# SeerIoE

# IoT Service Platform based SeerID Anyone | Everything | IoE AI

# **Issues & Mission**

### ■ IoT market on the transformative change by 2020

Gartner says, "the IoT (current) market is still at a very early stage, where many aspects of the market are embryonic or even nonexistent." .... By 2020, "the IoT market as a whole will be on only the cusp of the transformative change induced by IoT"

### IoT & Startup

By 2017, 50% of IoT solutions (typically a product combined with a service) will originate in startups less than 3 years old.



### ■ What is Thing by IoT?

O The existing IoT understands the term "Thing" only as a physical, concrete, accountable thing.

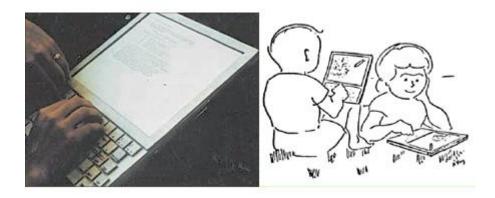
O We suggest that the term "thing" by IoT should include **not only a physical, concrete, accountable thing**, **but also a unphysical, abstract, unaccountable thing**: Idea, behavior, network, voice, image, Artificial thing etc.

O We define these physical and abstract thing as **EVERYTHING** and IoT based on this everything term as **INTERNET OF EVERYTHING**.

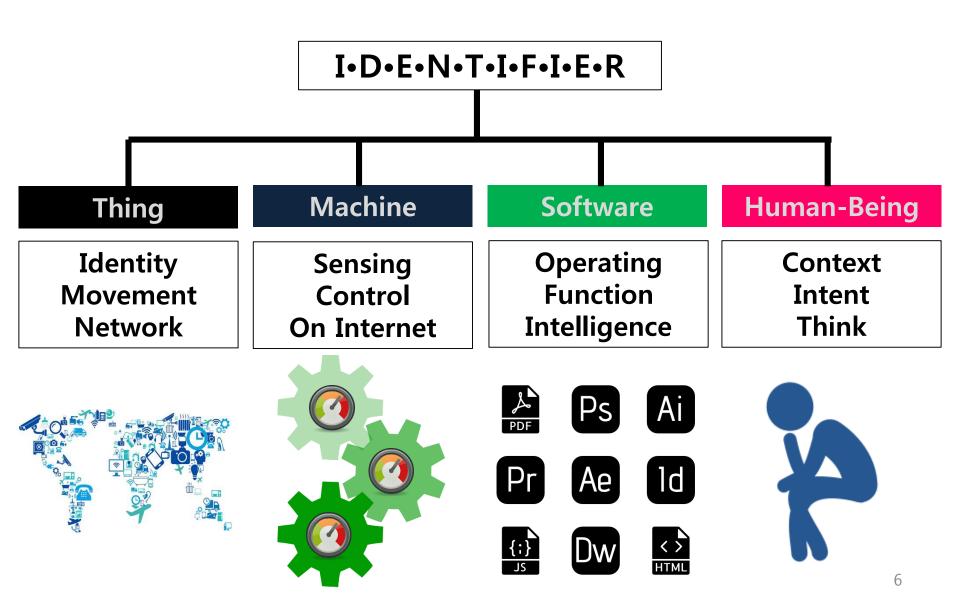


John Citizen may implement the following IoE via allotting SeerID to his own daily trivial small behaviors, Events, ideas, networks etc. everywhere, immediately without costs, special knowledge, and special tools.

# **D** IOE **Y** Do IoT Yourself !



IoT needs a Identifier as a intelligent intermediation among things



### We have a DREAM for implementing the new type of IoT.

**IoT Identifier as Interaction between machine & human being** Identifier, which maps the operating value of the embedded ICT devices. Identifier, which machine and human being can understand together.

# Everything

Not only physical, but also everything.

# IOE = IOT + IOM + IOPR + IOC + IOSW + IOP + IOID + IOBD

# John Citizen IoE

Anyone and everybody may implement the IoE via allotting IoT Identifier to his own daily and small things.

# Implementation of AI Operation

Implementing Artificial Intelligence via the interaction Function among Sub-components of IoE

# Algorithm : 2<sup>128</sup>

We want to sequence the number of cases ca. 2<sup>128</sup> uniquely and conversely to provide the security of a information thing among 2<sup>128</sup> things.

# SeerIoE

# What is IoT & Identifier?

#### We remember again the term Identifier by Wikipedia's definition:

"An **identifier** is a name that identifies (that is, labels the identity of) either a unique object or a unique *class* of objects, where the "object" or class may be an **idea**, **physical** [countable] object (or class thereof), or physical [noncountable] substance (or class thereof)." "An identifier may be a word, number, letter, symbol, or any combination of those."

