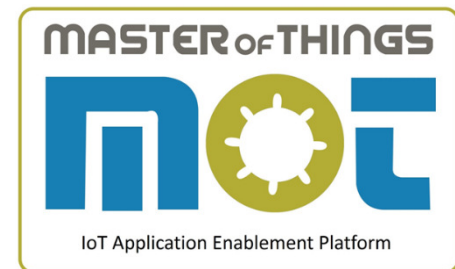


Internet of Things

its impact on development



Bassem Boshra
CEO and Founder



About SpimeSenseLabs

Who are we?



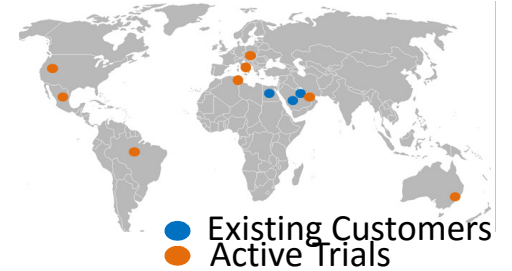
SpimeSenseLabs (S.A.E) is an Egyptian Joint Stock company formulated by expertise in Telecom & IT industry in Sept 2013.

Our expertise have more than 20 years of leading telecom & IT industry, certified by global telecom vendors and have delivered innovative solutions to global telecom operators and banking institutions in the Middle East.

Our vision

Internet will be containing billions of connected devices exchanging data to serve the needs of human being turning the internet to be **IoT (Internet of Things) with great impact on our life and business** where we innovate platforms and applications to facilitate various industry verticals.

August 2016



April 2016



March 2016



Oct 2015



Nov 2014





Internet as we know it today

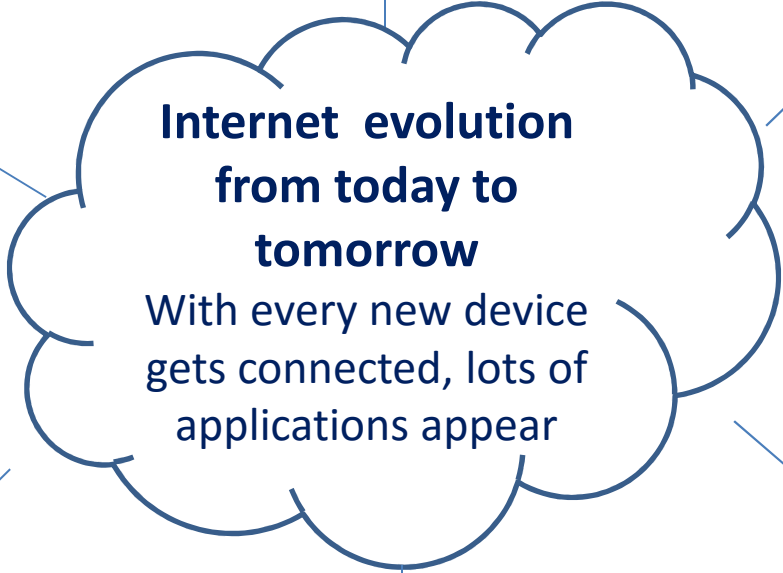
Viber

Gmail

WhatsApp

Facebook

YouTube



Android Market



2020 Estimates & forecasts

- Ericsson estimates 50 billion connected devices.
- Cisco estimates 50+ billion connected devices.

