Nana Fifield, Sage X3 Product Development
10 June 2016

Sage IoT Hackathon 4 – 5 July
sponsored by Canonical

Where:

Winnersh (Reading), Newcastle, Dublin

Who can attend:

- Technical and non-technical people of all disciplines
- All welcome – Sage employees, our partners and enthusiasts (over the age of 18)

What's happening?

Session One: *Introduction to the Internet of Things (IoT) – 10 July 09:00 GMT*

- Overview of the Sage X3 IoT-ready platform and How-To Development guidelines

Sesson Two: *IoT Development on Ubuntu Core – 16 July 10:00 GMT*

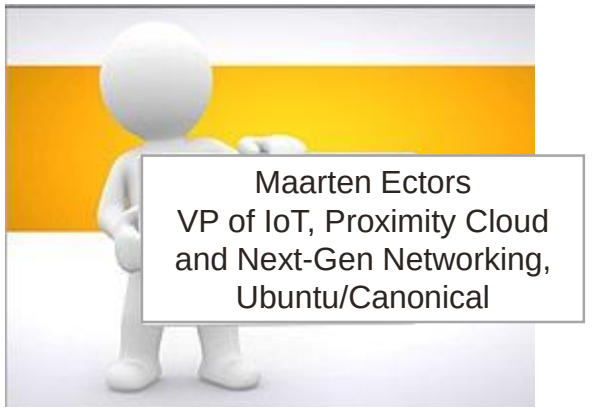
- Architecture, Components, Developer Tools (Snapcraft) of Ubuntu Core
- Store and monetization made easy
- Maintenance: Application isolation, Sandboxing, Rollback, all things you care about.
- Snapcraft examples of a snap regarding MQTT

Have a play in the cloud!

Hackathon Agenda 4-5 July

Date	Time	Activity
3 July	14:00 – 16:00	Registration & setup
4 July	09:30 – 10:30	Registration & setup Breakfast
4 July	10:30 – 11:00	Keynote speeches
4 July	11:00	Hackathon starts
5 July	11:00	Hackathon finishes
5 July	11:30 – 13:00	Presentation & Pitches to judging panel
5 July	13:00 – 13:45	LUNCH
5 July	14:00	Winners announced
5 July	15:00	Close

Keynote speakers and judges



Prizes

- Sage X3 Smart app
- Sage Business Partner Smart solution
- One Sage collaboration and better way of working award
- Winning App at each location

The Internet of Things

The Internet of Things (IoT)

Sensors & chips embedded in physical things transmit data over the internet.

Objects, devices, networks, people and processes exchanging and analysing useful information.

The Internet of Things connects the world around us…

What exactly *is the* ***INTERNET*** *of things?*

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Smart systems & the **Internet of Things** are driven by a combination of:

Sensors & Actuators

We are giving our world a digital nervous system. Location data using GPS sensors. Eyes and ears using cameras and micro-phones along with sensory organs that can measure everything from temperature to pressure changes.