# Idea Clue

# **O Address of Domain:**

www.iot.IoE.com/properties/intent/artificial intelligent/location

# O Email Address:

1234.abcd\_αβγ@IoE.IoT

### SeerID

#### SeerID ?

SeerID is the Identifier Solution of SeerIoE. IoT Identifier based on the natural language.

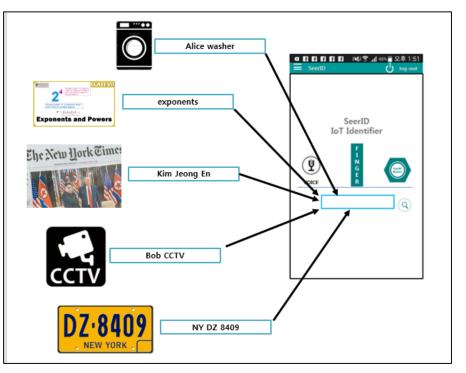
### Structure of SeerID

- 1 3 4 2 1
- # ID @ Seer #
- 1 #: Delimiter for SeerID
- **2** Seer: Owner/Manger of Thing/Virtual Information
- **③** ID: Name of Thing
- (4) @: Delimiter between ID and Seer

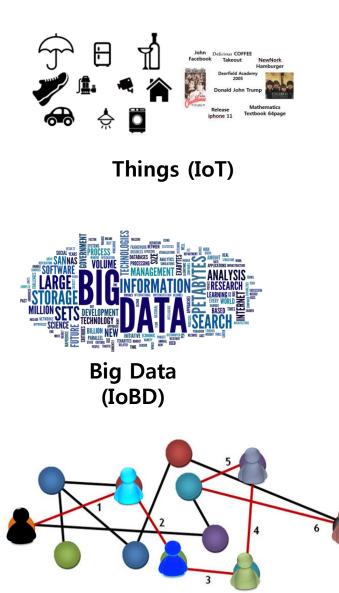
# seerid\_service@sip

hydrogen\_sulfide02.co@k\_smartfarm

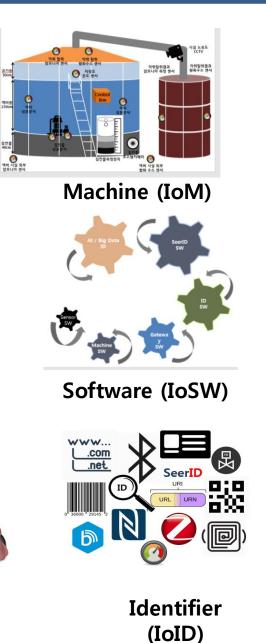
trump.singapore@nytimes



**EVERYTHING:** IOE = IOT + IOM + IOPR + IOC + IOW + IOP + IOID + IOBD

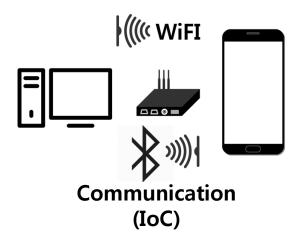


Person (IoP)





Process (IoPR)

