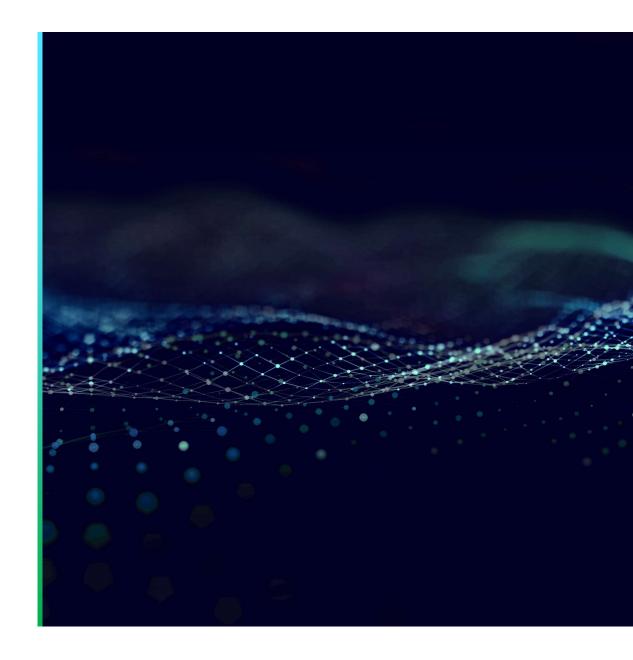


Architecting the Intelligent Edge

Tim Symonds IoT Technical Specialist

Chimène Bonhomme Cloud Solution Architect

IOT in Action

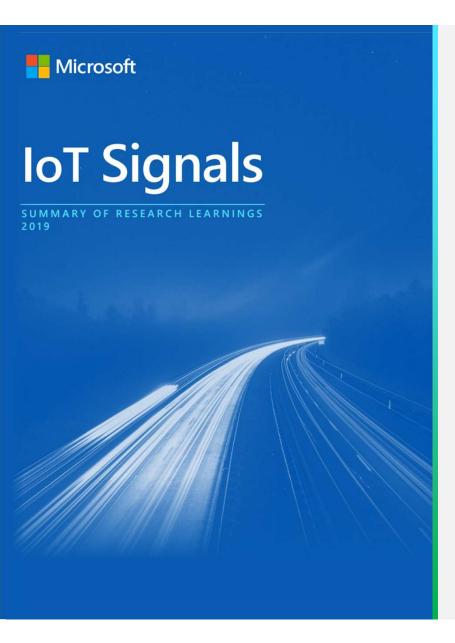




Slide 2

- TS5
 Changed the order Chimene what we are talking about today last

 Tim Symonds, 11/3/2019
 2
- **TS6** AS you have the last point do you want to do the segway? Tim Symonds, 11/3/2019
- TS7 Your style Tim Symonds, 11/3/2019



Reasons for IoT adoption





Challenge #1 Connecting devices – IoT Plug & Play

Challenge #2 Tech Complexity - IoT Central

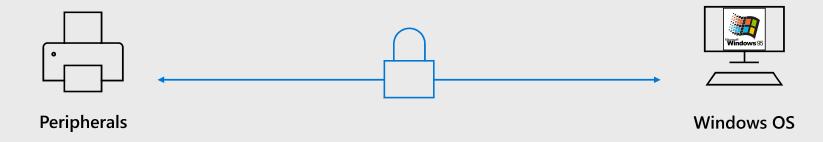
Challenge #3 More IoT traffic creates more data



IOT in Action

We had a similar challenge in the past...

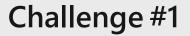
Challenge #1







That was solved with Windows Plug and Play

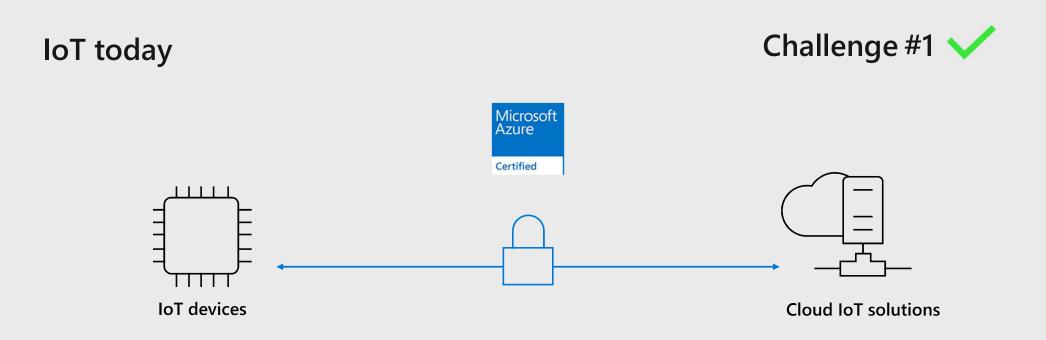




Devices published their capability models and adhered to them Windows used the capability model to know how to interact with them







