

Smartline 
Smart wellbeing inspired by the community

European Union
European Regional Development Fund

South West Academic Health Science Network 

Smartline Data launch:
Improving Services to better serve communities



Event Connectivity

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- Slido.com
- Event code: **smartline**
- Twitter **#Smartlineproj**
- Heartlands Wi-Fi- **tenerife2017**

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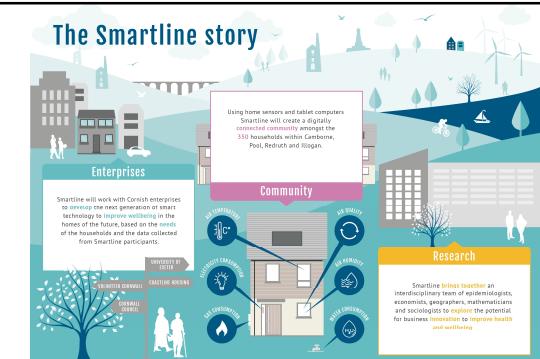
Emma Seymour
Knowledge Exchange Officer

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The Smartline Story

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The Smartline story



Enterprises

Smartline will work with Cornwall enterprises to develop the next generation of smart technologies for the homes of the future, based on the needs of the households and the data collected from Smartline partners.

Community

Using home sensors and mobile computers Smartline will create a digitally connected community amongst the 350 households within Camborne, Penwith, Redruth and Falmouth.

Research

Smartline brings together an interdisciplinary team of epidemiologists, economists, geographers, engineers, lawyers and sociologists to explore the potential for business innovation to improve health and wellbeing.

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Findings

The map displays several marked locations with callouts:

- Dangerous pavements.
- Parking and muddy verges.
- Incidents of anti-social behaviour.
- Noise pollution from late night working at industrial estate.
- Local desire to develop community green.
- Mobility and social isolation issues.
- Active and connected older community.
- Local of information about what's on.
- Social cohesion issues; historical policies for major infrastructure in community spaces.

Community Projects

The map displays several marked locations with callouts and associated images:

- Council in contact about funding for pavements.
- Smartline volunteer leading Cycling Without Age project.
- In correspondence with Young People Cornwall about options.
- Working to connect Trelloway court to less connected and active residents. Supported by Coastline's Community Development lead Jackie.
- 2 active community champions developing a neighbourhood group to help people get out and about.
- With Coastline looking into improving green space which is disabled accessible.
- Launched coffee morning to discuss what and how to improve local cohesion and community spaces.

Communities

- Digitally connecting communities to help them take back control of their health and wellbeing

Enterprises

- Stimulating and supporting Cornish SMEs' research, development and innovation

Enterprise engagement

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Engaged with 120+ Supporting 63

Enterprise collaboration

Category	Value
In Residence	33
Idea Generation	21
Follow-on Fund	5

Logo: European Union - European Regional Development Fund

Enterprise impact

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"My involvement with Smartline has enabled me to consider projects which I could not have taken on my own, and to have conversations which have helped shape those projects. The In Residence scheme gives me access to skills and ideas which are needed to help innovate in my field, and to approach the innovations with the right structure and focus. Health and wellbeing needs this, and needs the cross-disciplinary thinking which Smartline can provide."

Adam Pearson, Newquay Hypnotherapy

NEWQUAY hypnotherapy

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Research

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- Discovering the potential for science and innovation in eHealth & eWellbeing

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Research impact

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"The knowledge and research that Smartline has enabled us to access has meant we have learnt so much about our DadPad product and its audience. Crucially too, it has helped us expand and test our ideas extending our reach across the County and the UK."

Julian Rose, Inspire Cornwall

"This research will give us the evidence we need to encourage the Government and construction industry to incorporate biodiversity alongside energy and water when developing sustainable housing."

Faye Clifton, Green&Blue

Green&Blue

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Vision

The Smartline story

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Allister Young
CEO Coastline Housing

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Heath and Housing

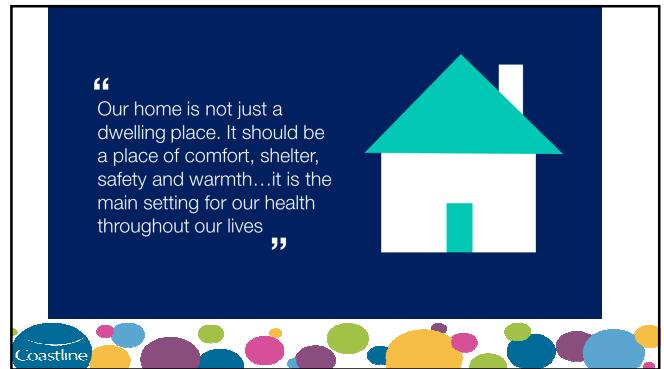
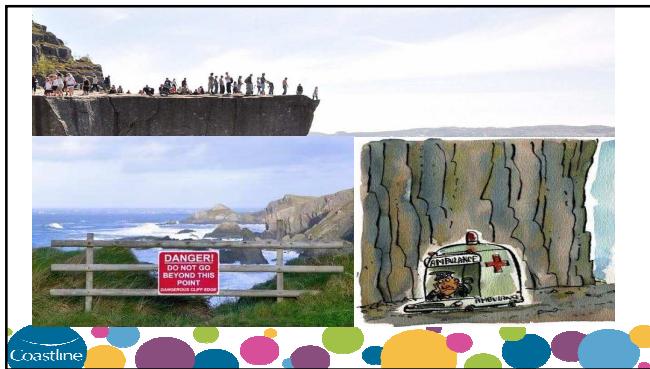
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Why?

