

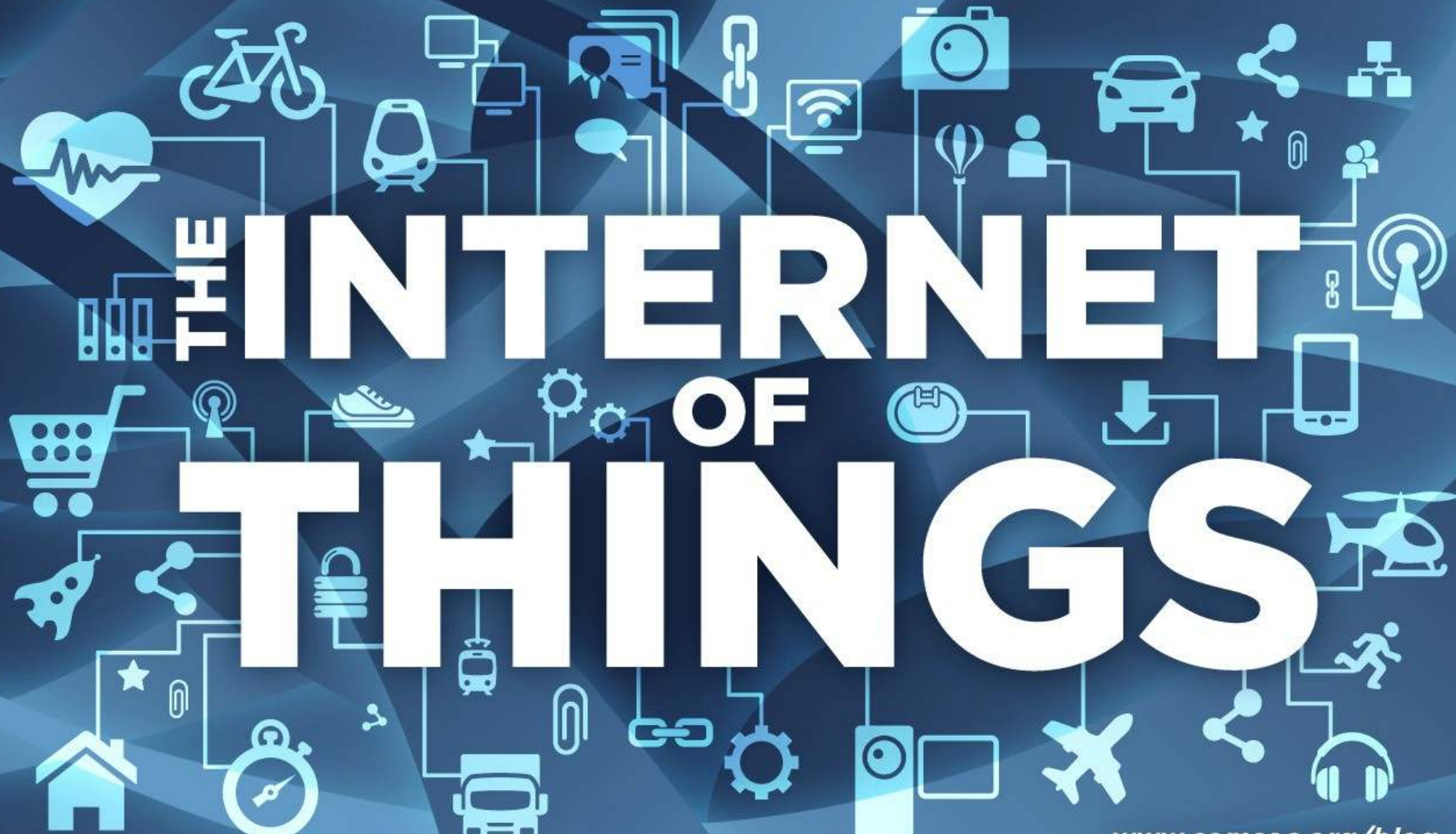


IoT: it's all about Data!