Tight coupling between software on device and IoT solution in the cloud





IoT Central









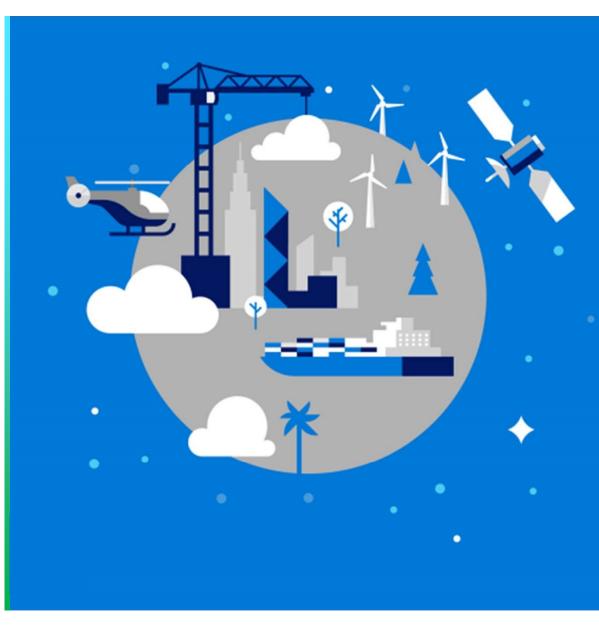


Challenge #3 More IoT traffic creates more data





Architectural Design Sessions









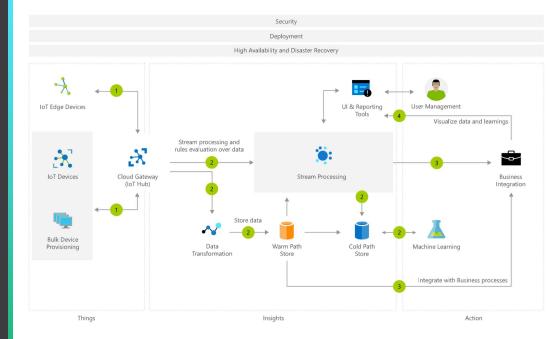
TS4 Should we move this in front of the ADS slides? Tim Symonds, 11/2/2019

Azure IoT Subsystems

- 1 Devices send telemetry records or events to the cloud gateway
- 2 The following steps happen in parallel:
 - Steam processing & rules evaluation is done for device telemetry records & events.
 - Device telemetry data is transformed (if needed).
 - Device data telemetry is stored.

OTin Action

- **3** Business process integration is executed.
- Device information is visualised & displayed in the UI.





Challenges for teams

Organisational

Teams often work in a bit of a 'silo' Mismatch in skills to move beyond experimentation Limited ROI on investments More need for structure in projects Development teams not working at same release cycle

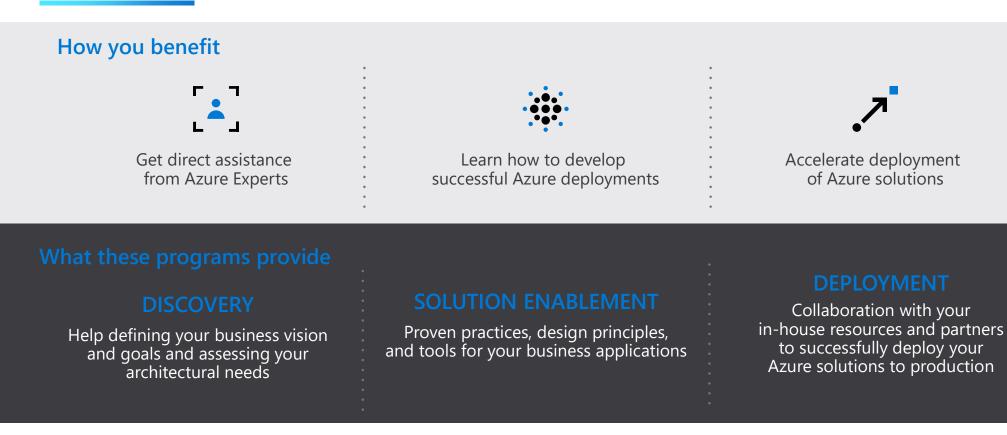
Technology / Process

Going from experimentation to production Scale from local prototyping to larger data sets / compute. Device deployment and management Monitoring devices in production Lineage, auditing and explanability