28
Billion

- Harbor research estimates 8 billion devices (Excluding Mobiles, Tablets & Laptops)

- Harbor research estimates business value of 1 Trillion \$

1.25\$
End of 2018

- **Managed services 571 billion \$**

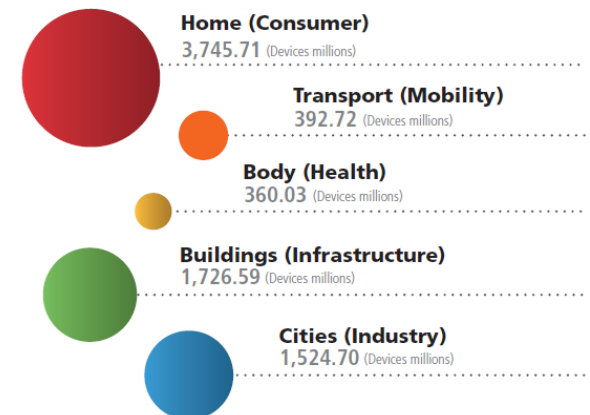
- Systems development tools, Data & analytics
- Value Added Application Services

- **Enablement HW 53 billion \$**

- Connectivity modules (wireless & wireline)

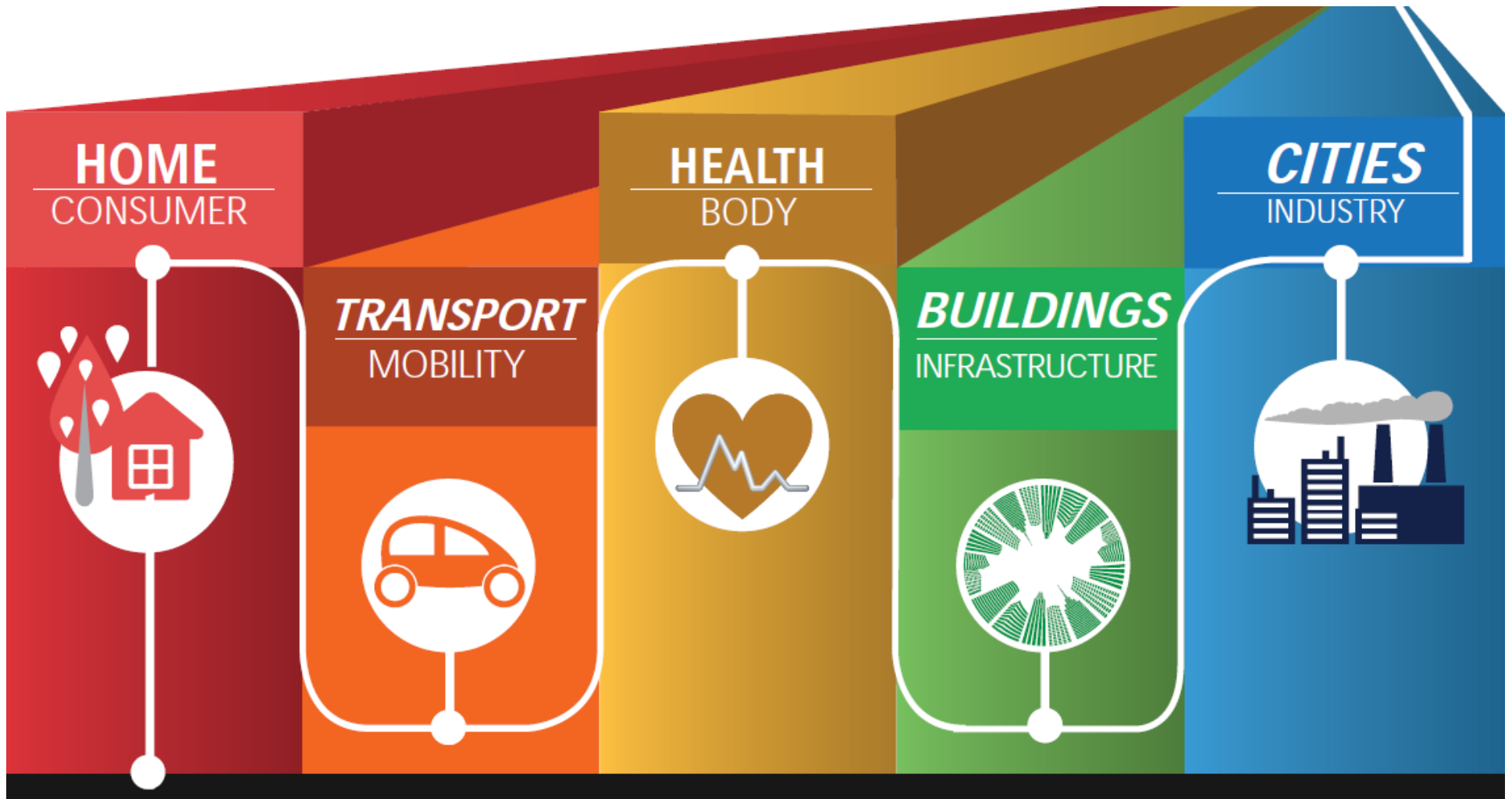
- **Network Services 387 billion \$**

- Wireless & Wireline operators business



- Pike research estimates 108 billion \$ in Smart Cities technologies.

IoT Applications & impact on job market



50 B = (50 B/1000) = 250 Million

Devices Applications SW Jobs (5 jobs per app)



Information
Technology Institute

Capacity building for IoT applications 9 month program

IoT Value chain.