Coastline





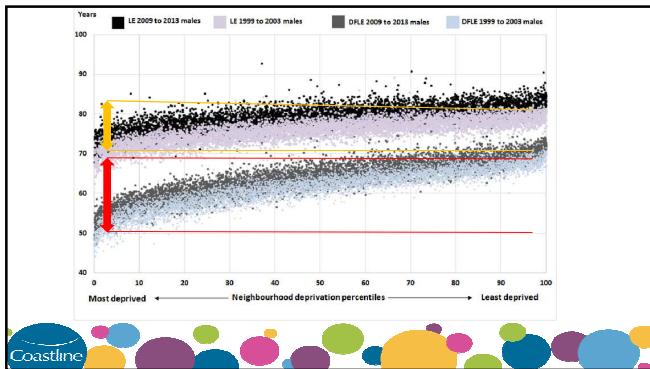


Figure 4.4 Working age adults with health problems by bad housing status

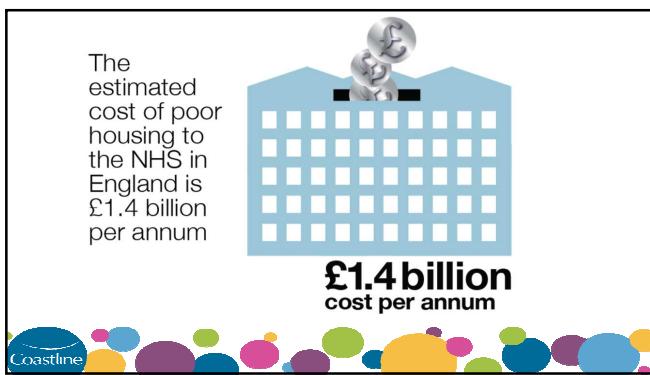
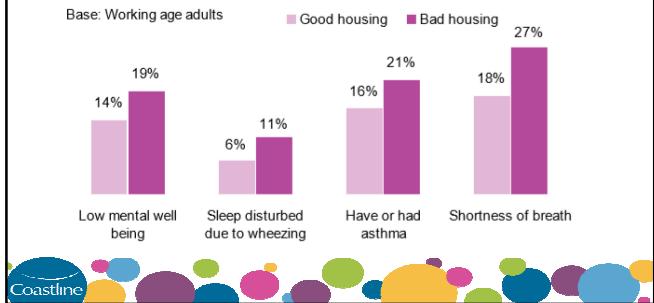
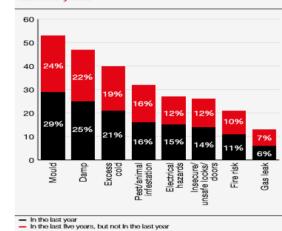


Figure 5: Part of the everyday experience of renting: English private renters who have experienced poor housing conditions in the last five years*



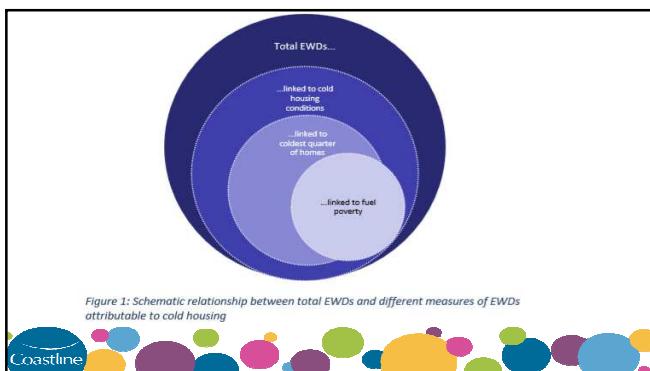
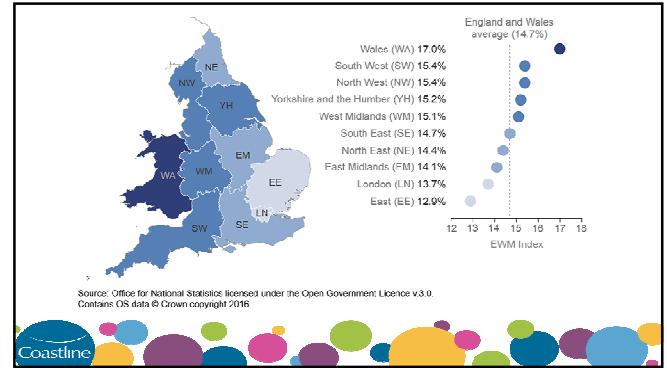


Table 2: Excess winter deaths considered attributable to cold housing conditions					
Winter	UK total EWDs	UK EWDs attributable to... [§]	...fuel poverty	...coldest quarter of homes	...cold housing conditions
2011/12	25,990	2,600		5,590	7,800
2012/13	33,770	3,380		7,260	10,130
2013/14	19,530	1,950		4,200	5,860
2014/15	48,810	4,880		10,490	14,640
2015/16	28,060	2,810		6,030	8,420
2016/17 (provisional)	37,020	3,700		7,960	11,110
Latest 5-year average	32,200	3,220		6,920	9,660
Latest 5-year total	167,690	16,770		36,050	50,310

Coastline

"What good does it do to treat people, and to send them back to the conditions that made them sick"

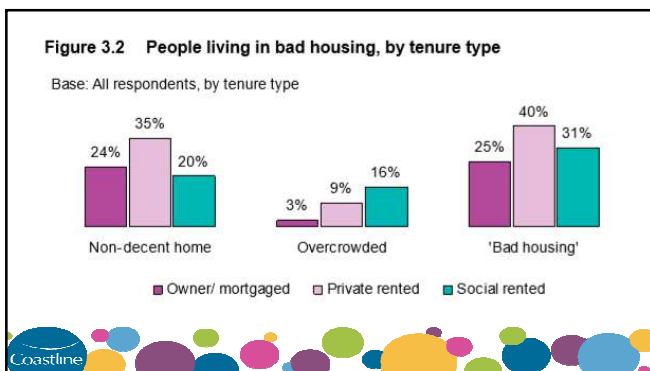
Professor Sir Michael Marmot
Professor of Epidemiology and Public Health, University College London

Annual Conference

Coastline

Why?

Coastline





**Why?
We have to.**

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The data- What does it show?

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Our Community
Dr Andrew James Williams

VOLUNTEER CORNWALL
CORNWALL COUNCIL
UNIVERSITY OF EXETER
SMARTLINE HOUSING



Overview

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- How this data has been collected and when
- Where and who are the Smartline cohort
- What we know about them
- Additional research activities
- Opportunities

Data Collection

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- Baseline survey (September 2017 – December 2018)
- Monthly short surveys – topics vary each month
- Completion survey
- Low frequency but rich data
- Participants not subjects

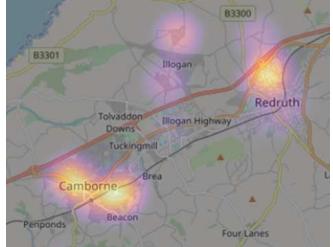




The Smartline cohort

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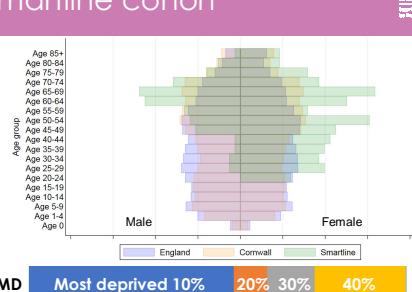
- Recruited over 300 residents of Coastline homes
 - Aiming for a cohort of over 200 at the end of the project given drop outs, withdrawals, moving house
- Camborne, Pool, Illogan and Redruth (CPIR) area




The Smartline cohort

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69% Female
95% White



IMD
Most deprived 10% 20% 30% 40%



The Smartline cohort

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*All types of accommodation




What do we know?

