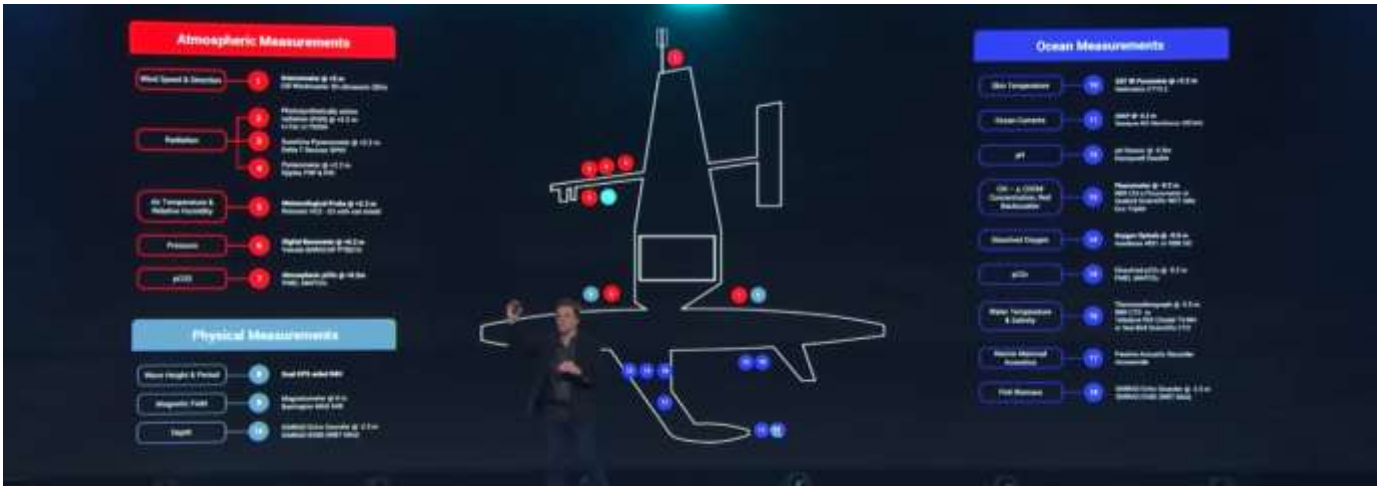
Sailing into
uncharted territory

lleux
Sebastien de Halleux
COO, Saildrone
Sebastien de Halleux

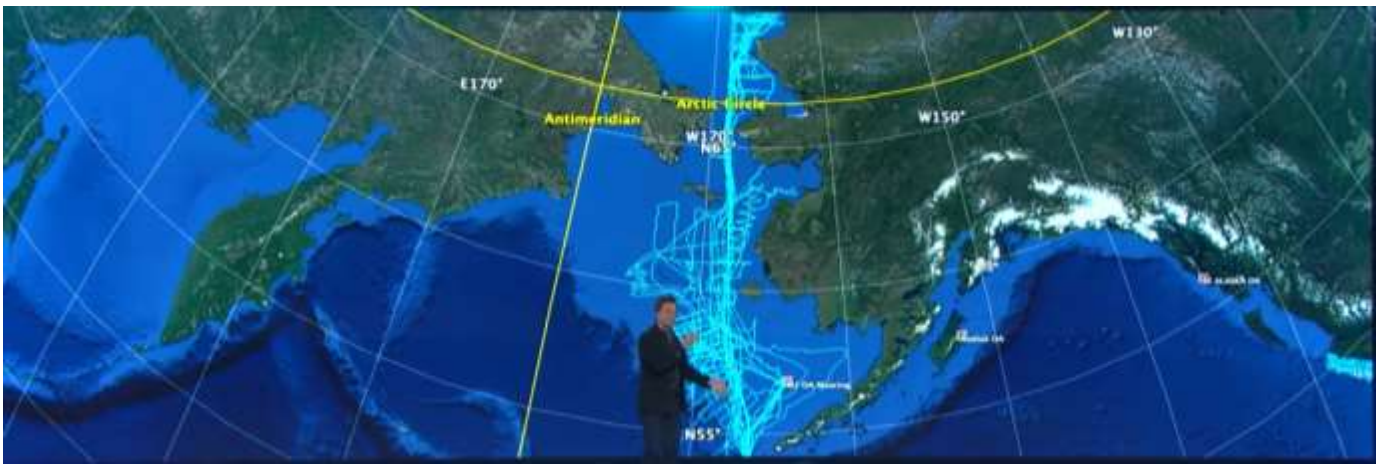