Architectural design sessions with Microsoft

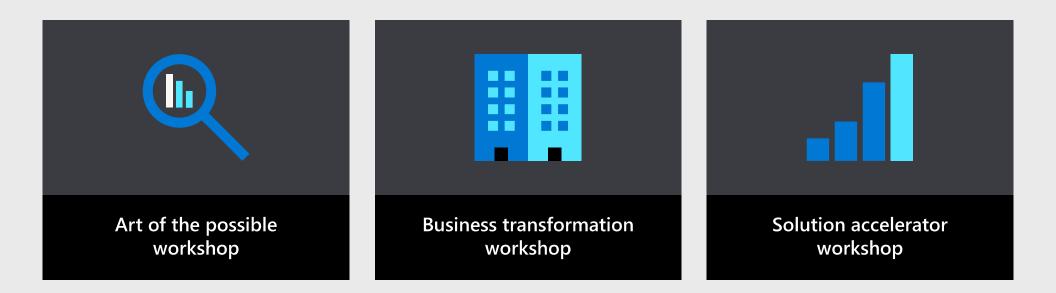






Making it happen

Architectural Design Sessions









Partners make more possible

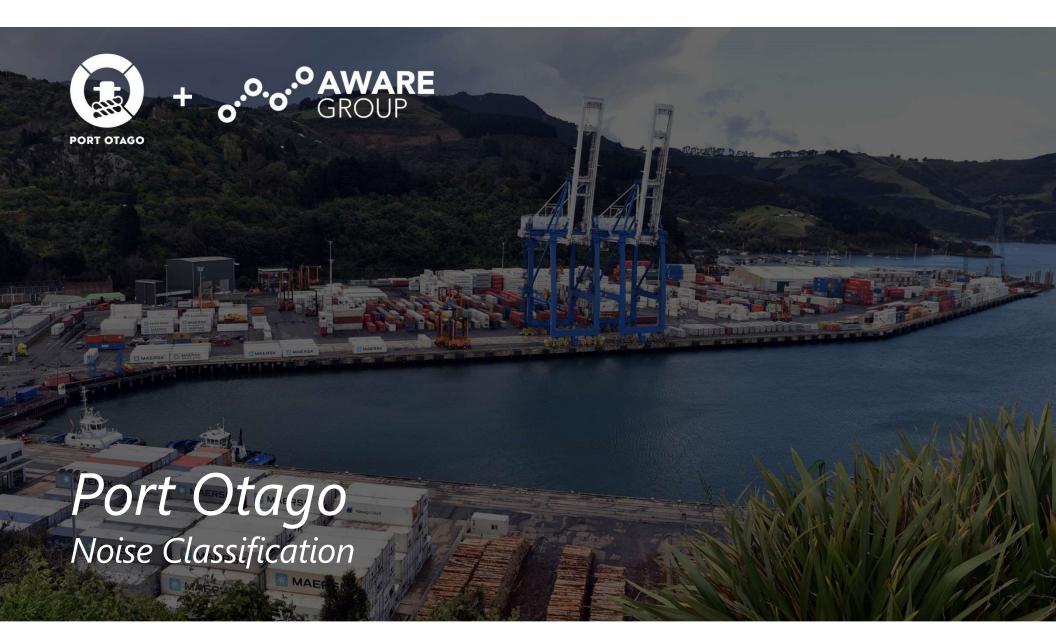


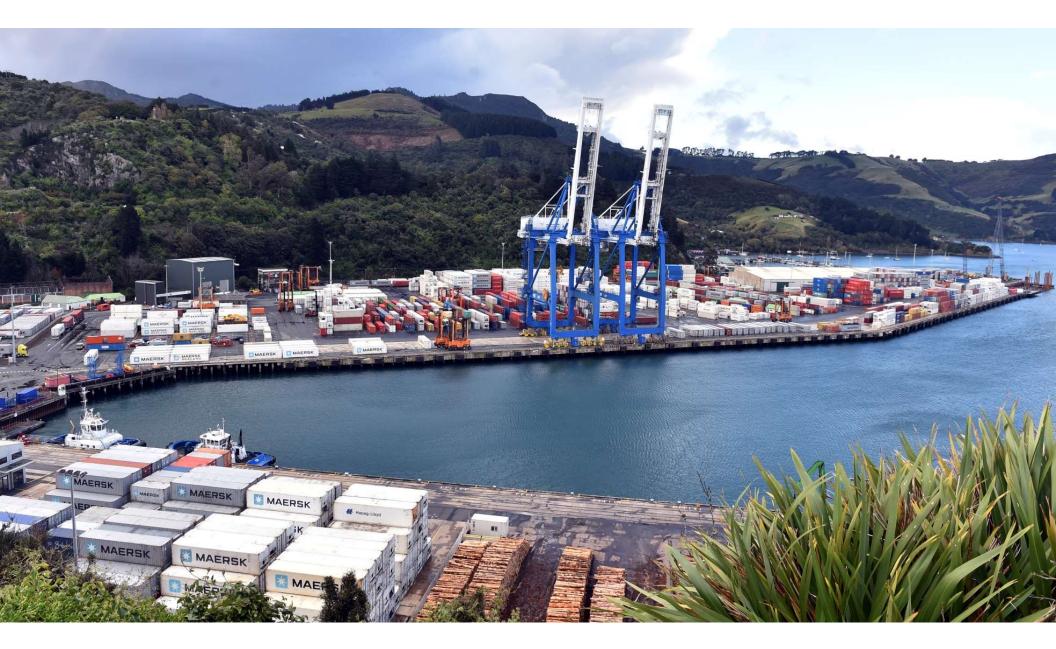


Jourdan Templeton сто

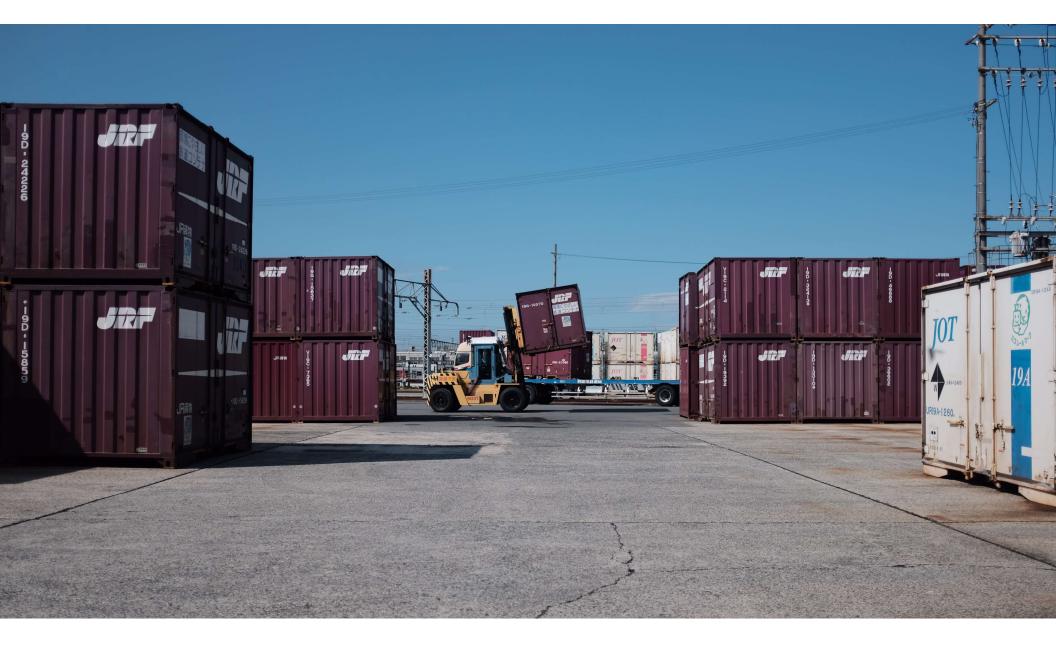
We leverage audio, video and IoT data to build AI solutions for our customers.