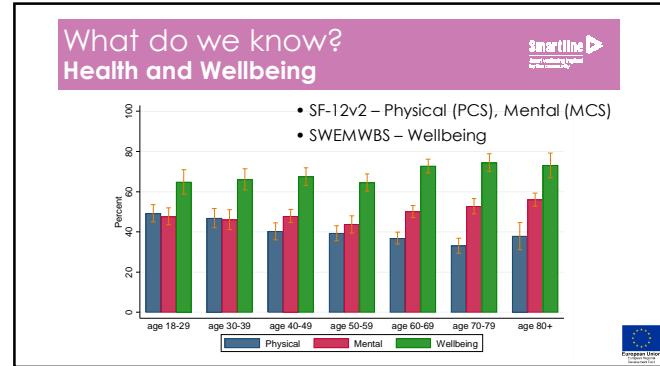
Technology use

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Smartline ▶

- 5.9% don't own a mobile phone
- 11.1% own a wearable device
- 21.8% don't have an internet connection
- 46.9% own a smart TV
- Around 37% own a tablet and/or laptop



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What do we know?

Other information

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Smartline ▶

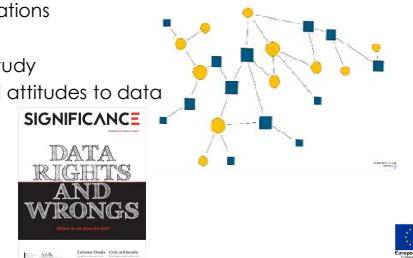
- Pet ownership
- Heating, ventilating, drying and vacuuming habits
- Mould
- Sense of social cohesion
- Respiratory health
- Smoking/vaping

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Additional Research Activities

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Smartline ▶

- Guided conversations
- Activity diaries
- Social network study
- Activities around attitudes to data sharing and use
- Collaboration



SIGNIFICANCE
DATA RIGHTS AND WRONGS

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Indoor air quality and impact on health
Sharpe, R.A., Moses, L., Morrissey, K., Paterson, C. & Taylor, T.



Smartline – Indoor air 

- Aim to examine the relationship between cold homes, inactivity and poor air quality on health outcomes all of which are current Public health priorities in Cornwall.
- Relationship between PM and VOC levels in homes & health
- Time spent indoors and resultant health risk
- Other factors influencing indoor pollutant concentrations
- Mould growth, asthma and allergic diseases



Background



- Chronic inflammation disorder of the airways
- Affects 10% UK population & costs >£1 billion/year
- Asthma is a complex disease (gene-environment interaction)
- Genetic factors cannot explain high prevalence rates
- Interest in exposures resulting from the home environment
- Older adults thought to spend more time indoors (70-90%)





Cold / damp homes 

- Around 14% homes live in fuel poverty
- 16% of homes affected by indoor damp
- Persist in Cornwall & in social housing (59% don't heat due to cost & 30% postcard mould)
- Mould growth increases risk of asthma by about 70%
- 2-fold increased risk of asthma with mouldy musty/odour
- Few studies have assessed this relationship in older age





Research question

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in the community

Example of using Smartline data:

- Does exposure to indoor mould increase risk of asthma in older adults?
- Loveth Moses, MSc student (2018)

ASTHMA
prevention bronchial triggers prevention children risk allergies breathing problems

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Methods – Coastline Housing

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in the community

- 304 face-to-face interviews
- Participant characteristics
- Visible mould & odour
- Asthma and allergy questions
- Analyses conducted using logistic regression (95%CI)
- Sub-group analyses for older adults
- adjusting for gender, age, current smoking, education & presence of pets

Map legend: Deprivation
0% least deprived
10% least deprived
20% least deprived
30% least deprived
40% least deprived
50% least deprived
60% least deprived
70% least deprived
80% least deprived
90% least deprived
100% most deprived

Source: <http://dclgapps.communities.gov.uk/imd/dmap.htm>

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Participant characteristics

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Variable	%/mean
Women	69
Mean age, years	56 (mean)
Current smoker	38.5
Seen a doctor in the last 12 months for;	
Asthma	26
Allergy	18
COPD	13
Employment: retired	35
Reported visible mould growth	46
Reported musty/mouldy odour	18

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Results- summary

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Model	Exposure	Odds Ratio (95%CI)
All adults	Visible mould; No	Ref
	Yes	1.50 (0.92-2.59)
	Mouldy/musty odour; No	Ref
	Yes	2.26 (1.21-4.21)*
<50 year olds	Mouldy/musty odour	2.9 (0.85-9.74)
>50 year olds	Mouldy/musty odour	2.4 (1.10-5.34)*

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Results



- Adult asthma was also associated with;
 - Women
 - Having a wheeze
 - Allergy COPD
 - Presence of a dog
- But not;
 - Smoking or vaping (including in the home)
 - Vacuuming frequency
 - Occupancy levels
 - Cats and levels of carpeting



Discussion/Conclusion



- Demonstrates relationship between mould and asthma, with a stronger association with odour (consistent with Sharpe et al 2015).
- Suggestive evidence that adults aged over 50 years may be at higher risk of asthma resulting from exposure to odour.
- Mouldy odour may be a better measure due to association with higher concentrations of microbial contamination and airborne fungal spores and hyphae.
- Consider self-reported data & other factors influencing asthma.



Next steps - Indoor air pollution



- Systematic review (PM and VOCs) – Prospero Ref CRD42018110070.
- Novel study looking into sensor data (temp, RH, PM & VOCs) & time activity.
- Digital implementation (use of tablets) of time use diaries over 7 days (summer & winter) with additional asthma specific questions.



