



# **Social Care**

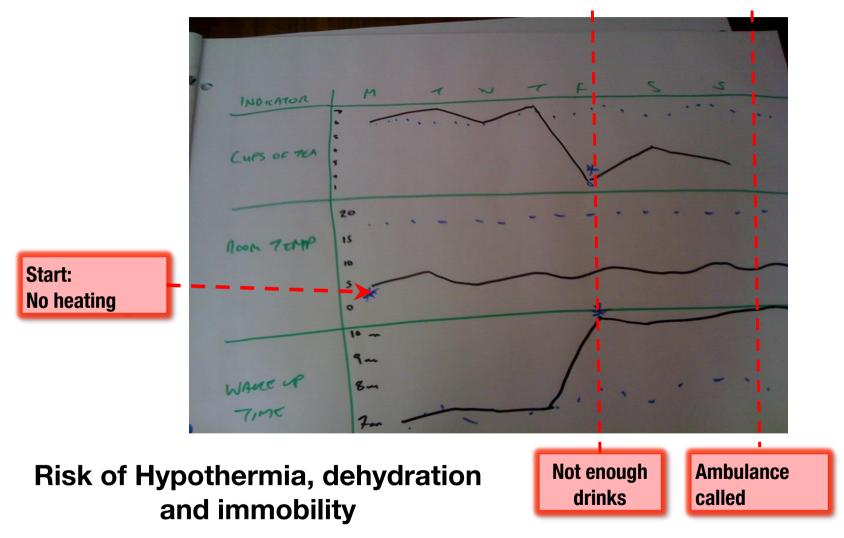


**Wellbeing Monitor** 

(Warm, drinking tea & mobile)



## **Granny's True Story**





### **KemuriSense: Smart Power Socket**



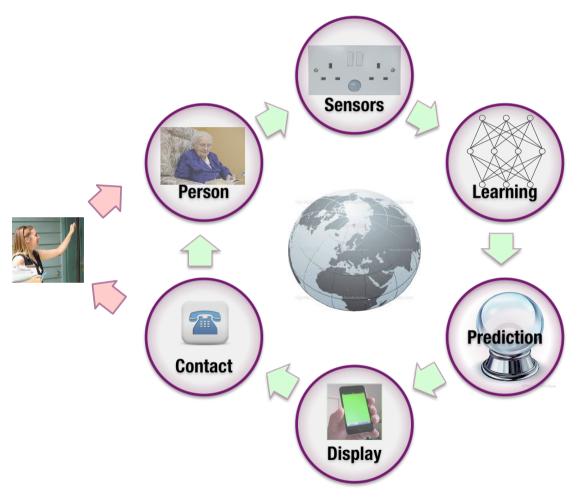
- Replace a socket in the kitchen, where the kettle is used
- Five sensors (ambient temperature, power usage, motion, humidity, power supply)
- No need for broadband, uses GSM mobile telecommunications
- Reports power outage using battery back-up
- UK patent applied for



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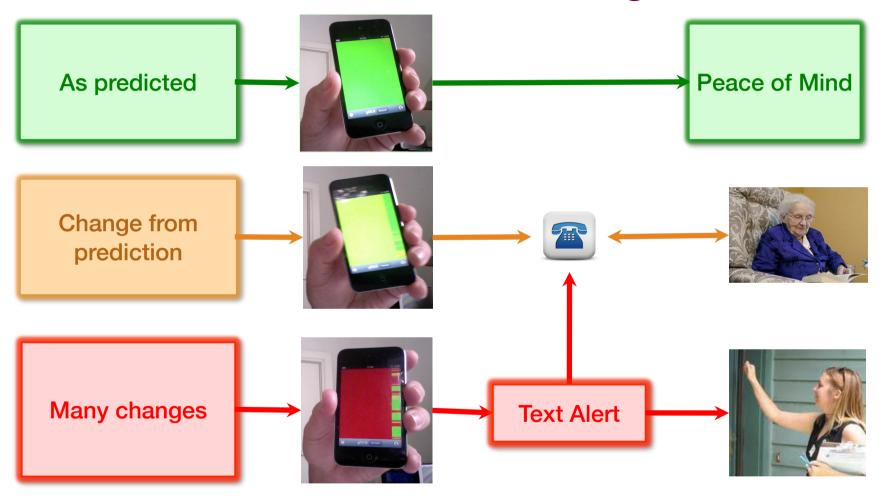
## **Social Care Planning**