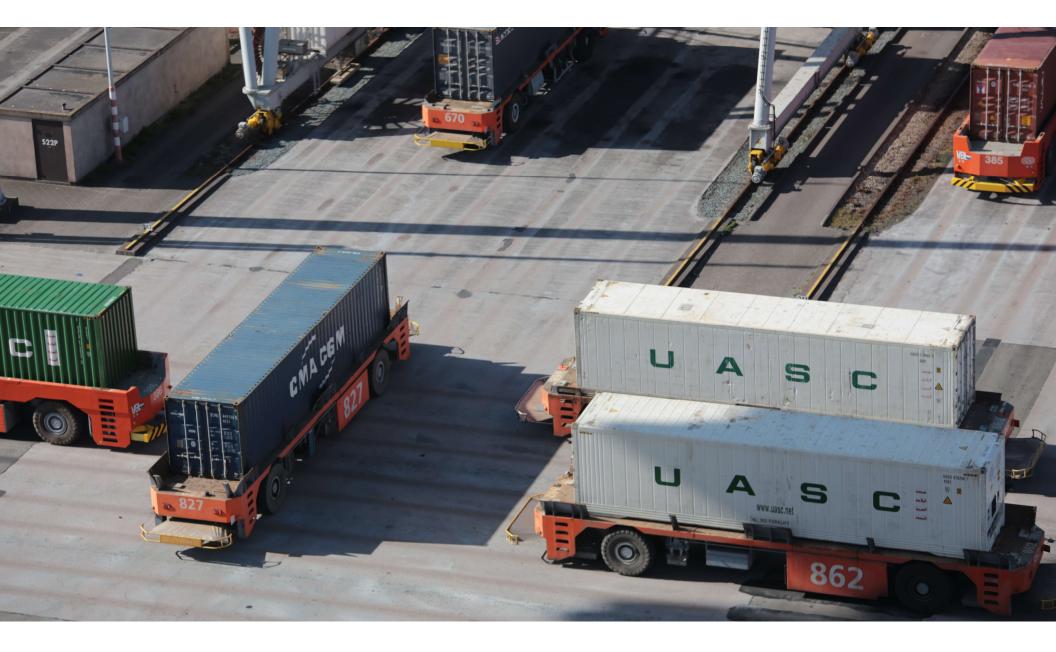




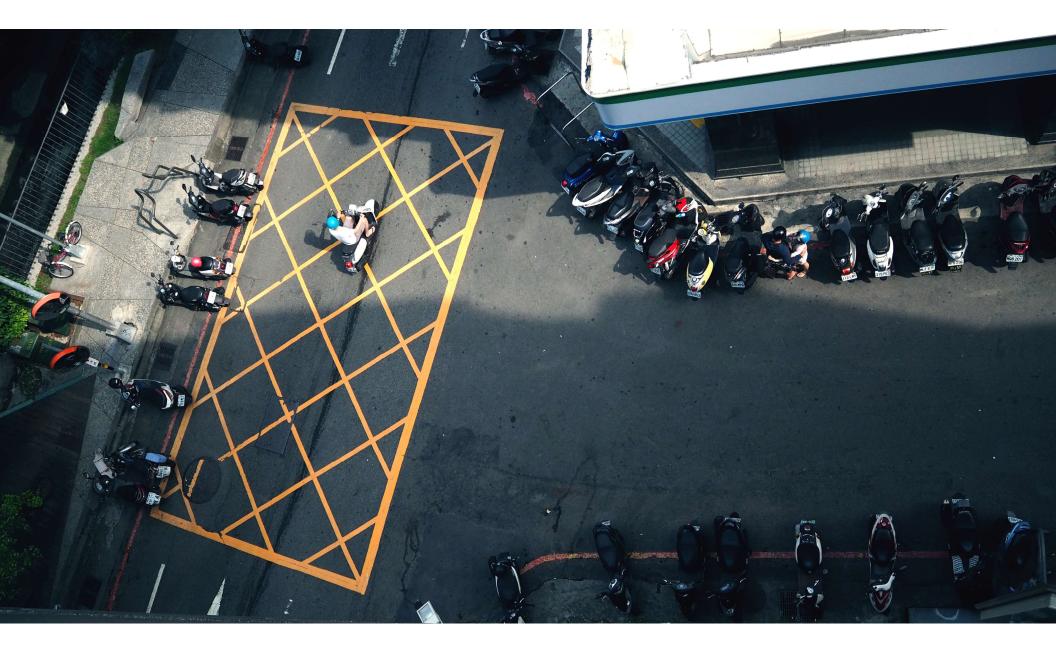


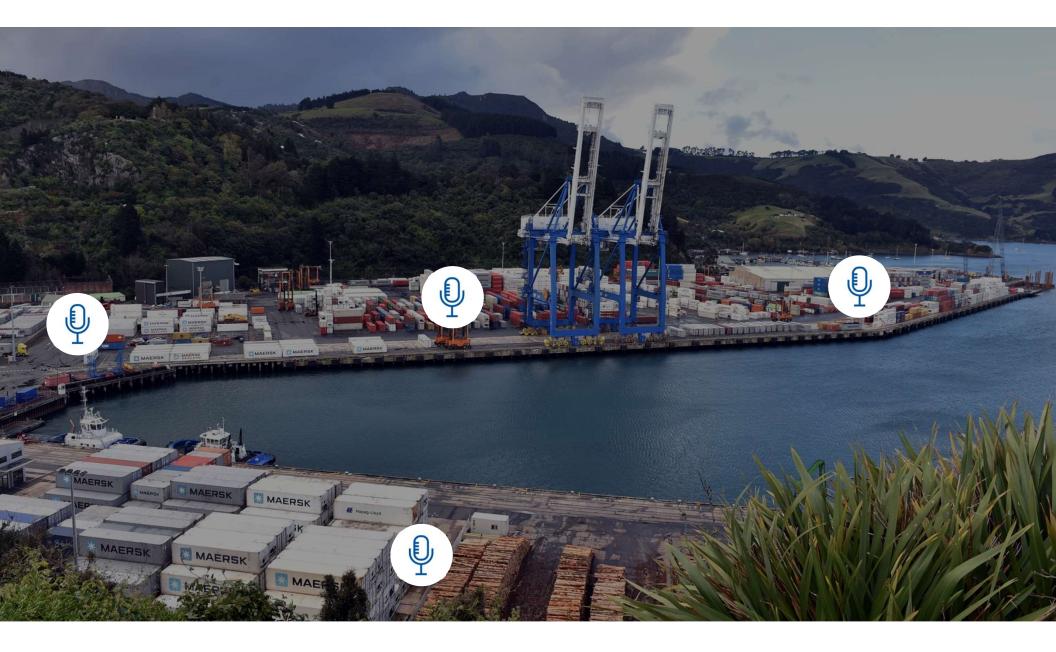










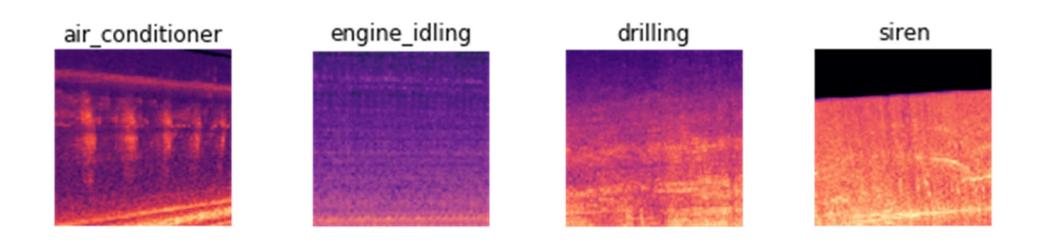


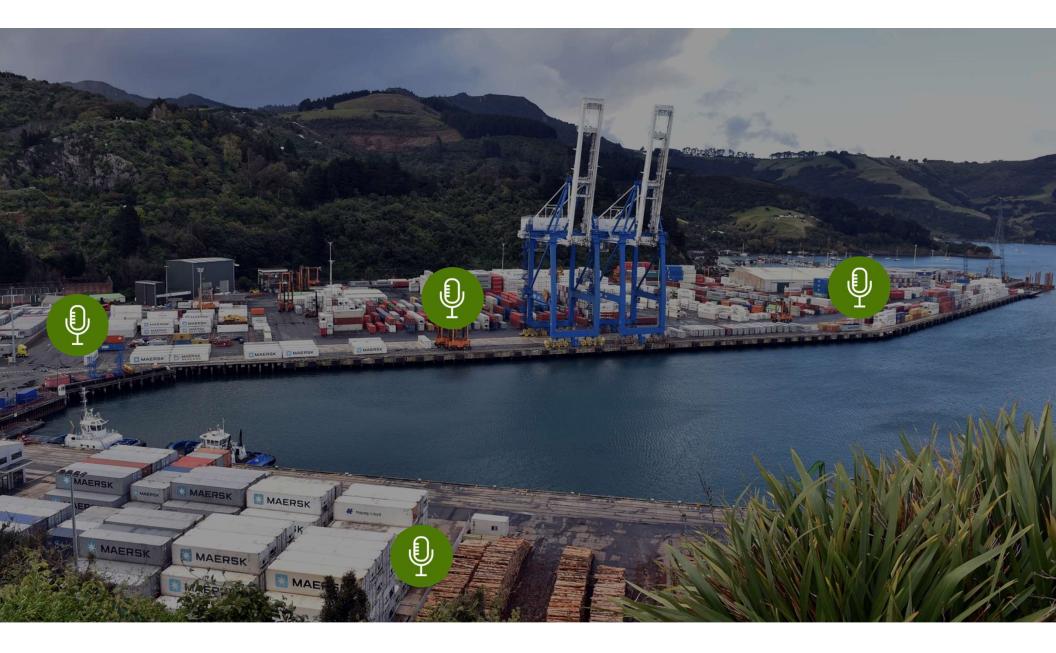




Digital Signal Processing

Computer Vision on Audio