Indoor air pollution



- Linked with base line surveys and housing data to assess;
 - Effects of PM and VOCs on asthma outcomes
 - The effects of time spent indoors on asthma outcomes
 - Whether there is a gendered association
- Cheryl Paterson, Richard Sharpe, Karyn Morrissey & Tim Taylor
- Collaborating across the Smartline team



Healthy communities

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- Investigations into risk and protective factors influencing residents' mental well-being
- Analyses using Cornwall Councils resident survey (circa 11,000 people)
- Comparisons with Smartline participants

Richard Sharpe, Raluca Topciu & Andrew Williams



System design modelling

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- Collaborating across the team;
- Using sensor data and study findings to inform the development of predictive modelling e.g. between RH & probability of mould growth.
- Interaction between housing characteristics and indoor air pollutants

• Tam Menneer, Richard Sharpe, Markus Mueller & Stuart Townley



References

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- Loveth, L. et al. 2018. Indoor air quality and asthma: estimating the impact of indoor mould on asthma in adults residing in social housing. In Cornwall. University of Exeter Medical School.
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- Sharpe, R. A., Thornton, C. R., Nikolaou, V. & Osborne, N. J. 2015. Fuel poverty increases risk of mould contamination regardless of adult risk perception & ventilation in social housing properties. *Environment International*, 79, 175-29.
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- Sharpe, R. A., Locca, K., Thornton, C. R. & Osborne, N. J. 2016. Identifying risk factors for allergic fungal exposure in energy efficient homes by using highly specific monoclonal antibodies. *Environmental Research*, 144, 32-42.
- Sharpe, R. A., Taylor, T., Fleming, L. E., Morrissey, K., Morris, G. & Wiggleworth, R. 2018. Making the case for 'whole system' approaches: integrating public health and housing. *International Journal of Environmental Research and Public Health*, 15, 2345.



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Smartline Project Data

Dr. Tamaryn Menneer, Dr. Markus Mueller, Professor Stuart Townley

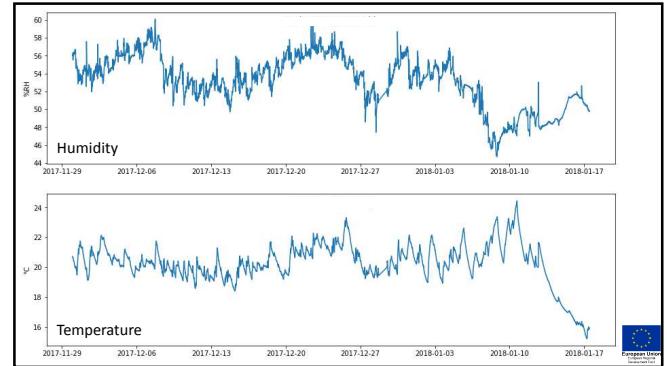


Data

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Smart buildings for the community

- Property characteristics.
- Survey:
 - well-being and health; mould; heating and ventilation habits; plus lots more!
- Sensors:
 - internal and external humidity, temperature, air quality; electricity, gas and water usage.

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Example 1: Prediction of mould from relative humidity levels

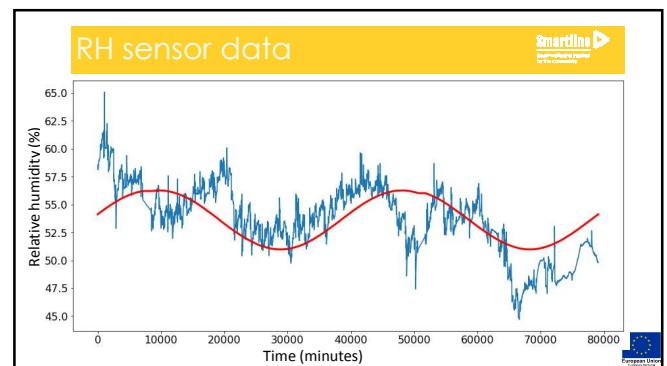
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Smart buildings for the community

High RH levels: 60%-75% (Arundel et al., 1986)

In the laboratory: Fluctuating RH and short durations result in less mould growth (Johansson et al., 2013).

In the home: Frequent fluctuations versus longer periods of high RH.

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Using the findings

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- Identify the patterns in 'successful' households.
- Combine RH and temperature (VTT model; Hukka & Viitanen, 1999).
- Potential for smart control systems to minimise mould-favourable conditions.

Mould index

Changes in index

Date

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Example 2: Heating habits across different household types

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- age group
- number of rooms
- property type
- proportion of rooms that the household heats and ventilates
- aversion to heating because of the cost
- time spent indoors
- insulation score

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Groups

A: 1 working-age adult, living in a flat, who heats and ventilates in few rooms.

B: 1 or 2 working-age adults, living in a flat, who heat and ventilate in most rooms.

C: 1 or 2 working-age adults, living in a flat with low levels of insulation.

D: 2 or more working-age adults, living in a house or bungalow, who spend less than 20 hours a day indoors.

E: 1 or 2 working-age adults with children from 0 to 17.

F: 1 adult aged 66+, living in a flat, who spends more than 20 hours a day indoors.

G: 1 adult aged 66+, living in a house or bungalow, who spends less than 20 hours a day indoors.

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Temperatures in different household types in October

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Group	Overnight (°C)	Daytime (°C)	Evening (°C)
A	~21.2	~21.5	~21.8
B	~20.5	~20.2	~20.8
C	~20.5	~20.0	~20.8
D	~20.5	~20.2	~20.8
E	~20.8	~21.0	~21.2
F	~21.2	~21.5	~21.8
G	~20.5	~20.2	~20.8

Temperature in the living room (°C)

