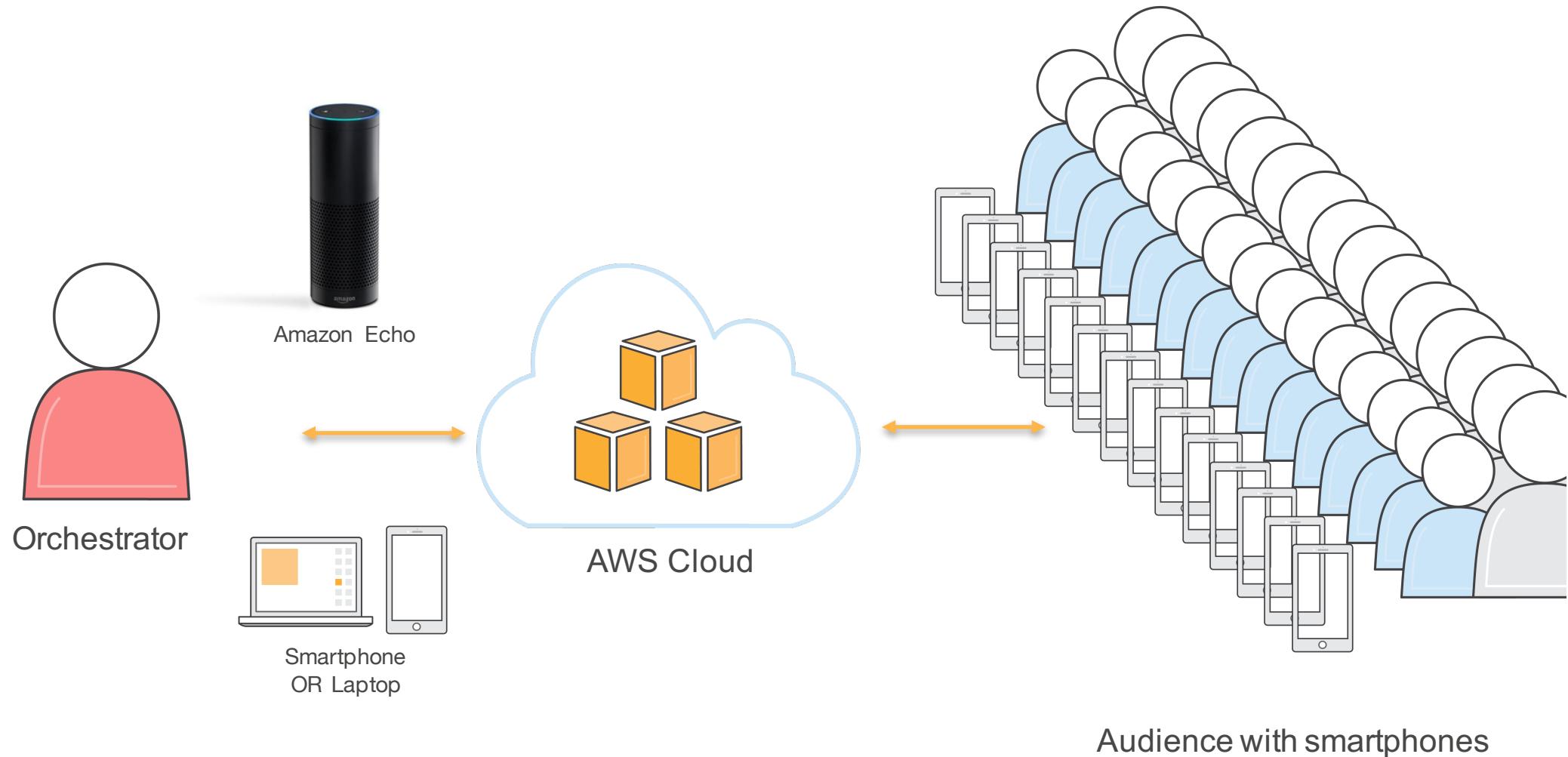
Berceau Wifi, pour bercer à distance

Demonstration

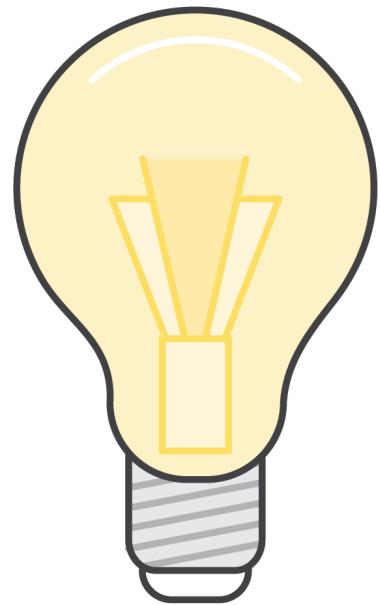
Amazon LightShow



Demonstration

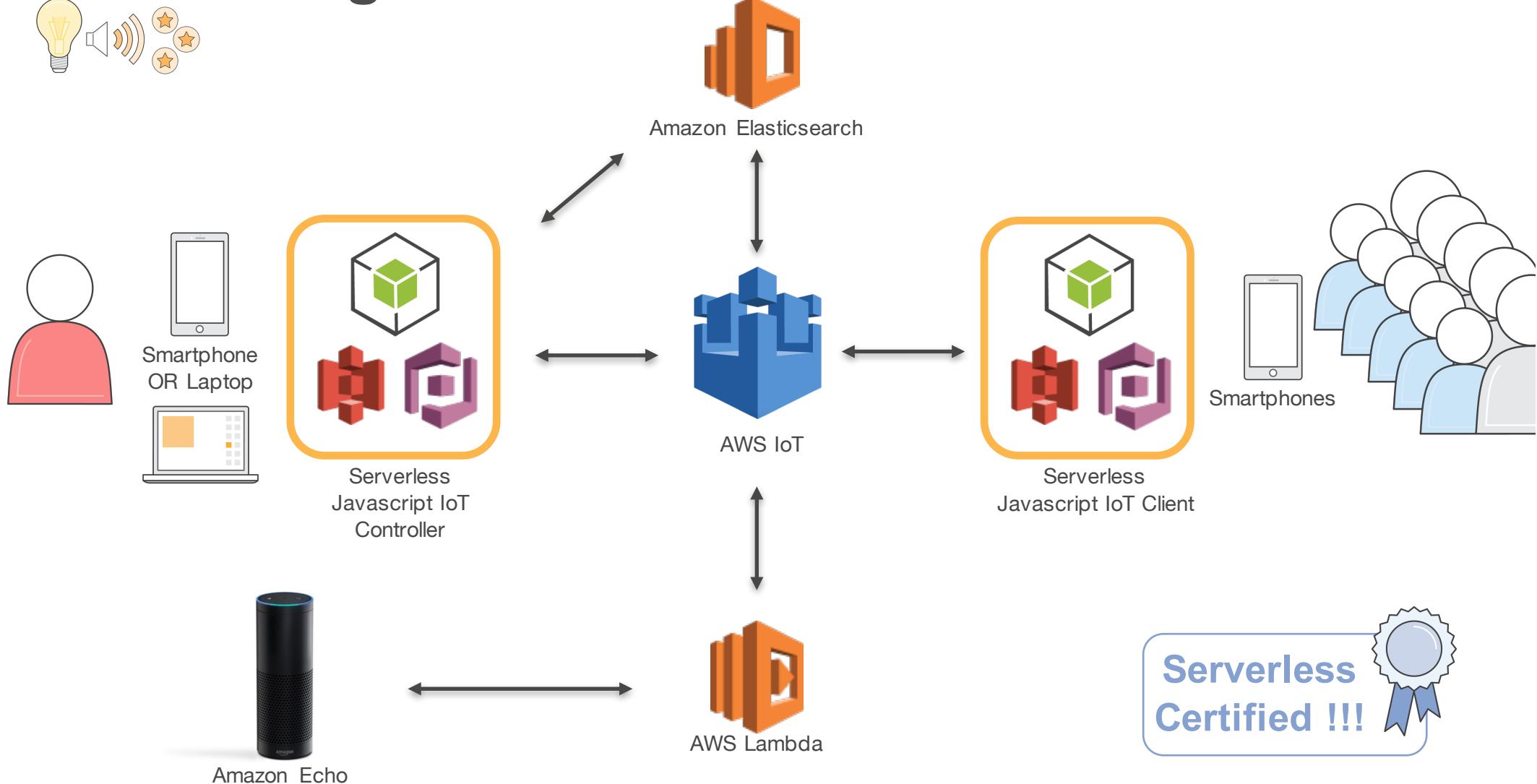


Demonstration

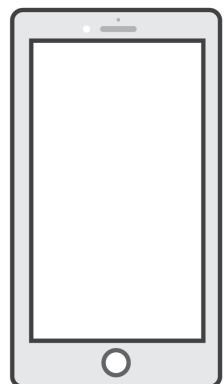


Virtual Light Bulb

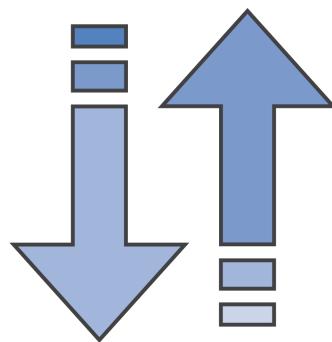
Amazon LightShow



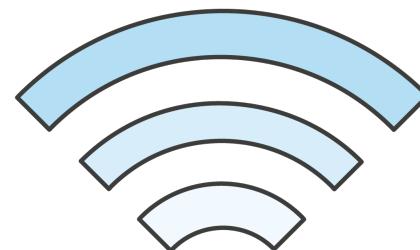
A vos smartphones !!



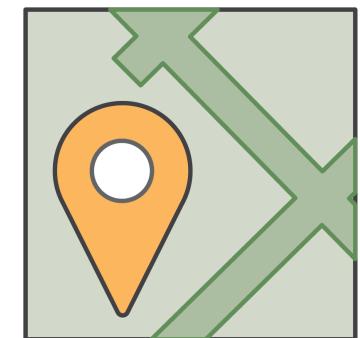
Smartphone
Mise en veille
Luminosité