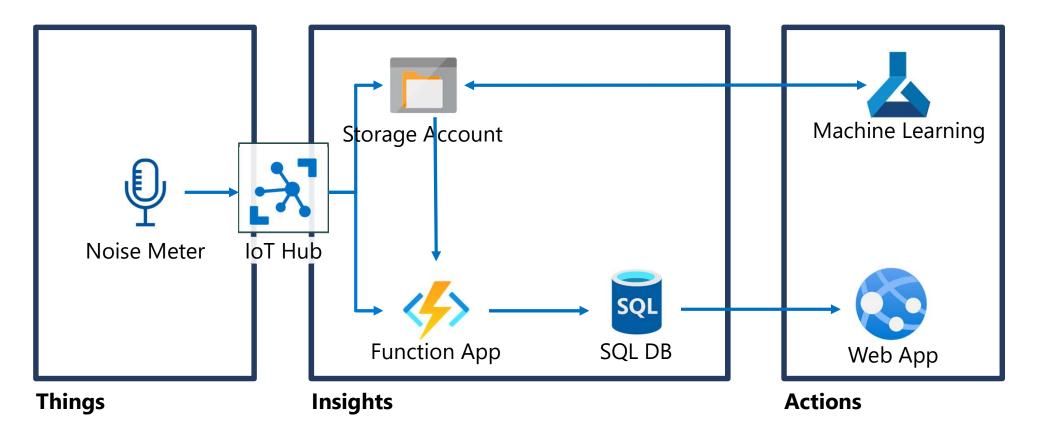




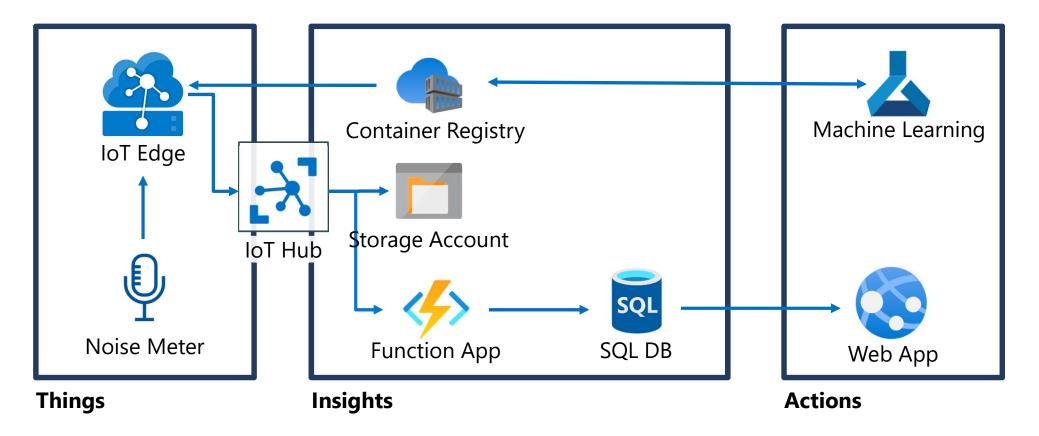
Audio Classification Demo



Architecture v1



Architecture v2



Let's work together.

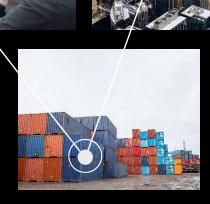
Find us at the expo area and at: <u>www.awaregroup.com</u> <u>info@awaregroup.com</u>







