



Systems, spreadsheets and sticky plasters

Today's Speakers

Hitachi Solutions



Thomas Day

Local Government Director, Hitachi Solutions

South London Partnership



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Smart Place Project Manager and Social Worker

Introduction

- ✔ Systems, Spreadsheets and Sticky Plasters
- ✔ Limited data sharing between departments and services
- ✔ Platform approach takes time and investment
- ✔ Immediate visibility of data in a single place
- ✔ Consuming, cleansing and collating data from multiple sources into a single view is now possible
- ✔ Failed approach, not technology
- ✔ An outcome driven data strategy reduces risk of failed investment in time and money



Key Theme's

Same Technology Different Application

- ✔ Systems, Spreadsheets and Sticky Plasters are not prohibitive to a successful data strategy
- ✔ Modern Data Platform is the gold standard in becoming data driven organization
- ✔ Effective across organization's, industries and, desired data outcomes

Ask the question – In search of the actionable single view

- ✔ Give context to the single view
- ✔ Asking an outcome driven question of data
- ✔ Actionable insights
- ✔ "Which families are eligible for financial support"

Supporting Families at Southwark Council

Question – Which Families need support?

Question

- ✔ Thousands of disadvantaged families need help
- ✔ How can the authority automate the identification of families eligible for financial support



Requirement

- ✔ Ingestion of 9 data sources to achieve 360-degree view of child/family (Northgate, Mosaic, Worklessness and Financial Exclusion Spreadsheet)
- ✔ Automated metric driven decision of families entitled to support



Outcome

- ✔ Removing time to complete manual calculations
- ✔ Immediate visualisation of family's entitled to funding
- ✔ Responsive Lifetime view of a resident

Building Safety Bill

Question – Are buildings safe?

Background

- ✔ The Grenfell Tragedy began when a broken refrigerator that ignited exposed gas pipes and flammable building materials.
- ✔ Fire Safety consultants had been called to the building to assess the exposure of gas pipes
- ✔ Recommendations were made to remove the cladding



Question

- ✔ Buildings safety legislation
- ✔ Fire safety Assessment's determine what alterations are required to meet standards
- ✔ Question, "170 buildings over 18 meters tall – are they fire safe?"



Outcome

- ✔ Fire assessments carried out on these buildings are being monitored in a single location
- ✔ Remedial action is tracked through to completion
- ✔ Visual alerts for buildings that aren't compliant

Fire Safety

(Segway from buildings and assets and fire safety)



Kent Fire &
Rescue Service

Kent Fire Rescue Service

- ✓ Full scale transformation programme to improve a range of areas within Kent FRS.
- ✓ The program focused on replacing legacy applications
- ✓ Buildings with the region are being assessed in field with remote devices
- ✓ single version of the truth determines which buildings require safety alterations.
- ✓ Risk information team to identify candidate sites for repair etc
- ✓ The future looks like protecting the most vulnerable residents with individualised action plans



West Midlands Fire Services

- ✓ Take the research on savings provided to the community and demonstrate application against public data sets
- ✓ Public data to support population – geographical boundaries
- ✓ Assumptions made around property size types and value based on public sources
- ✓ Based on West Midlands Fire Service region
- ✓ Prototype with published open data

“

The effective **integration** of **physical, digital** and **human** systems in the built environment to deliver **sustainable, prosperous** and **inclusive** future for its citizens.”