Données
cellulaires



WiFi



Geolocalisation



Demo Time !

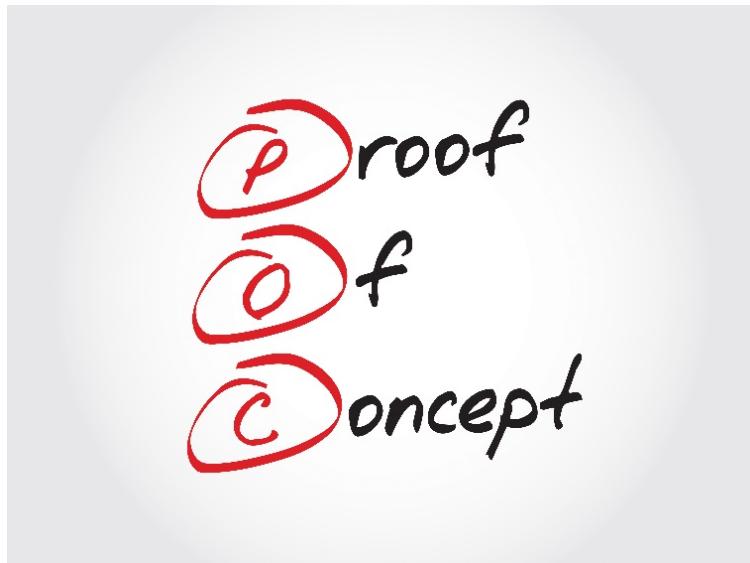
<https://bit.ly/summitparis>

Témoignage client/partenaire avec Jean-Paul Huon de Z#BRE



Connected Business provider

Qu'avez-vous vu ?



La réalité « Business »



-3 M€ / an



10.000 personnes
équipées en 6 mois

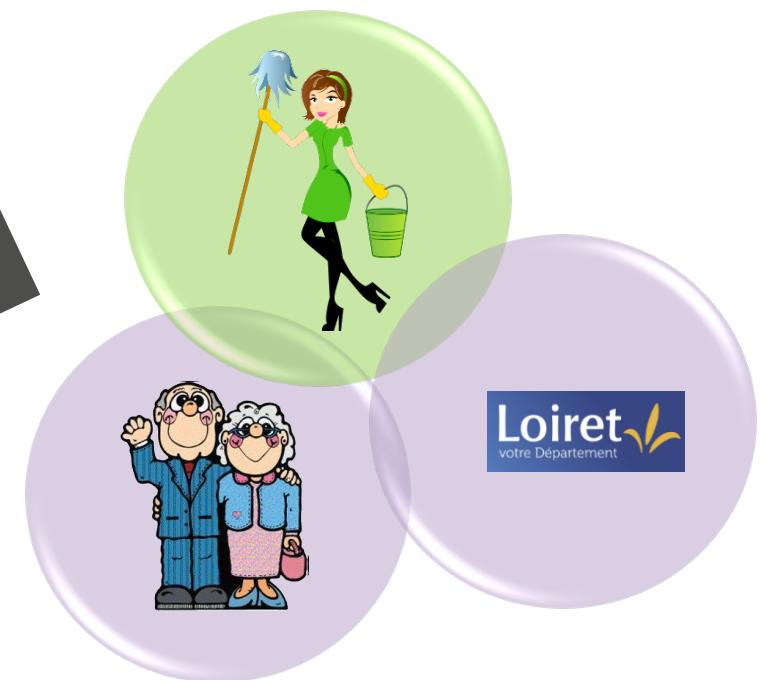
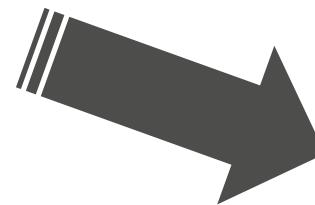


Familles informées
en temps réel



Opérationnel
depuis 18 mois

La réalité « Business »