SAILDRONE

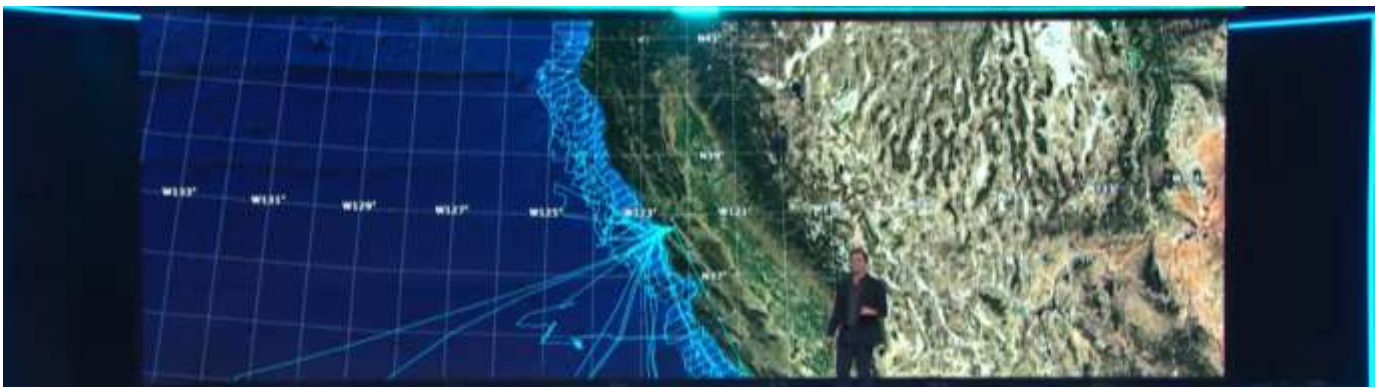
SAILDRONE
1003



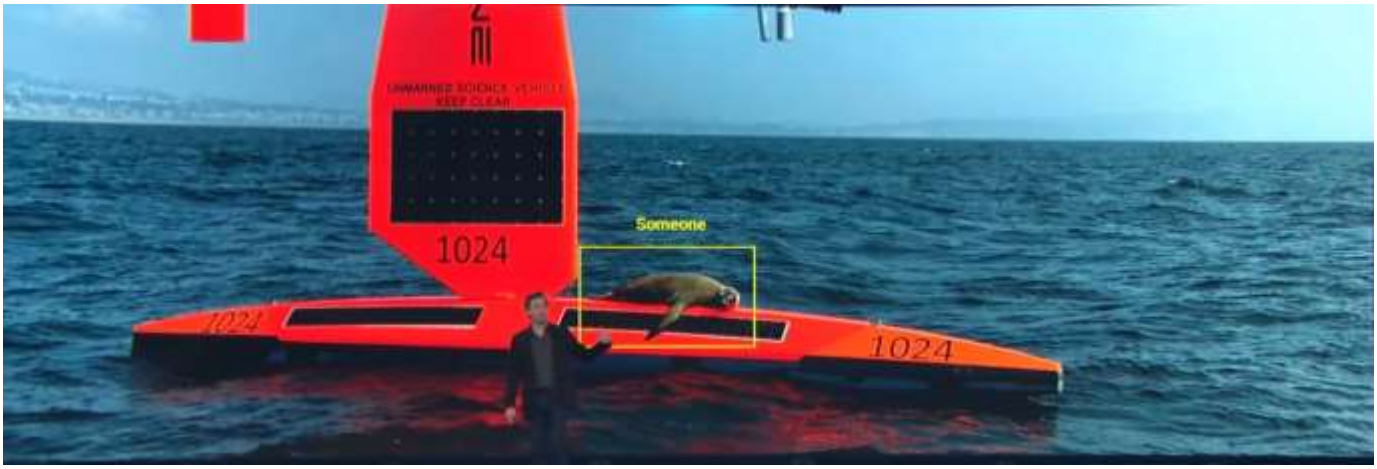
Fish stock data helps to manage our fisheries