People and Technology must work together



## **Predictive Monitoring**



Single Wellbeing Indicator - checked in a second



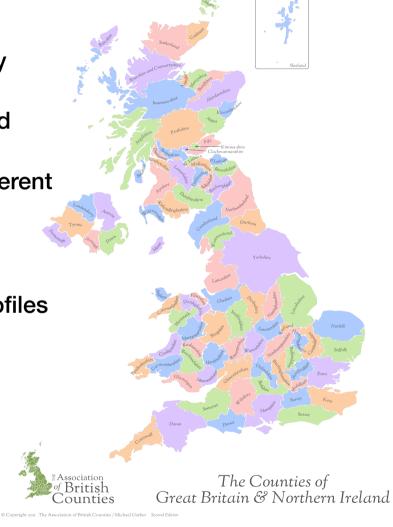
## **National Roll-Out**

 Prove the value of passive predictive monitoring by family and carers

 Pilot in Shire Counties, Metropolitans, Unitaries and London Boroughs

 Install 100 units in each authority with range of different types of vulnerable people

- Educate families and carers
- Operate for 6 months to 12 months
- Analyse results with control groups with similar profiles
- Publish results for Local Authorities, Housing Associations and other care agencies
- Ready for Care Act implementation in 2016





## **Value Proposition**



- 1. State-funded adult social care (people with < £22,000 assets)
  - £4 billion and rising numbers
  - Average £22,000 per year in residential care
  - One month saved in residential care = 3 years of KemuriSense



- 2. Self-Funded adult social care (people with > £22,000 assets)
  - 2.5 million people older than 75 living alone
  - Busy families need daily peace of mind



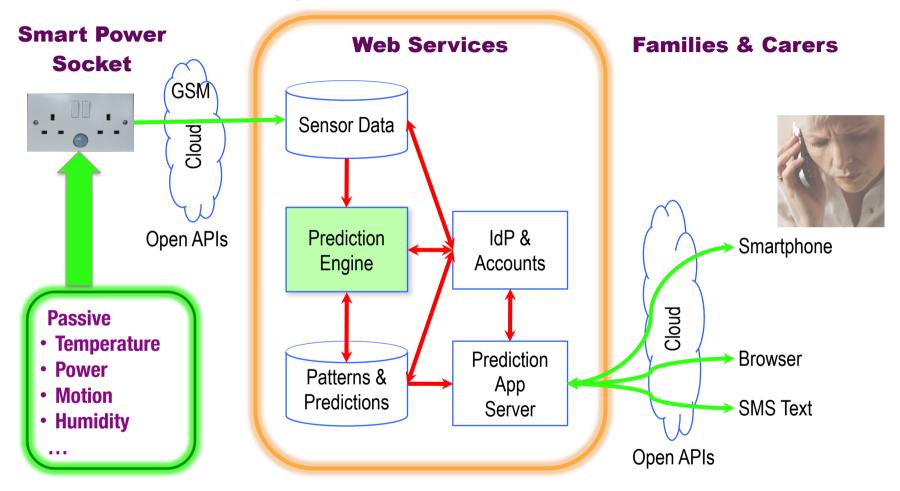


- 3. Sheltered housing care
  - Over 550,000 properties with warden support
  - Efficiency from instant wellbeing monitoring





# **Wellbeing Platform – Social Care**



Passive monitoring = no life style change



## **Development Programme**

#### **Social Care**

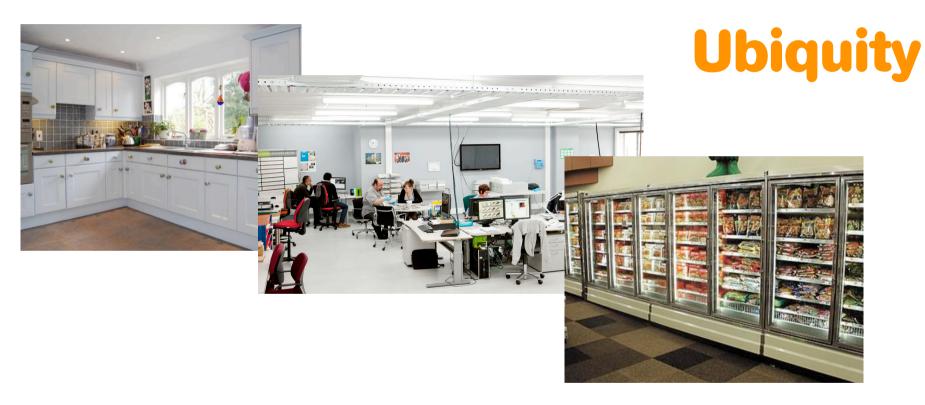
- Proof of Concept in progress
- Development of Prototype in 2015
- Mass production and social care deployment in 2016
- O But that's not the end of the story ....