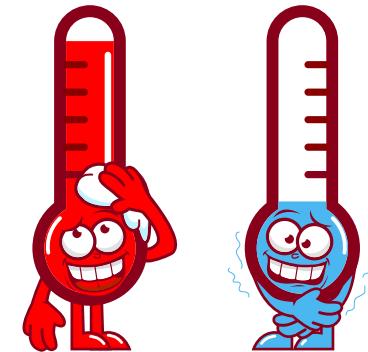


Un département repositionné

La réalité « Technique »



Design électronique
 



0 raccordement
0 paramétrage



La réalité « Technique »



8 SI interconnectés



10.000 objets en 6 mois



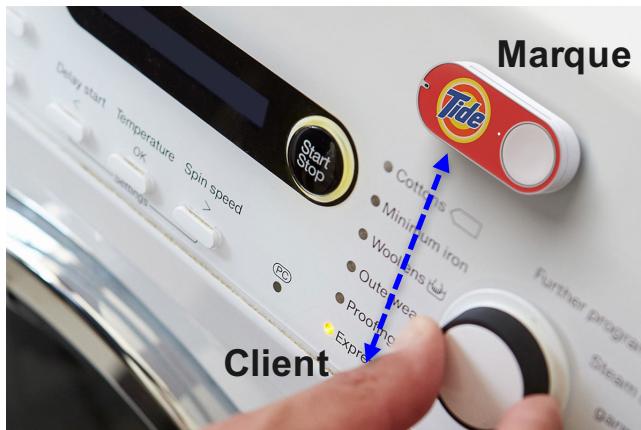
Sécurité



Évolutivité (tests / stabilité)

L'IoT ça sert à quoi ...

à redéfinir les modèles économiques des entreprises



Ré-intermédiaire
(lien direct et temps réel)



Créer de la valeur
(interne / externe)

L'IoT c'est pour quand...



L'IoT c'est pour qui ...



Finance



Automobile



Santé



Smart City



Énergie



FM

Notre terrain de jeux ;-)