Azure IoT Transforming your business





Version 09-17-19 v1

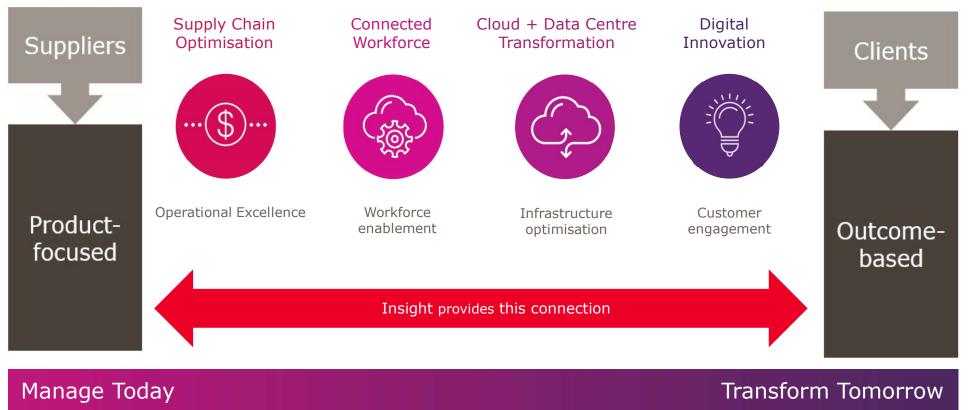


Richard Lee Principal Consultant



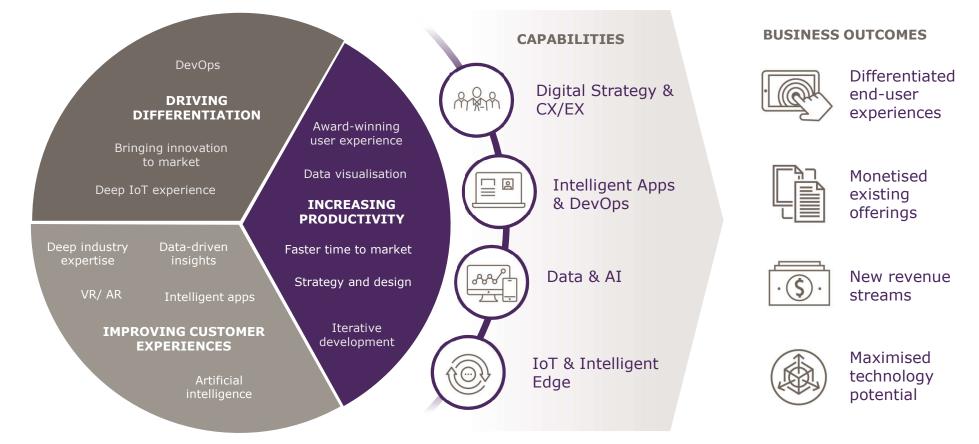


We help you achieve your goals