We can estimate the biomass of the fish stocks using sail drones and statistical tools



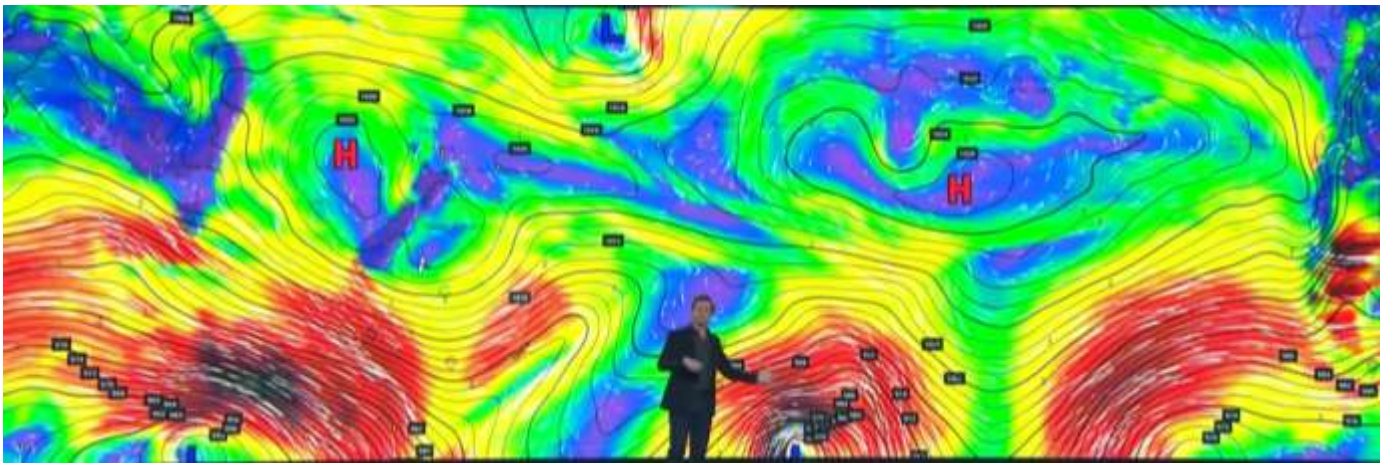


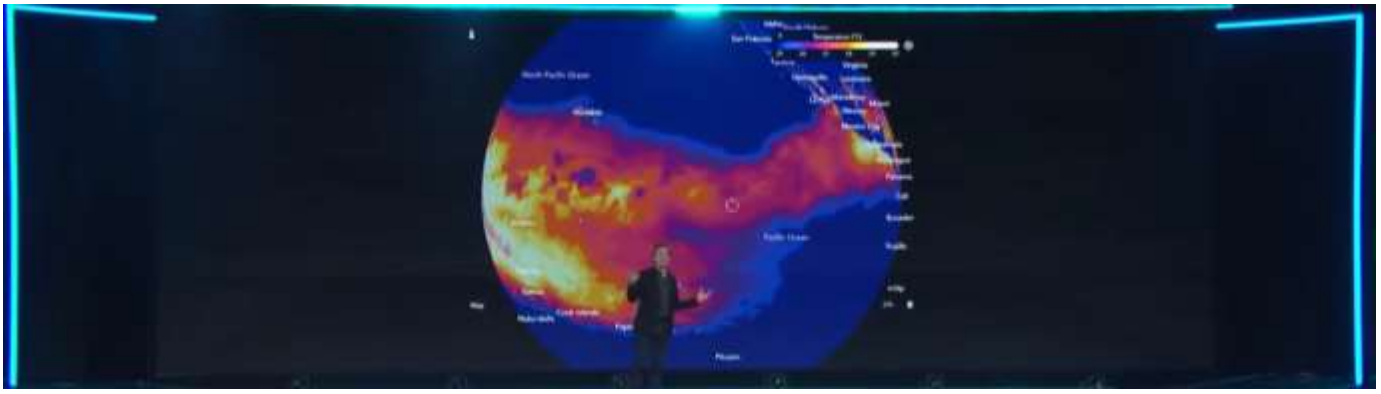
Bird
Boat


1024
Someone
1024
1024

A
B

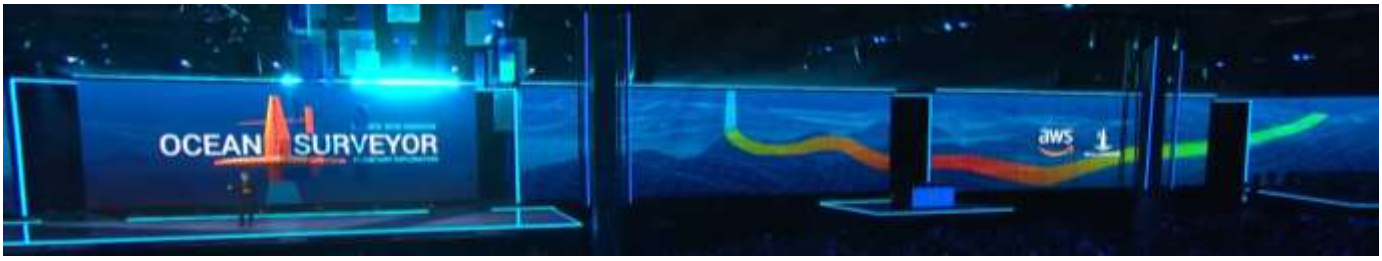
L
H
H


L
H
H



85%
unmapped and unexplored

SEABED 2030 MISSION
OCEAN SURVEYOR
