

# The Sensory School & IOT

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If you think that the internet has changed your life, think again. IoT is about to change it all over again!





**Knowledge** is  
having the right  
answer.  
**Intelligence** is  
asking the right  
question.

# So what is the Internet of Things ?

## McKinsey & Company

**Sensors** and **actuators** embedded in physical objects — from roadways to pacemakers — are linked through **wired and wireless** networks.

## accenture

Things **connected** to the internet, anytime, anywhere. Integrating **sensors** and devices into everyday objects that are connected to the internet over **fixed and wireless** networks.

## Gartner

The network of physical objects accessed through the Internet that contain embedded technology to **sense** or interact with their internal states or the external environment.



Physical objects integrated into the information network and active participants in business processes.



Wireless **connectivity** to things.



**Connection** of everyday objects and devices to electronic networks.

# Innovation and Digital Transformation with IoT

Outcomes Driven Design



# What are the outcomes Schools want to see ?



Improve  
Operations

Optimize  
Assets

Enhance  
Services

Generate  
Revenue

Increase  
Engagement

Improve  
Well-Being

Provide  
Security

Conserve  
Resources

TCO/ROI  
Efficiency/effectiveness  
Digital business  
transformation  
.....



Satisfaction/happiness

Matches expectations

Social acceptability

Willingness to adopt

Usability

Willingness to use

Human value

Personal advancement

← Enterprise goals

Personal goals →

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# What would a Schools IOT package consist of ?



There are smart homes, smart cities and smart hospitals. An important aspect of smart schools is that the IoT not only brings advanced value to the physical structures and environment, but also improves education itself.

What's  
YOUR  
PROBLEM?



# POWERING GENERATION TECH

We're investigating innovative learning environments to help prepare the next generation for the digital world



# Sensory Networks

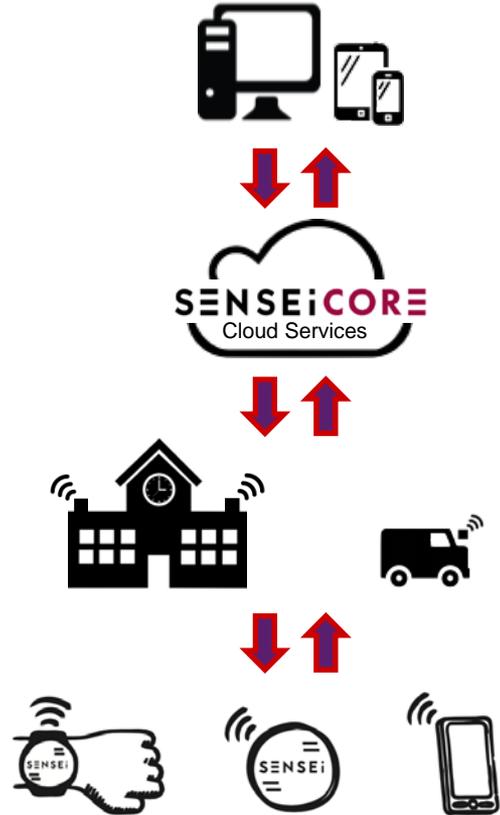
Damon Thomas



# So what is a sensory network?

A technology platform comprising **hardware & cloud services** that:

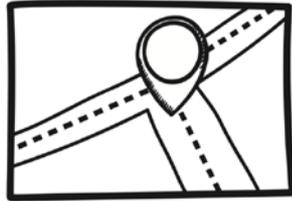
- Provides context aware transparency on the location of your assets, people & things in real-time.
- Monitors the local environment to provide autonomous alerts and triggers for action
- Provides people and assets locational awareness