Merci



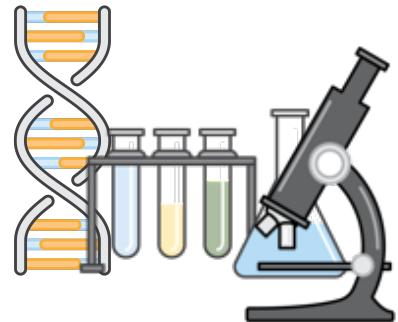
www.zbre.fr



Jean-Paul HUON – CTO

Tendances à venir

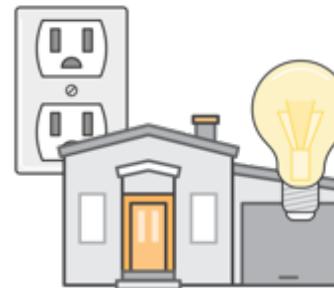
Toutes les industries sont concernées



Healthcare and Life Sciences



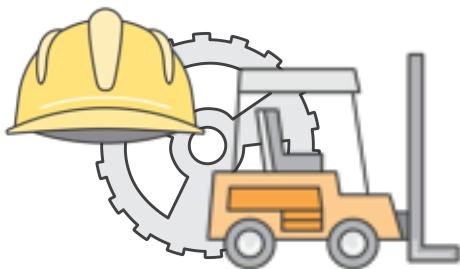
Smart City



Smart Home



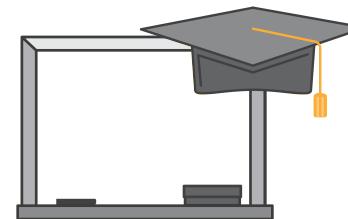
Retail



Manufacturing, Logistics & Supply Chain



Agriculture



Education



Automotive

Clients IoT sur AWS



Industrial Internet



Connected Healthcare



rachio™

Connected Sprinkler



BI from Vehicle Sensor data



Remote Speaker Monitoring and Management