PLANETARY EXPLORATION


OCEAN SURVEYOR
aws

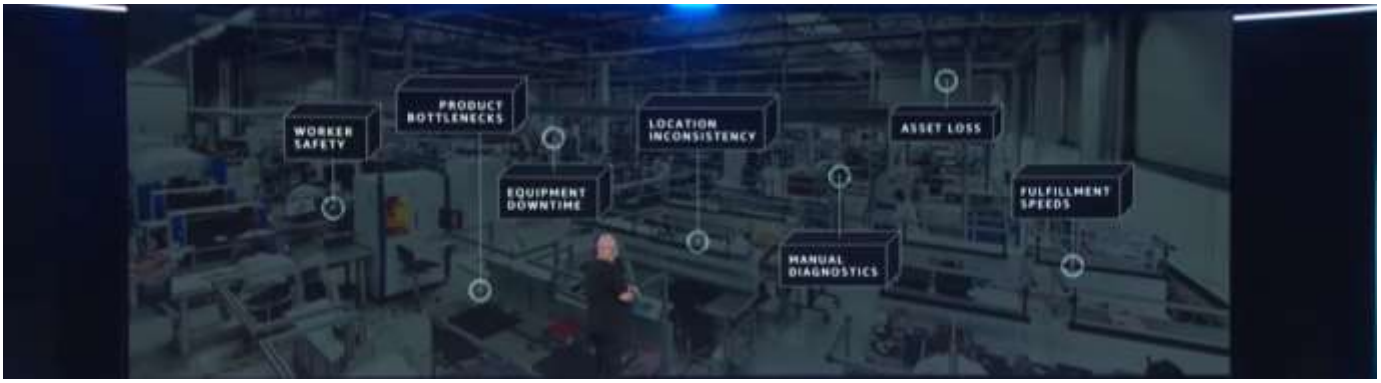
re:Invent
re:Invent
re:Invent

Industry 1.0

Industry 2.0

Industry 3.0

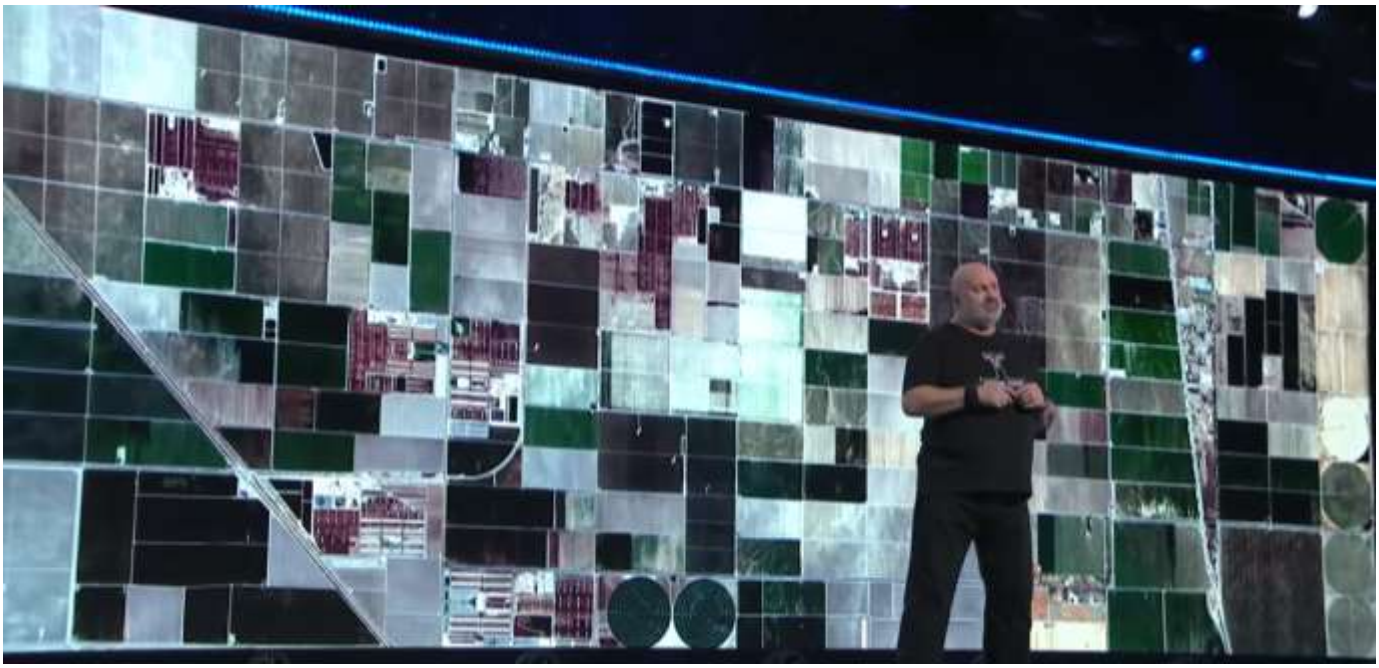
Industry 4.0?


WORKER SAFETY
PRODUCT BOTTLENECKS
EQUIPMENT DOWNTIME
LOCATION INCONSISTENCY
MANUAL DIAGNOSTICS
ASSET LOSS
FULFILLMENT SPEEDS