Flow

Machine Vision/ Optical Ambient Light

Electric/Magnetic

Humidity/Moisture

Temperature

Force/Load/Torque/ Strain/Pressure

Leaks/Levels

Motion/Velocity/Displacement

Acceleration/Tilt

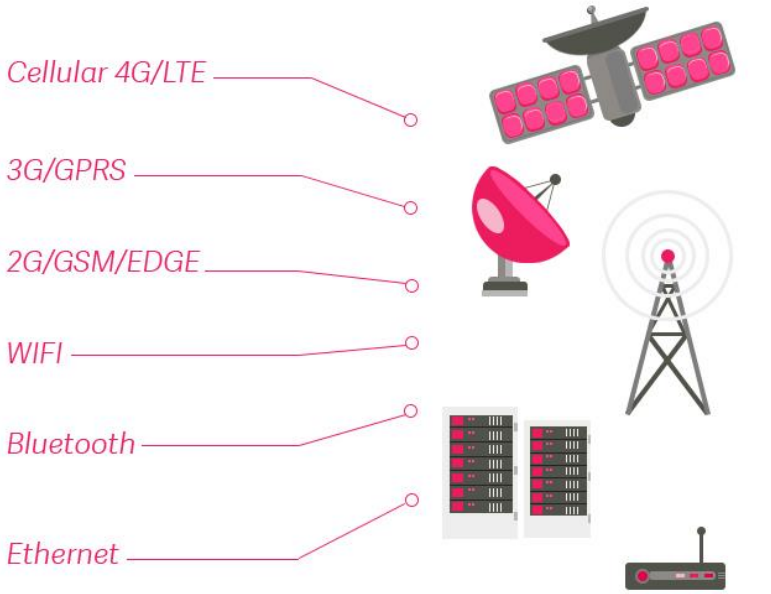
Chemical/Gas

Acoustic/Sound/Vibration

Position/Presence /Proximity

Connectivity

These inputs are digitised & placed onto networks



PAN (Personal Area Network)

LAN (Local Area Network)

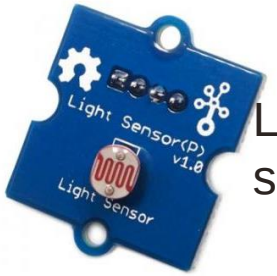
MAN (Metropolitan Area Network)

WAN (Wide Area Network)

People & Processes

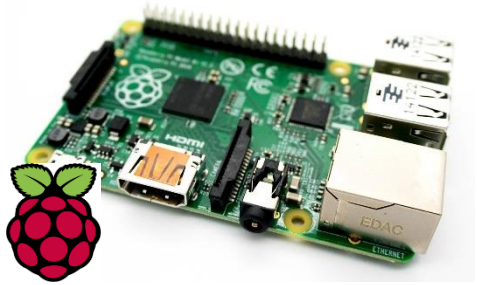
These networked inputs can then be combined into bi-directional systems that integrate data, people, processes and systems for better decision making.

