Internet of Things

Antony Passemard
Head of Product Management
Google Cloud IoT

IoT will disappear

Google Cloud

Imagine a city with no congestion

Google Cloud

Imagine airports with no delays

Google Cloud

Imagine perfect energy consumption everyday, everywhere

Google Cloud

Imagine medicine tailored for you

Google Cloud

IoT is about three expectations

Reduce risk

Better understanding of what is happening to get more visibility

Optimize costs

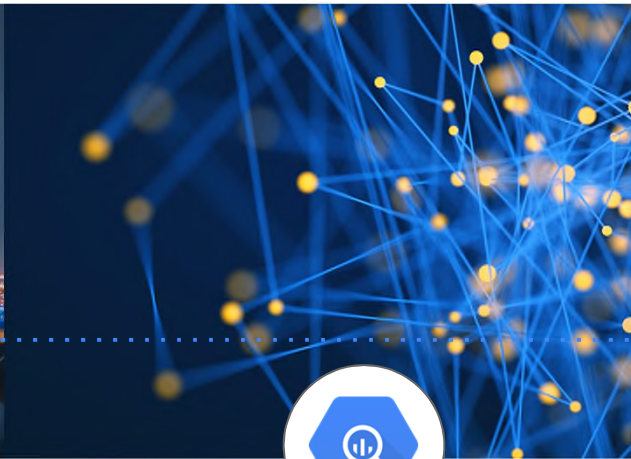More output for lower cost through understanding of the value chain, and waste drivers

Grow

Better user or customer experience to increase usage and adoption of a product

IoT should not be focused on things

Connected things

Big data

Machine learning

Industries impacted and volume of data

Mfg. / industrial

0.5-4Tb/machine annually

Healthcare

~1Tb/mth

Transportation / insurance

2-25Gb/hr

Consumer products

~4Gb/day/product line

Google Cloud

What happens when you collect petabytes and exabytes of data?
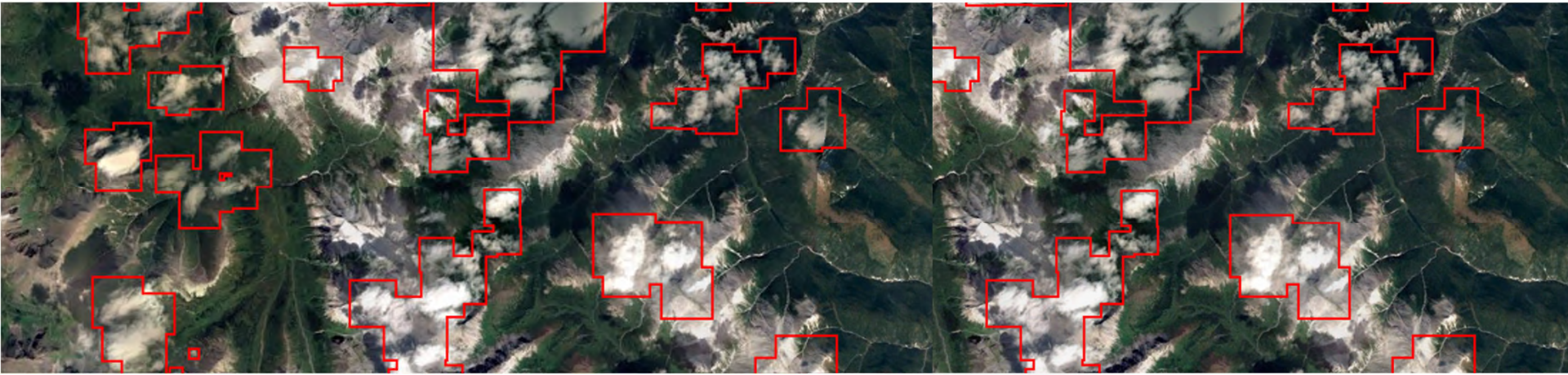
Mastering big data

Google Cloud

seven
products with

1B

users

Supercharge innovation by leveraging machine learning on IoT data

Connected satellites

Is it cloudy?

Connected data centers

Are they energy efficient enough?

