# The Rise of the Machines

by Peter DeMartini

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Thank you!

# What is the Internet of Things?

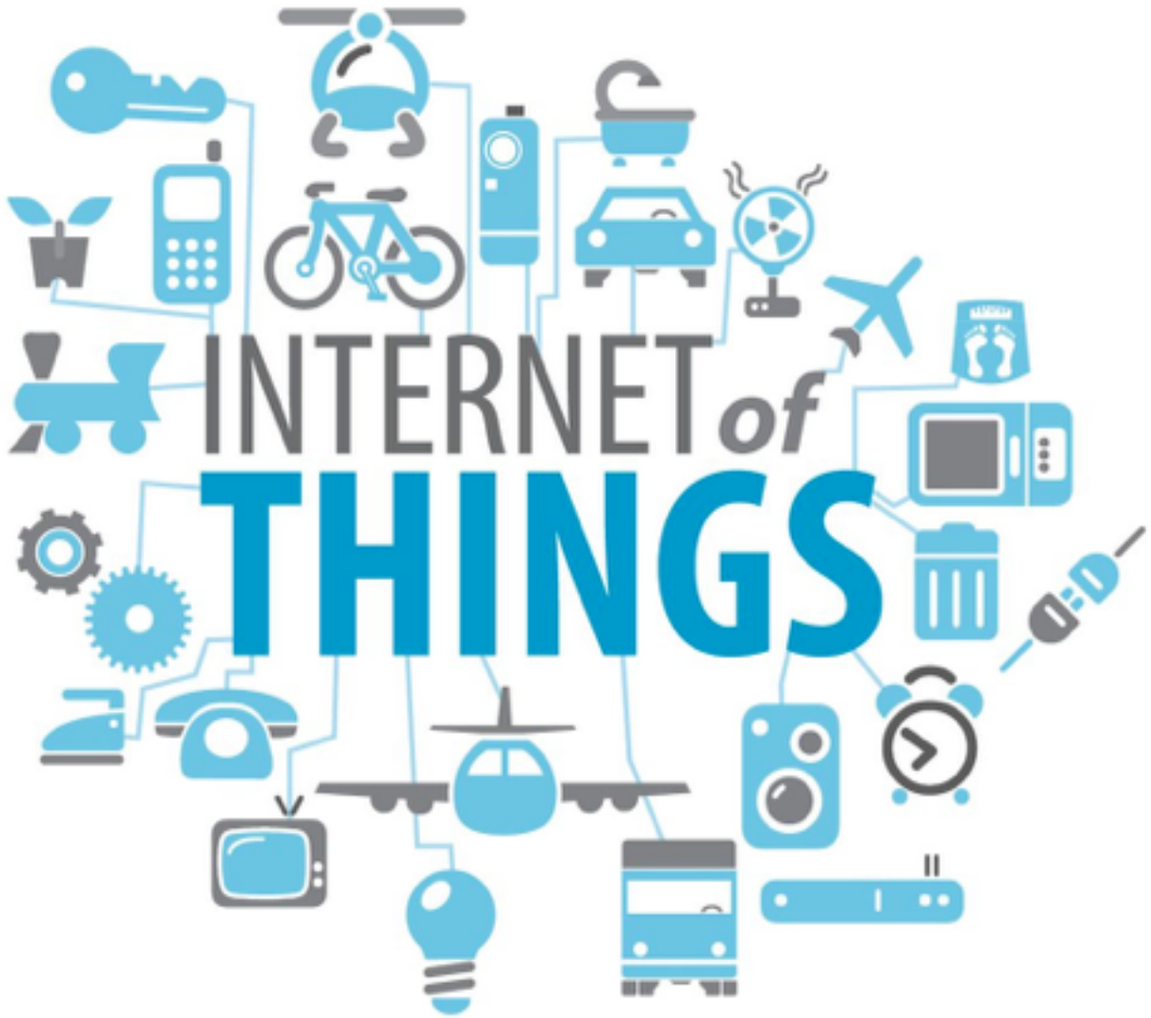
nest
1 HOUR
70

# Smart Devices, Connected to Everything

“The Internet of Things has the potential to change the world, just as the internet did. Maybe even more so.”

~ Kevin Ashton

- Device Intelligence
- Automation
- Growth



**Today:** 1.9B connected devices.

50B estimated by **2020**.

By **2020,** the IoT market value is predicted to be between **$3T** and **$14T**

# Internet of Things:
## What If, We Deliver a 1% Improvement?

| Industry | Segment | Type of Savings | Estimated Value Over 15 Years (Billion nominal USD) |
|---|---|---|---|
| **Aviation** | Commercial | 1% fuel savings | $30B |
| **Power** | Gas-fired Generation | 1% fuel savings | $66B |
| **Healthcare** | System-wide | 1% Reduction in System Inefficiency | $63B |
| **Rail** | Freight | 1% Reduction in System Inefficiency | $27B |
| **Oil & Gas** | Exploration & Development | 1% Reduction in Capital Expenditures | $90B |
| **Total** | | | **$276B** |

Source: "Industrial Internet: Pushing the Boundaries of Minds and Machines," GE, November 26, 2012

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# IoT & Business Automation

“Everything that can be automated, will be automated.”