Phil Loach

Chief Fire Officer, West Midlands Fire Authority

Asking The Question – Approach to Discovery



- ✓ **The challenge:** Applying context in search of a single view
- ✓ Wrong questions
- ✓ Single view can drive inefficient data collection
- ✓ Search for actionable insights
- ✓ Answer the question



Approach to Discovery

- ✓ Pick a start point
- ✓ Prioritise technology agnostic challenges throughout organisational hierarchy
- ✓ Plan for an incremental outcome driven approach to delivery

Asking the Question - Health Trusts & ICS

(Segway from supporting the lives of individuals in Fire service to Health)

Pick a start point

- ✓ Improving the care of constituents across the Wirral region

Prioritise technology agnostic challenges

- ✓ Discovery across departments and seniority of participants
- ✓ 10+ potential use cases
- ✓ Patient discharge regarded as high priority

Plan for incremental delivery

- ✓ Patient pathways from referral, through hospital, to discharge
- ✓ Data from five organization's
- ✓ Predicting care needs to facilitate discharge
- ✓ We are now working to expand the solution across 8 ICPs. The outcome could set the standard and approach for the rest of the region



“

To demonstrate to the wider Cheshire and Merseyside SCP, how the area of Wirral can leverage a **Modern Data Platform** which captures a 360-degree view of their local constituents that can be accessed by local Health and Government bodies to **provide better services**

Paul Chanley
Digital Lead, Wirral ICP

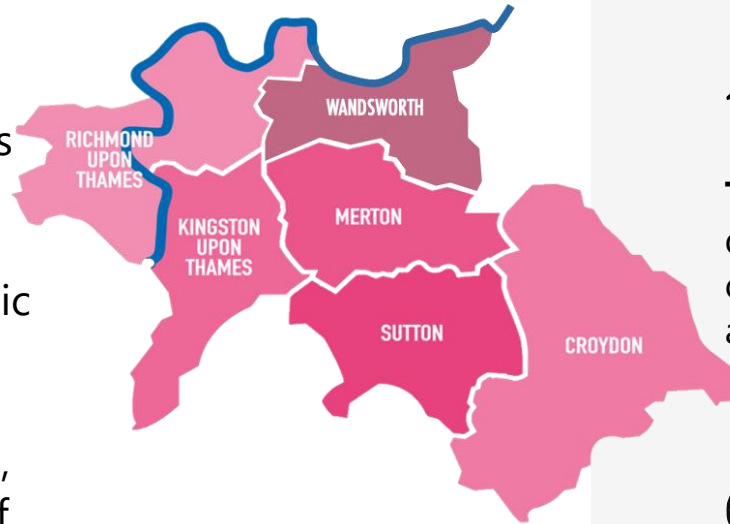


SLP

South London Partnership - IoT

The South London Partnership is a cross-political party sub-regional collaboration of five London boroughs: Croydon, Kingston upon Thames, Merton, Richmond upon Thames and Sutton.

Granted an award of £4 million to run IoT trials over 3.5 years across the 5 council boundaries, to “pilot and research” ways to generate economic growth, support local businesses and help people live better, healthier lives... The money originates from the retention of business rates, with the City of London acting as the holder of the budget on behalf of London Councils. SLP’s mission: “Bringing together technology and places that address challenges in our communities.



Outcomes



3 Lives Saved - Ambulance staff who attended the scene credited the quick response to the detection of lack of movement with saving the resident’s life



Tackling air pollution - Using three different data sources, air quality can be cross referenced with vehicle traffic levels and MET Office weather conditions



Flooding Prevention - Early warning identification and prediction of flooding from rain and surface water levels



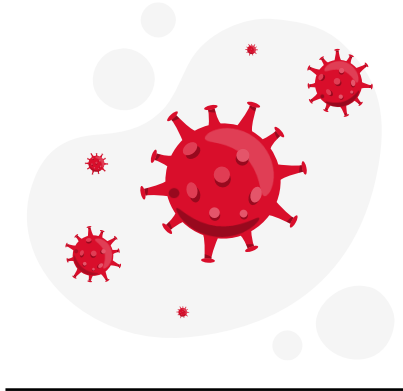
GOALS

Goals for the Programme

The Memorandum of Understanding states that the projects must be **problem focused** and support one of the following objectives:



Promoting **economic growth** within the SLP Boroughs



Supporting SLP's response to Covid-19 and **Covid-19 recovery**



Supporting SLP's response to the **Climate Emergency**



What are the **Principles** of SLP's Programme?