Three key challenges with connected things

1

Securely
connecting things

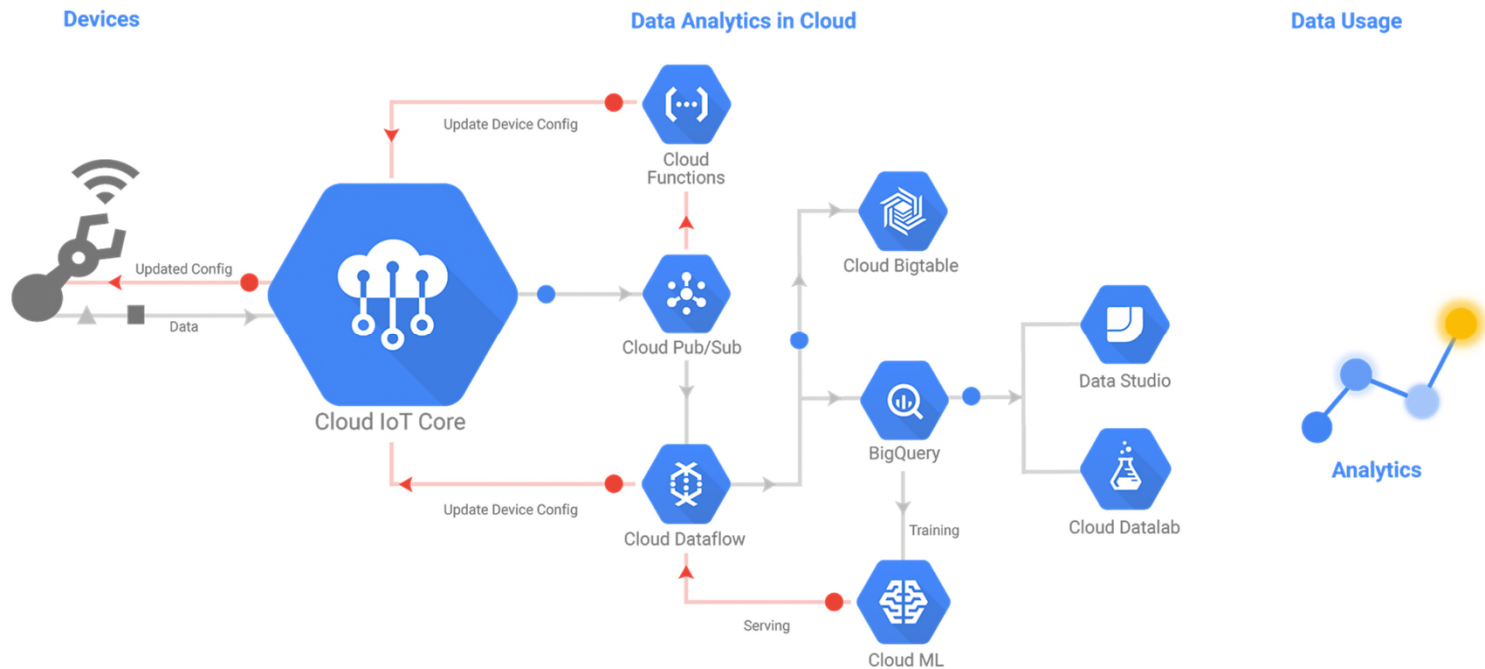**2**

Scaling
big-data

3

Actionable insights
machine learning

Google Cloud IoT

A new service in Google Cloud IoT
to bring intelligence in the moment

Planet Scale deployments: single end-point globally

- Points of presence (>100)
- Google Global Cache (GGC) edge nodes

IoT Conscious Security

Smallest footprint for highest security and independence

Google root.pem	Private Key	Basic TLS stack	JWT helper Libs