# What is a sensory network?



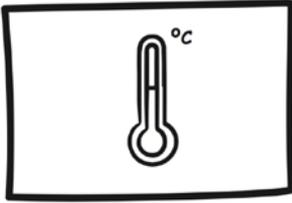
PROXIMITY



LOCATION



ENVIRONMENT



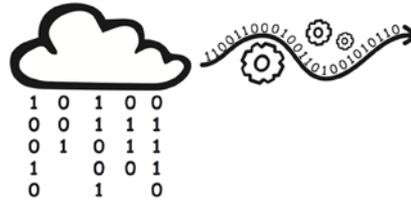
TEMPERATURE



SPEED & MOTION



HEALTH

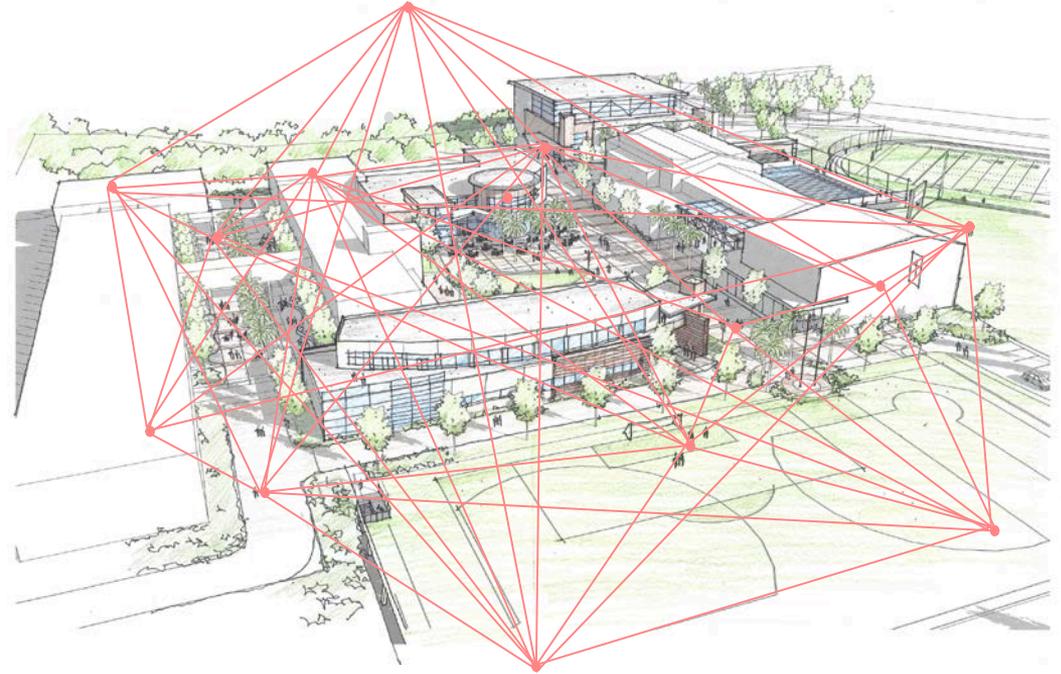


# Schools Sensory Network

We have a great connectivity story but as schools become more autonomous we need to keep them technologically relevant.

How about we offer some new flavours?

- 1) **A Connected School** (As per our service today)
- 2) **A Sensory School** (Flood the school with sensors and a basic data package)
- 3) **An Iotic School** (Flood the school with sensors and then give them the ability to share data and create mashable apps)



# Features of an IOTIC school?



Tracking School Assets



Automated Attendance Records



Monitoring Young & Vulnerable Children



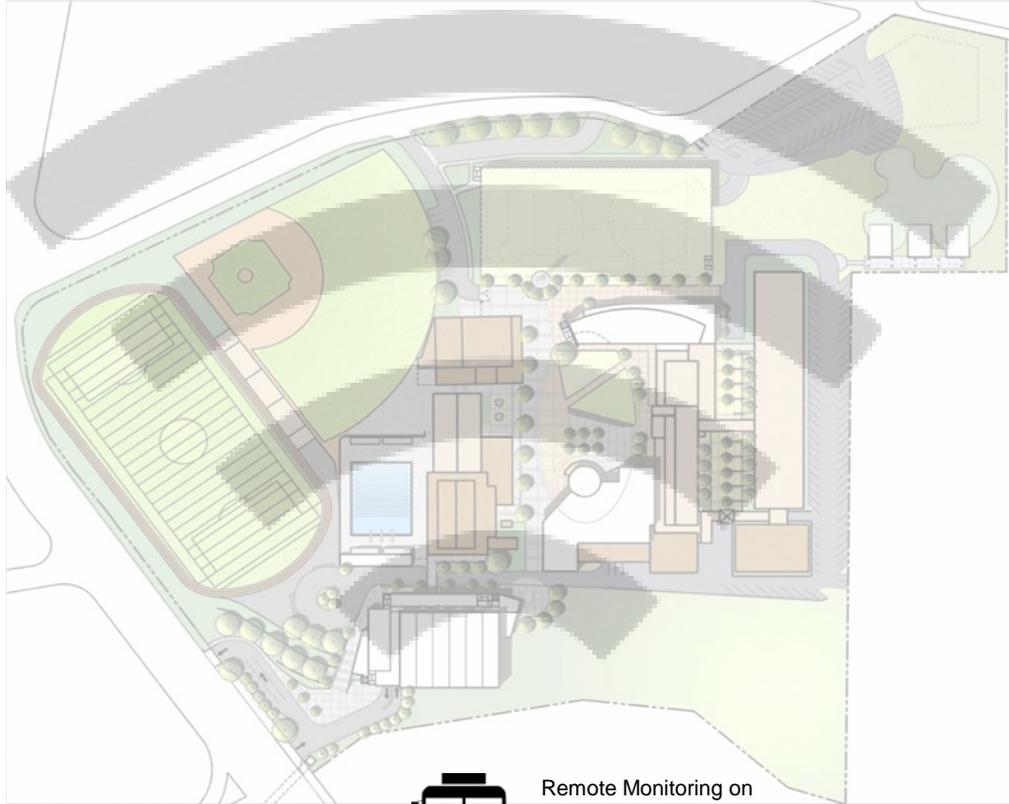
Locational awareness in Emergencies



Entry/Exit Control



Internal Navigation



Remote Monitoring on school trips



Monitoring Visitors/Contractors



Reporting on Pupil activity levels



Environmental Monitoring & Building Health



Educational Platform



Unauthorised Device Detection



Electronic Payments