Citizen Control

By default, we will not store personal data



Build Public Trust

By default, we will work in the open



Secure & Private

We will design in security and privacy from the beginning



Sharing Information

By default, we will share data



Data Ownership

We will only engage in solutions where the data captured is publicly owned



Partner Selection

We will only work with partners who will sign up to these principles

www.innovateproject.org/transparency-principles/



This is a Data project not a Technology one

Start with a problem, not a technology



Money was allocated on the basis of use case submissions from the boroughs

Each use case must:

1. Have a clear objective that the project will either meet or contribute to
2. Have specific questions that the data from the project will answer
3. Comply with the principles of the project
4. Have internal champions from the services that will benefit from the data



Sensor Suppliers to SLP's boroughs

((o)) | 2900+ Sensors deployed and increasing daily



The Outcomes

Numerous positive interventions



Four lives saved

Ambulance staff who attended one scene credited the quick response to the detection of lack of movement with saving the resident's life – the first since the initial sensor implementation.



Tackling air pollution

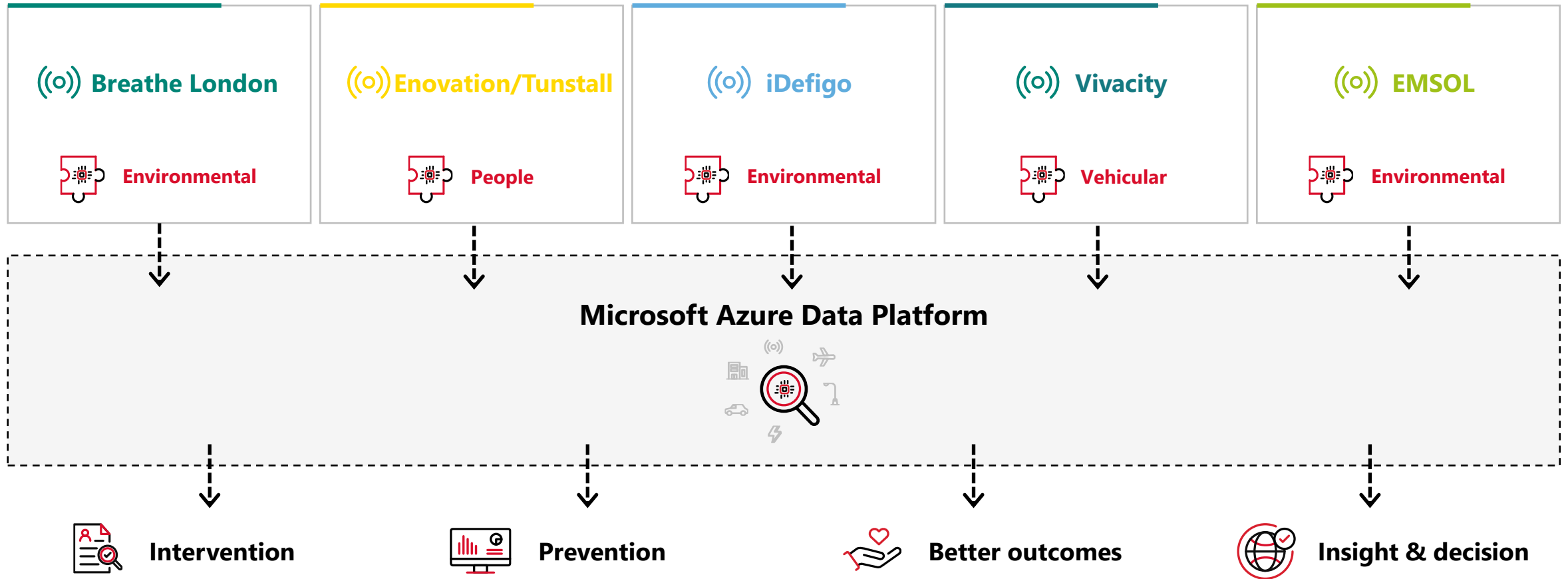
Using three different data sources, air quality can be cross referenced with vehicle traffic levels and MET Office weather conditions.