Group

Overnight
Daytime
Evening

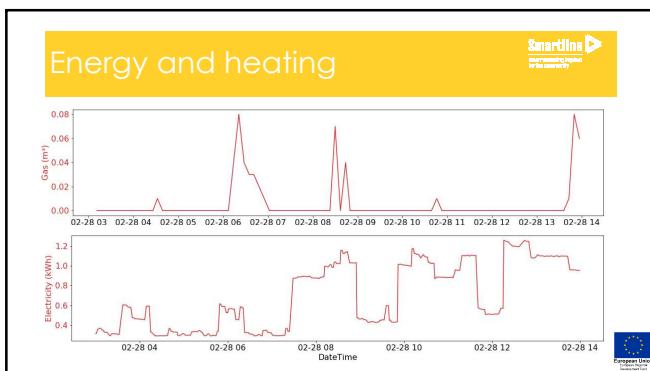
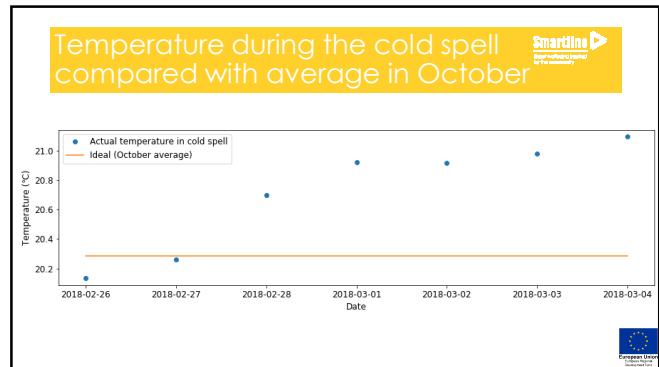
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**Heating behaviour during the cold spell
(26th February to 4th March 2018)**

In some homes:

- Overnight, the living room is warmer than bedroom.
- Internal temperature rises as external temperature drops.
- Temperature is above the usual home temperature when it is cold outside.





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Guided Conversations: Social Impacts & Next Steps
Professor Catherine Leyshon



Guided Conversation

About: A person centred and community focused conversation tool.

Outcomes: Tool has enabled Smartline to link participants with local community organisations to improve wellbeing.

Knowledge Outputs & Insights

Individual:

- Identification of the participants' wellbeing needs and goals

Patterns:

- Location of priority issues.

Services:

- Prioritised list of services and organisations.

Civic action:

- Opportunity, appetite and capacity for community projects.

Going Digital

In Residency:

- Prototype designs for the digital conversation.

Follow On:

- Customisable conversation 'app' to be released as freeware in August 2019.
- Provides conversation architecture.
- Instructional manual to enable other community groups to edit their own conversation tool.
- Test and learn with participants.

Next Steps

Embed in local organisations:

- Vvor GP Surgery
- Coastline Housing
- Newquay Orchard
- PorthEden Crisis Café

Figure 1: new operational model at Vvor Surgery (Scott Bennett)

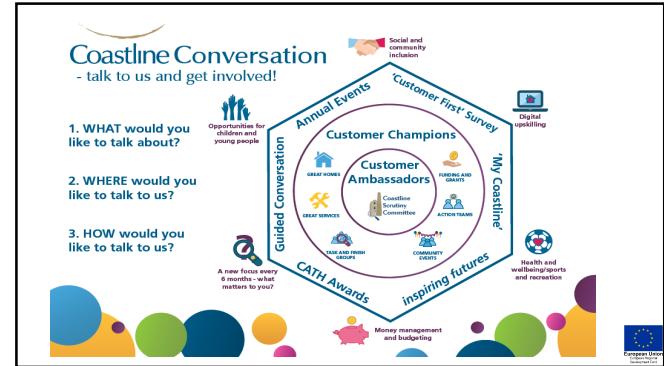
Guided Conversation

Description: A semi-structured discussion, **guided** by participant, around important wellbeing topics.

Objectives:

- Identify the participants' wellbeing needs and goals;
- Signpost and support individuals towards potential solutions.
- Encourage local leadership.

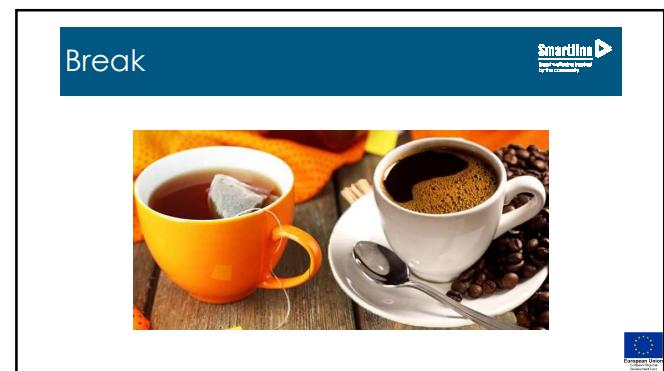
Figure 1: new operational model at Veor Surgery (Scott Bennett)



Questions from the floor?

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Slido.com
Event code- smartline



**Open
Data
Institute**

David Beardmore
theODI.org

Smartline Data Launch

Agenda:

1. About the ODI
2. ODI R&D programme
3. Examples of working in the open
 - a. OpenActive
 - b. Open Banking
 - c. Data Trusts

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Smartline Data Launch

Agenda:

1. About the ODI
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 - a. OpenActive
 - b. Open Banking
 - c. Data Trusts

theODI.org

The team

Founded in 2012, the Open Data Institute (ODI) is an international, independent and not-for-profit organisation based in London, UK.

Dr Jeni Tennison CEO
Sir Nigel Shadbolt Chairman
Sir Tim Berners-Lee President

theODI.org

As open as possible

Our Mission

We work with companies and governments to build an open, trustworthy data ecosystem, where people can get value from data and its impacts do no harm

theODI.org

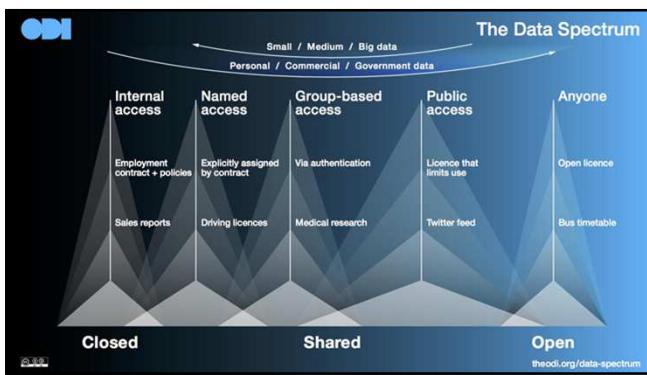
As open as possible

open APIs
data about individual people and organisations that they and third parties with permission can access and use eg through data portability rights

data sharing
data about many people and organisations that trusted or qualified third parties can access and use eg shared through data trusts

open data
data about the world, that anyone can access, use and share

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What we do

Our main impacts

- Building business capability**
We provide practical advice & training to businesses across the UK, with over 2,500 members & 5 commercial partners
- Providing policy advice**
We have supported dozens of central and local government with their data strategies
- Conducting applied research & development**
We produce reports, tools & training materials to guide businesses & policymakers
- Supporting open innovation**
We have accelerated and incubated 149 startups since 2012, growing the data economy in key areas
- Making the UK a world leader**
We have worked across 55 countries, providing advice, training & innovation around the world

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What we do

CONSULTANCY
The ODI delivers consultancy - policy, strategy, technical, implementation - to organisations in public & private sector, in the UK and overseas

START-UPS
Start-up incubation and acceleration has been a significant feature of the ODI since its inception - programmes running in the UK, Mexico, Malaysia

TRAINING
The ODI has an extensive blended learning programme providing a rich curriculum of in-person courses and e-learning modules.