Partnered with Microchip for Security for secure element

Smart cities

Smart Parking Technology

Parking sensors

Direct Benefit: 50% reduction time to market

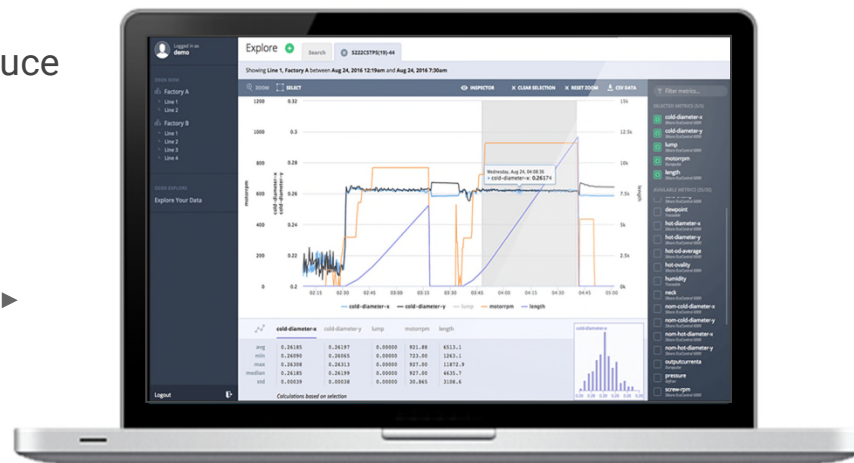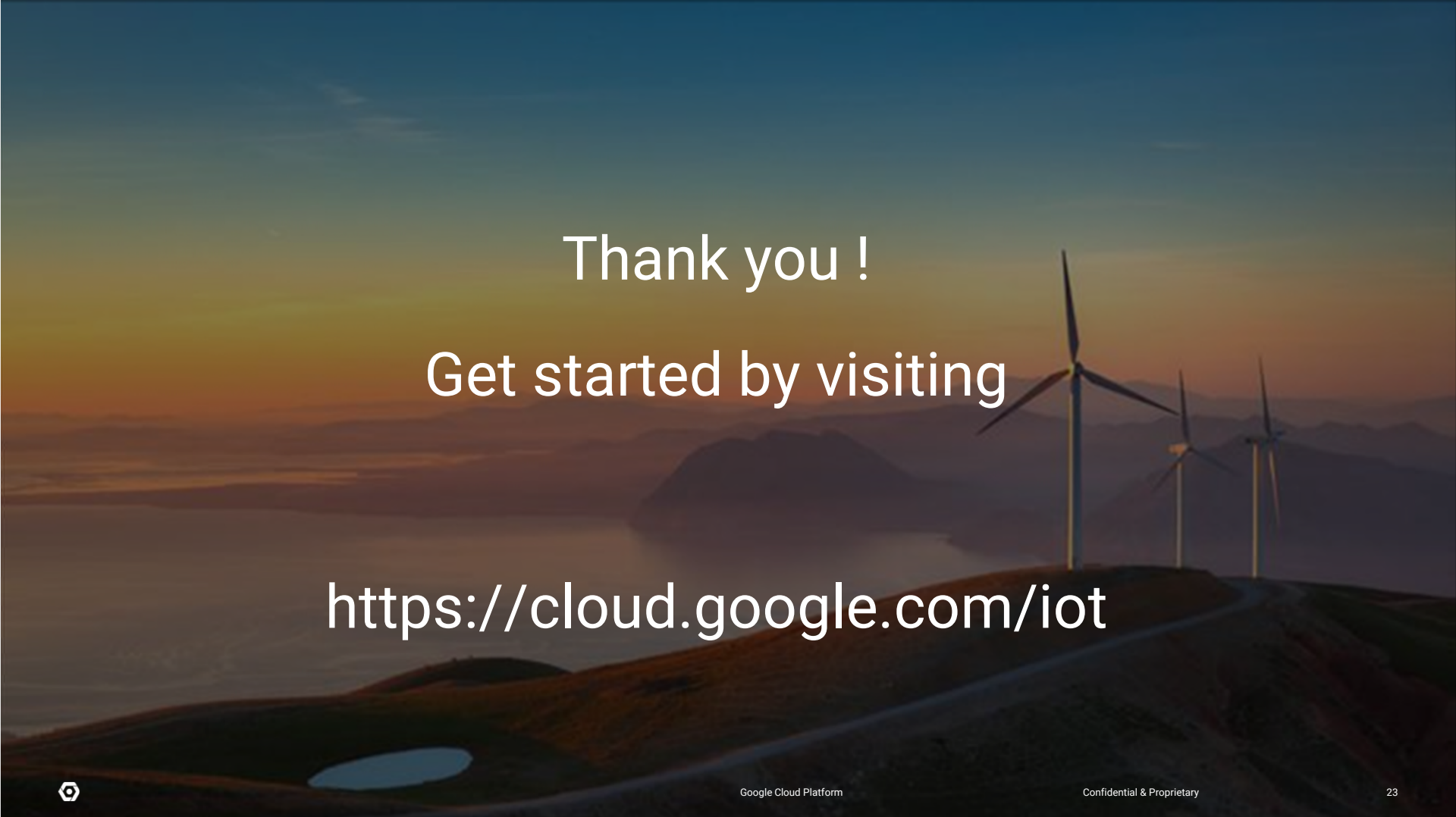Smart Parking Services

https://www.smartparking.com/

Manufacturing

Oden Technologies

Operation optimization for plastic moulding factories

Customer benefits: 3500 more hours of production, reduce changeover time 33%, $1M/year

Thank you !

Get started by visiting

https://cloud.google.com/iot