+ Machine Learn
+ Machine Learning

+ Connecti
+ Connectivity

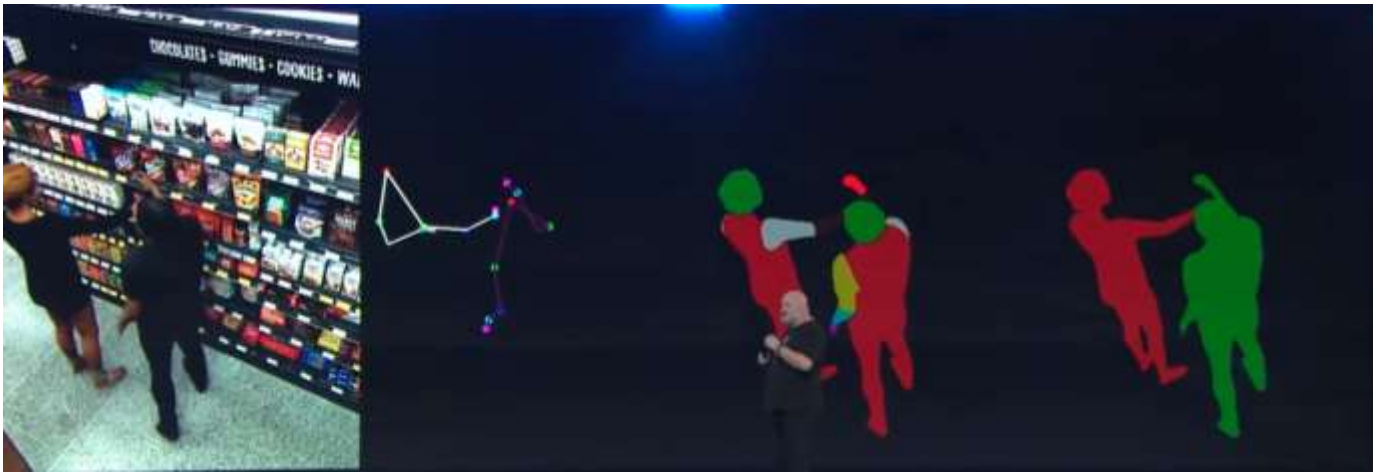
PREDICTIVE MAINTENANCE
EQUIPMENT EFFECTIVENESS
MASS CUSTOMIZATION
AUTONOMOUS TRANSPORTATION
WEARABLES
PREDICTIVE QUALITY
INVENTORY MANAGEMENT
COLLABORATIVE ROBOTS
ASSET CONDITION MONITORING
REMOTE MONITORING
ASSET TRACKING



