

20 April 2016

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London SE1 8UG

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E: [nhsi.enquiries@nhs.net](mailto:nhsi.enquiries@nhs.net)  
W: [improvement.nhs.uk](http://improvement.nhs.uk)

By email

Dear [REDACTED]

### **Request under the Freedom of Information Act 2000 (the “FOI Act”)**

I refer to your email of **18th March** in which you requested information under the FOI Act. Since 1 April 2016, Monitor and the NHS Trust Development Authority are operating as an integrated organisation known as NHS Improvement. For the purposes of this decision, NHS Improvement means Monitor.

### **Your request**

You made the following request:

*“The joint corporate report for the most recent meeting makes reference to a demonstration of the strategic information platform.*

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/508965/BM16\\_25\\_Joint\\_Corporate\\_report.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/508965/BM16_25_Joint_Corporate_report.pdf)

*Can I get a copy of the demonstration please (slides, papers, whatever was used).”*

### **Decision**

NHS Improvement holds the information that you have requested.

NHS Improvement has decided to withhold some of the information that it holds on the basis of the applicability of the exemptions in section 40 and 41 of the FOI Act, as explained in detail below.

Where we are able to disclose information to you, it is provided in the attached pdf document.

It may assist you to know that the demonstration given to Technology Assurance Committee was a technical demonstration, aimed primarily at showcasing the vendor software that will be used to extract data from strategic information platform (SIP) and how SIP will benefit future NHS Improvement projects.

## **Section 40 – personal information**

Some of the redacted information is being withheld from disclosure under section 40(2) of the FOI Act on the grounds that it is personal data and that the first condition of section 40(3)(a) is satisfied, namely, that disclosure would amount to a breach of the data protection principles (personal data should be processed fairly and lawfully).

This is because the redacted information is personal data of NHS Improvement employees, who would have a reasonable expectation that their personal information would be withheld. This is an absolute exemption and consideration of the public interest in disclosure is not required.

## **Section 41 – information provided in confidence**

Under section 41 of the FOI Act, information is exempt if it was obtained by NHS Improvement from any other person and disclosure of the information to the public would constitute a breach of confidence actionable by that other person.

The slides include Hospital Episodes Statistics data, which was provided in confidence to NHS Improvement by the Health and Social Care Information Centre; and analysis of that data. That information was provided in circumstances giving rise to an obligation of confidence, and disclosing the information to the public without consent would amount to an unauthorised use of the information. Disclosing to the public would be a breach of confidence, actionable by the Health and Social Care Information Centre.

Section 41 is an absolute exemption and does not require the application of the public interest test under section 2(2) of the FOI Act. However, in considering whether (in an action for breach of confidence) a confidence should be upheld, a court will have regard to whether the public interest lies in favour of disclosure. Where a duty of confidence exists, there is a strong public interest in favour of maintaining that confidence. In the present circumstances, NHS Improvement does not consider that there is a strong public interest in disregarding the duty of confidence owed to the Health and Social Care Information Centre.

## **Review rights**

If you consider that your request for information has not been properly handled or if you are otherwise dissatisfied with the outcome of your request, you can try to resolve this informally with the person who dealt with your request. If you remain dissatisfied, you may seek an internal review within NHS Improvement of the issue or the decision. A senior member of NHS Improvement's staff, who has not previously been involved with your request, will undertake that review.

If you are dissatisfied with the outcome of any internal review, you may complain to the Information Commissioner for a decision on whether your request for information has been dealt with in accordance with the FOI Act.

A request for an internal review should be submitted in writing to FOI Request Reviews, NHS Improvement, Wellington House, 133-155 Waterloo Road, London SE1 8UG or by email to [nhsi.foi@nhs.net](mailto:nhsi.foi@nhs.net).

### **Publication**

Please note that this letter and the attached information will shortly be published on our website. This is because information disclosed in accordance with the FOI Act is disclosed to the public at large. We will, of course, remove your personal information (e.g. your name and contact details) from the version of the letter published on our website to protect your personal information from general disclosure.

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'Derek Cox', is positioned above the printed name and title.