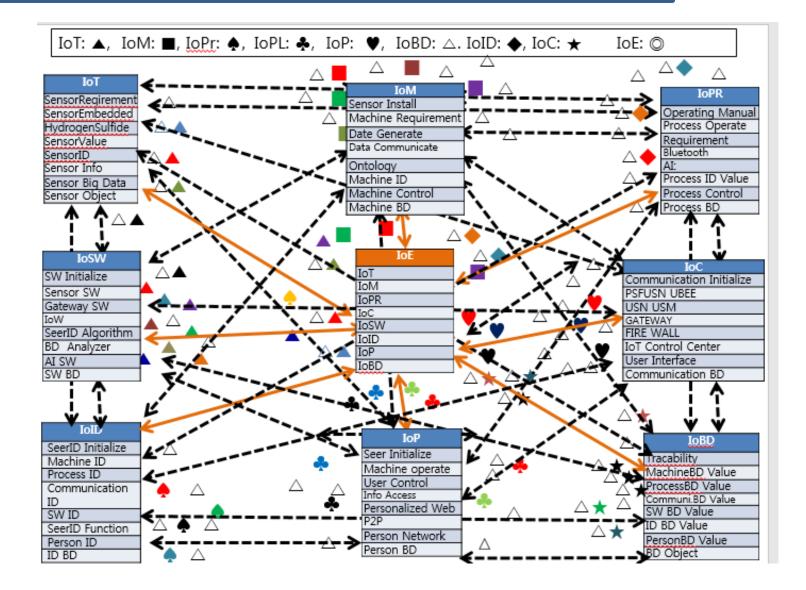


Identifier of Things
Address, name and Identities of Things or their virtual information
Operating Command by Smart Connected Product
For example, operating keyword relating actuators
Networking Grammar by M2M, P2P
For example, Sharing information among SIP, Institute, officer, user etc. communication between hydrogen sulfide & ammonia
Intermediation among the various communication
For example, USN-UBEE, USN USM, Zigbee, Bluetooth, WiFi etc.
Mapping the various IDs via SeerID
For example, Sensing values access via allotting SeerID to sensors
Grammar Function of Software
For example, sensor S/W, Gateway S/W, SeerID algorithm,
Big Data Analyzer, AI Program etc.
Analyzing Function of Big Data
O Big Data analyzer algorithm and Artificial Intelligence algorithm based on SeerIoE function.
O Graeco-Latin Square along network function of 9 IoE Sub-components and their 9 properties



Sensor	Sensor SW	Firmware USN-UBEE	Bluetooth	Gateway	SeerID OS	User Interface
	SENSOR S/W	FIRMWARE	$\ast$			
Sensing Identity, state, motion of thing	Collection & Analysis of Thing-Data	<ul> <li>Coordinating</li> <li>Sensor Data</li> <li>End Device</li> <li>for sensor</li> <li>network</li> </ul>	Mediating Sensor & Gateway	Mediating Sensor Operating & Internet	Allotting ID to each Process	Info Access
Sensor Value ( )	S_SW ( )	USN_value ( )	Bluetooth value ( )	Gateway ()	Sensor ID = ID Value	Information

#### AIoE based Big Data Analyzer & AI Algorithm



# SeerIoE Profile

#### **Evaluation**

# Evaluation & Mentoring

### O Mentor:

Vassil Mladjov Research Director at Gartner Startups, Incubators and Venture Capital

#### O Date

May 06 2014, , Conference Call

# **Evaluation**

On Mon, May 19, 2014 at 6:59 PM, <u>Mladjov,Vassil</u> <<u>Vassil.Mladjov@gartner.com</u>> wrote:

Thank you for your time Mr. Kee,

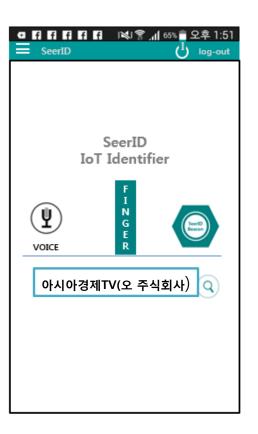
Bernard, I want to introduce you to Mr. Dr. Kee who is helping Mr. Park with an internet of things search start in South Korea. I think it would be great if you two connect and see if there are ways for you to work together.

Bernard, they have a very interesting idea and need some help making a biz out if it, but the idea is great and the potential is very big. Please take a look. Call me if you want to go over it at any time

Best regards, Vassil

Vassil <u>Mladjov</u> Research Director at Gartner Startups, Incubators and Venture Capital

### Profile



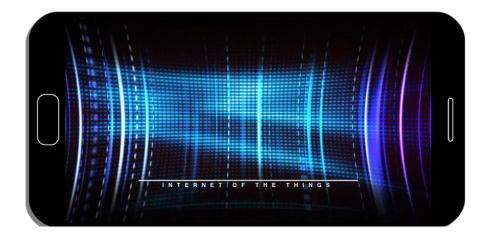
- Jan. 2014: Releasing Alpha version
- April 2014: Trial Service

Yeouido Spring Flower Festival

• July 2014: Trial Service

Remote Operating of 3 D-Printing

• Feb. 2015: Trial Service Distribution Industry based on IoT Newspaper based on IoT



#### **Trial Service**



#### **Yeouido Spring Flower Fest**

O April 2015

- O Catalog, Booth, Banner, Flower, Business card, Products, etc.
- O Service Access: 4,600

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		<b>XA I X</b>	담당부서		문화체육과			
	사진있음 🔳	쪽수 : 쪽	과	장	송주용	2670-4205		
보도문의 :	홍보전산과 언론	<u> - 홍보팀 이혜경</u>	팀	장	최광물	2670-3141		
포포판의 ·	2670-7550 (0	담	당	최소정	2670-3128			
영등포구, 전국 최초 스마트 죽제 선 보인다 - 영등포여의도봄꽃축제, 첨단 사물인터넷 기술 적용 올해 처음 시도								
- 영등포여의도봄꽃축제, 첨단 <b>사물인터넷</b> 기술 적용 올해 처음 시도								
- 축제장 곳곳 설치된 구조물의 바람개비(�)에 스마트폰 접촉시키면								
다양한 스마트 축제체험 가능, 이용방법 안내 도우미 배치 체험 지원								
- 사물인터넷 분야 세계적인 기술 보유 기업인 오(주)와 협약·진행								