### **General Purpose Smart Power Sockets**

- Multiple sensors
- Powerline and broadband communications
- Actuators for power switches
- Samples for new products for sale in 2015



# Kemuri



KemuriSense in homes, offices and businesses



### **KemuriSense: Smart Power Socket**

### What could be simpler?

Collect data for social care, power saving, security and building control applications.



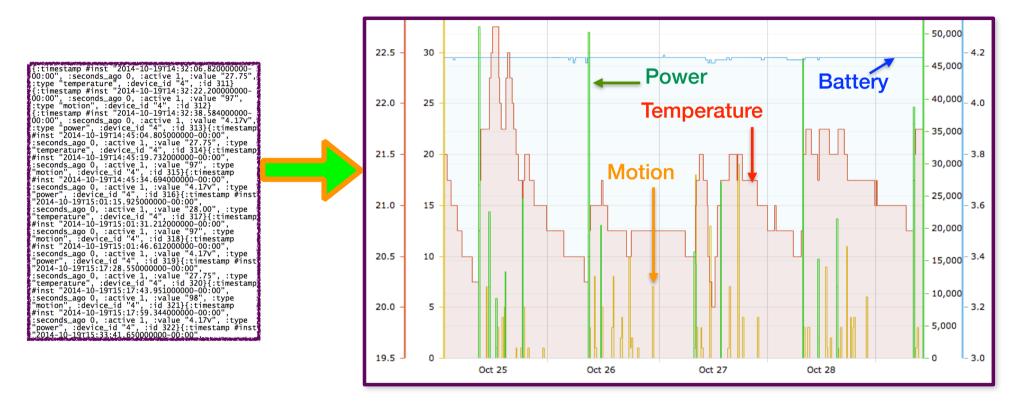
- Ambient temperature, power usage, motion, humidity, power supply
- Rapid installation with mobile phone signal
- Innovate UK awarded funding for a Proof of Concept
- UK patent applied for



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### **KemuriSense: Raw Data Visualisation**



- Collect raw sensor data in time series database
- Transform into bar charts
- Input for pattern detection and predictive analysis



# **Application Opportunities**

### **Predictive Power Purchasing**

- Weather forecast to predict lower wind prices
- Schedule refrigeration and battery charging
- Schedule pumping
- Help to balance electricity supply and demand



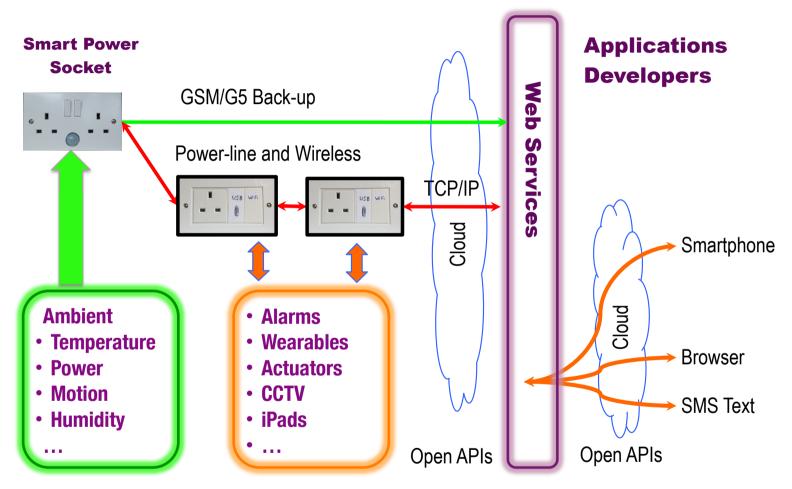


### **Building Control**

- Measure temperature, humidity, motion and power
- Predict zones for reducing aircon demand
- Supplement security measures
- Reduce services cost



## **Ubiquity Platform**



**Innovate with KemuriSense APIs** 



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## **Vision**





Homes have at least one smart power socket



- Offices control buildings with a network of smart power sockets
- Businesses monitor ambient conditions and power from a smart power socket and actuate equipment remotely





 White goods, refrigeration units and electric car chargers have integral smart power controllers



• Smart sockets are a global commodity - a market for billions



### **Contact**



• Web: <u>www.kemuri.org.uk</u>

• Email: Dr Leonard Anderson, <a href="mailto:leonard@kemuri.org.uk">leonard@kemuri.org.uk</a>

Twitter: @KemuriSense

• Phone: 01483 77 1234 or 01483 688 183

• Address: Kemuri Limited, Surrey Technology Centre,

Unit 56, 40 Occam Road, Guildford,

Surrey, GU2 7YG