Julien Simon, Principal Technical Evangelist, AWS
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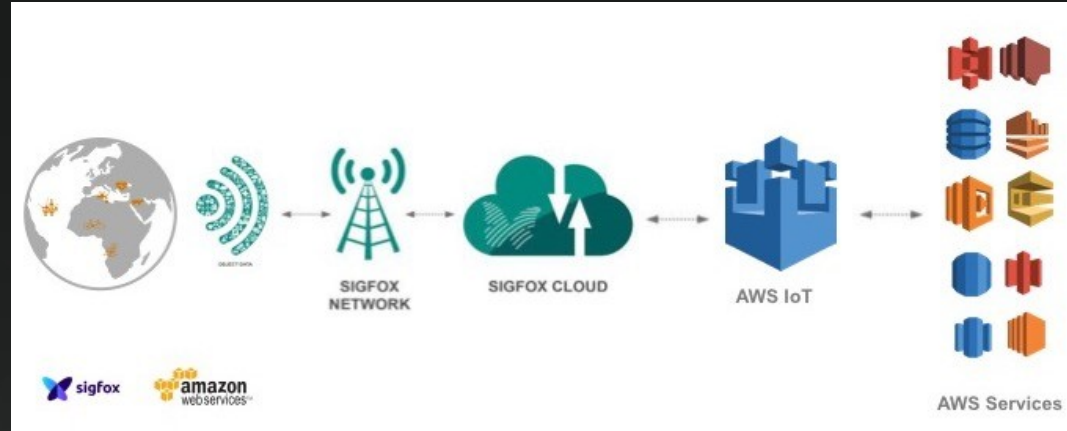
THE INTERNET OF THINGS



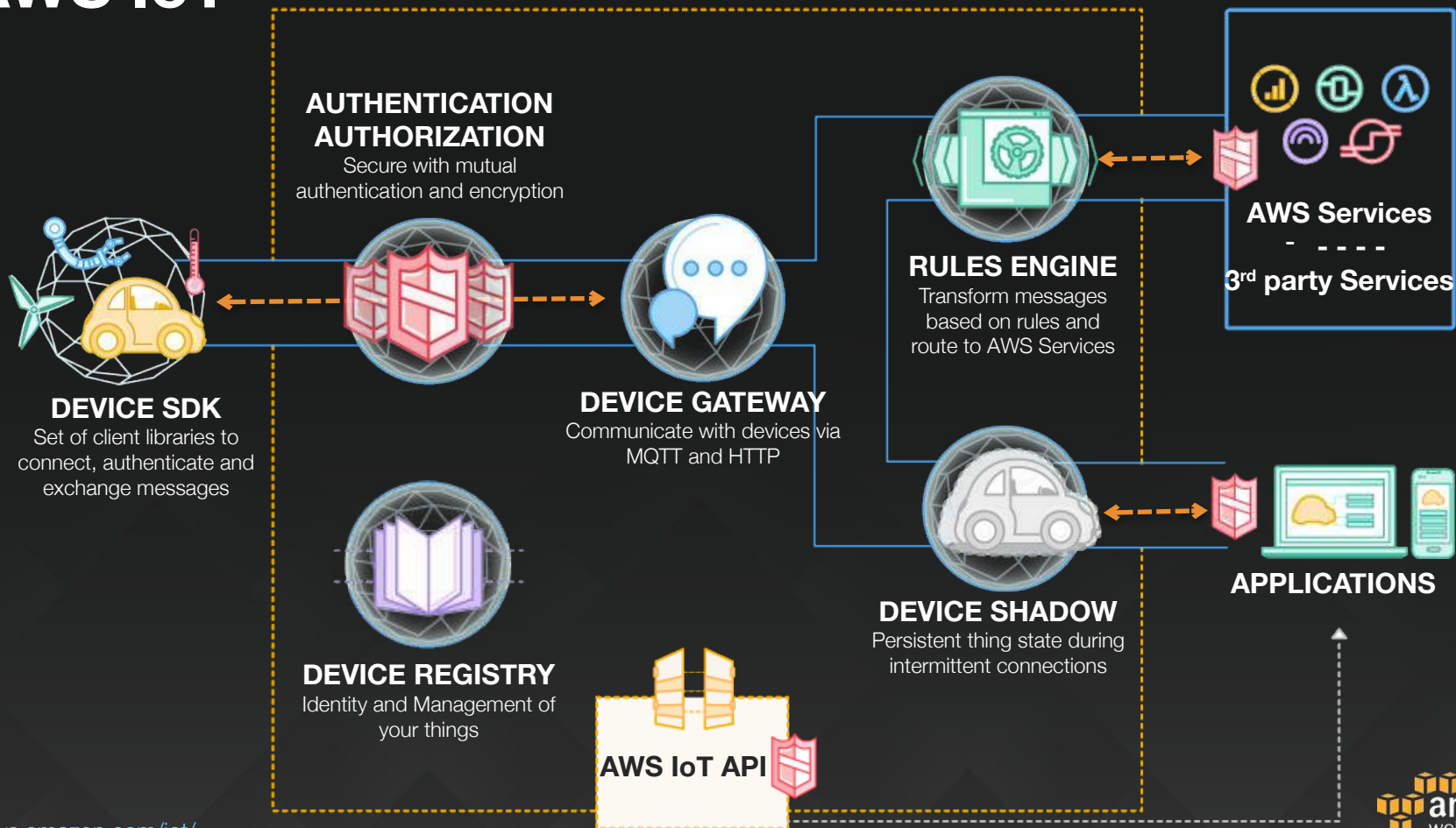
Super exciting, but there's a bit of work, isn't it?