1

2

3

4

5

6

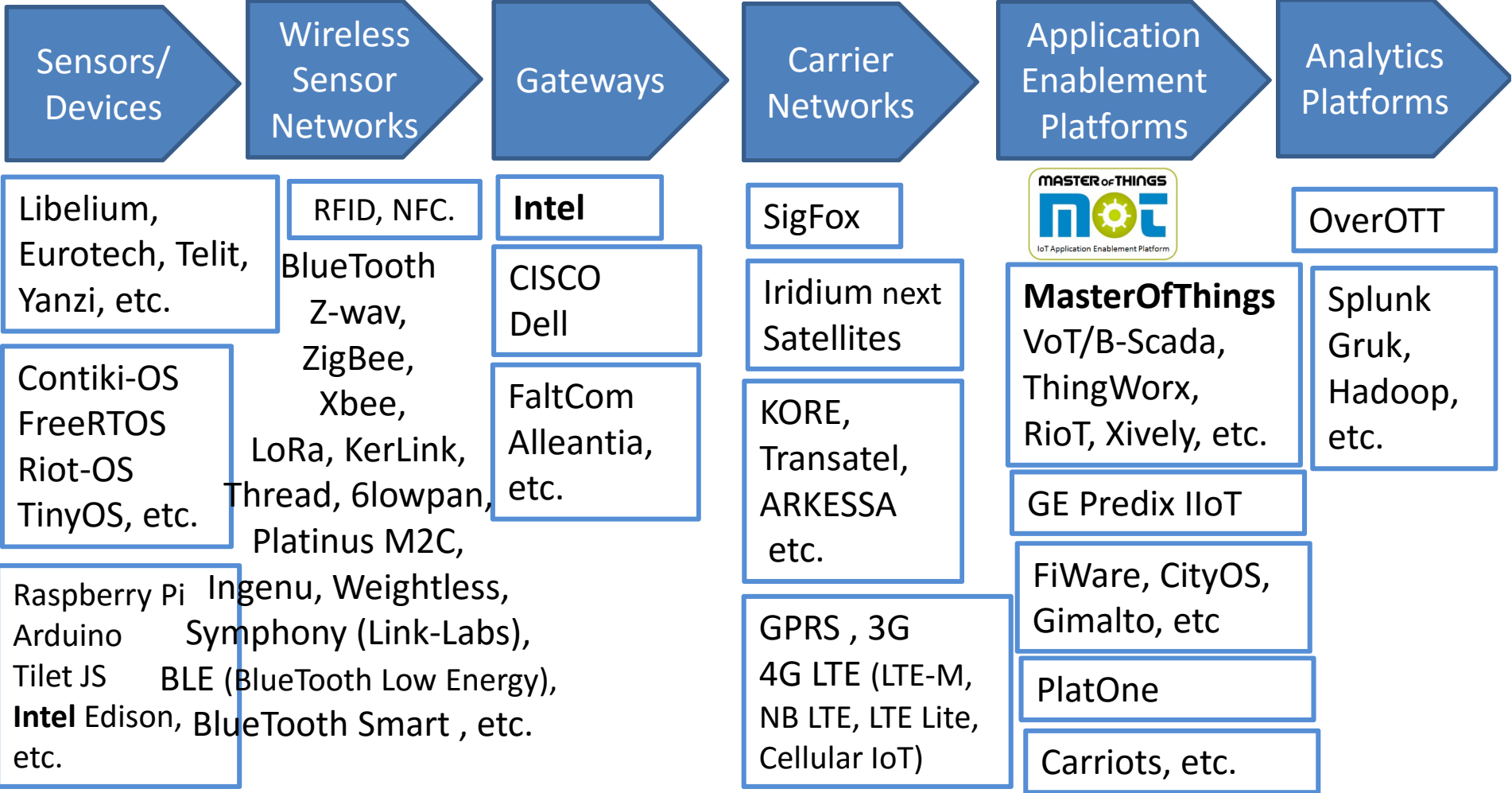
8

End-End System Integrators

7

Device and Gateway remote management

Wind River , Ampelia



Competence mapping in current tracks.

1

2

3

4

5

6

8

End-End System Integrators

7

Device and Gateway remote management

Sensors/
Devices

Wireless
Sensor
Networks

Gateways

Carrier
Networks

Application
Enablement
Platforms

Analytics
Platforms

Libelium,
Eurotech, Telit,
Yanzi, etc.

RFID, NFC.

Intel

SigFox



OverOTT

BlueTooth
Z-wav,
ZigBee,
Xbee,

CISCO OS
Dell

Iridium next
Satellites

MasterOfThings
VoT/B-Scada.
ThingWorx, OS
RIoT, Xively, etc.

ERP
&
OS Big
Data

Embedded

LoRa, KerLink,
nread, glowpan,
Platinus M2C,
genu, Weightless,
phony (Link-Labs),
BlueTooth Low Energy),
eTooth Smart , etc.

FaltCom
Alleantia,
etc.

KORE,
Transatel,
ARKESSA
etc.

GE Predix IIoT

FiWare, CityOS,
Gimalto, etc Java

Telecom

PlatOne

Carriots, etc.

Graduates job profile

The graduates of this curriculum will have 3 job profiles.

IoT Application Developer.

That is a programmer who will be able to develop and create IoT application.

IoT system Integration Engineer.

The system integration engineer will be the one doing the installation, configuration and daily system management operations

IoT end-to-end Architect

The overall solution architect /designer who puts the architecture and design for the end-to-end IoT solution taking care of the interfaces between different systems and system use cases.



Smart Irrigation Water Management System

summary information on system features and functions



SIWMS & its Objectives

SIWMS is an IoT cloud controlled irrigation management system that automates agricultural irrigation processes.

