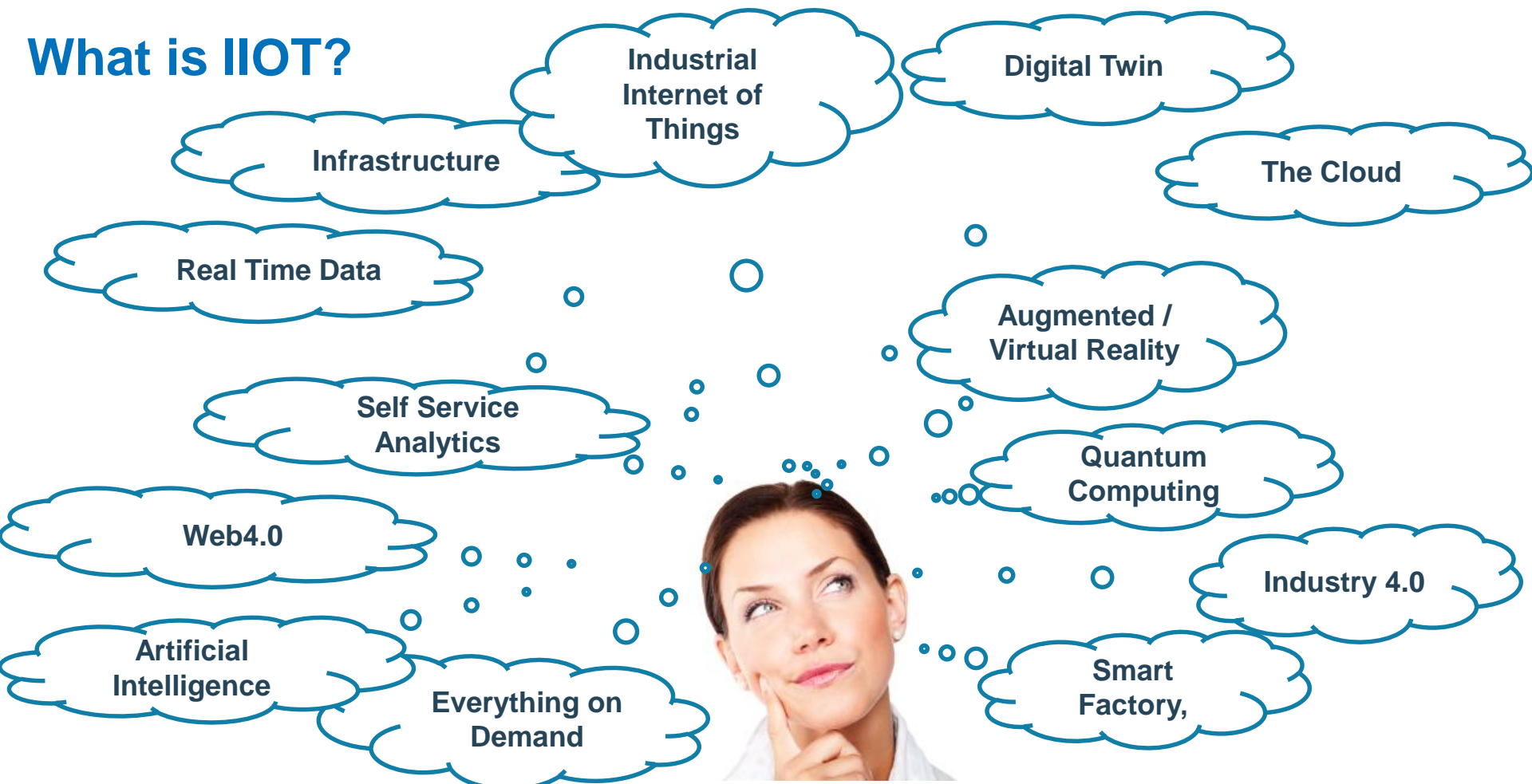


OSIsoft Charlotte Regional Seminar 2017

Industrial Internet of Things



What is IIOT?



Industrial Internet of Things

Digital Twin

The Cloud

Infrastructure

Real Time Data

Augmented / Virtual Reality

Self Service Analytics

Quantum Computing

Web4.0

Industry 4.0

Artificial Intelligence

Smart Factory,

Everything on Demand



Today process and operations have thousands of machines essential to the efficient running of a process or operation

Data Deluge is a CRIME

We have the Forensics!