1. Connecting devices
2. Securing data in-transit
3. Storing and processing data
4. Securing data at-rest
5. IoT without the Cloud ?

No IP? No problem!



AWS IoT



[illegible]

[illegible]



Big Data on AWS: the choice is yours

Collect



**AWS Direct
Connect**



AWS Import/Export



Amazon Kinesis

Store



**Amazon
S3**



**Amazon
Glacier**



**Amazon
DynamoDB**



Amazon RDS



**Amazon
Elasticsearch
Service**



**AWS Database
Migration
Service**

Process & Analyze



**Amazon
EMR**



**Amazon
Athena**



**Amazon
Redshift**



**Amazon
Machine
Learning**

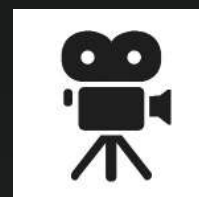
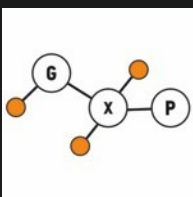


**Amazon
QuickSight**



**Amazon
Kinesis
Analytics**

Selected compliance standards



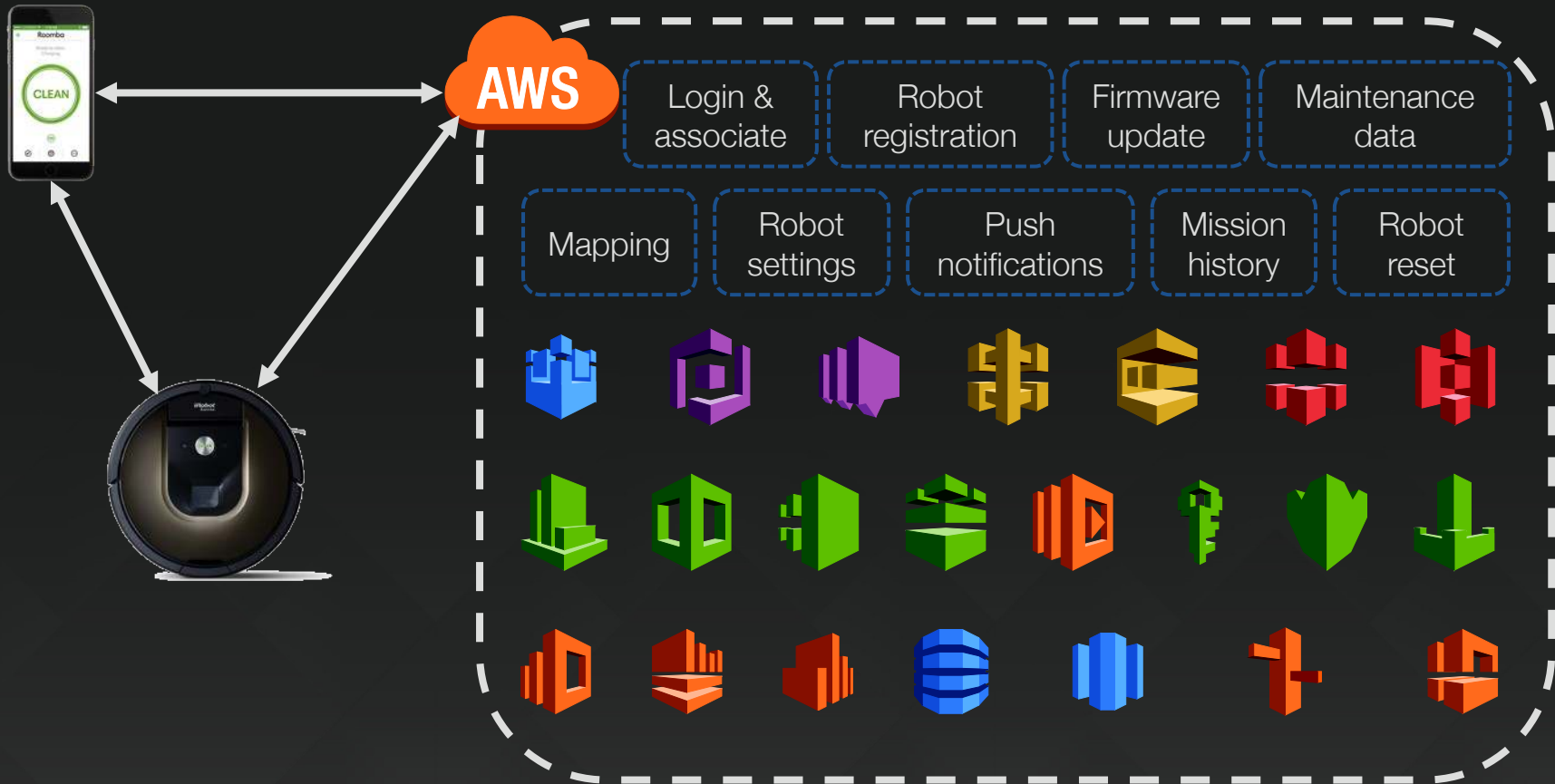


Connected Roomba
launched in 2015

More than 45 million
square meters mapped

Discovery and interaction
with Smart Home devices





More IoT applications



Thermomix
Consumer equipment



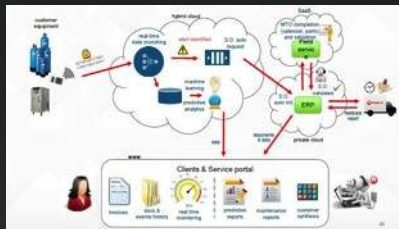
Soitec
Semiconductors



SPS
Motors



Siemens Power & Gas
Energy production



Veolia Water
Water systems



Z#bre
Home Assistance

IoT applications at the Edge

Managing a fleet of trucks helps mining company save millions

- Limited connectivity requires local storage and processing
- Greengrass-enabled Intel gateways pre-process sensor data on the trucks
- Road roughness models help improve asset utilization & increase worker safety



Philips IntelliSpace Console Critical Care HealthSuite + AWS Snowball Edge

IntelliSpace Console Critical Care