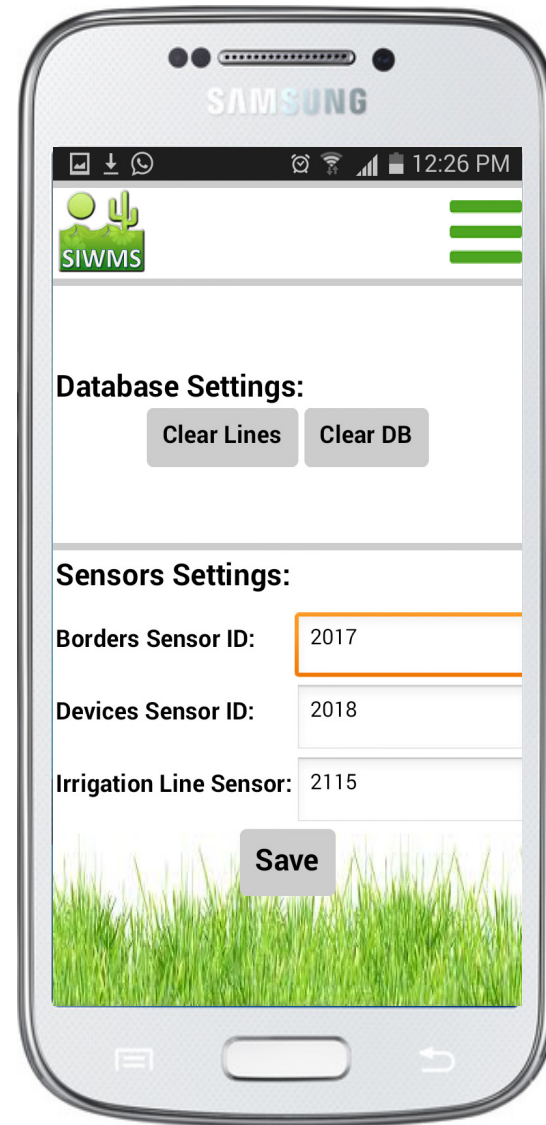
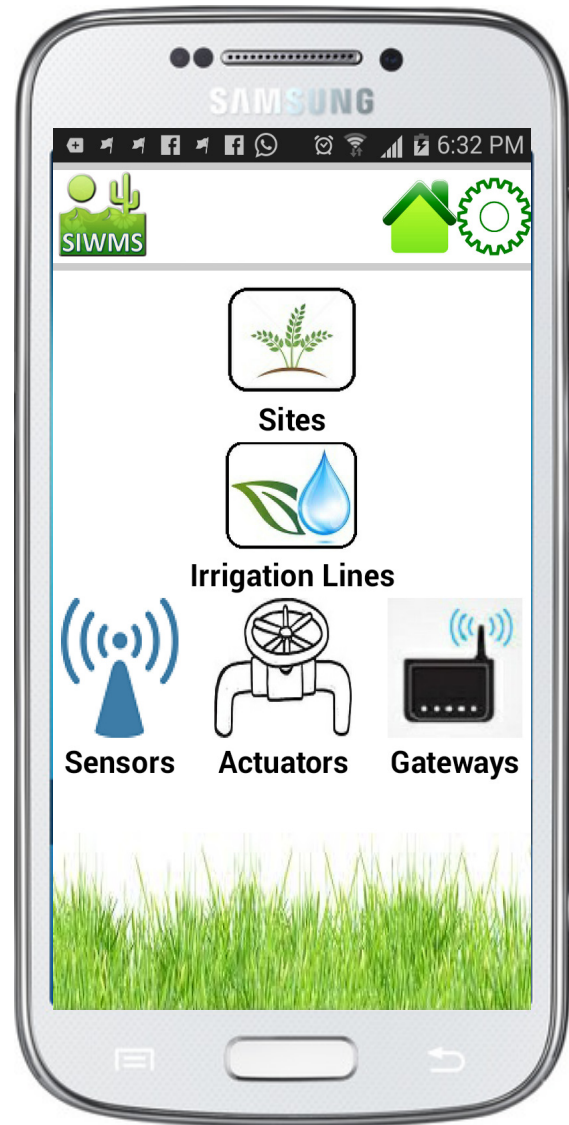


SIWMS uses IoT to optimize the amount of water used in irrigation systems to improve farm ROI (better crop quality, quantity and farm management).



Better utilization of farm resources (Water, Fertilizers, Work force, etc.)

Use SIWMS tools to define farm/garden sites, borders, locations and paths of irrigation pipe lines, sprinklers, drippers as well as locations of



Use SIWMS tools to define farm/garden sites, borders, locations and paths of irrigation pipe lines, sprinklers, drippers as well as locations of



Resulting in a well defined farm with GPS locations for Sensors, Actuators, Irrigation lines, farm borders, etc.