**Derek Cox**  
Head of Governance and Assurance



**Improvement**

**Information Services  
SIP Capability and  
Benefits Delivered**

March 2016



# Agenda

<ul style="list-style-type: none"> <li>Introduction</li> </ul>		5 min	10:55 ~ 11:00
<ul style="list-style-type: none"> <li>Reference Cost Browser</li> </ul>	<ul style="list-style-type: none"> <li>Tariff Calculation Manager</li> </ul>	10 min	11:00 ~ 11:10
<ul style="list-style-type: none"> <li>HES Browser</li> </ul>	<ul style="list-style-type: none"> <li>Senior Information Analyst (on behalf of [redacted])</li> </ul>		
<ul style="list-style-type: none"> <li>Geospatial Analytics</li> </ul>	<ul style="list-style-type: none"> <li>Economic Adviser</li> </ul>		
<ul style="list-style-type: none"> <li>System Performance Dashboard</li> </ul>	<ul style="list-style-type: none"> <li>Senior Information Analyst (on behalf of [redacted])</li> <li>Senior Economist</li> </ul>	10 min	11:10 ~ 11:20
<ul style="list-style-type: none"> <li>Simulation – moving care into community settings</li> </ul>	<ul style="list-style-type: none"> <li>Economist</li> </ul>	10 min	11:20 ~ 11:30
<ul style="list-style-type: none"> <li>LHEIU – A&amp;E volume analysis</li> </ul>	<ul style="list-style-type: none"> <li>Manager LHEIU</li> </ul>	10 min	11:30 ~ 11:40
<ul style="list-style-type: none"> <li>Strategic Tariff</li> </ul>	<ul style="list-style-type: none"> <li>Currency Integration and Tariff Design Lead</li> </ul>	10 min	11:40 ~ 11:50
<ul style="list-style-type: none"> <li>MIST – data loading automation</li> </ul>	<ul style="list-style-type: none"> <li>Data Architect</li> </ul>	5 min	11:50 ~ 11:55
<ul style="list-style-type: none"> <li>Wrap-up</li> </ul>		5 min	11:55 ~ 12:00

# Purpose and introduction

## The purpose of this session

- Demonstrate some of the benefits the SIP programme has delivered to Monitor to date with a number of examples:
  - Reference Cost Browser
  - HES Browser with Geospatial Analytics
  - System Performance Dashboard
  - Simulation – moving care into community settings
  - LHEIU – A&E volume analysis
  - Strategic Tariff

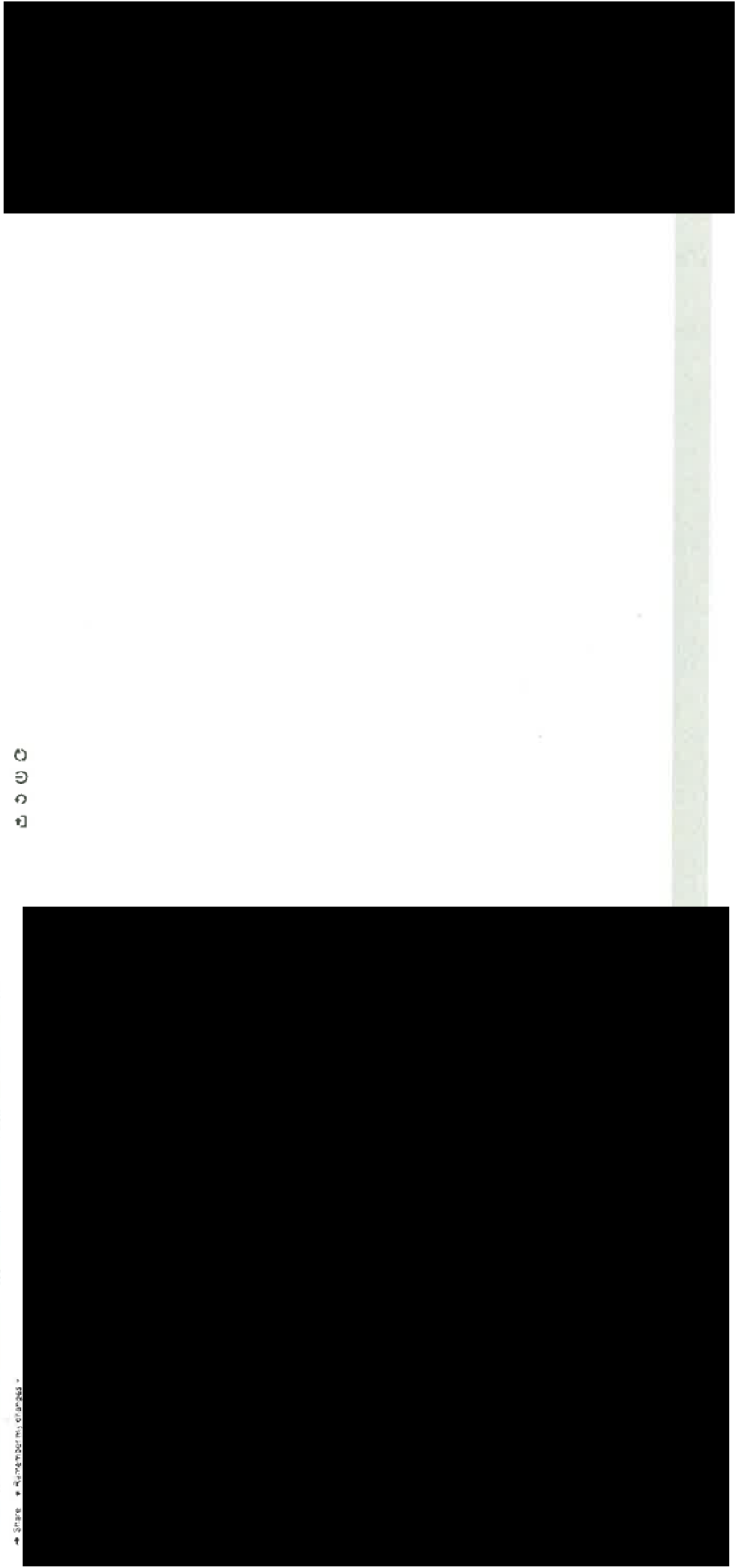
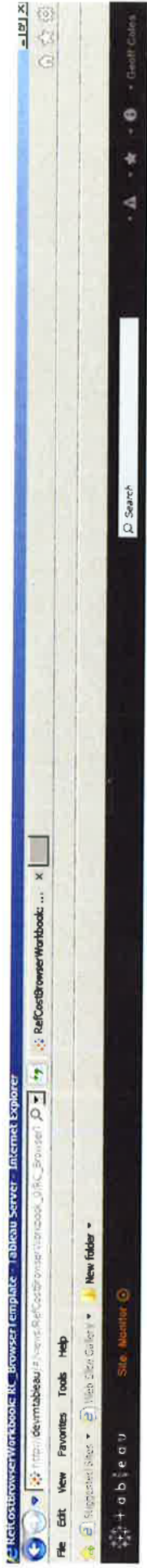
## Introduction