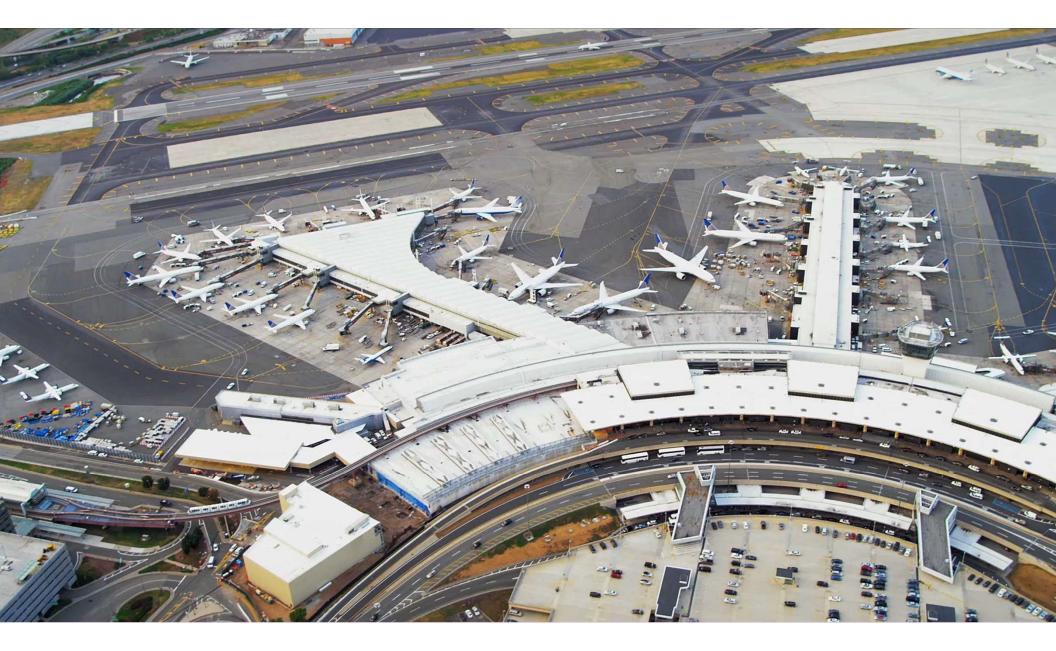




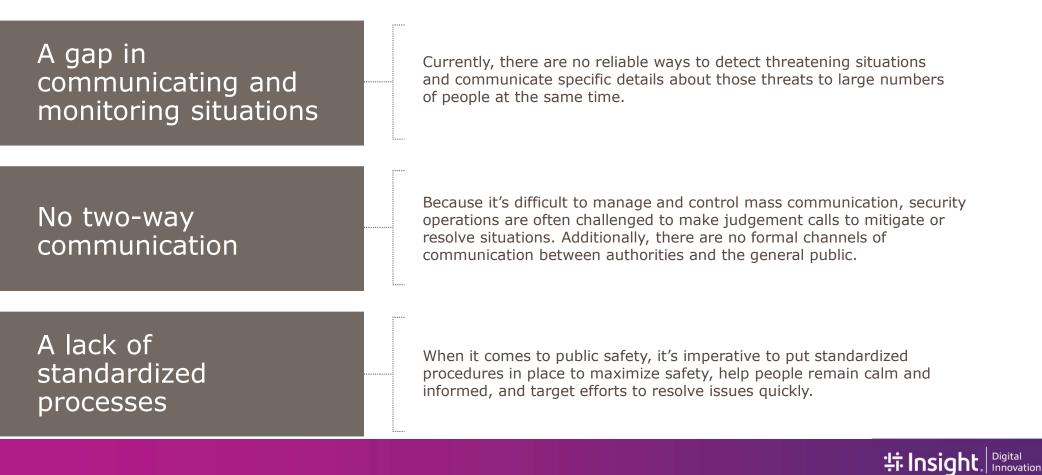
Our approach



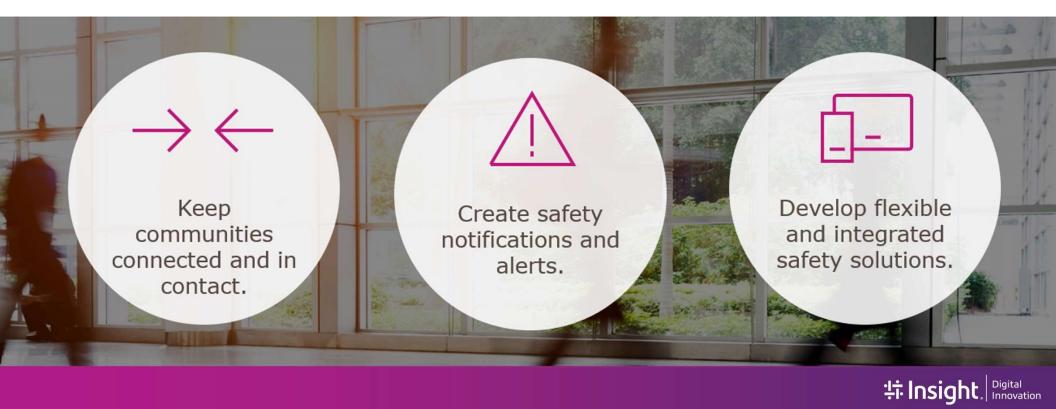




What's standing in the way of situational awareness?



So how can we create situational awareness?