Profile

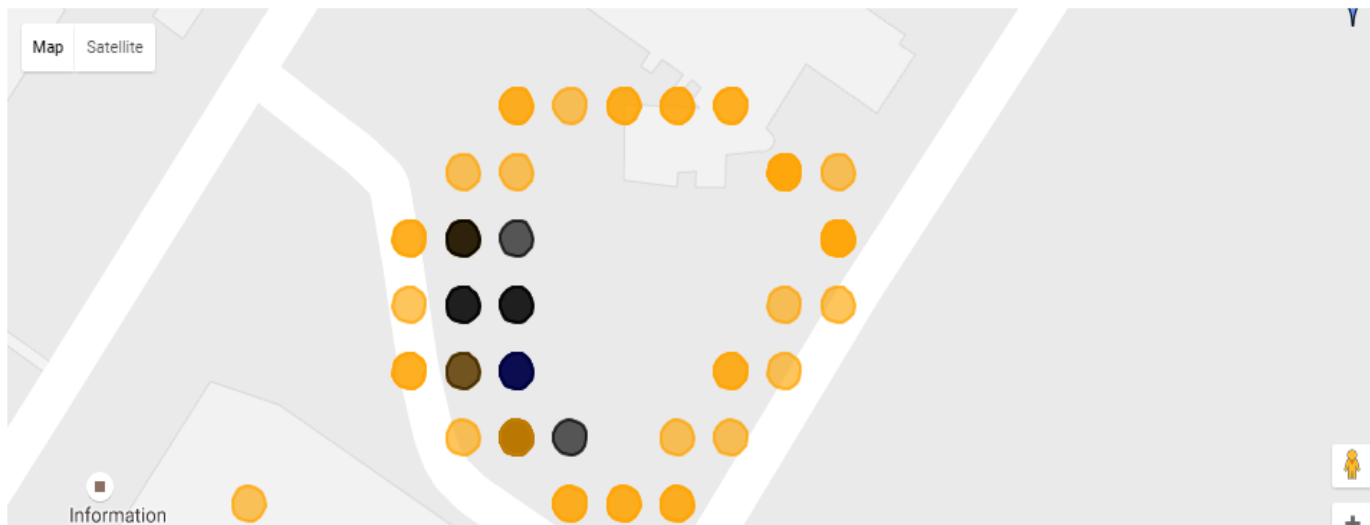
SIWMS

Dashboard Task Management Alarm Management Calendar Asset Management Sites

Sensors Actuators Site Border Irrigation Lines Gateway

Draw Selected

Show markers



SIWMS cloud showing data from Sensors and User starts using SIWMS for monitoring Soil moisture levels on a farm map.



Logged in username



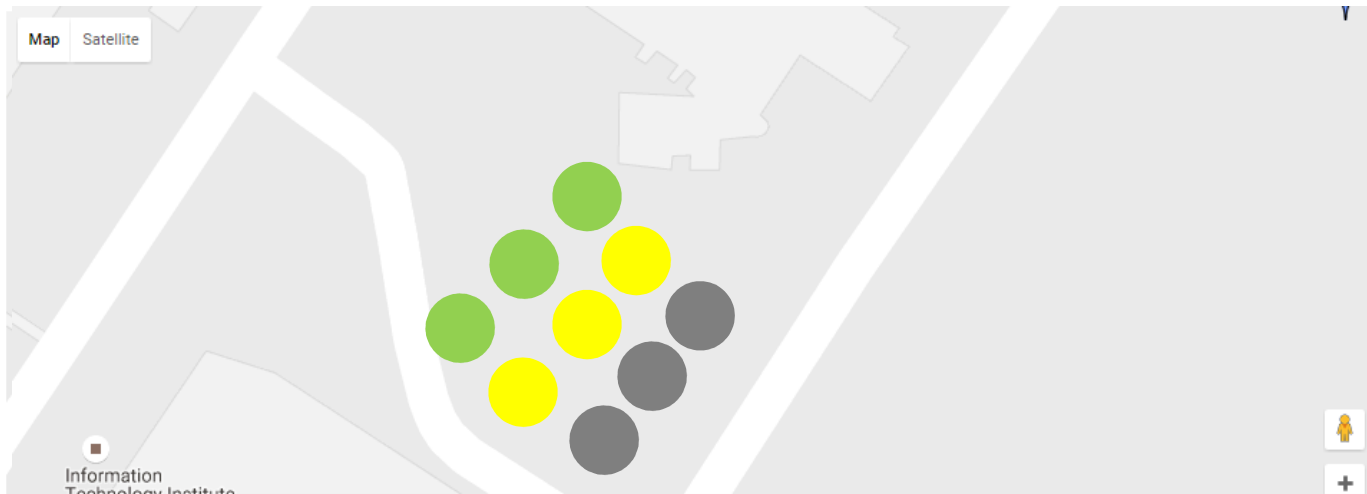
[Edit Profile](#)