Hundreds of assets

Thousands of events

More people that need to know

How can you deliver
operational excellence?



Big data systems require **comparable data**

*..and much time is spent mixing
operational & business data*



PI Integrators

*Prepare and deliver operational
data to business systems.*

Business Data →

Operational Data →



Typical Planning for Data Science Experiments

Definition of the scope , background information, definition of success criterias etc...

Data field selection, cleansing and transformation

Evaluate model against criterias for success and business goals, model documentation and approval of the model

80% WASTED TIME



Use case selection

Extra
exp
qua

spend vast majority of
gathering data, not
data.

Analysis & insight-gathering
(the fun stuff)

Data janitor-work

- collection
- standardization of data format
- de-duplication
- checksumming
- correcting timestamps
- etc...

Scientist: the 21st Century

“Data scientists spend
of their time writing
than generating

When Jonathan Goldman arrived for work in June 2006 at LinkedIn, the business networking site, the place still felt like a start-up. The company had just under 8 million accounts, and the number was growing quickly as existing members invited their friends and colleagues to join. But users weren't connections with the people who were already on the site executives had expected. Something was apparently missing. As one LinkedIn manager put it, "It was at a conference reception and realizing you don't know you just stand in the corner sipping your drink—and you probably leave early."

Data Scientists perform too much Data janitor-work

Data Scientist

Inverted Solution to Data Deluge



From data to decisions and actions

1 - Data

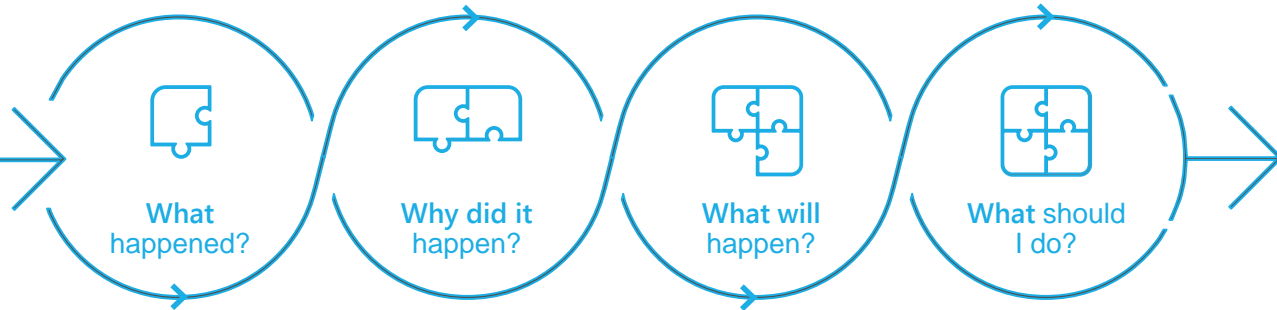
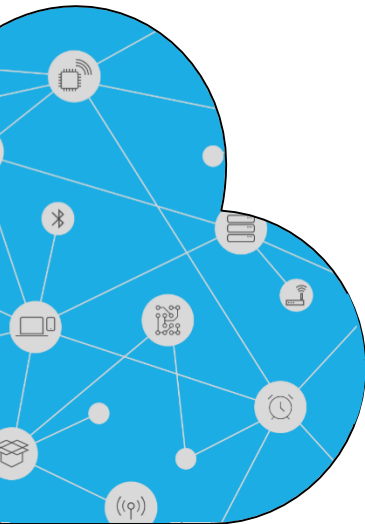
Basic Analytics

2 - Information

Descriptive &
Diagnostic Analytics


3 - Intelligence

Predictive &
Prescriptive Analytics



Insight





Safety & Security
Energy Efficiency



Process Productivity
Asset Health & CBM



Quality Tracking
Regulatory Compliance

Business Intelligence



Access to Critical Information

Single Source of
the Truth

Recommended Flow of Topics in Agenda

- The role of OSIsoft & the PI System in IIOT
- Reducing In-Line Quality Issues
- Facilities & Energy Mgmt. on a Single Pane of Glass
- Reducing O&M Cost in the Power Industry in the Cloud
- Maximizing Operations with Real Time Spatial Information
- Simplifying Complexities of Power Distribution
- Panel Discussion on the Value of PI Asset Framework
- Demo Pods
- Networking Event
- PI Vision Learning



Housekeeping

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OSIsoft



감사합니다

谢谢

Danke

Merci

Gracias

Thank You

ありがとう

Спасибо

Obrigado