Flooding prevention

Early warning identification and prediction of flooding from rain and surface water levels.

Delivering SLP's Platform





3 | AIR QUALITY AND TRAFFIC COMPARISON



SLICERS



DAILY

HOURLY

TABLE

DATE

20/06/2022

17/07/2022

HOUR

0

23



Weekday

Weekend

CLASS

Pedestrians



LSOA

merton



SITE NAME

Search



POSTALCODE

Search



BL Sensors

16

PM2.5 (µg/m3)

7.92

NO2 (µg/m3)

43.17

Vivacity Sensors

32

Counts

810K



1.9M



126.5K



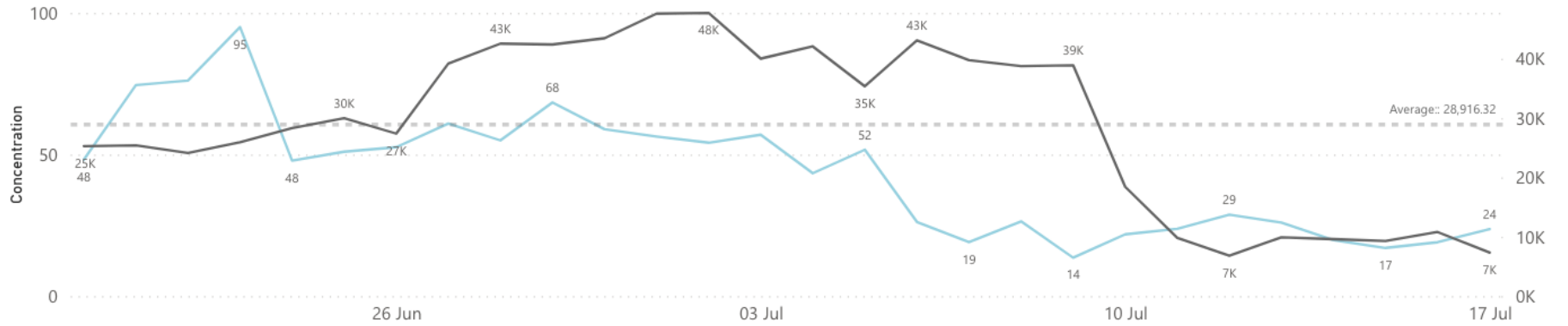
809.7K

NO2

PM2.5

Concentration of NO2 and PM2.5 vs. Traffic Counts Over Time

● NO2 ● # Counts





