

**BoF Session**



# **Internet of Things (IoT): What for the Government?**



**16 October 2017**

# Agenda

## Internet of Things (IoT):

What for the Government?

- Introduction
- Why Bother?
- IoT Components
- IoT for Business Process
- What for the Government?



# Why Bother?

## The Internet Of Things Will Need Millions Of Developers By 2020

Posted on June 27, 2014



MATT ASAY  
Contributing Writer

1.2K  
Shares



It's standard to size a market by the number of widgets sold, but in the Internet of Things, which numbers sensors and devices in the billions, widget counts don't really matter. In part this is because the **real money in IoT** is not in the "things," but rather in the Internet-enabled services that stitch them together.

## The Internet Of Things: The Real Money Is The Internet, Not The Things

Posted on March 3, 2014



MATT ASAY  
Contributing Writer

772  
Shares



The Internet of Things is real and growing, but the money will come neither from Internet nor the Things. Instead, the big money will derive from business services that pull data from those IoT networks.

# Why Bother?

- [According to Gartner](#), the Internet of Things will balloon to 26 billion devices by 2020.
- If we add in smartphones and tablets, that number grows to more than 33 billion devices.
- There's big money in these little devices: Gartner projects IoT will result in \$1.9 trillion in global economic "value-add"—the combined benefits that businesses derive through the sale and usage of IoT technology.

<http://www.gartner.com/newsroom/id/2636073>

# Why Bother?

## NATIONAL IoT STRATEGIC ROADMAP



[http://mimos.my/iot/National\\_IoT\\_Strategic\\_Roadmap\\_Summary.pdf](http://mimos.my/iot/National_IoT_Strategic_Roadmap_Summary.pdf)

[http://mimos.my/iot/National\\_IoT\\_Strategic\\_Roadmap\\_Book.pdf](http://mimos.my/iot/National_IoT_Strategic_Roadmap_Book.pdf)

# Why Bother?

## B. MALAYSIA MARKET POTENTIAL

The initial IoT economic potential for Malaysia will be RM9.5 billion GNI creation by 2020 and it is expected to experience exponential growth beyond 2020 and reach RM42.5 billion (refer to Figure 4). Technology opportunities can be created by IoT in Malaysia with forecast technology opportunities for:

- Application and services amounting to RM34 billion in 2025 compared to RM7.5 billion for 2020
- Device producers at RM1.0 billion and RM4.3 billion for years 2020 and 2025 respectively



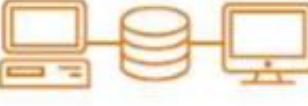

		Global Scenario		Malaysia Scenario	
		2020		2020	2025
	Layer 5: Analytics	RM890 Billion	% of IoT		
	Layer 4: Apps & Services		80%	RM7.5B	RM34.0B
	Layer 3: Computing & Storage	RM61 Billion	5%	RM0.5B	RM2.1B
	Layer 2: Communications & Networking	RM58 Billion	5%	RM0.5B	RM2.1B
	Layer 1: Things: Hardware, Power & Protocols	RM105 Billion	10%	RM1.0B	RM4.3B

Figure 4: IoT technology opportunities

Source: Gartner [2014]

# IoT Components



Things  
(Sensors & Actuators)



Connectivity



Data



Analytics

Source: <https://www.slideshare.net/mazlan1/internet-of-things-iot-journey>



# IoT for Business Process



Source: <http://www.nanalyze.com/2016/10/c3-iot-full-stack-iot-platform/>

# What for the Government?

- Smart Buildings
- Smart Cities
- Country Border Control
- Smart Classroom
- Energy Management
- Asset Management
- Natural Disaster Early Warning
- Vehicle Tracking & Monitoring



# What for the Government?

---

- **Traffic Control**
- **Parking Control**
- **Landscape Management & Automation**
- **Healthcare**
- **Fraud Detection**
- **Prison Management**
- **Attendance System**
- **... etc**

