New Day ..
New Learnings ..

Same journey

A Brief <u>Journey</u> from Device to Action …

Things	Connectivity	Data	Analytics	Action

repetitive *IoT Pattern*

Azure IoT Edge

Azure IoT Hub

Things

Connectivity

Cloud Gateway

Insights

Insights
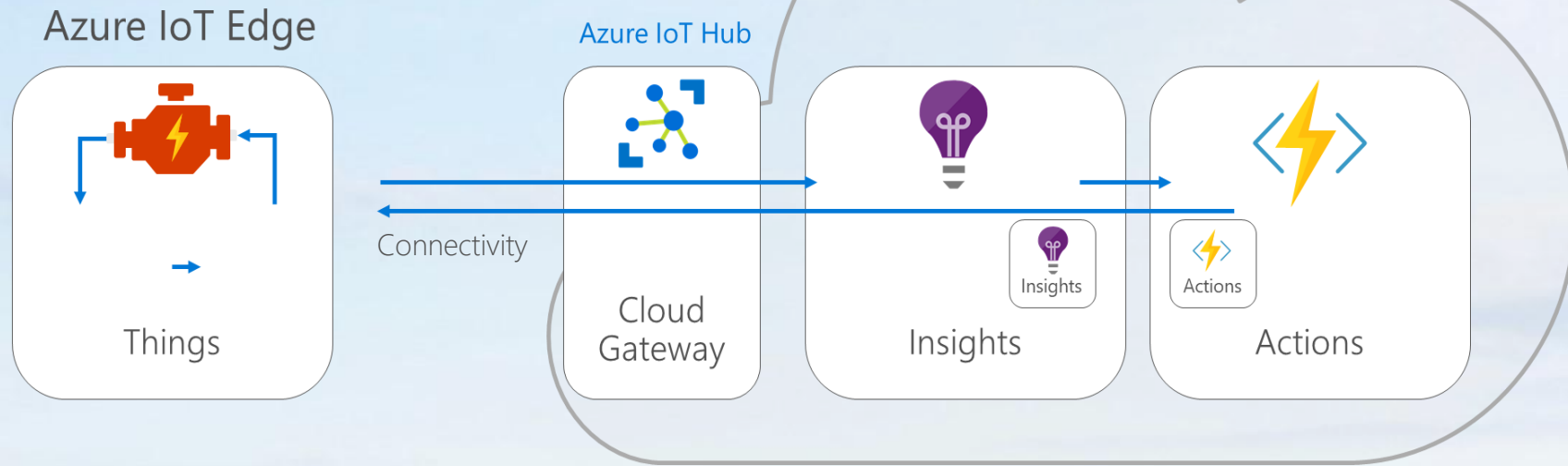
Actions

Actions

A Brief Journey from Device to Action ...

Day 1
Get started

- Basic Things
- Get them connected
- Collect & Visualize Data

Day 2
Go commercial, Mine Gold

- Smarter & Commerical things
- Ingesting data at scale
- Mining Gold (i.e. Insights)
- Cloud vs Edge Processing
- Introduction to AI/ML

Day 3
Make it Intelligent / Make it real

- Inducing AI in IoT – Cognitive services, Bot framework, Azure Machine leaning
- Industry Use case examples
- Accelerate IoT adoption – PaaS & SaaS

Beyond
Journey has just begun..

- Business Model considerations
- Securing and E2E Solution
- IoT AI @Edge
- Advanced ML
- Deep Learning
- Blockchain & IoT

Housekeeping

❑ Read instruction on http://aka.ms/IoTVirtualBootcamp

❑ Access Skype broadcast / Issues ? iplive@Microsoft.com

❑ Use Q&A panel or mail to virtualbootcamphelp@Microsoft.com

❑ Quiz 2 (@ Lunch, @ end) + Survey on Day 3 end

❑ Everything else ONE place: http://aka.ms/IoTVirtualBootcamp

- ▪ Recoding's (full day, modularized)
- ▪ Updated content
- ▪ Downloadable Labs
- ▪ Content files

IoT .. Beyond Technology ..

