

15-17 JUL 2015 · 2015年7月15-17日



MWC Asia – IoT Summit

### Vision for IoT & Key Technologies

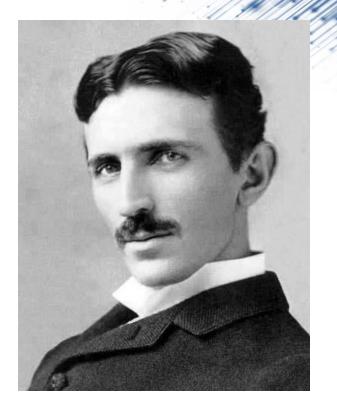
17 JULY 2015 Jin Wook Lee(李珍煜), Ph.D. Vice President

Software R&D Center Samsung Electronics

#### **One man's Dream**

Nikolai Tesla predicted in 1926 that,

"When wireless is perfectly applied the whole earth will be converted into a huge brain, which in fact it is, all things being particles of a real and rhythmic whole... A man will be able to carry one in his vest pocket"



Nikolai Tesla (1856~1943)

#### **Internet of Things : What & Why**

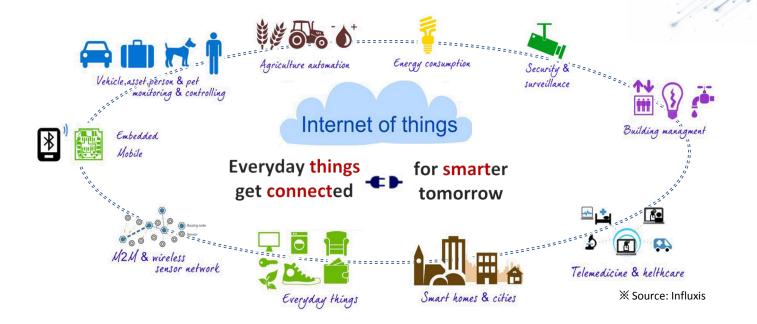
# KEVIN ASHTON & the internet of things and other things

*"The problem (of current Internet) is, people have limited time, attention and accuracy—all of which means they are not very good at capturing data about things in the real world."* 

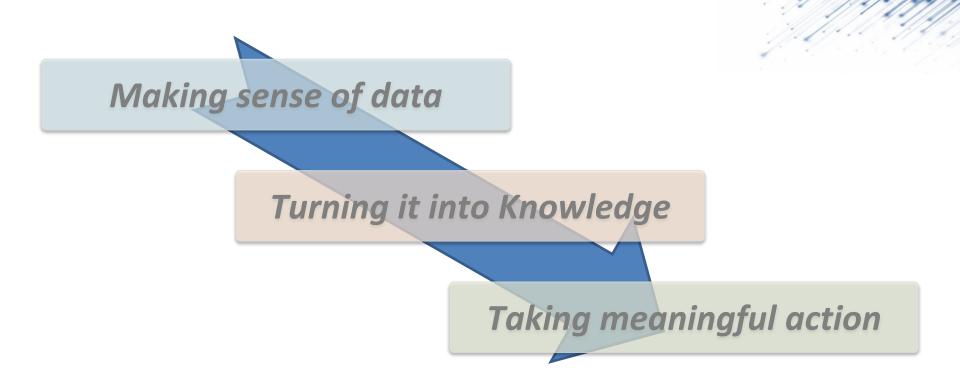
#### The age of the IoT has already begun



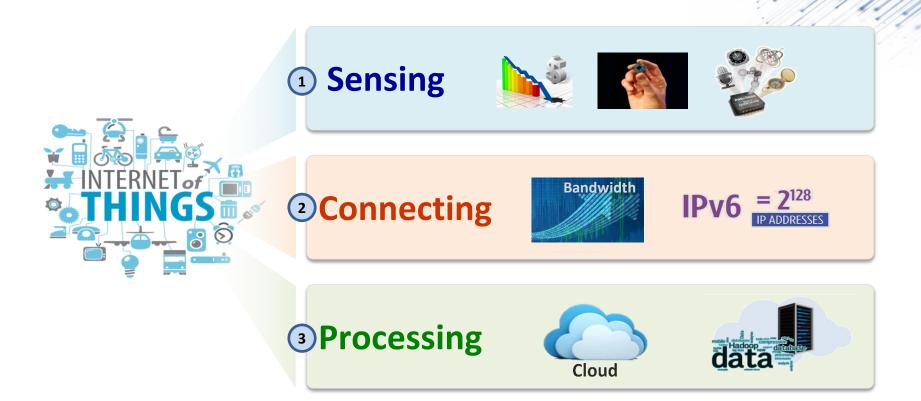
#### What is the main objective of IoT ?