[Dashboard](#) [Task Management](#) [Alarm Management](#) [Calendar](#) [Asset Management](#) [Sites](#)

Sensors **Actuators** **Site Border** **Irrigation Lines** **Gateway**

Draw Selected

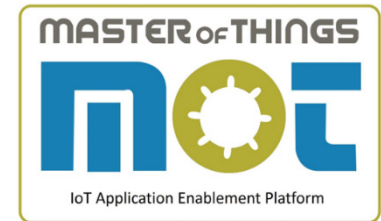
Show markers



-  Enough Moisture/Water level
-  Minimal Moisture/Water level
-  Critical Moisture/Water level

Where to get more information ?

- MasterOfThings Facebook page
 - <https://www.facebook.com/masterofthings/>
- In Egypt, ITI 9 month IoT track
 - 9 month hands on training program for post graduates.

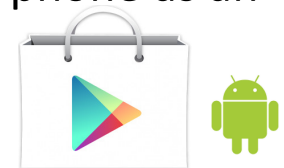


- SpimeSenseLabs IoT training and consultancy sessions
in Egypt we do it in cooperation with ITI, in other countries we do it with other organizations



3 levels of training

- 1-2 days **for executives** with focused consultancy on your business
 - 3 days **for middle management** with focus on Applications, IoT integration to business processes and how to choose the right IoT AEP for you.
 - 5 days hands on training **for software developers.**
- Mot IoT kit for android phones available on play store.
 - To practice IoT by yourself with your mobile phone. Let you use your phone as an easy to use prototyping board with no coding.