Video Monitoring



Control home heating & water with mobile app



Consumer Smart Device Electronics

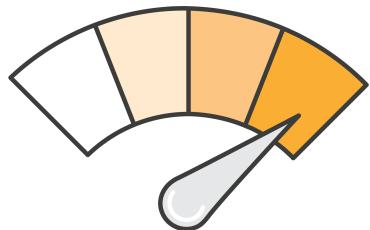


Fleet Tracking And Monitoring

Les challenges pour les développeurs



Many SDKs &
Tools



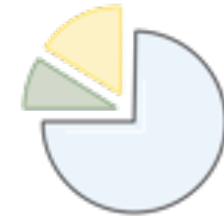
Scalability



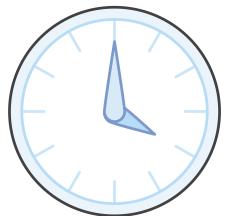
Security &
Management



Cloud Powered
Apps

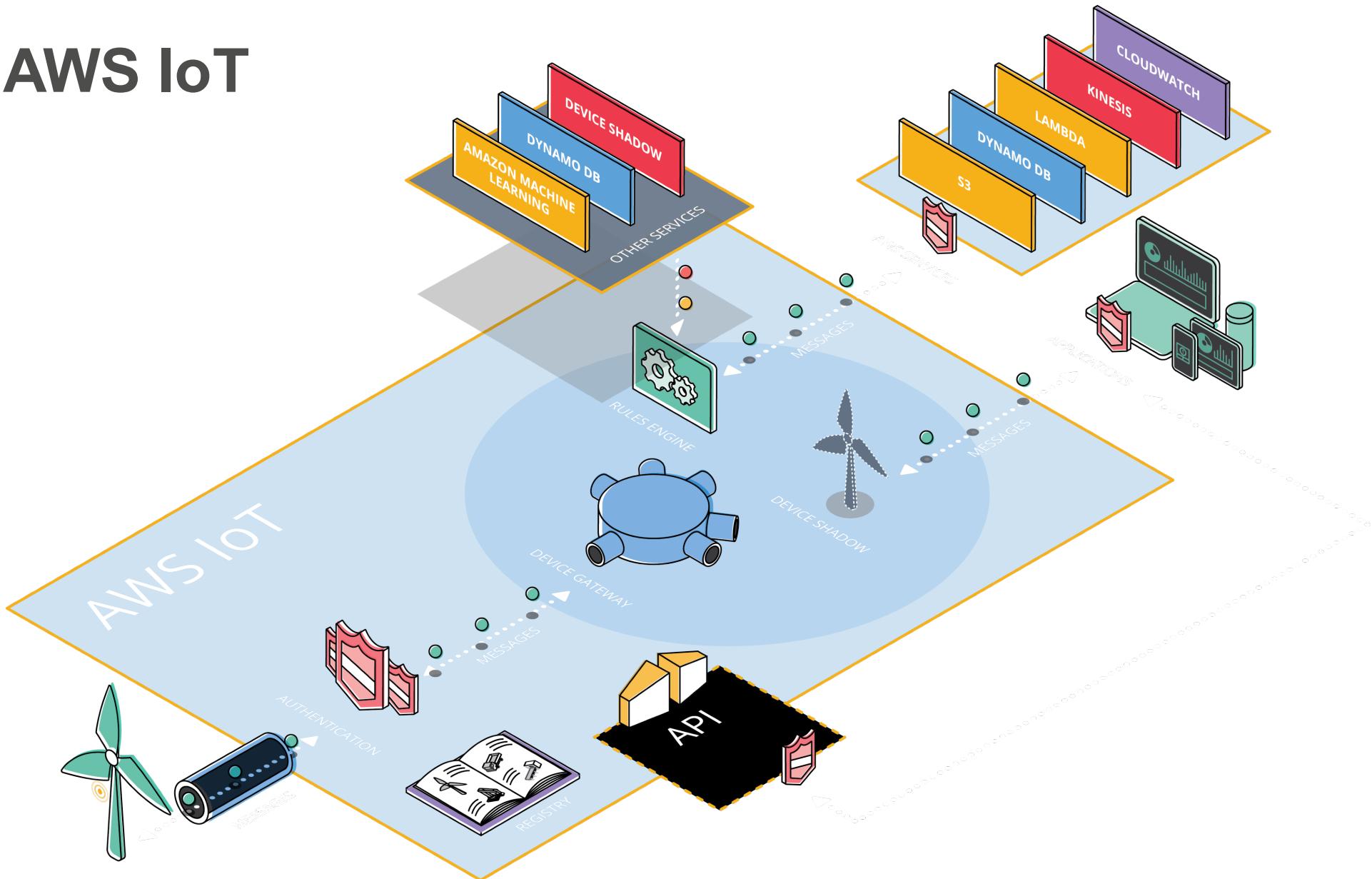


Big Data &
Analytics



Prediction

AWS IoT

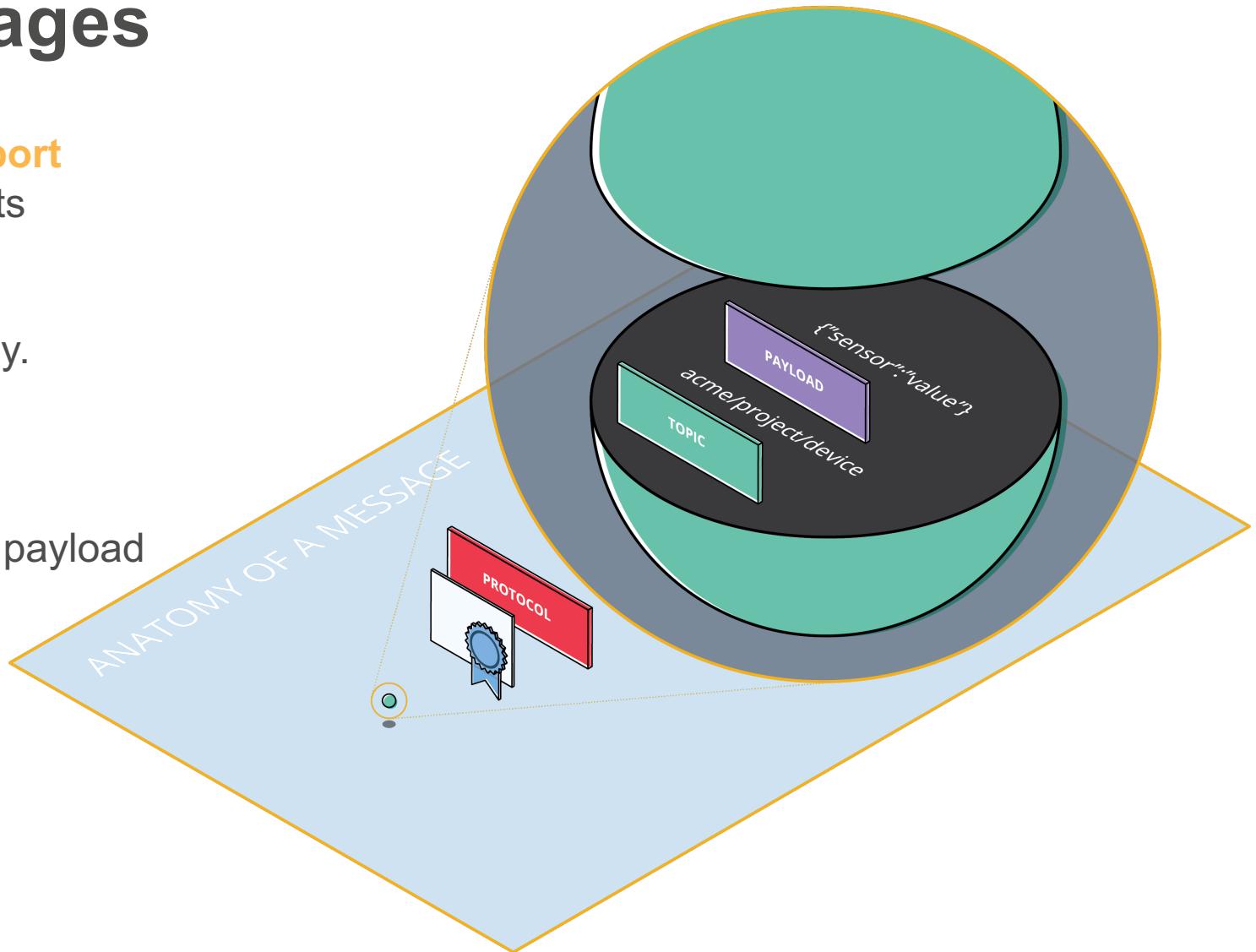


Sensor Messages

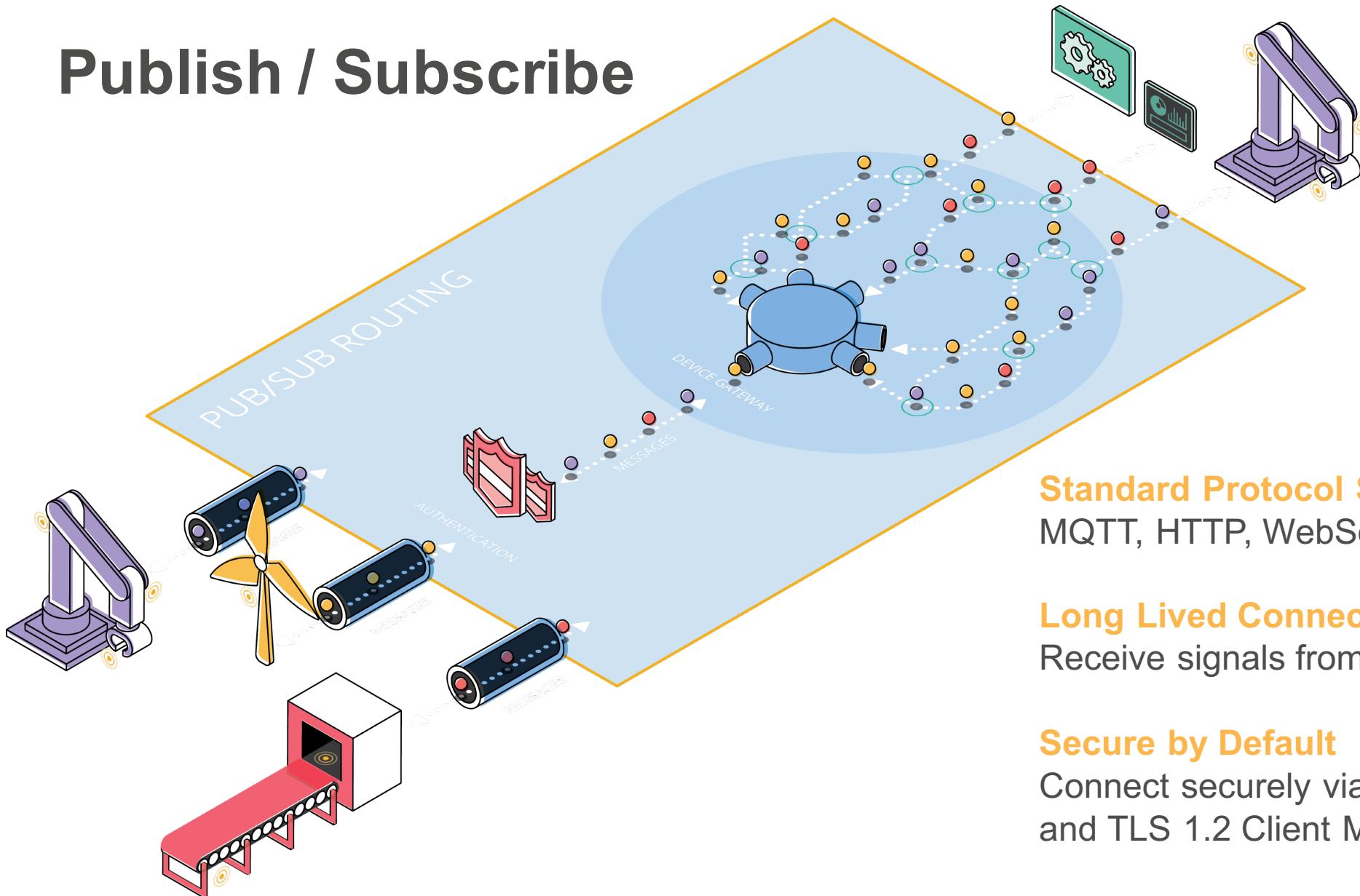
Standard Protocol Support
MQTT, HTTP, WebSockets

