

2017

PwC IoT & Advanced Analytics Innovation Workshop & Readiness Assessment

Experience the possibilities of IoT & Analytics



In collaboration with Microsoft

What will you get by attending our Innovation Workshop?



Understanding of the possibilities
of IoT & Advanced Analytics



Discuss **digital use case** ideas
based on live experience



Hands-on **experience** with IoT &
Analytics for decision makers



Have the most **promising use
cases identified** for pilot projects

PwC IoT & Advanced Analytics Innovation Workshop

The workshop at a glance



Day One

Understand IoT

Activities

- Introduction to the potential of IoT & Analytics
- Explain the Azure IoT reference architecture
- The Analytics maturity level
- Presentation of real world use cases

Results

Participants understand what IoT & Analytics is and can do for them



Know possibilities



Hands-on experience

Activities

- Select sample use case
- Guided hands-on experience with IoT & Analytics solutions
- Work with Azure IoT & Analytics services to understand their potential for your company

Results

Participants have built their own solution and explore how IoT benefits their own organizations



Personnel experience



Day Two

Use case discussion

Activities

- Design customized use case ideas for your company
- Discuss value drivers and complexity of your use cases
- Prioritize use cases ideas and select candidates for proof of concept project

Results

Ideas for IoT & Analytics use cases are described and rated in terms of feasibility



Consolidated ideas



Plan next steps

Activities

- Sketch high level architecture for most promising use case
- Define scope and timeline for proof of concept project
- Wrap-up workshop results and plan next steps

Results

Draft architecture for selected use case and next steps for proof of concept project



Pilot blue print

PwC IoT & Advanced Analytics Innovation Workshop

Understand the possibilities of IoT & Advanced Analytics



Day One

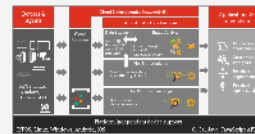
Understand IoT & Advanced Analytics

The potential of IoT & Analytics

See why digitalization will be disruptive for industries and why IoT & Advanced Analytics is a key factor for optimized efficiency, improved offerings and completely new business models and revenue streams.

Microsoft Azure IoT reference architecture

Understand the Azure IoT reference architecture and its interplay with 3rd party vendors and platforms.




Analytics maturity level

Commonly, companies believe they are performing at a higher level than they actually are. To pin-point where your company actually resides in the analytics maturity matrix is a good starting point for further roadmap discussions.


Real world use cases of Microsoft Azure IoT and live demonstration

Diebold




Diebold reached **99% uptime rates** for their highest level service agreements and are pursuing 100% uptime.

Rockwell Automation




A single pump failing in an offshore rig can halt operations and cost the company up to 300 k\$ a day in lost production.

Rolls-Royce



Cutting fuel usage by 1 percent could **save 200 k\$ per plane per year**.