3 | AIR QUALITY AND TRAFFIC COMPARISON



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DATE

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LSOA

merton



SITE NAME

Search



POSTALCODE

Search

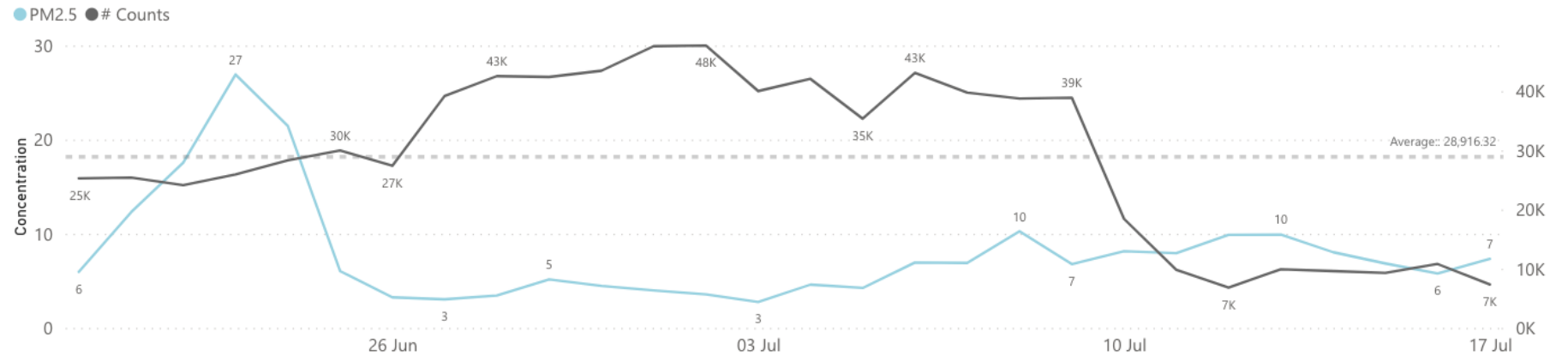


# BL Sensors	PM2.5 (µg/m3)	NO2 (µg/m3)	# Vivacity Sensors	# Counts			
16	7.92	43.17	32	810K	1.9M	126.5K	809.7K

NO2

PM2.5

Concentration of NO2 and PM2.5 vs. Traffic Counts Over Time





SLICER PANEL



Date

01/07/2022 23/12/2022

Hour

0 23



Weekday

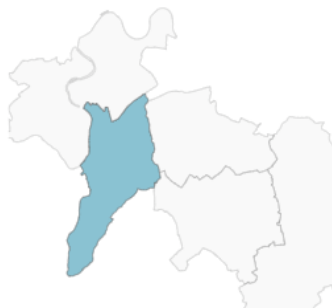
Weekend

Site Name

All

LSOA

kingston



Sensors

186