PARTNERSHIPS
A number of commercial organisations chose to partner with the ODI. We are also a membership organisations with c.3,000 corporate and individual members

Data must flow

The diagram illustrates the flow of data through a central vertical green arrow pointing upwards. The arrow is divided into three main sections labeled 'DECODE', 'CREATE', and 'STEWARD' from top to bottom. At the very bottom of the arrow is a small sunburst icon labeled 'DATA'. Above the arrow, the text 'POSITIVE IMPACT' is written in a box, with a green sunburst icon and stylized green hills above it.

Impact from data comes
when it flows from
those who collect & steward it,
through analysis & innovation,
to those who act on it

Our theory of change

Data flows may stop due to legacy business models or privacy concerns; getting positive impact from data requires openness and trustworthiness

Agenda:

- 1. About the ODI
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 - a. OpenActive
 - b. Open Banking
 - c. Data Trusts

Open Data Institute

Our R&D programme

Three-year applied R&D programme to help develop the next generation of data enabled public and private services.

Three themes:

1. Data sharing and trust
2. Innovation, business growth & international trade
3. Data Infrastructure

Stakeholders:

Innovate UK, BEIS, DCMS, Treasury, ONS, Cabinet Office

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93

Open Data Institute

	Upgrading data infrastructure	Innovation, business growth & trade	Data Sharing and Trust
Year 1	<ul style="list-style-type: none"> Data Publishing Tools Standards Guidebook for Open Data Data Observatories Report 	<ul style="list-style-type: none"> UK Tech Innovation Index Smart Contracts Report Public Sector Service Delivery Report + Local Government Stimulus Fund 	<ul style="list-style-type: none"> Data Ethics canvas Personal Data in Transport Report Data Portability for multiple people prototypes Open APIs for Telco Design Prototypes Personal Data - De-identification & Risk Olgem MiData Standards Increasing access to data for new technologies (Data Trusts)
Year 2	<ul style="list-style-type: none"> Geospatial Data Infrastructure Report + Local Government Stimulus Fund 	<ul style="list-style-type: none"> Public Sector Service Delivery Toolkit Agent Based Modelling - Data Portability International Trade Research (Germany & Hong Kong) 	<ul style="list-style-type: none"> Smart/Open Cities Data Ecosystems Data access models for supporting vulnerable utilities consumers
Year 3	<ul style="list-style-type: none"> Digital Twins Collaborative Maintenance Design Patterns 	<ul style="list-style-type: none"> Private sector business case International Trade Research (cont.) 	

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Open Data Institute

<https://theodi.org/project/data-innovation-for-uk-research-and-development>

The screenshot shows a blue-themed website page with a video player at the top. Below it, there's a heading "Data innovation for the UK: research and development" and a summary of the project's aims. A sidebar on the left lists team members: James Scott, Jeni Tew-Moor, Wanda Morris, and Peter Morris. At the bottom, there's a "R&D projects at the ODI" section with a list of topics like "Open standards for data", "New service delivery models", etc.

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Smartline Data Launch

Agenda:

- 1. About the ODI
- 2. ODI R&D programme
- 3. Examples of working in the open
 - a. OpenActive
 - b. Open Banking
 - c. Data Trusts

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OpenActive

Using data to help people get active

ODI SPORT ENGLAND

Open Data Institute**OpenActive**

- ▶ Leading a sector change programme in the sport and physical activity sector, in order to make it easier for people to find and book activities
- ▶ 27 organisations now publishing open data
- ▶ Chaired a working group to design open data standards
- ▶ 158,000 physical opportunities now listed through data that has been published openly
- ▶ 254 people trained (in-person and eLearning)
- ▶ Public Health England using OpenActive data to power their Change4Life activity finder. 4m people have signed up to this campaign.



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Open Data Institute

Open Banking

Our contribution:

- ▶ Co-authored original Fingleton Report leading to Open Banking
- ▶ Co-chaired Open Banking Working Group
- ▶ Advised CMA on Open Banking requirements
- ▶ Supported Nestle's "Open Up" Challenge
- ▶ Exported Open Banking eg to Mexico, Australia, NZ, Canada, Japan

Introducing the
Open Banking Standard
Helping consumers, banks and fintechs to move financial data into a truly fit-for-purpose, consumer-friendly environment

Introducing the Open Banking Standard | Open Data Institute 2016
ODI and OIIA

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ODI

Independent review of AI**Independent report
Recommendations of the review**

Published 15 October 2017

Recommendations to improve access to data

1. To facilitate the sharing of data between organisations holding data and organisations looking to use data to develop AI, Government and industry should deliver a programme to develop Data Trusts – proven and trusted frameworks and agreements – to ensure exchanges are secure and mutually beneficial.

<https://www.gov.uk/government/publications/growing-the-artificial-intelligence-industry-in-the-uk/recommendations-of-the-review>

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Data trust

There's a broader/older discussion, we found five groups of definitions:

- A data trust as a repeatable framework of terms and mechanisms
- A data trust as a mutual organisation
- A data trust as a legal structure
- A data trust as a store of data
- A data trust as public oversight of data access

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Data trust

What is a data trust?

A legal structure that provides independent third-party stewardship of data.