Topic / Channel
Message routing hierarchy.
Control over full tree

Payload (JSON)
Customer Defined JSON payload



Publish / Subscribe

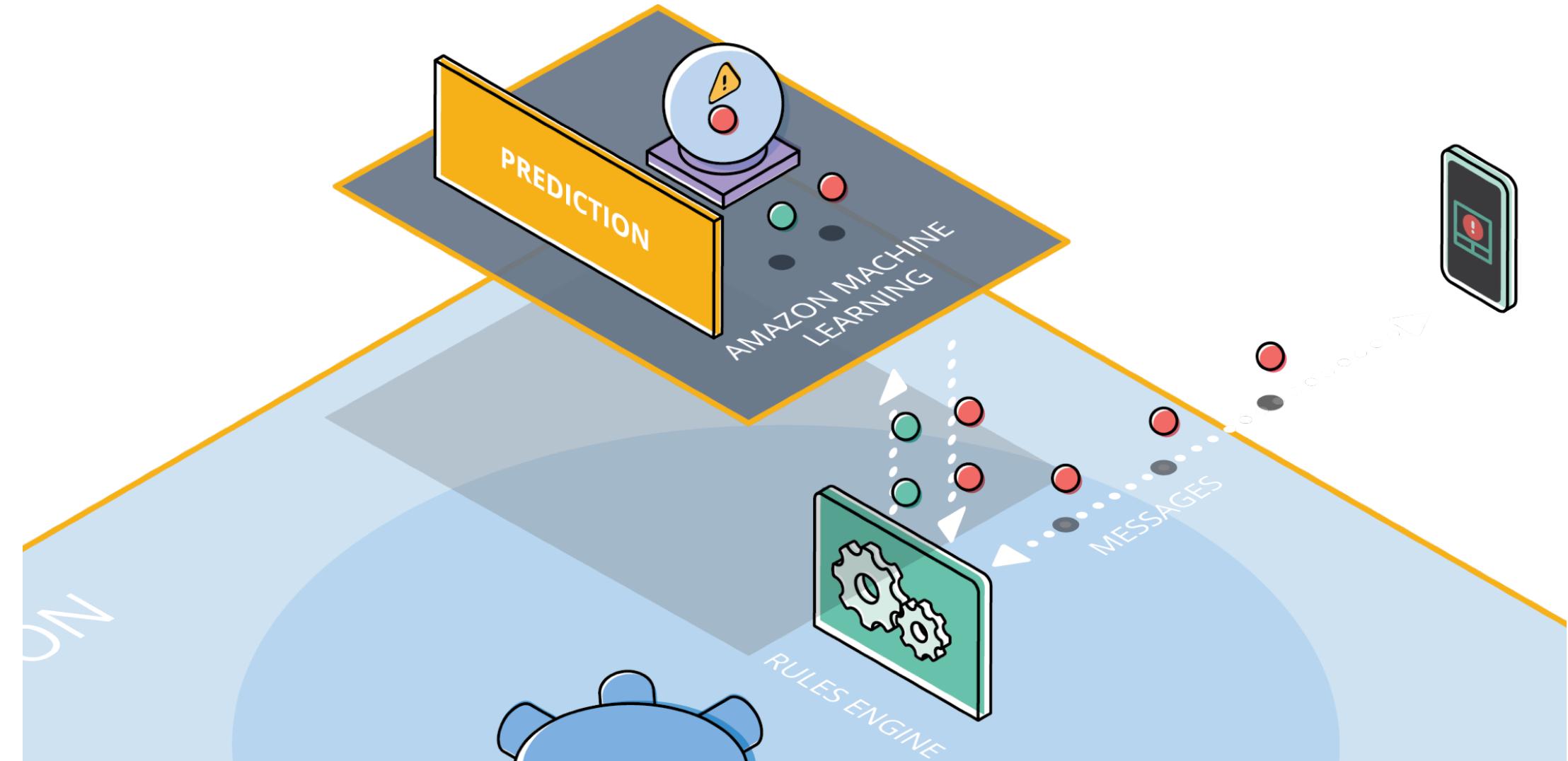


Standard Protocol Support
MQTT, HTTP, WebSockets

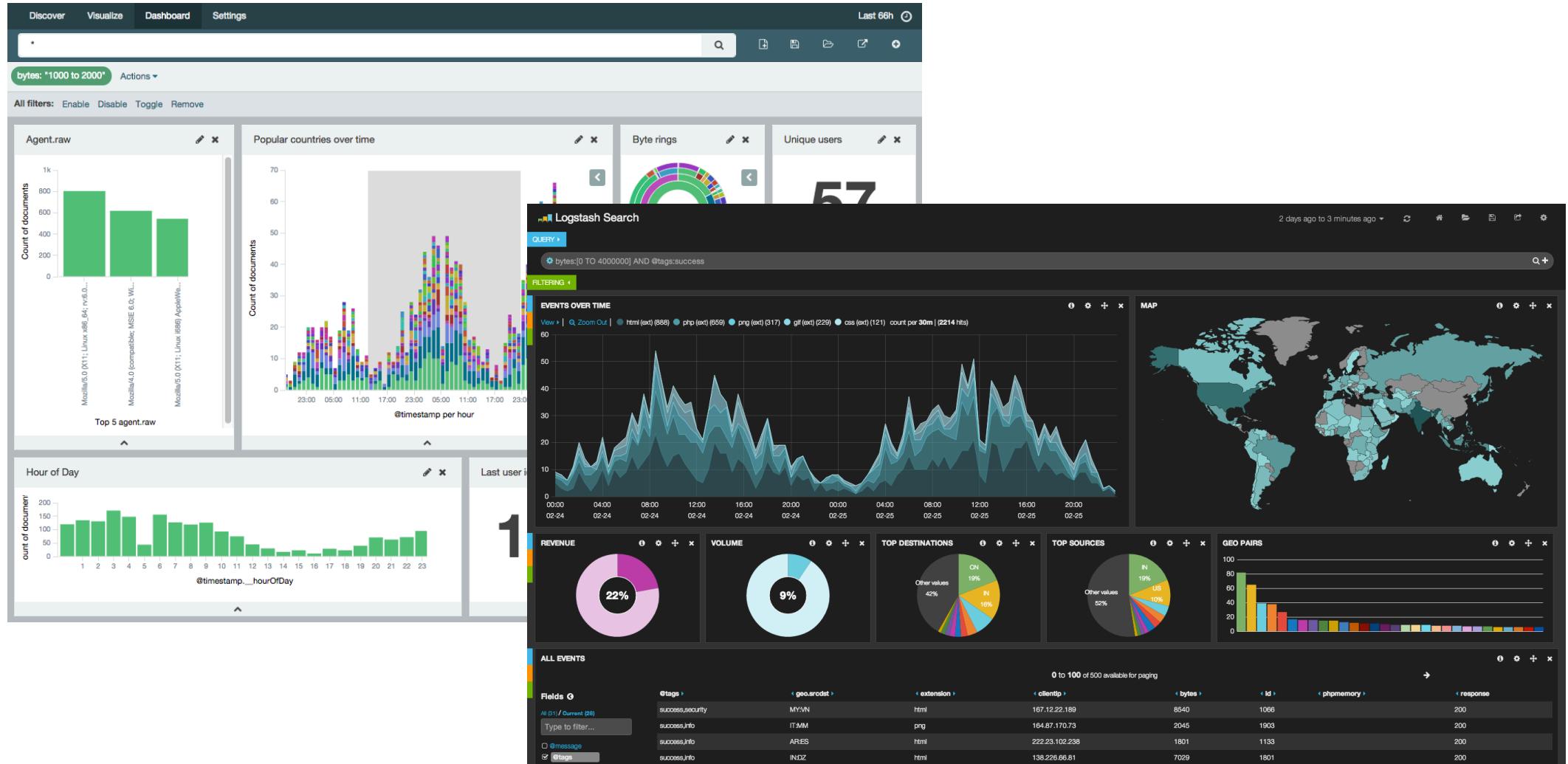
Long Lived Connections
Receive signals from the cloud