~ Robert Cannon

# Automation

Let machines do the hard work

# Machine Learning

## Anomaly detection

# Machine Learning

## Event prediction

# Machine Learning

## Context aware systems

# Human Interaction

Humans have the power of personality and creativity, automate the rest.

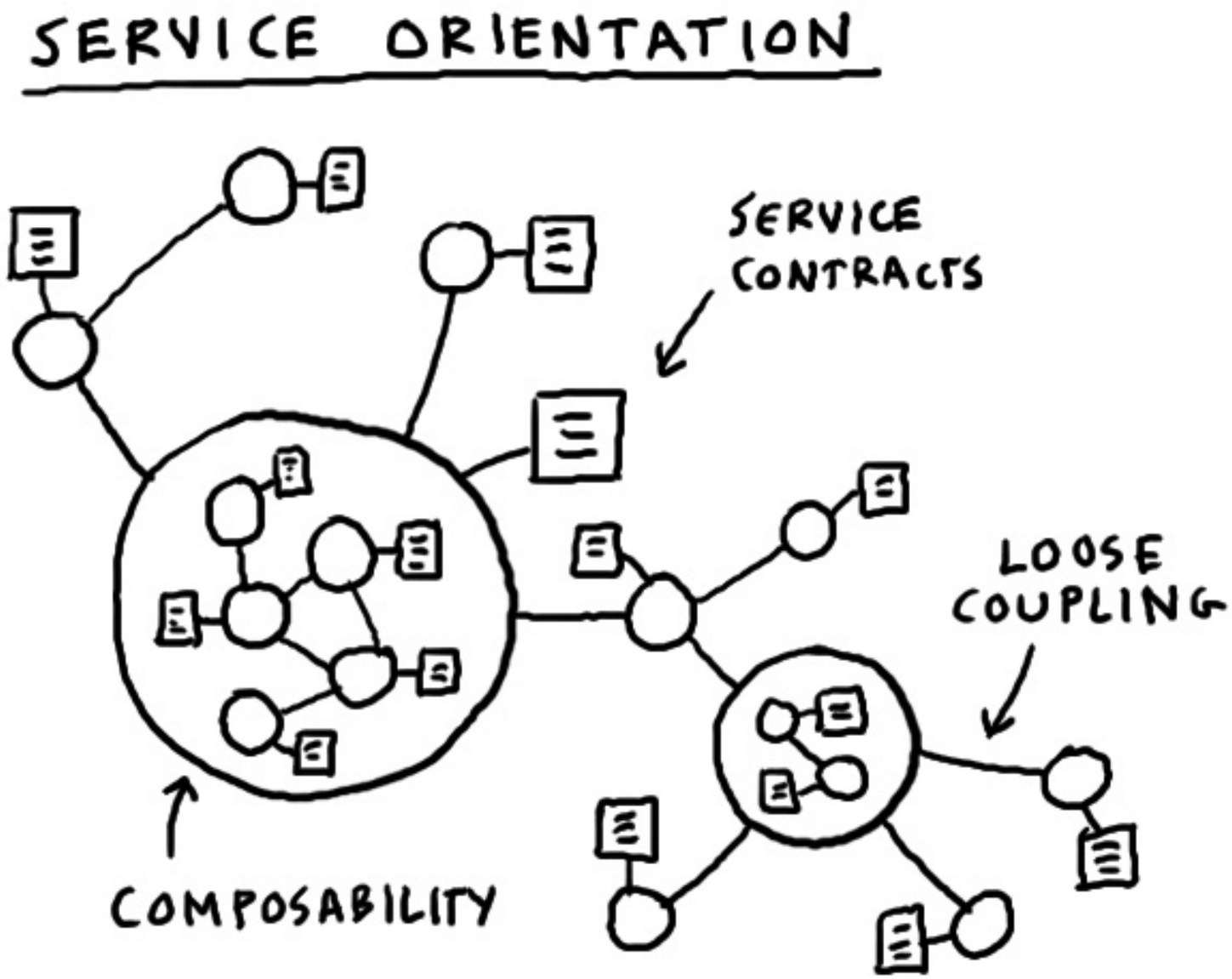
# Octoblu

## The Internet of Things operating system

Talking to devices is hard, we make it easy

# How to IoT

# Be Lazy




# Microservices

Complex applications written in small independent programs

Machines cost far less than humans

# Make the world a better place

# Roy van de Water

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Slide Deck available at
https://github.com/royvandewater/rise-of-the-machines-talk/