Forecasting
Buying
Placement
Customer Promise
Buy new:
prime
In Stock.
Qty: 1

Nicolas Cage magic reversible sequin pillow cover

amazon go
Just walk out.



out
Scan in
Scan in

AWS is powering
this revolution

Improving
workplace safety
Improving
workplace safety

ACID GAS REMOVAL UNIT
(AGRU)
Woodside

United Rentals
modjoul
United
Rentals

Making our
cities smarter

ShotSpotter
VB
City of
Virginia Beach
MIOVISION

Feeding
the future

THE CLIMATE
CORPORATION
FARMERS
BUSINESS NETWORK

Modernizing
transportation

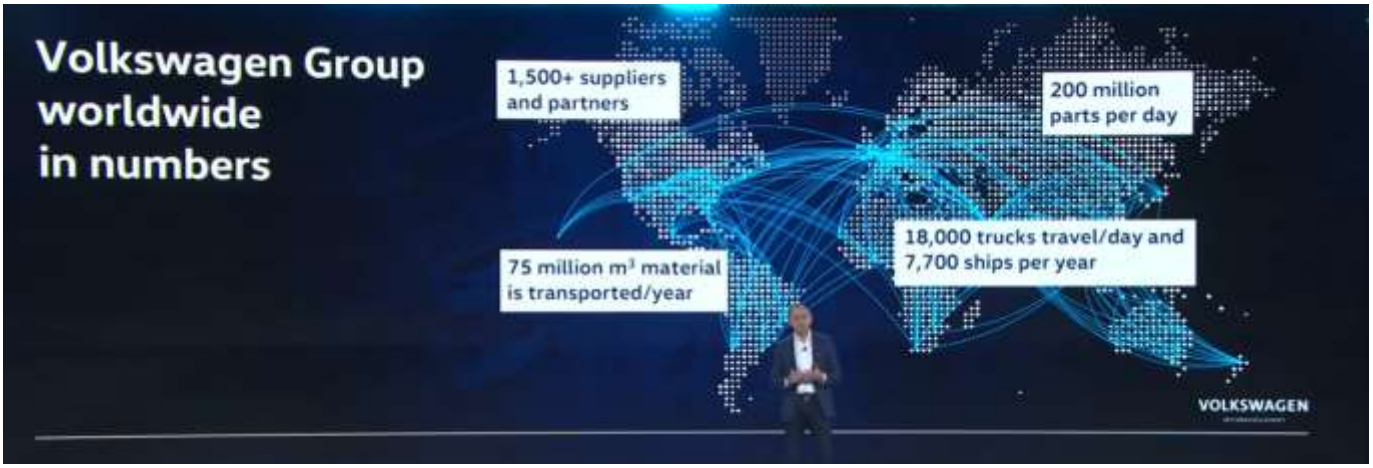
CATAPULT
Digital
SIEMENS
DB
VANTAGE POWER

Modernizing
manufacturing

Dr. Martin Hofmann
Dr. Martin Hofmann

VOLKSWAGEN
AKTIENGESELLSCHAFT

365 models
11 million vehicles produced in 2018
44,000 vehicles produced every working day
VOLKSWAGEN


Volkswagen Group worldwide in numbers
1,500+ suppliers and partners
200 million parts per day
18,000 trucks travel/day and 7,700 ships per year
75 million m³ material is transported/year
VOLKSWAGEN