Arduino



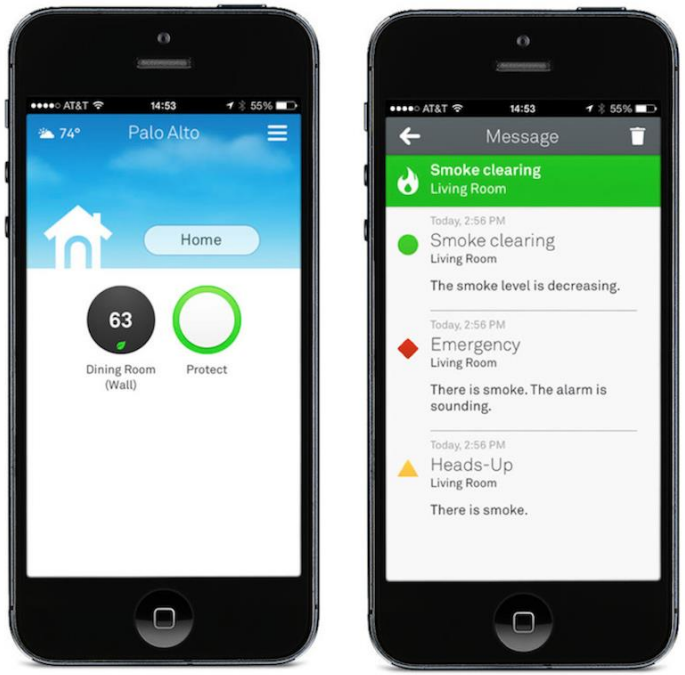
Light sensor

Bluetooth®
LOW ENERGY (4.0) / SMART

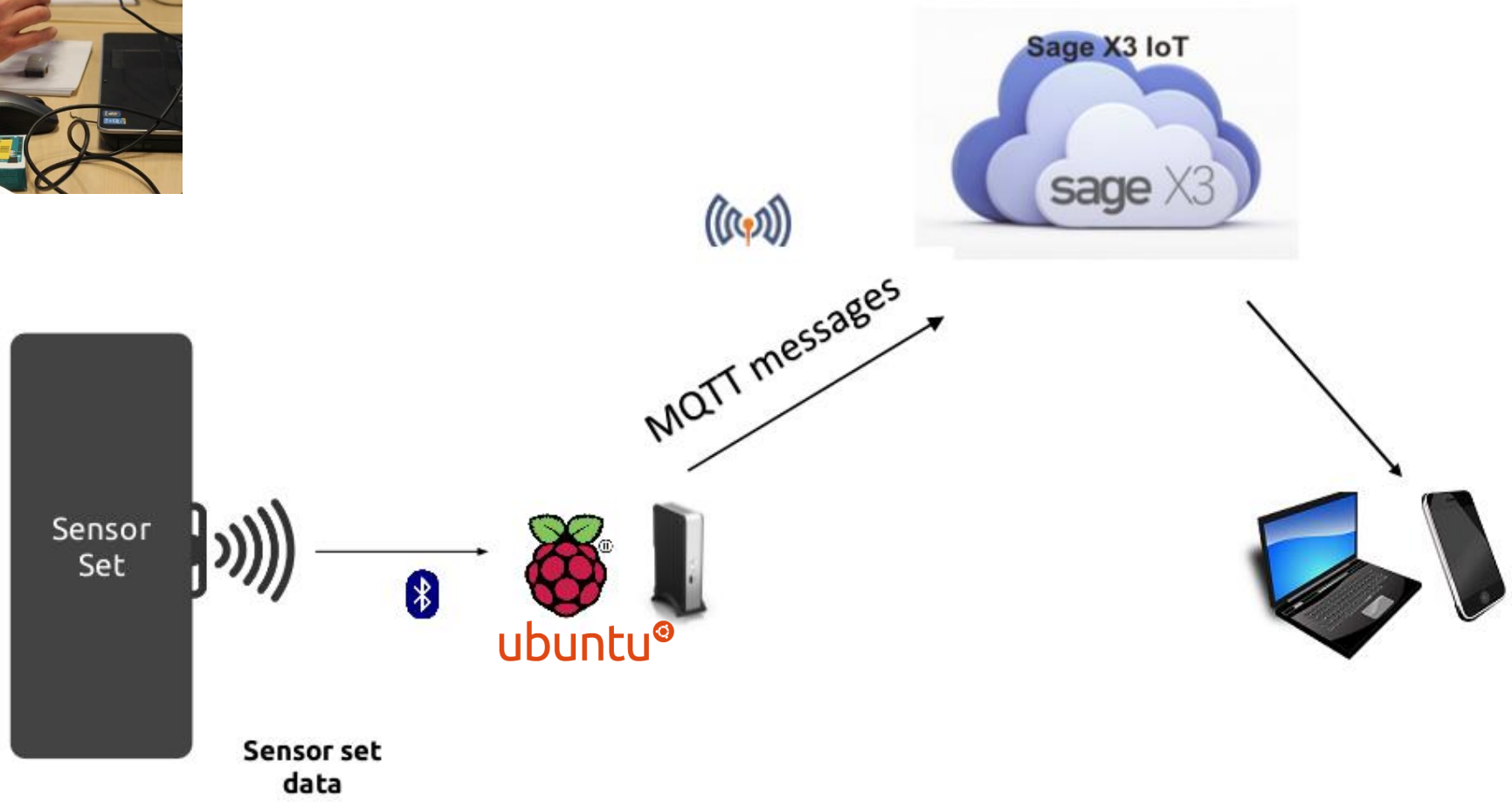


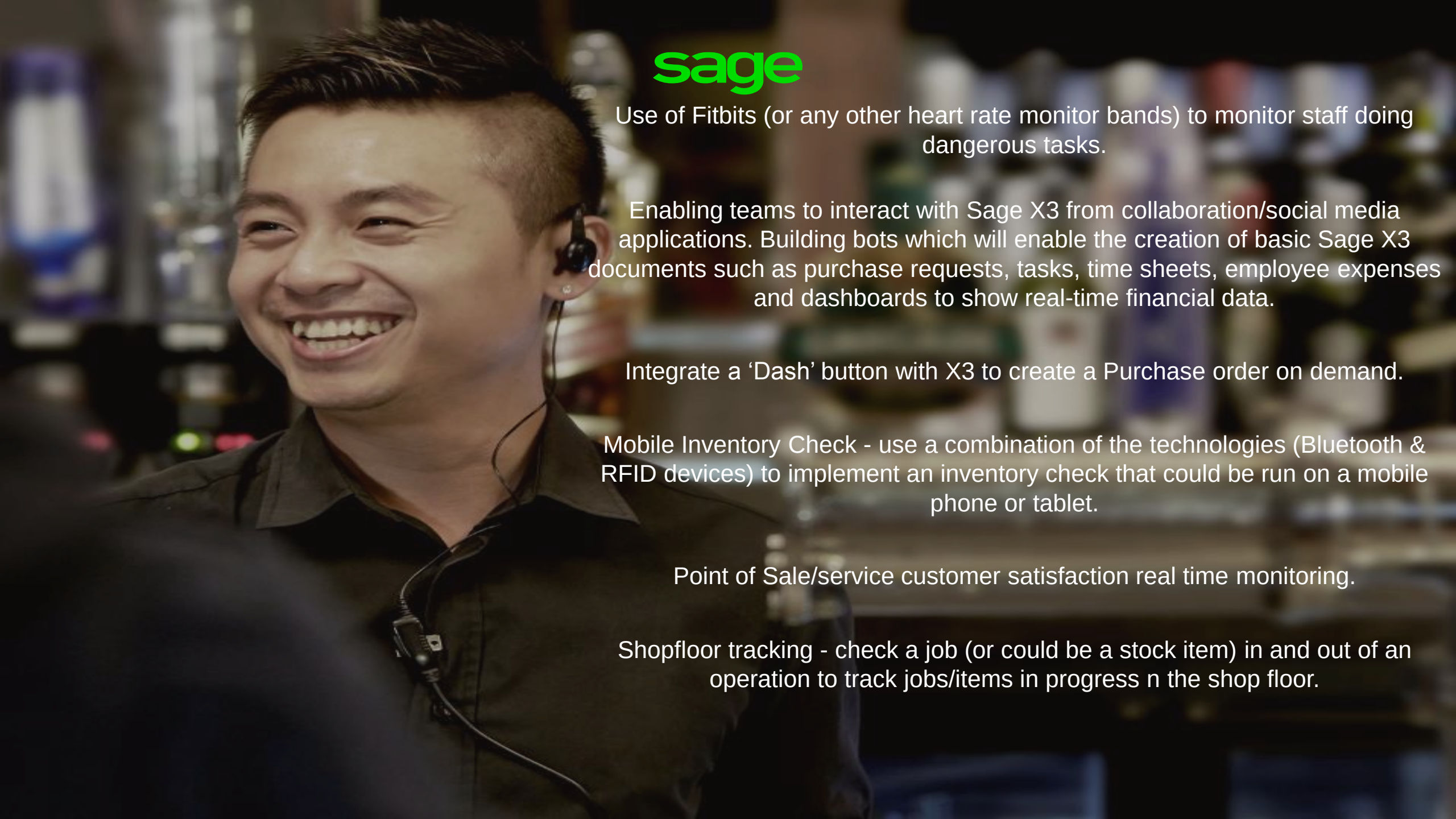
Humidity

Smart Applications



Putting it All Together





Use of Fitbits (or any other heart rate monitor bands) to monitor staff doing dangerous tasks.

Enabling teams to interact with Sage X3 from collaboration/social media applications. Building bots which will enable the creation of basic Sage X3 documents such as purchase requests, tasks, time sheets, employee expenses and dashboards to show real-time financial data.

Integrate a ‘Dash’ button with X3 to create a Purchase order on demand.

Mobile Inventory Check - use a combination of the technologies (Bluetooth & RFID devices) to implement an inventory check that could be run on a mobile phone or tablet.

Point of Sale/service customer satisfaction real time monitoring.

Shopfloor tracking - check a job (or could be a stock item) in and out of an operation to track jobs/items in progress n the shop floor.

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Register for the Sage Internet of Things Hackathon

at: http://sagex3-iot-hackathon.eventbrite.co.uk/