Aggregate over 1200 ICU patient data points per day

- Vital Signs
- Labs

Process – Compute – Predict

Present



Snowball Edge

Storage + Compute

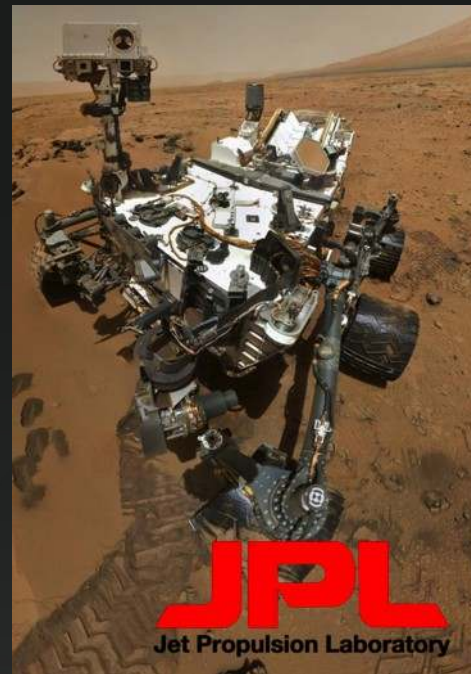
Encrypted

Tamperproof

Redundant



Technicolor
smart gateways



AWS re:Invent 2016: NEW LAUNCH! Introducing AWS Snowball Edge (STG214) <https://www.youtube.com/watch?v=z8-DeSuKf9I>

AWS re:Invent 2016: NEW LAUNCH! Introducing AWS Greengrass (IOT201) <https://www.youtube.com/watch?v=XQQjX8GTEko>

AWS re:Invent 2016: Building IoT Solutions for Exploring the Final Frontier (IOT304) <https://www.youtube.com/watch?v=ICPordWs0t8>



Deep Learning at the Edge

A Raspberry Pi is powerful enough to store and run a pre-trained **Deep Learning** model

No connection to the cloud is needed

Imagine what you could do with this!



Marc Benioff, CEO Salesforce



“There is no public cloud infrastructure provider that is more sophisticated or has more robust enterprise capabilities for supporting the needs of our growing global customer base.”

That's probably why the Salesforce IoT Cloud runs on AWS 😊



Going further

Whitepaper: “Core Tenets of IoT”

<https://d0.awsstatic.com/whitepapers/core-tenets-of-iot1.pdf>

Whitepaper: “Big Data Analytics Options on AWS” http://d0.awsstatic.com/whitepapers/Big_Data_Analytics_Options_on_AWS.pdf

Learn more about AWS IoT <https://aws.amazon.com/iot/>

Learn about the AWS Free Tier <https://aws.amazon.com/free/>

Get started! <https://aws.amazon.com/getting-started/>



Thank you!

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