Secure by Default
Connect securely via X509 Certs
and TLS 1.2 Client Mutual Auth

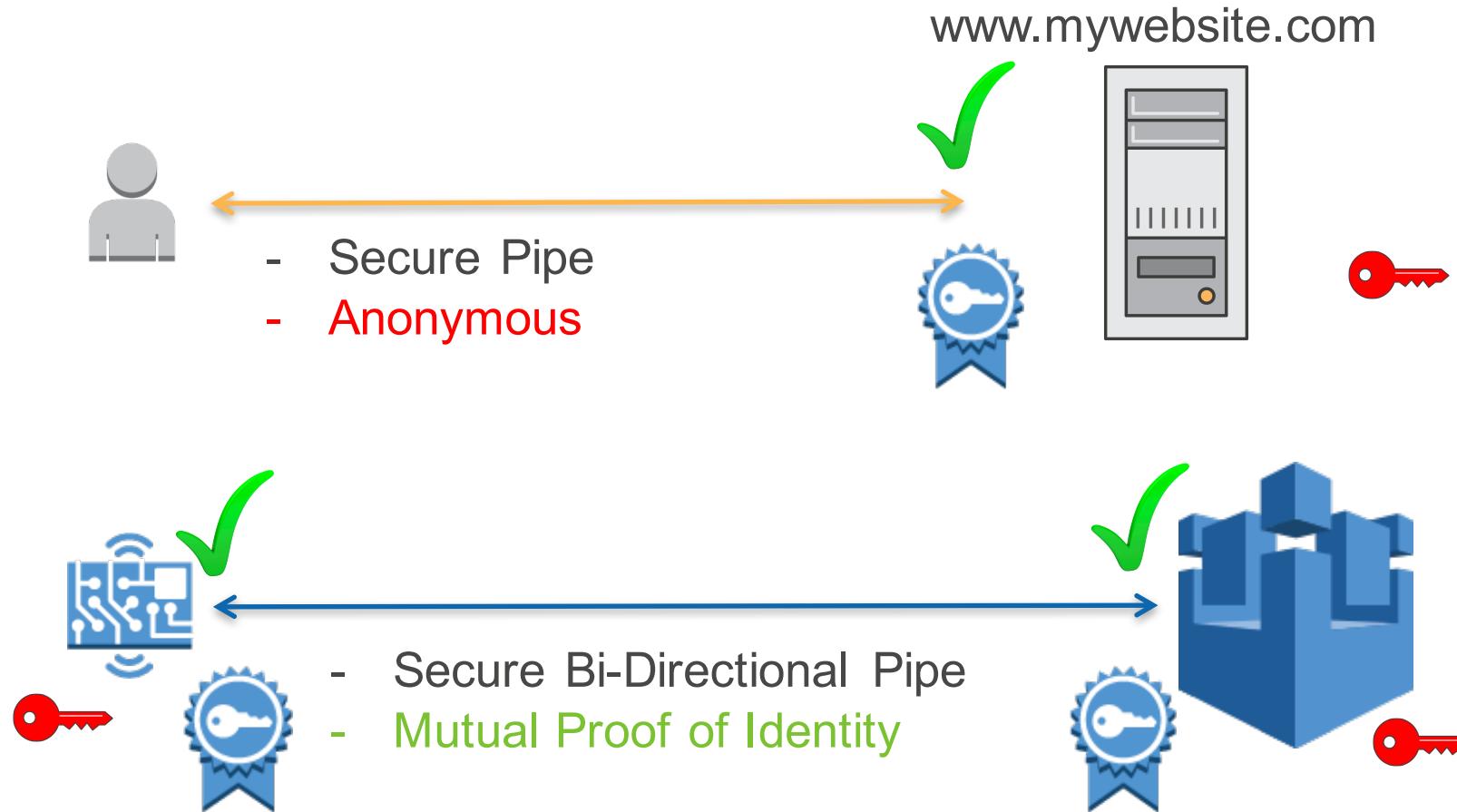
Predict Function



Dashboard for AWS IoT



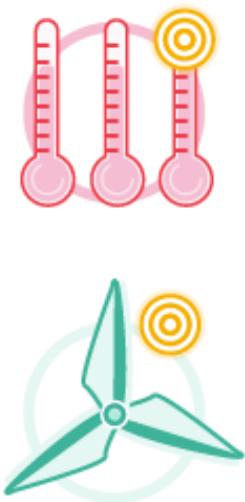
Mutual Auth TLS



AWS IoT Authentication & Authorization

Example: Authenticate connections between sensors, a device and an application

- 1 An array of temperature sensors transmit data



- 2 The connection to AWS IoT is authenticated



AWS IoT



Only authenticated users can control the fan

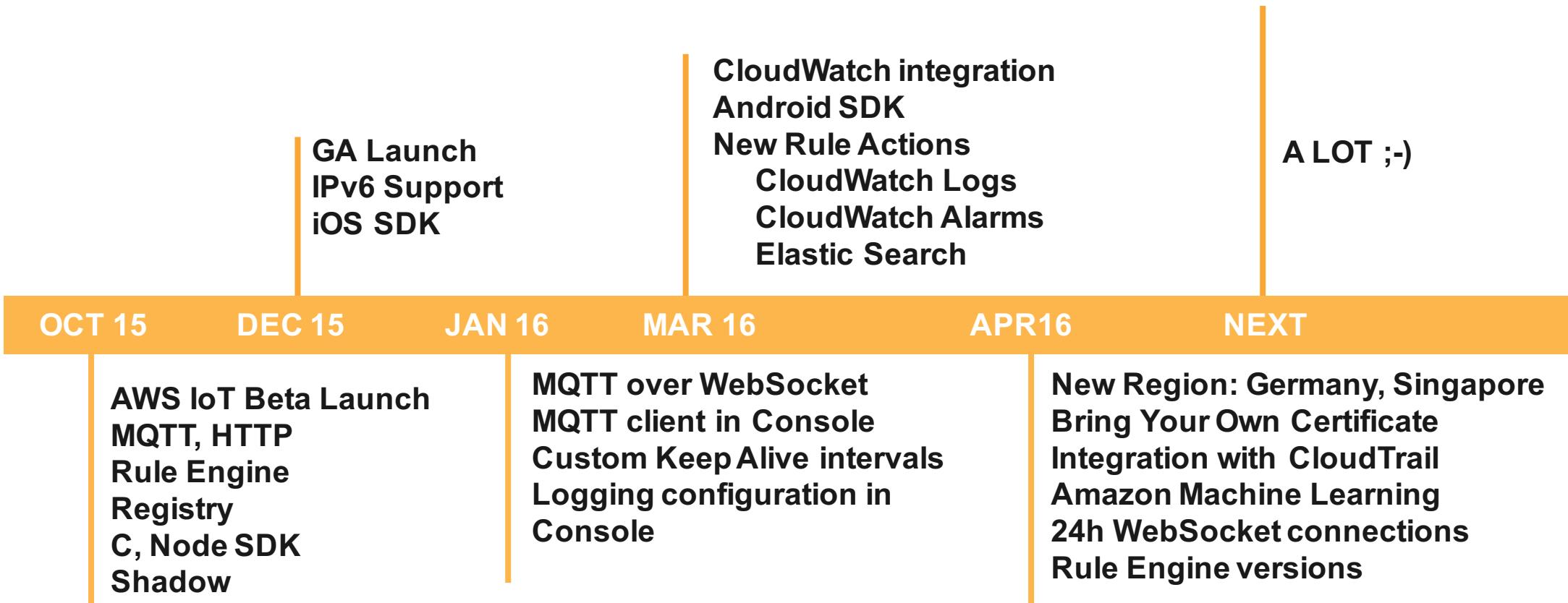
- 5 The fan receives a command and turns on

- 4 The connection to the fan is authenticated



- 3 If the sensors agree the temperature is above a threshold they turn on the fan

Pace of innovation



Philips Healthcare

“

With the addition of AWS IoT, we will greatly accelerate the pursuit of our vision by making it easy to acquire, process, and act on data from heterogeneous devices in real time.

Jeroen Tas

CEO Healthcare Informatics Solutions and Services, Philips



Philips is a leading health-tech company, working to create a new era of connected and personalized digital health and care..

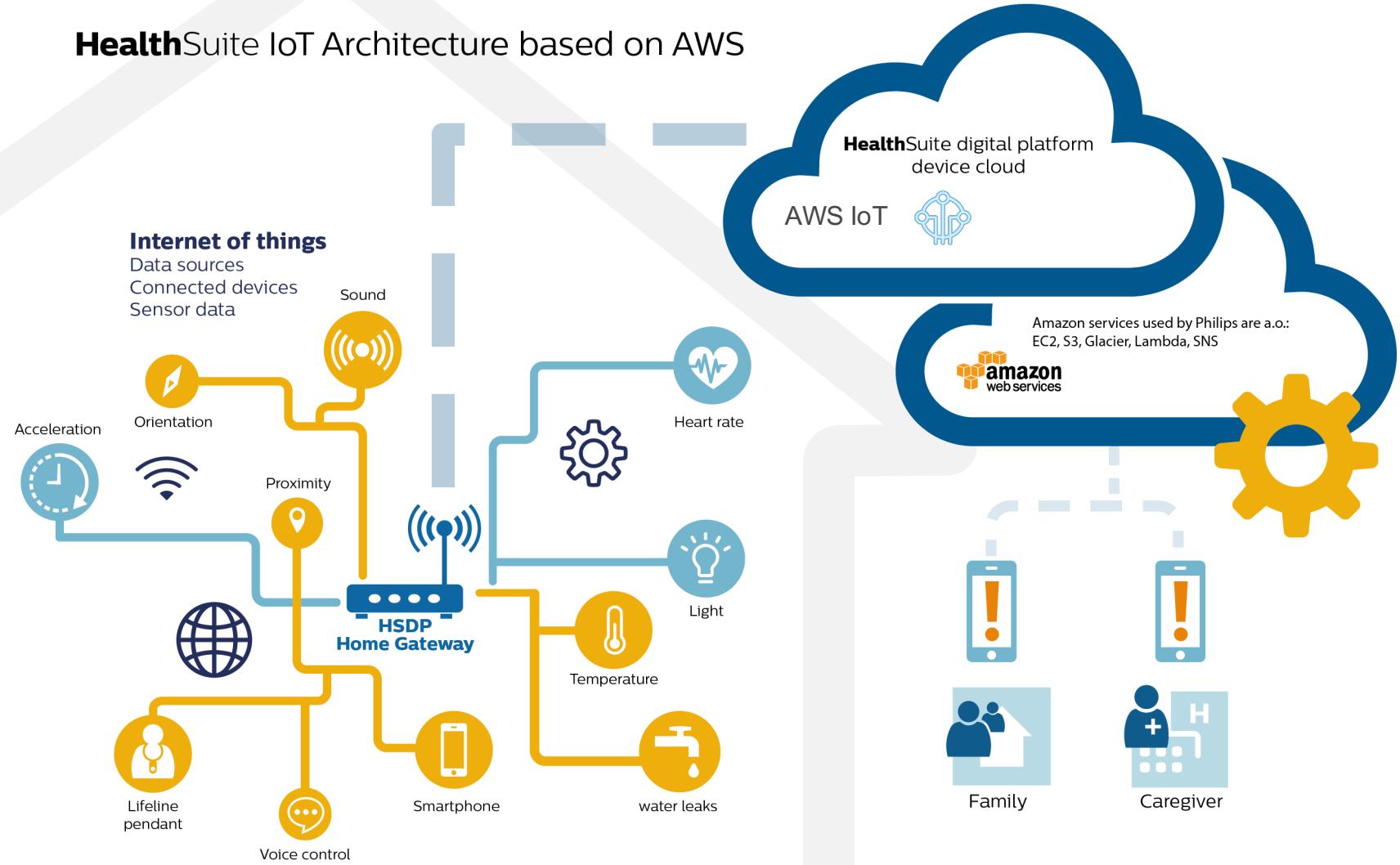
”