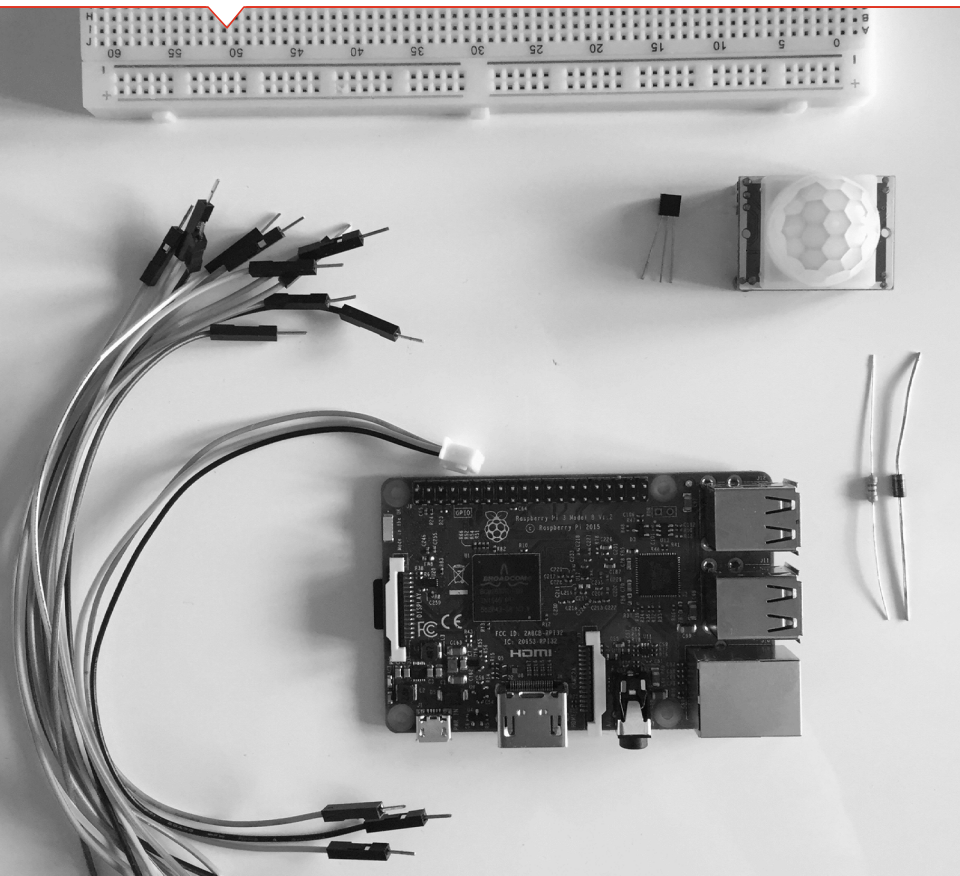
GOJO



Hand washing **increased by 52%** during the study period

PwC IoT & Advanced Analytics Innovation Workshop

Guided hands-on experience with IoT & Analytics for decision makers

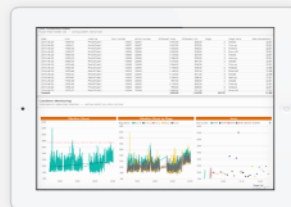


Day One

Gain personnel experience with IoT & Analytics

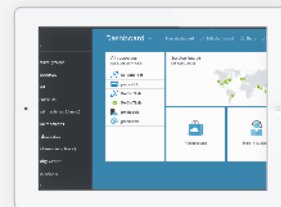
Hardware

Use of Raspberry Pi's powered by Raspberian as IoT device and a breadboard to easily connect sensors without any soldering makes personnel IoT experience easy and touchable.



Advanced Analytics & Dashboards

Analyze data in real-time and enrich dashboards with state-of-the-art visualizations and embedded analytics capabilities like R scripts or automatic correlation detection.



Cloud Services

IoT Hub

Connect the Raspberry Pi easily to the Cloud by using IoT Hub Services.

Data Streaming

Streaming the data in real-time from the source to the dashboard can be enriched by Machine Learning algorithms.

Machine Learning

Analyzing the data and finding patterns in the data can be used to predict events and create new insights into the data.

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Generate digital use case ideas based on live experience



Day Two

Use case discussion with decision makers

Design customized use case ideas

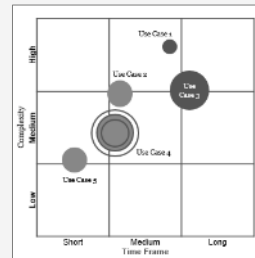
Based on the personnel experience gathered while working with IoT & Cloud technologies participants start thinking about use cases that might be valuable in their specific business context.



Subsequently possible use cases will be formed in an agile approach by using design thinking technologies.

Discuss value drivers & complexity

Identified use cases ideas will be discussed and challenged in terms of feasibility, value and complexity.



Promising use cases are discussed in detail and refined for further discussion.

Prioritize candidate use cases

Identified use cases will be prioritized primarily in terms of fast implementability and their expected value for the company.



Afterwards the highest rated use case will be analyzed in detail to enable a comprehensive analysis of strength, weakness, opportunities and threats.

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Identify the most promising use cases for pilot projects



Design high level architecture and next steps

Sketch architectural blueprint

Based on the identified use case an architectural blueprint will be designed



and mapped to adequate Azure IoT & Analytics services.

The blueprint acts as the foundation for further discussions on project timeline and scope.

Define scope and timeline for POC

According to the defined blueprint the scope and possible timeline of a proof of concept project



is developed. The project timeline is aligned to an agile project methodology to ensure fast project results.

Wrap-up results & plan next steps

Finally the workshop results are consolidated and next steps for a pilot project are collected.



Consolidated workshop results are delivered to the customer.

PwC IoT & Advanced Analytics Workshop

Offering at a glance

IoT & Advanced Analytics Innovation Workshop

Key Facts

Content: **Day 1** highlights the possibilities of IoT and Advanced Analytics, the Microsoft Azure IoT platform and enables participants to gather own experience with hands-on labs.

Day 2 focus upon use case discussion and outlining an architectural blueprint for pilot projects.

Day 2 is held in bilateral sessions between client and PwC

Audience: Chief Operations Officer
Chief Information Officer
Chief Innovation Officer
Plant / Manufacturing Manager
Business and IT users

Language: English / German

Participants: max. 15 persons

Location: PwC office, Zürich

Instructors: 1 PwC IoT & Analytics expert
1 Azure expert from Microsoft

Regular fee: CHF 500 per organization for 3 participants

Further Offerings

IoT & Cloud Readiness Assessment

Content: In a co-working approach with your business we analyze your data and validate identified use cases for IoT scenarios. Together with your IT we work on a secure integration of required cloud services.

Audience: IoT Solution Architects
IT/Cloud Infrastructure Team

Industry 4.0 Analytics App Platform

Prebuild solutions for IoT and Industry 4.0 applications, combining data integration, analytics & visualization in a modular toolset

Programme

Day 1 Morning

- 08:30 Reception and introduction
- 09:00 Participants talk briefly about their expectations
- 09:30 Microsoft: an introduction MS Azure
- 09:55 Microsoft: an introduction Azure & IoT
- 10:40 Coffee break
- 11:00 Hands-on part 1

Day 1 Afternoon

- 12:30 Lunch
- 13:30 Hands-on part 2
- 16:15 Coffee break
- 16:30 Wrap-up day 1
- 17:00 Apéro

Day 2 Morning

- 08:00 Recap / feedback day 1, overview day 2
- 08:30 Introduction use case by client
- 10:00 Coffee break
- 10:15 Use case discussion / focussing

Day 2 Afternoon

- 12:00 Lunch
- 13:00 Implementation concept
- 14:30 Sketching pilot project
- 15:30 Feedback & next steps

Contact



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