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Data trust pilots



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Data trusts

After the pilots

Pilots
Either implement data trust, or other recommended model, to deliver desired impact

UK policy
If successful, implement recommendations to make data trusts repeatable in appropriate contexts

UK capability
If successful, broaden number of organisations that can design/implement data trusts

International policy
If successful, engage other countries to scale internationally

Data access models
Ensure other useful but underused data access models receive support

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As open as possible

Our Mission

We work with companies and governments to build an open, trustworthy data ecosystem, where people can get value from data and its impacts do no harm

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The diagram illustrates the ODI Network Data Ecosystem. At the center is a sun-like symbol with the word 'DATA' at its core. Surrounding it are four circles labeled 'DECIDE', 'CREATE', 'STEWARD', and 'DISCOVER'. From these circles, arrows point outwards to various components: 'DATA FEEDING' (top left), 'DATA FEEDBACK' (bottom left), 'DATA HARMONISATION' (bottom right), 'DATA INTEGRATION' (right), 'DATA MONITORING' (bottom right), 'DATA PROTECTION' (bottom right), 'DATA REFINEMENT' (left), 'DATA TRANSFORMATION' (left), and 'DATA USE' (top right). The background features a stylized landscape with a sun, clouds, and mountains.

Thank You

The ODI logo consists of the letters 'ODI' in a bold, black, sans-serif font, with a small 'dot' icon to the right of the 'I'.

Simon Tricker
UrbanTide Co-founder

Usmart and Access to Smartline Data

Smartline ▶

Smart wellbeing inspired by the community

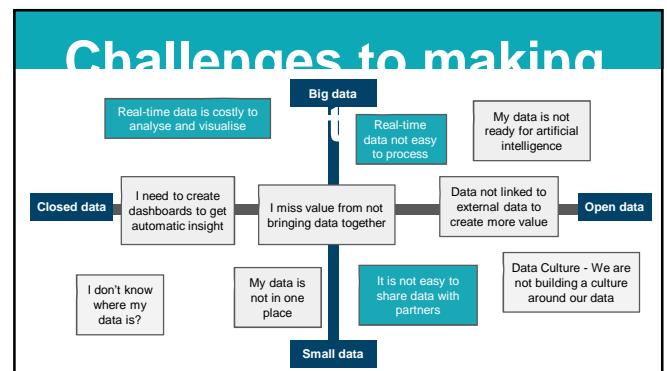
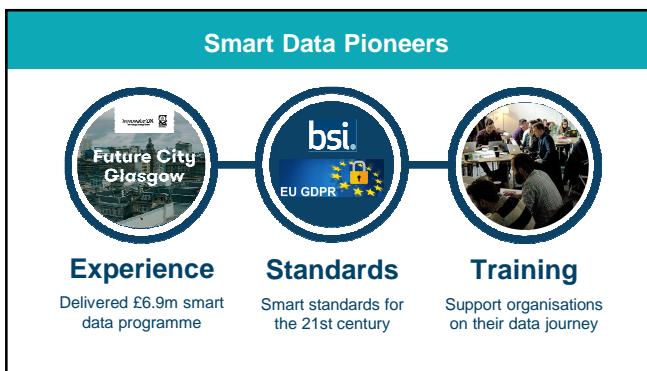
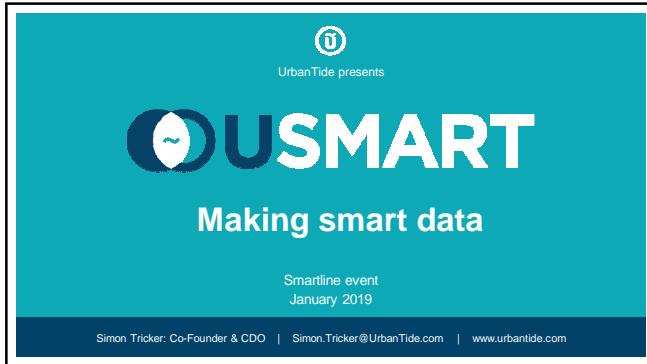
European Union
Horizon 2020 Research & Innovation Fund

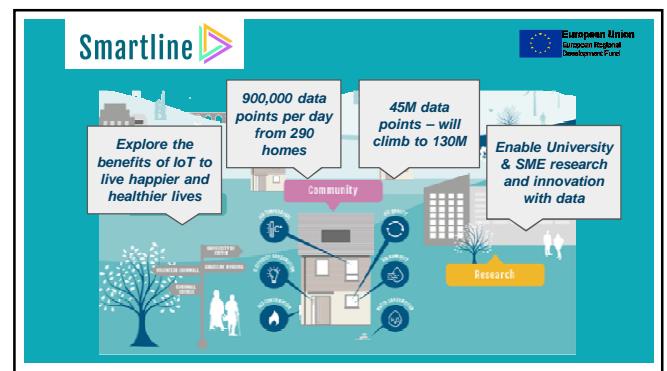
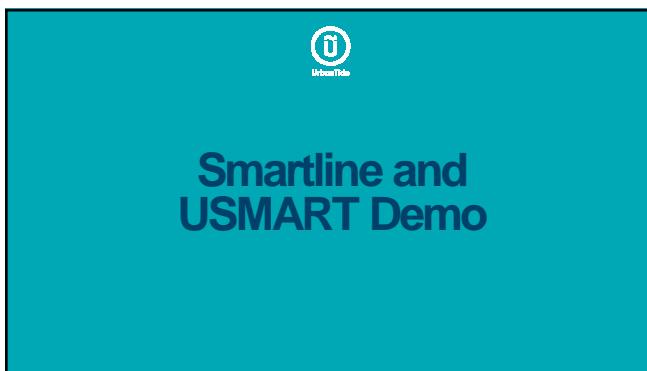
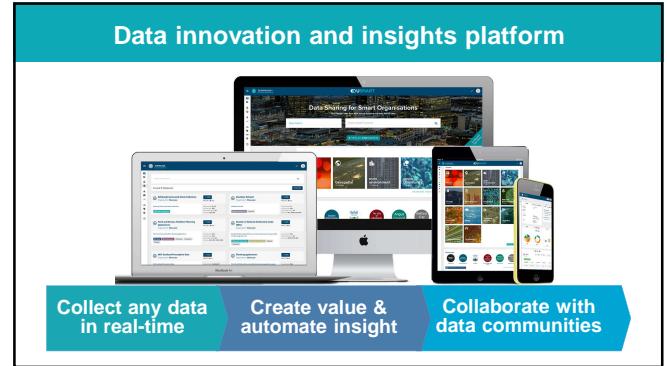
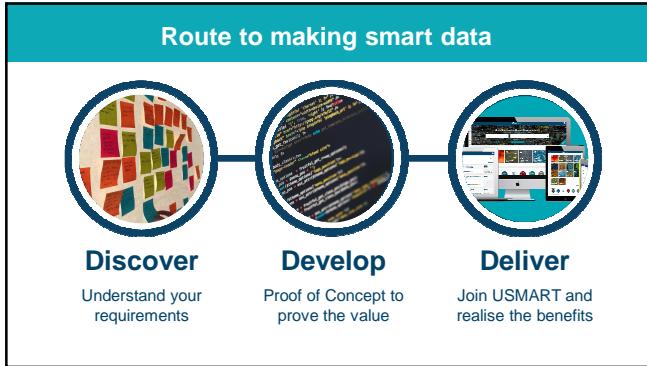
What data is available?