122 production sites worldwide
5
71
33
9
4
VOLKSWAGEN

1 architecture
worldwide
1
VOLKSWAGEN

The Volkswagen
Industrial Cloud
in collaboration with
aws
Scalability
Sustainable technology standards
Implementation speed
Flexibility
Culture
Volkswagen Group App Store
App Integration
Digital Production Platform
VOLKSWAGEN
aws
AI &
machine learning
Industrial
IoT
Security, data rights
& control
Machine Connectivity
Machines and equipment
VOLKSWAGEN

The Volkswagen
Industrial Cloud
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aws
Scalability
Sustainable technology standards
Implementation speed
Flexibility
Culture
OEM's
Suppliers
Partners
Logistics
Equipment
Volkswagen Group App Store
App Integration
Digital Production Platform
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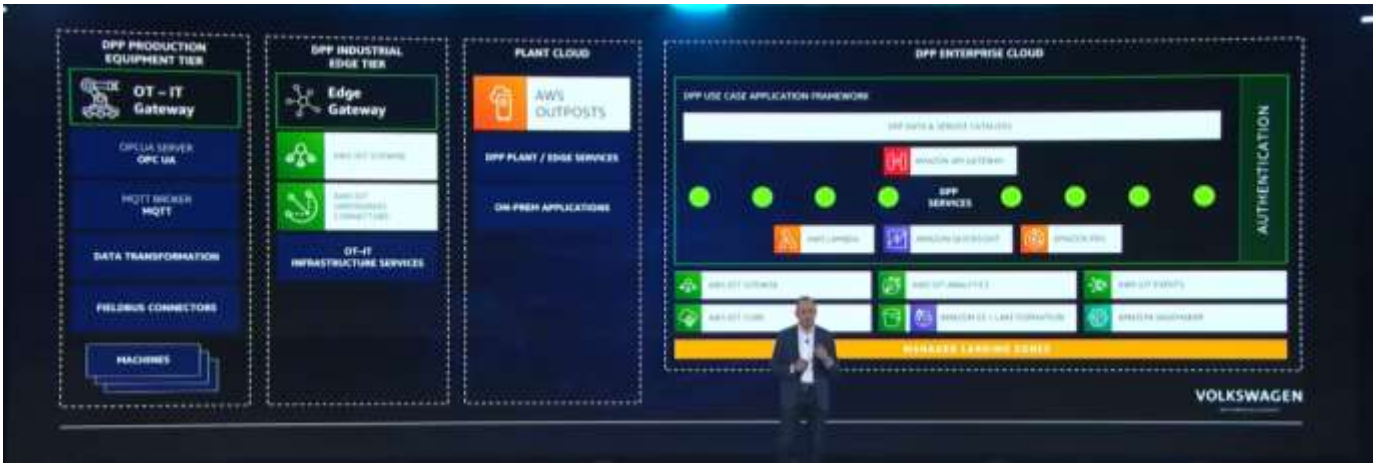
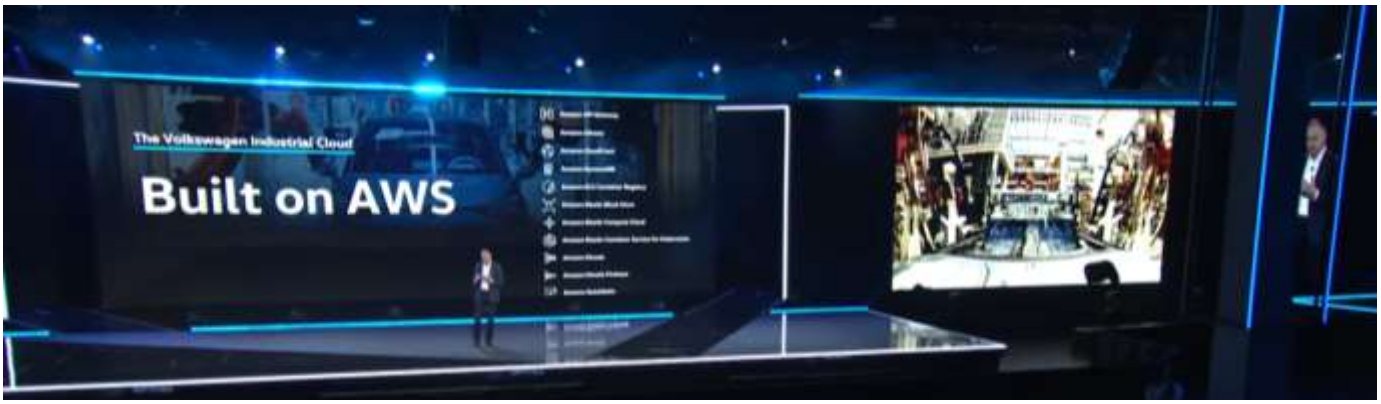
Security, data rights
& control
Machine Connectivity
VOLKSWAGEN