# **3-D Printing based on IoT**

SAMSUNG

파일 선택 선택된 파일 없음

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O July 2015, COEX Exhibition O Remote Operation of 3 D Printing based on IoT & sharing economy



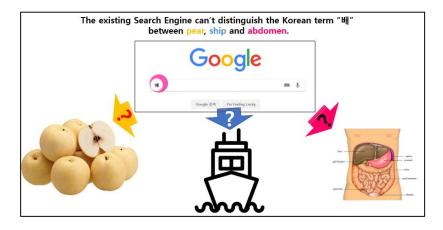
#### **IoT based Mart & Coffee** O Feb. 2016 O Order, Payment & Delivery O Coffee, Restaurant & Mart





# **SeerIoE Version 2.0**

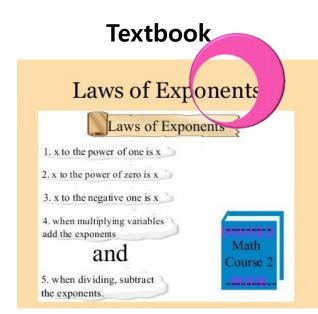
#### IoT based Ontological Retrieval

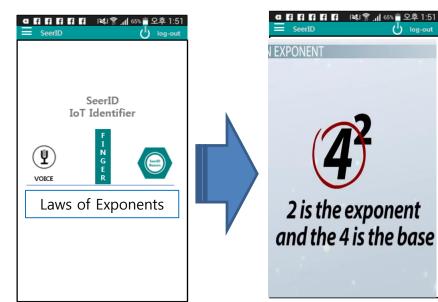




#### IoT based Textbook & Newspaper

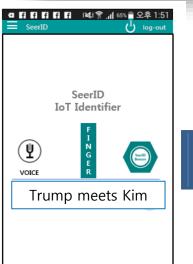
(<sup>I</sup>) log-out



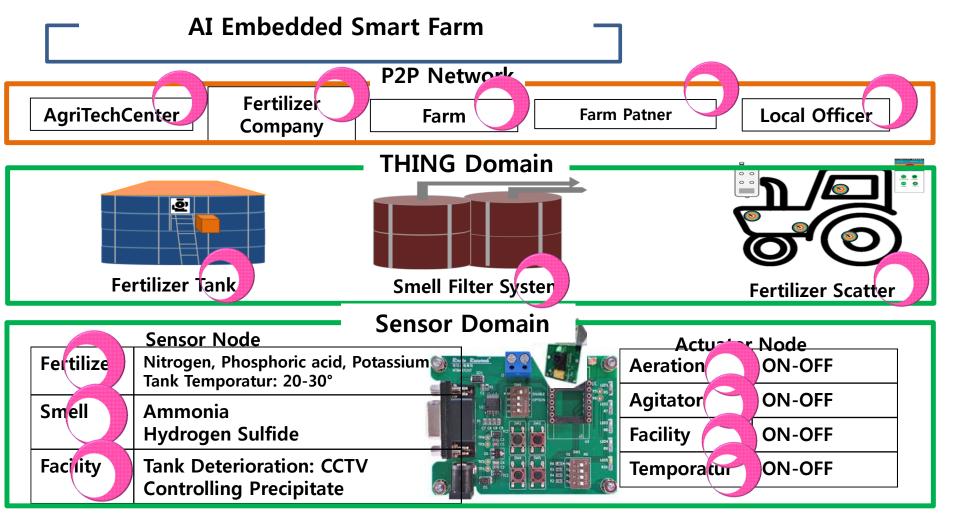


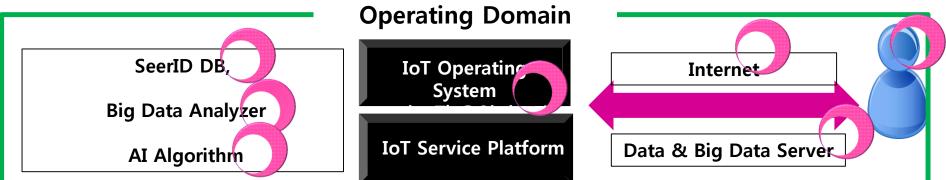
#### Newspaper











# Profile

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