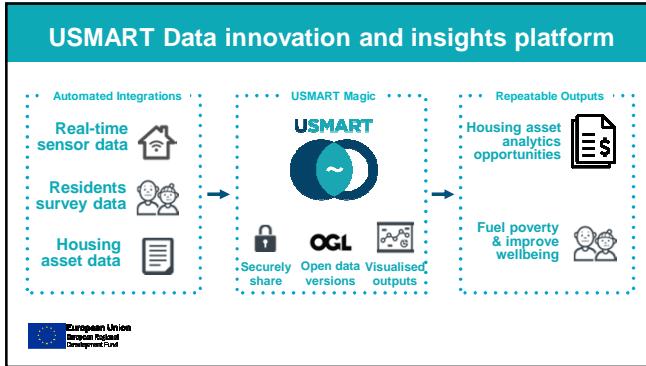
Smartline ▶
Smart wellbeing inspired by the community

European Union
Horizon 2020 Research & Innovation Fund

- 1. Sensor data
A large continually growing dataset
- 2. Survey data*
Rich, anonymous, baseline data
- 3. Property data
Static facilities based dataset







USMART - short introduction

This screenshot shows the homepage of the USMART platform. It features a banner for "Data Sharing for Smart Organisations" with a call to action to "VIEW ALL 2000 DATASETS". Below the banner are four theme categories: Health (represented by a red heatmap icon), Government and Public Sector (represented by a cityscape icon), Housing and Zoning (represented by a hexagonal grid icon), and Geospatial (represented by a satellite view icon). The top right corner includes links for "SIGN UP" and "LOG IN".

USMART - Smartline data

This screenshot shows the Smartline project page on the USMART platform. It displays a brief description of the project, stating it is an exciting research project looking at how technology can be used to help people live healthier and happier lives. It is a partnership project led by the University of Exeter with Cornwall Housing Ltd, Cornwall Council and Voluntee...

The page includes a sidebar with navigation icons and a main area showing a thumbnail of a building and some data statistics: Published Datasets (0), Files Available for Download (0), Published APIs (0), and Planned Datasets (0).

Smartline Data Visualisation - Humidity & Temperature

This screenshot shows the data visualization interface for the Smartline project. It includes sections for "REAL-TIME DATA PUBLICATION" and "REAL-TIME DATA STORAGE". The publication section shows a table of writers with one entry: "0 0 0 0". The storage section shows a "Red-Time Data API" button. Below these are "DATA EXPLORER" and "VISUALISATIONS" sections. The data explorer table shows a single row of data:

POT #	UNIT #	VALUE #	CHANNEL #	DATE/TIME #	SENSORID #	SENSORNAME #	UTILITYTYPE #	PROPERTY/REFERENCE #
0.000124230728	inrh	0.004542	pedel	2018-01-29T04:42:00.000Z	63211981	Electricity Meter - inrh	electric	15

How to gain access to Smartline data

How to access the data

- 1** Register your interest at www.smartline.org.uk/data
- 2** USmart Login details will be provided
- 3** Access Smartline Data via USMART <https://usmart.io/#/>

Email from USMART

Join Smartline on USMART > [Inbox X]

notifications@mail.usmart.io to simon.trotter - 12:32 AM (1 hour ago)

Congratulations, Smartline has invited you to their USMART data sharing platform. High five!

Next three steps to get started:

- Go to [USMART](#)
- Explore, discover and play with Smartline's data
- Have fun!

If you need any help getting started or if you want to join our Slack channel please drop us an email at hello@usmart.co.com

Thank you,
Team USMART

Sign up with using the same name and email

SMARTLINE

Sign Up

First Name Last Name

Email Address Password Repeat Password

By signing up to this service you agree to the licence agreement.

LOGIN SIGN UP

Smartline data and URQL queries

SMARTLINE

Smartline

Smartline is an exciting research project looking at how technology can be used to help people live healthier and happier lives. It is a partnership project led by the University of Exeter with Cornwall Housing Ltd, Cornwall Council and Volanteer Co... > more

REQUEST DATASET FOLLOW

Search Smartline Datasets

0 Published Datasets 0 Files Available for Download 0 Published APIs 0 Planned Datasets

Smartline open data license

 Open Government Licence
for public sector information

 The National Archives
Data in the National Archives

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How to gain access to Smartline data

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- 3 Access Smartline Data via USMART <https://usmart.io/#/>

Building Smartline data communities



Unlock
Explore large realtime datasets

Create
Develop new insights and business opportunities

Share
Share your success stories

 UrbanTide presents

USMART

Making smart data

Smartline event
January 2019

Simon Tricker: Co-Founder & CDO | Simon.Tricker@UrbanTide.com | www.urantide.com

How to access the data



1. Register your interest at www.Smartline.org.uk/data
2. Usmart login details will be provided via email
3. Access Smartline data via USMART
<https://usmart.io/#/>



A discussion on the further potential of Smartline data

Smartline 

Smart wellbeing Inspired by the community



Further potential of Smartline



1. What are the key problems facing Cornwall in terms of health, housing and communities?
2. What key question(s) would you like answered by the Smartline project?
3. What other data would you like collected or merged with the dataset?

Please discuss on your tables and write on postcards provided (including your name/email if you would like to be contacted further on these).



Information on future Smartline data events

Smartline 

Smart wellbeing Inspired by the community



Future events

Smartline
Smart well-being inspired by the community

- Smartline data explained, what it is and how it is collected?**
11 February, 1-3pm
Knowledge Spa, Truro
- Smartline data; Applying Smartline data to community issues**
11 March, 1-3pm
Knowledge Spa, Truro
- Smartline data; Identifying gaps and improving quality**
April date TBC
Venue or webinar TBC

European Union
Smartline

Smartline
Smart well-being inspired by the community

European Union
European Regional Development Fund

www.smartline.org.uk
smartline@exeter.ac.uk

South West Academic Health Science Network