

## THE INTERNET OF THINGS

HCOM-102-23 Brad Williams, 2019

### 01

#### What is The IoT?

Our next breakthrough

### Background

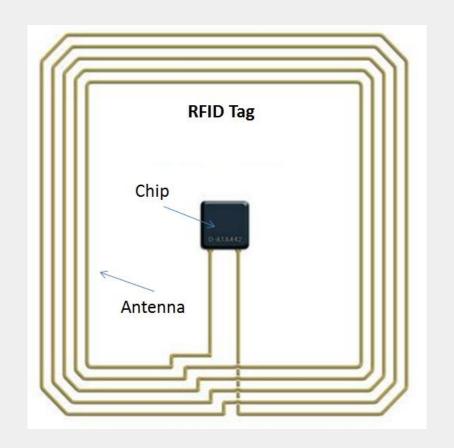
"The Internet of Things is a system of interrelated computing devices provided with identifiers and the ability to transfer data over a network without human to human or human to computer interaction."

 Kevin Ashton (1999) proposed to P&G a new technology called RFID.

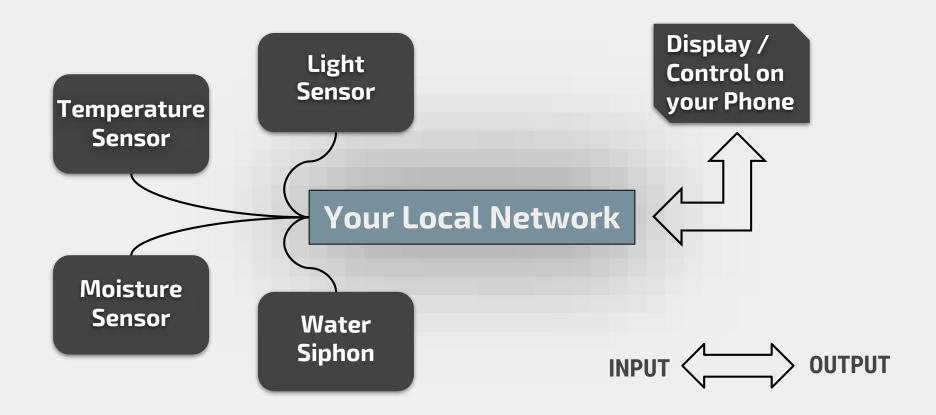
- Because of the nature of RFID, Ashton referred to it's operation as The Internet of Things.
- Despite its coinage in 1999, it did not gain attention until early 2010.

Wikipedia, 2019

Why is RFID an Internet of Things technology?

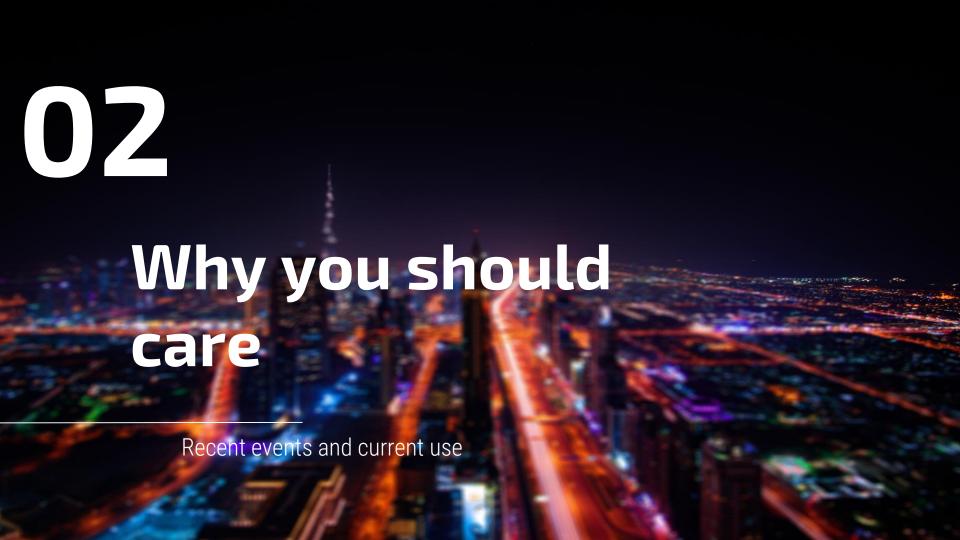


#### **SMART GARDEN EXAMPLE**





Automatic
Garden Watering
and Data
Logging with
Arduino
(MakeZine.com)



# Huge companies right now are working with loT

"Google was one of the first companies to realize data is most valuable commodity on earth...The next battle in connected devices will be cars and homes, this acquisition is not about following the latest tech fad, but gaining yet more access to customers' data."

- Intel, Microsoft, Google, Cisco, Apple, Oracle, etc...
- Google recently acquired the smart thermostat company Nest for 3.2 Billion dollars.

What is Nest and why has Google bought it? (The Telegraph.uk)





EcoStruxure & Internet of Things (Schneider Electric)

- Schneider Electric's *EcoStruxure* maximizes productivity and efficiency in the industry and homes.
- By connecting devices energy use is vastly monitored.



"Industrial companies are improving the speed and accuracy of decision making and corrective actions"

- By connecting devices, no switch is left on and energy use is vastly monitored.
- Sensor beacons equipped by workers and vehicles in a large warehouse monitor the location, an alert is then sent to an app if a vehicle deviates from a specified route or if a worker enters a dangerous area.

IIoT And Field Apps: The Future Of The Industrial Connected Worker. (Forbes)

#### Conclusion

The next time you use technology, make sure you question its potential.