1. How do you think about IoT as a business enabler ?

2. How can IoT open new & innovative business models ?

3. Security – how to look at it holistically ?

Some nuggets of wisdom from
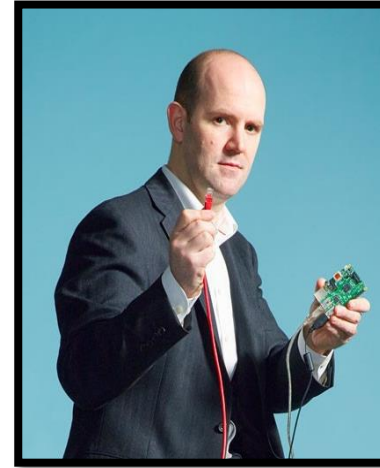*Rodney Clark, VP OF Microsoft IoT device experience*

Microsoft IoT Bootcamp Speakers

Guest Speakers

Limor Fried,
CEO, Adafruit
Industries

Eben Upton
Founder, Raspberry
PI

Ted Way
AI & Research,
Microsoft

Bootcamp Lead Trainers

Kevin Saye
Cloud Solution Architect,
Microsoft

Maarten Struys,
IoT Design In Strategist,
Microsoft

Chris Segura
Windows Azure IoT,
Microsoft

Our Support Team

Michael King
Microsoft

Ken Marlin
Arrow Electronics

Salman Faris
Hackster.io

Marcel Bösing
Avnet Silica

Tim Graves
Microsoft

Kijo Kim
Microsoft

Harold Pulcher
Improving

Kent Stroker
Microsoft

Kevin Saye
Microsoft

Martin Grossen
Avnet Silica

Adam Benzion
Hackster.io

Gordon Smith
Microsoft

Maarten Struys
Microsoft

Andrea Gallagher
Microsoft

IoT Education + Possibilities + Partnerships

Suggested IoT Resources

- Educational Sessions (Business & Technical) :
  http://videos.microsoft.com/IoTinAction

- IoT resource for MS partners:
  https://www.microsoftpartnerserverandcloud.com/Pages/
  practice.aspx?page=20

- Latest on IoT from MS : https://blogs.microsoft.com/iot/

- IoT Security (7 propertied of highly secure things):
  https://www.wired.com/story/project-sopris-iot-security/

- Industry Use cases & more information Azure IoT :
  https://www.microsoft.com/en-us/internet-of-things

Upcoming events

- Jan 11 2018 **Virtual Session** : Predictive Maintenance
  Webinar Presented by Microsoft and Happiest Minds -
  http://aka.ms/IOT-HM

- Jan 25-26 **Tokyo**; Jan 30 **Seoul**; Feb 13 2018 **SFO**:
  Microsoft IoT in Action WW series. Register at:
  http://aka.ms/IOT-SF

The Journey continues ..

Agenda

Day 1

Topics	Time (min)
Bootcamp Opening	15
Guest Speaker - Limor Fried	45
Lecture #1 - Introduction - IoT 101	45
HO Lab #1 - Introduction to IoT Things - Build a basic device	30
Lecture #2 - Connecting your first device	30
HO Lab #2 - Connecting your first device Lab	45
Rest Break	30
Lecture #3 - Data Basics	30
HO Lab 3 - Data Basics - Cold Path Processing Lab	60
Lecture #4 - Taking Action & Serverless architecture	30
HO Lab 4 - Taking Action & Serverless architecture - using Azure Functions	30
Wrap up	15

Day 2

Topics	Time (min)
Opening	15
Guest Speaker - Eben Upton	45
Lecture #5a. Showcase Commercial Things in use today	45
Lecture #5b. Building Smarter Commercial grade things and need for an Operating System	45
HO Lab #5 - Build a Smarter Commercial grade thing and connect it to cloud	60
Rest Break	30
Lecture #6 - Cloud Deep dive - IoT Hub, Device twins & IoT edge	45
HO Lab #6 - Cloud Deep dive - Device Twin Lab	30
Lecture #7 - Introduction to Big Data, AI & ML	45
HO Lab #7 - Introduction to Big Data Data, AI & ML - Stream Analytics Lab	45
Wrap up	15

Day 3

Topics	Time (min)
Opening	15
Guest Speaker - Ted Way	60
Lecture #8 - Cognitive Services	45
HO Lab # 8 - Cognitive Services Lab	60
Rest Break	30
Lecture #9 - BOT Framework (Level 100)	45
HOL #9 - Build a chatbot	60
Lecture #10 - IoT Accelerate to Market with IoT Suite for top 3	45
Q&A Time / Key Takeaways Revisited	45
Wrap up	15