DPP PRODUCTION
EQUIPMENT TIER
OT – IT
Gateway
OPC UA SERVER
OPC UA
MQTT BROKER
MQTT
DATA TRANSFORMATION
FIELDBUS CONNECTORS
MACHINES
DPP INDUSTRIAL
EDGE TIER
Edge
Gateway
OT-IT
INFRASTRUCTURE SERVICES
PLANT CLOUD
AWS
OUTPOSTS
DPP PLANT / EDGE SERVICES
ON-PREM APPLICATIONS
DPP ENTERPRISE CLOUD
DPP USE CASE APPLICATION FRAMEWORK
DPP
SERVICES
AUTHENTICATION
VOLKSWAGEN


The Volkswagen Industrial Cloud
Built on AWS

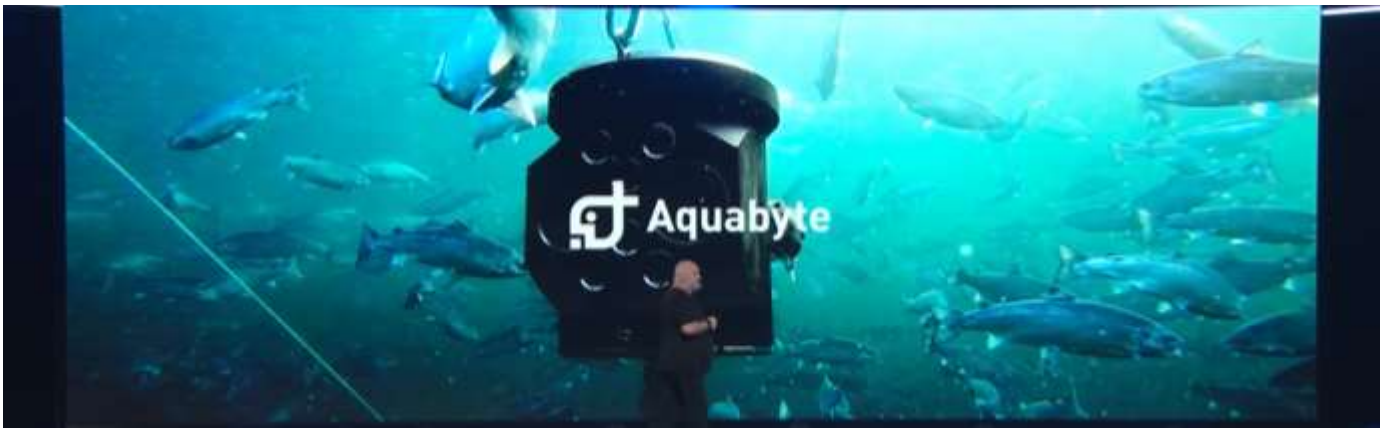
The Volkswagen Industrial Cloud
Built on AWS
Built on AWS

The Volkswagen Industrial Cloud
Built on AWS

The Volkswagen Industrial Cloud helps realize production strategy
Reduction of factory costs
Defined IT standards in and between plants
Increase in production program fulfillment
Improved product launches
VOLKSWAGEN

VOLKSWAGEN
aws
Volkswagen Industrial Cloud
Strong collaboration on a strategic journey
VOLKSWAGEN
aws
Volkswagen Industrial Cloud
Strong collaboration on a strategic journey
VOLKSWAGEN
aws

AWS is helping to solve
hard, human problems


Aquabyte

HARA

aws.amazon.com/startups/NowGoBuild
Now Go Build
Start watching today!
aws

e:Play
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