Fly Tipping Events

8.96K

Daily Average Events

140

Monthly Average Events

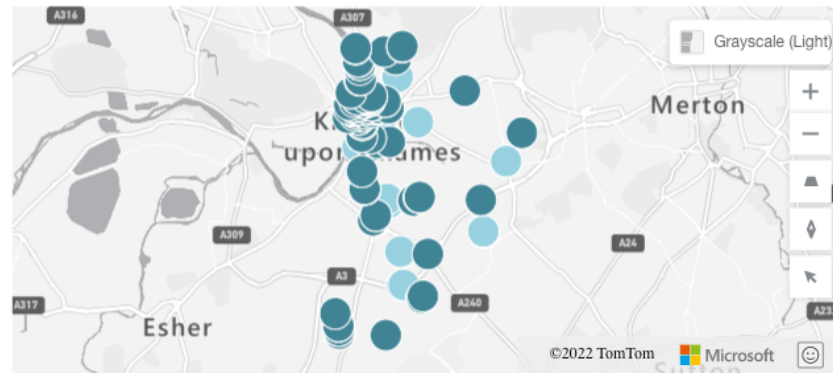
2985

Highest # of Events in

Normandy House

Multiple sensors selected

Source Idefigo Vivacity



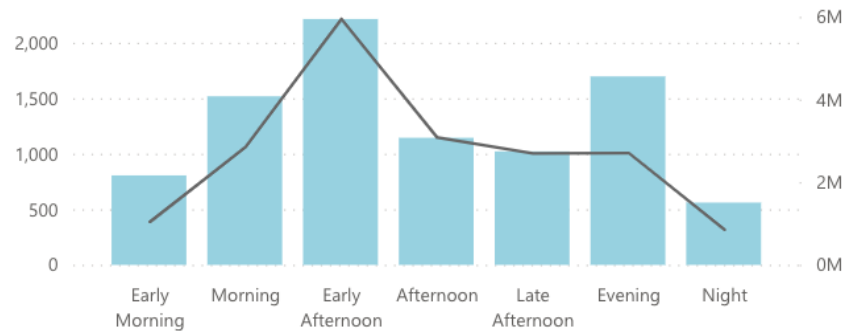
Time of the Day

Hourly

30 min

15 min

Fly Tipping Events Traffic Movements



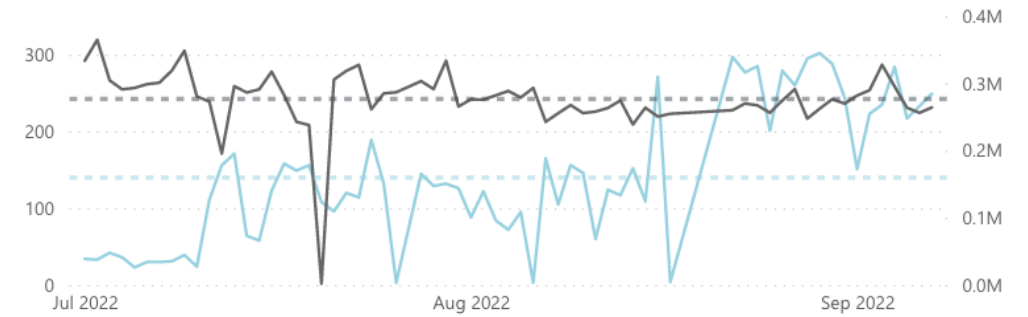
Traffic Movements

Rainfall

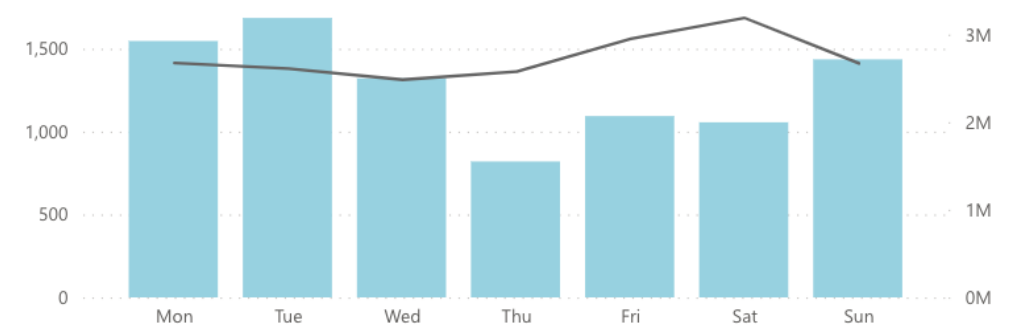
Wind Speed (m/s)

Fly Tipping Over Time

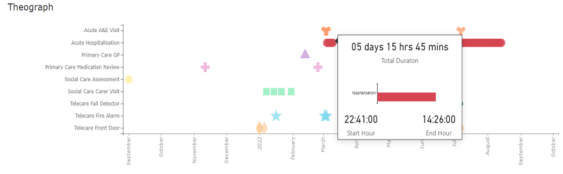
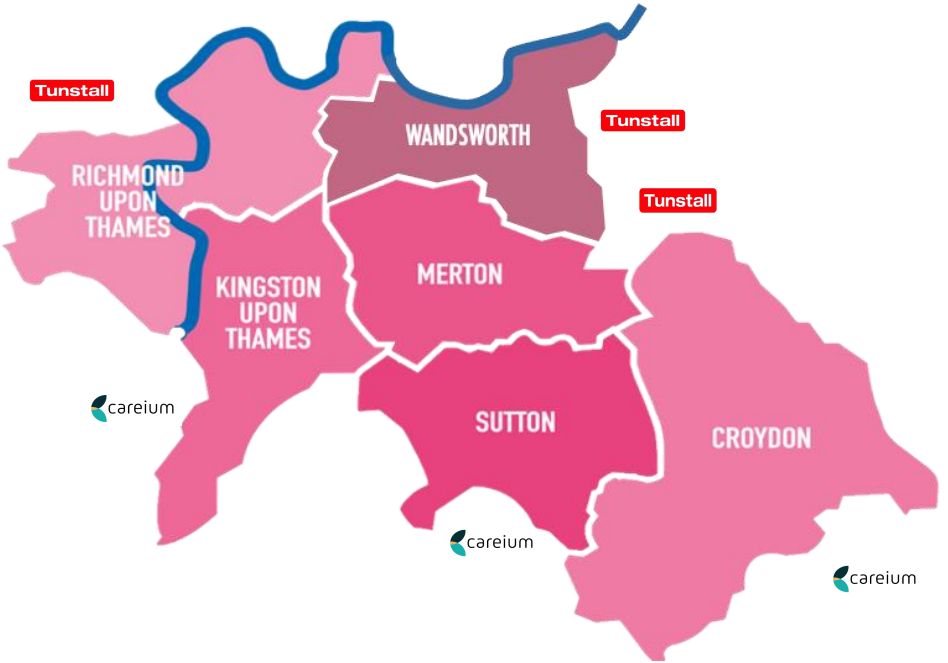
Fly Tipping Events Traffic Movements