Examples of extending the platform



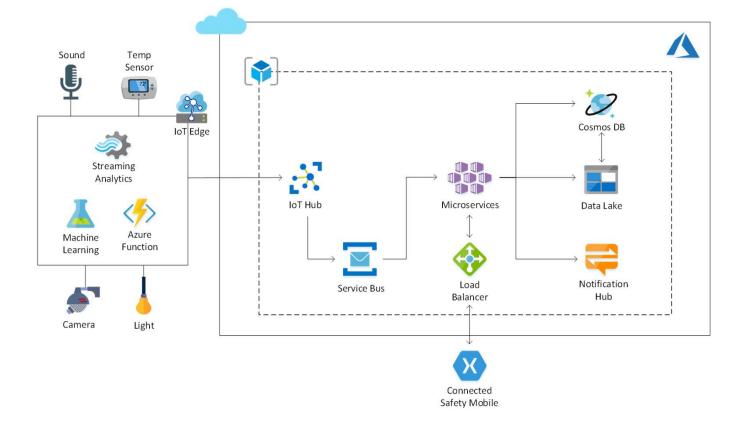


DEMO HERE

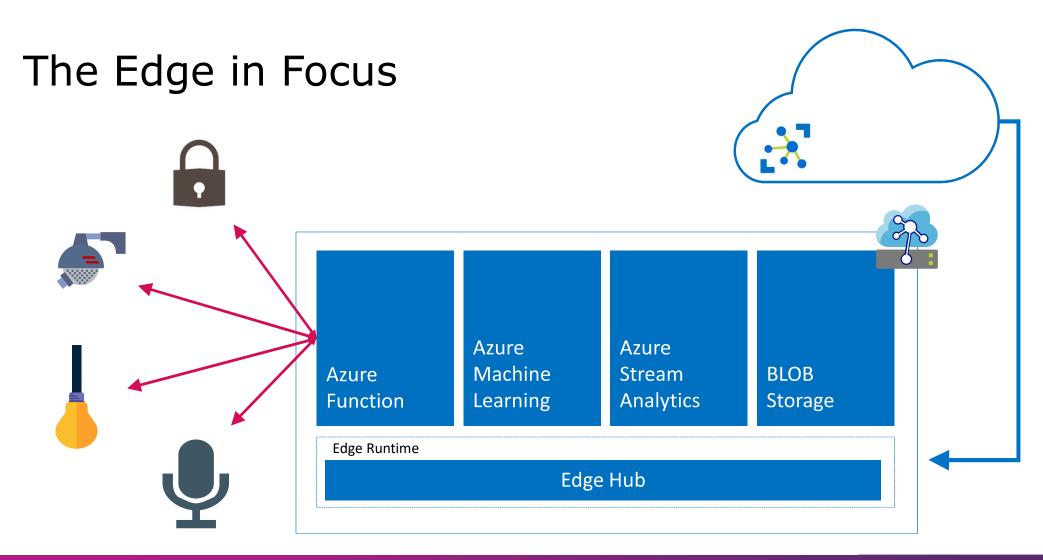


Overall Architecture

the Insight.



は Insight. Digital Innovation



は Insight. Digital Innovation

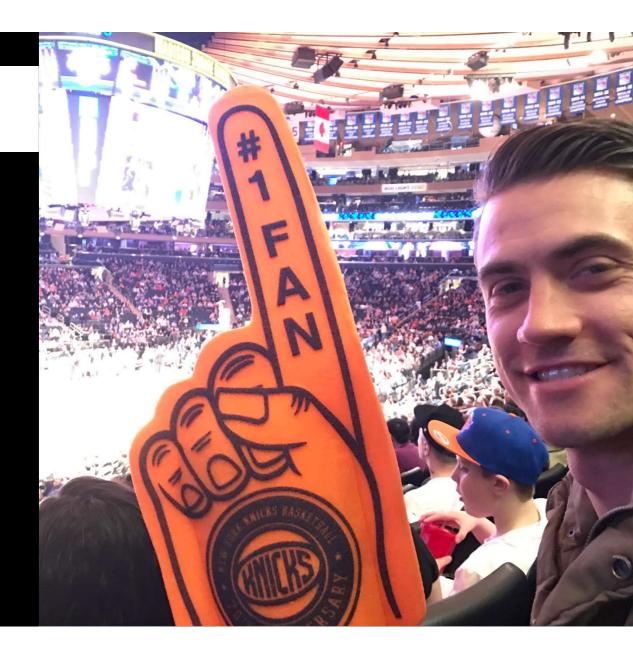
‡insight.

Richard Lee Principal Consultant



in <u>/in/richardleeaus/</u>





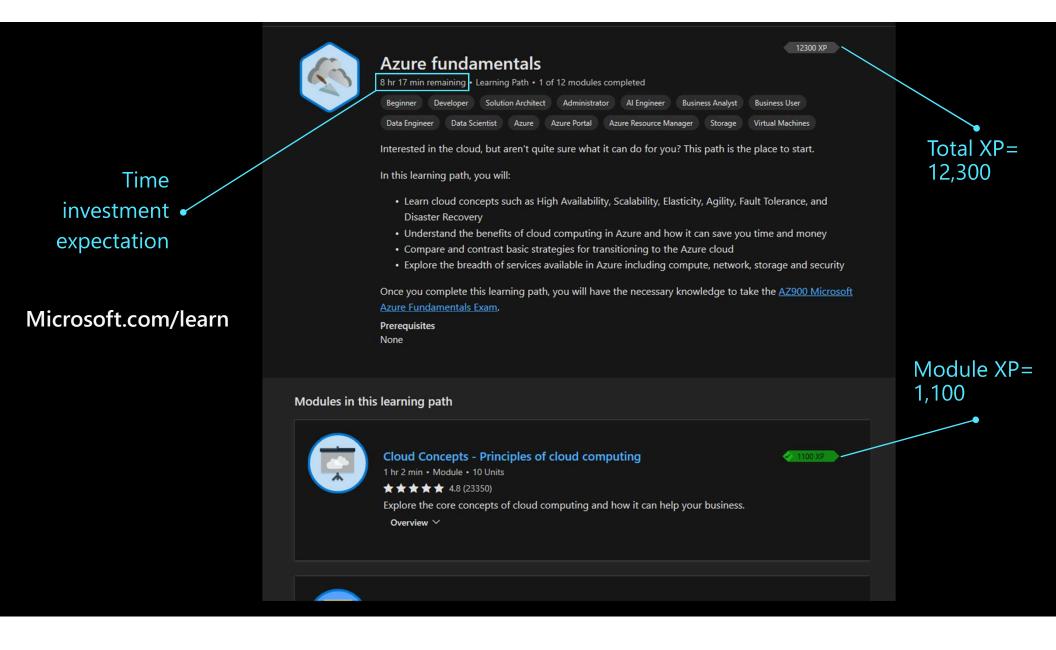
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