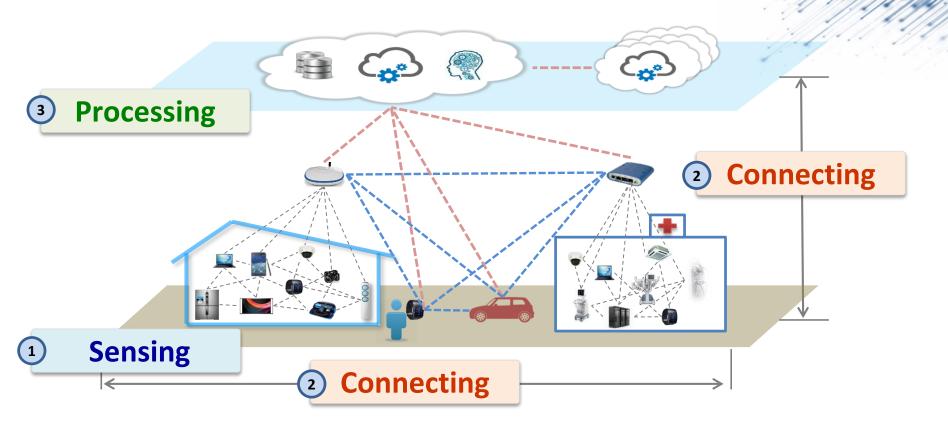
#### What is the IoT Service Operation Model?



#### What makes IoT possible Today ?



#### What is IoT Building Blocks ?



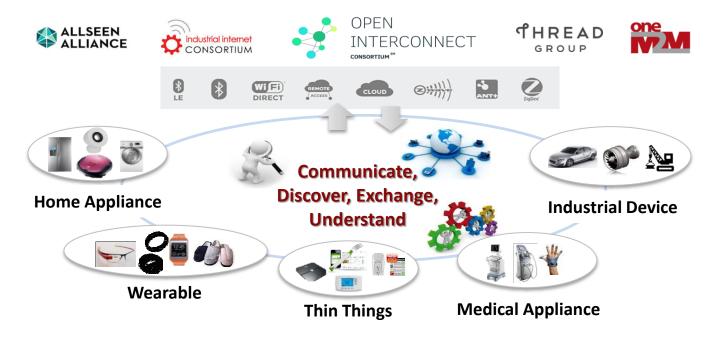
#### Sensing : Sensor and Actuator

 Device technologies covering sensing and actuating from smart devices to small things in a variety of industries



### 2 Connecting : Connectivity and Interoperability

 Connectivity technologies for providing broad interoperability among multiple devices



#### Processing : Big Data Analytics



#### IoT Services based on Big Data



Thermostat

Life Pattern Data : Energy Saving Service



Wearable

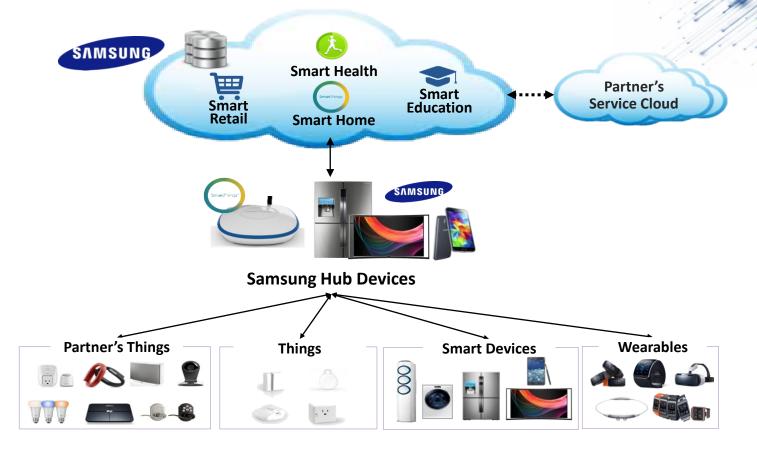
Biometric Data : Healthcare Service Traffic Data : Auto Navigation Service