Fly Tipping Events Traffic Movements



Vulnerable Resident: SLP's Platform

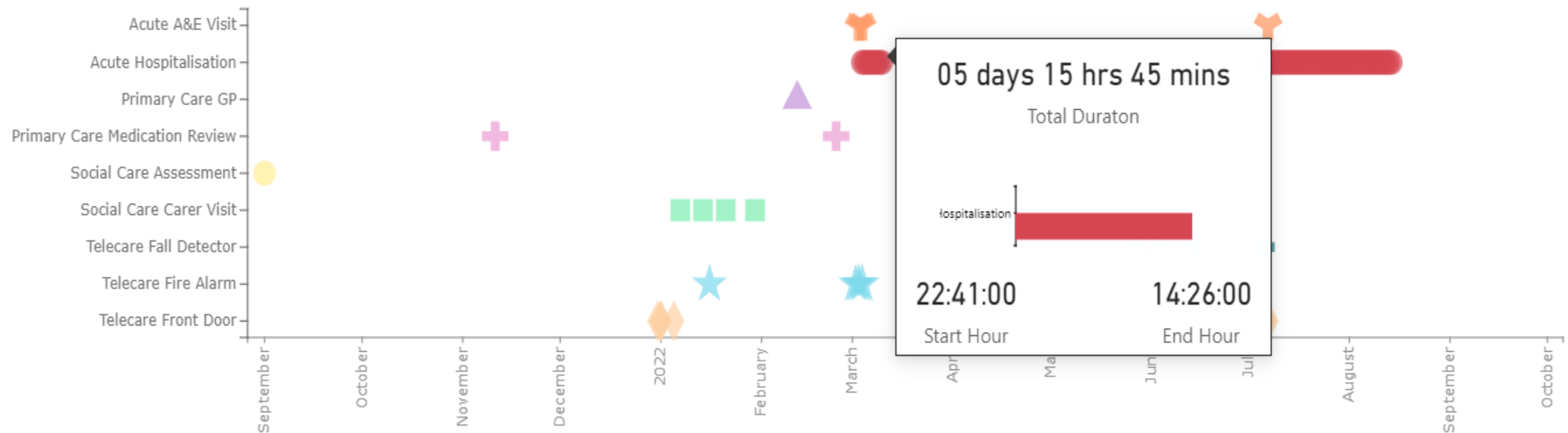




Taking the Programme to the next level

How can we predict a vulnerable residents decline:

Theograph



Session Summary

Systems, Spreadsheets and Sticky Plasters

- ✓ **The Landscape of Systems, Spreadsheets and Sticky Plasters is no longer a limiting Factor**
- ✓ **Common Technology Model**
- ✓ **Not Hitachi IP**
- ✓ **Open Standards, not siloed or closed**
- ✓ **£1BN Annual Microsoft Investment**
- ✓ **A strong data strategy is built on asking the right question**
- ✓ **Actionable Insights**



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