- AWS gives Philips customers greater control of their health with connected digital health solutions that support healthy living and improved care coordination.
- HealthSuite is a digital platform that manages more than 7 million connected medical-grade, consumer devices, sensors and mobile apps
- The Philips HealthSuite digital platform analyzes and stores 15 PB of patient data from 390 million imaging studies, medical records, and patient inputs.
- AWS provides the reliability, performance and scalability that Philips needs to help protect patient data which grows by petabyte/month.

Re:Invent video:

<https://youtu.be/0WDiSLVEkYQ?list=PLhr1KZpdzukcBfuUdMOKc94mnrQhBpdmw&t=740>

HealthSuite IoT Architecture based on AWS



Rachio: Connected Sprinkler

“

For companies wanting to get into the IoT space, tools like AWS IoT enable a faster time-to-market and eliminate the need to spend months and months and hundreds of thousands of dollars building a solution yourself.

Franz Garsombke
CTO and Co-Founder, Rachio

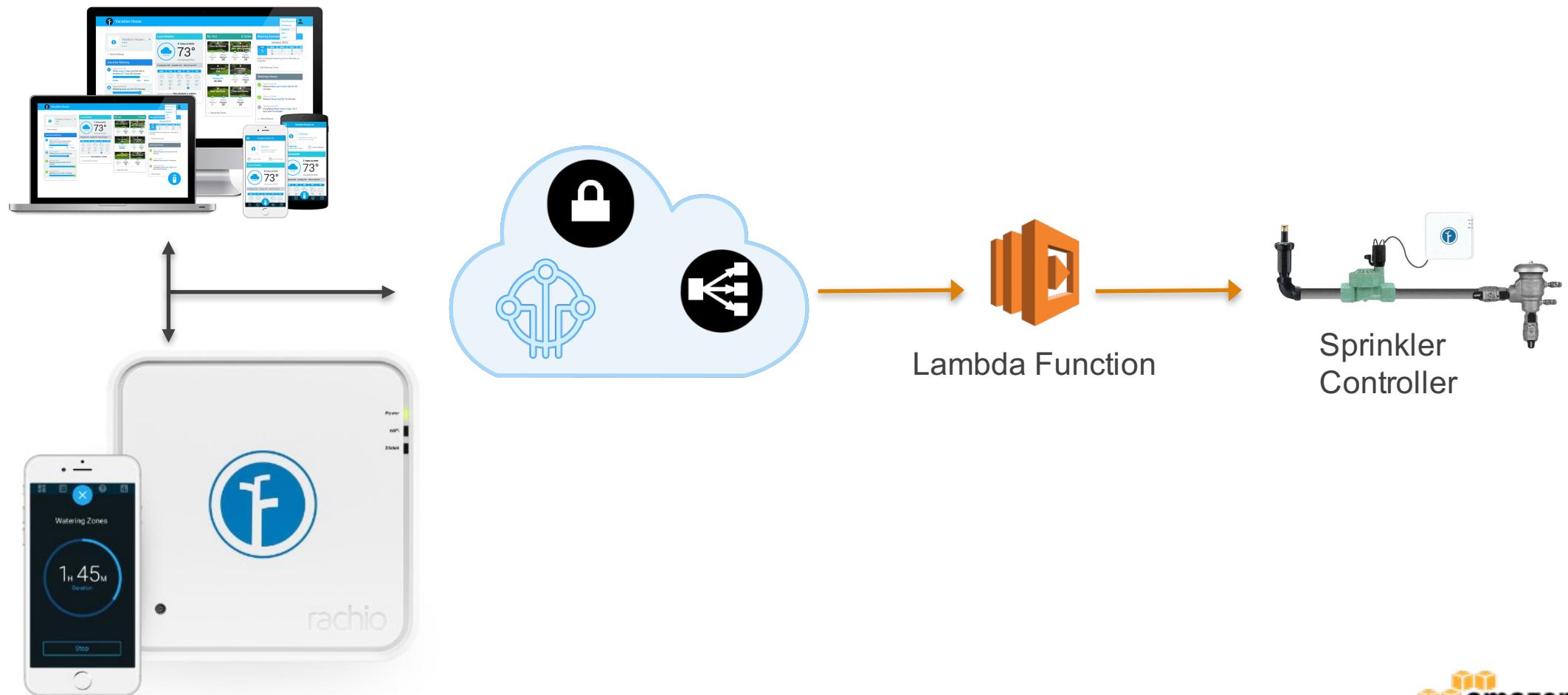


”

- **Time to Market was everything:** Reduced development costs by 40 percent, and launch new products 40 percent faster.
- **Security was critical** and certificate management a potential nightmare: AWS IoT provide a fully integrated certificate management which removes the headaches
- **Scalability was important:** at the height of the season, there is huge demand for 10min early morning and Rach.io needed to be able to handle those loads effectively
- Rachio has saved their customers **569,649,000 gallons** of water with AWS IoT

Rachio, the maker of the leading smart sprinkler controller, is changing the way people think about water.

Connected Sprinkler: Rachio



Official IoT Starter Kits, Powered by AWS



RENESAS

TEXAS
INSTRUMENTS

MICROCHIP



ARROW
QUALCOMM

seeed
Grow the Difference



seeed
Grow the Difference



French IoT Partners



A Claranet Group Company



Comment démarrer ?

AWS IoT Developer Resources

There are several ways to get started with AWS IoT depending on your use case and how you want to integrate the service into your use case. We have gathered a collection of resources together to help you find the information that fits you best.

[Documentation](#)

[Whitepapers](#)

[Slides](#)

[Webinars](#)

[Videos](#)

[SDKs](#)

[Blog Posts](#)



<http://aws.amazon.com/iot/developer-resources/>

<http://aws.amazon.com/iot/getting-started/>



Thank you !