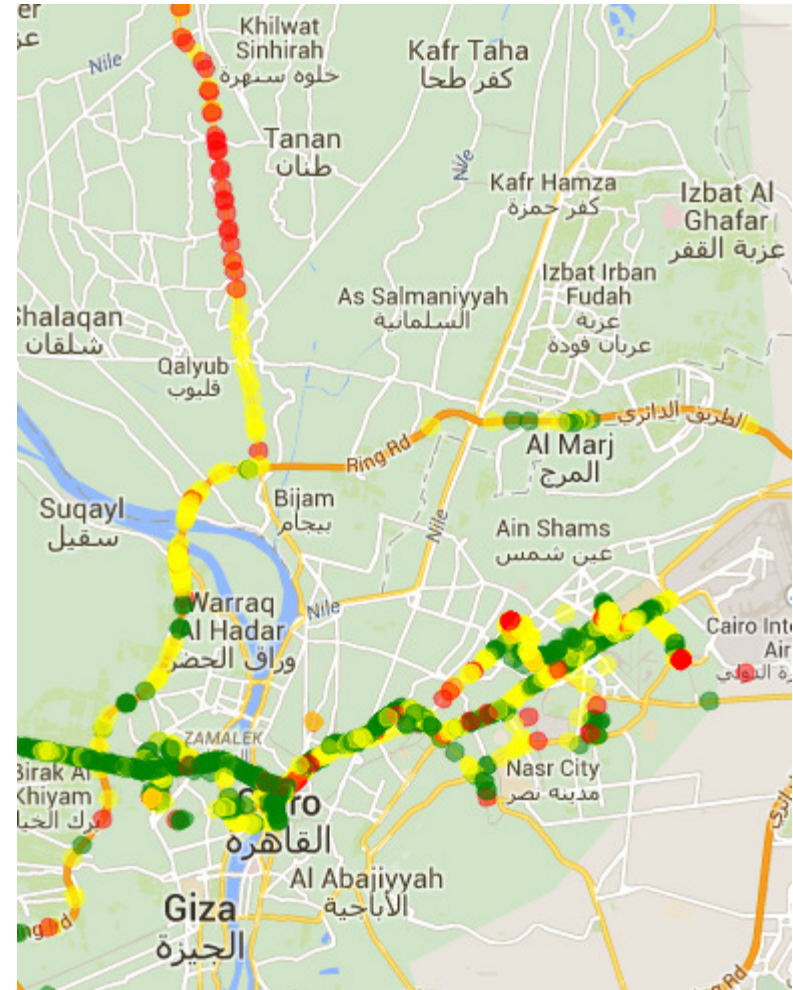
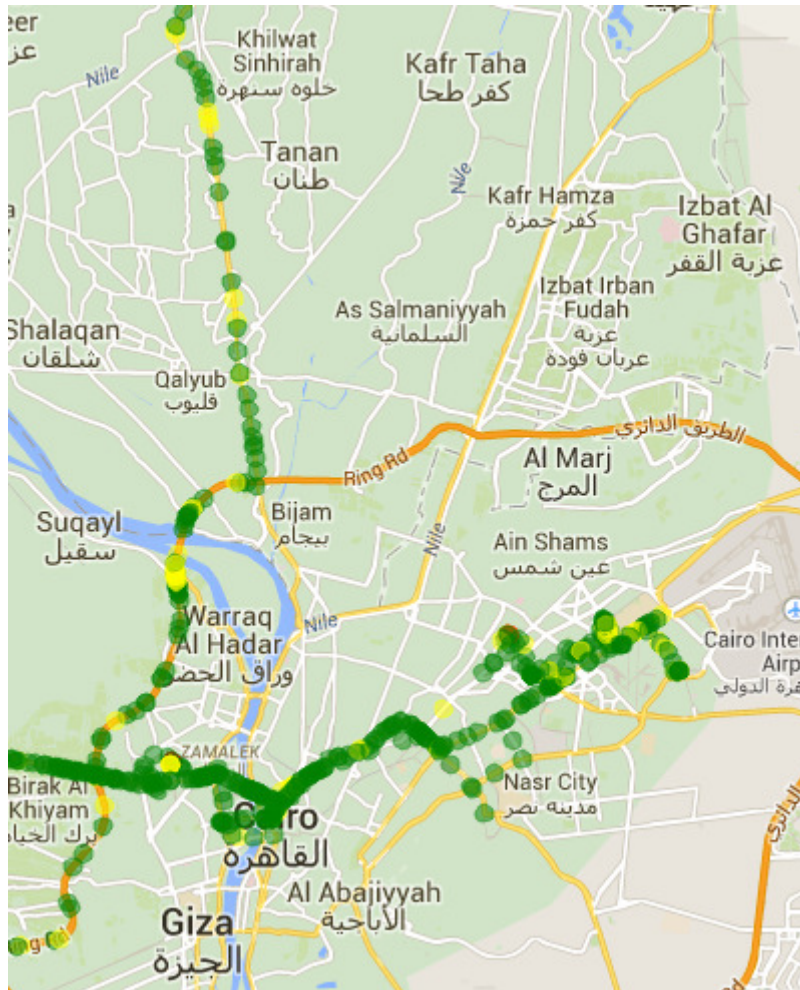


Thank You



MyOperatorCoverage

Mobinil/Orange Egypt versus Vodafone Egypt (actual data)



Orange

- Good Network coverage
- Accepted Network coverage
- Bad Network coverage

Vodafone