**Automotive** 

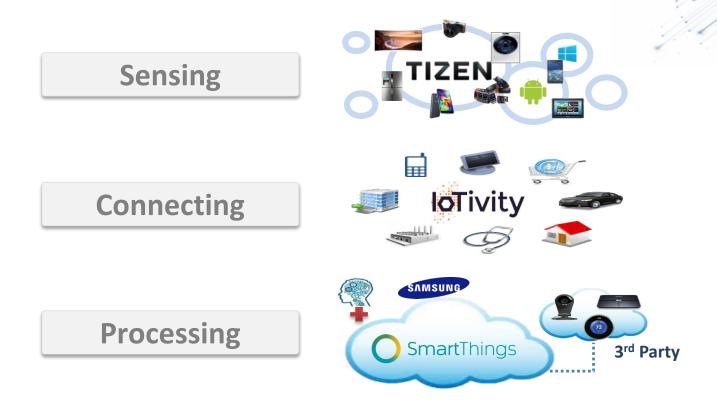
An IoT device senses all its environment and gathers the data, which is analyzed, put into context and acted upon - offering the right solution or service

X Source: B K YOON, CES 2015

#### **Samsung IoT Building Blocks**

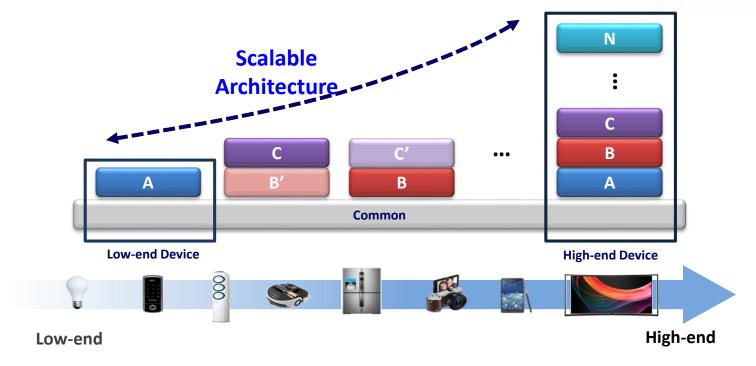


#### Samsung's Presence in IoT



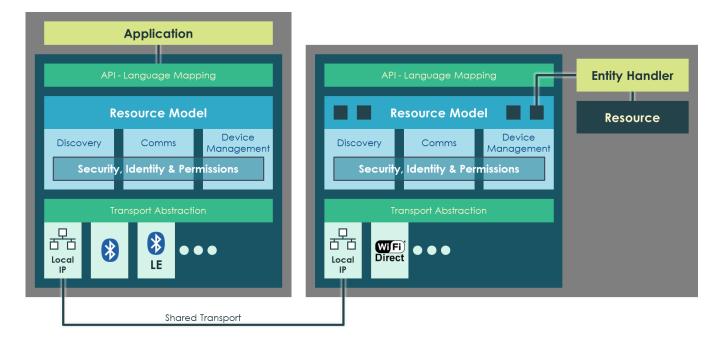


**Open Device S/W Platform** that is applicable to various types of devices <a href="http://www.tizen.org">http://www.tizen.org</a>





- Open Source Project for connecting things, sponsored by Open Interconnect Consortium <u>http://www.iotivity.org</u>
- Delivers necessary connectivity from data of things to applications of other things

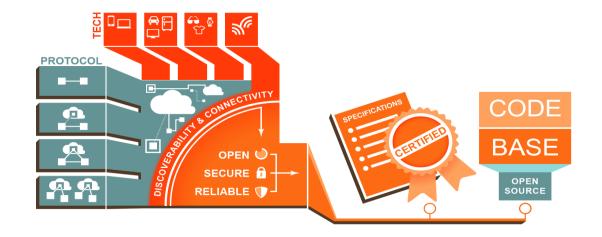




#### OPEN INTERCONNECT : Global Alliance

#### What is Open Interconnect Consortium? http://www.openinterconnect.org

 The Global Industry alliance is being founded by leading technology companies with the goal of defining the connectivity requirements and ensuring interoperability of the billions of devices that will make up the emerging Internet of Things (IoT)



## SmartThings: Platform Builder

#### Open platform on the side of the developer and device maker ecosystem

- Free to sign up, build apps, add any products to the platform
- Marketplace of connected devices, apps and services





"SmartThings Labs and a developer community dedicated to integrating lots of devices into the SmartThings family, puts the SmartThings Hub at the top of the homeautomation pack." – John R. Delaney, PC Mag \*

### Samsung's Vision in IoT

Enable emerging solutions in all key vertical markets via

- Contributions to the comprehensive IoT Software Platform
- Collaborations with major IoT players



### **Adoption of IoT in Samsung Devices**

• 100% of Samsung devices will be IoT enabled in 5 years