- For some solutions / products, a short video clip is to be played to show key features
- Each product owner (or a product team member) will cover:
  - the business problem addressed
  - key features of the solution
  - the target users
  - benefits realised / to be realised

## Reference Cost Browser

[REDACTED] Tariff Calculation Manager

# Reference Cost Browser – video clip





## **HES Browser and Geospatial Analytics**

**[REDACTED]** Senior Information Analyst  
(on behalf of **[REDACTED]** CCD Economic Adviser)

AE APC OP Map Help

### Hospital Episode Statistics



ABE

APC

OP

Map

Help

Minimum Count of Spells:  4%

Year of Discharge: FY 2015

Month of Discharge: [v]

Provider Type: [v]

Provider: [v]

Commissioner Type: [v]

Commissioner: [v]

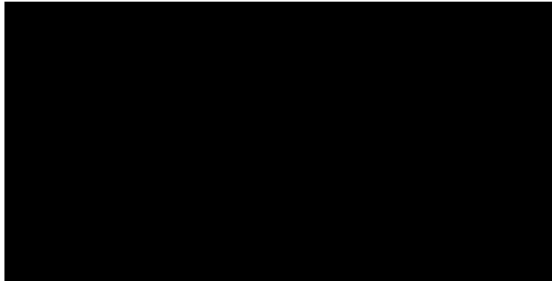
Patient Classification: [v]

Age Group: [v]

Gender: [v]

HRG Sub Chapter Code: [v]

HRG Code: [v]



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Comments (0)

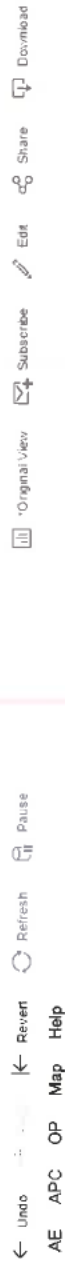
[Add a comment](#)

Tags

[Edit Tags](#)

# HES Browser – standard view

- A system to provide analysts easy access to large Hospital Episode Statistics (HES) data sets with built-in report structures to enable self-service BI (Business Intelligence)



## Hospital Episode Statistics



Year of Discharge: FY 2015

Month of Discharge: (All)

Provider Type: (All)

Provider: (Multiple values)

Commissioner Type: [Redacted]

Commissioner: (All)

Patient Classification: (All)

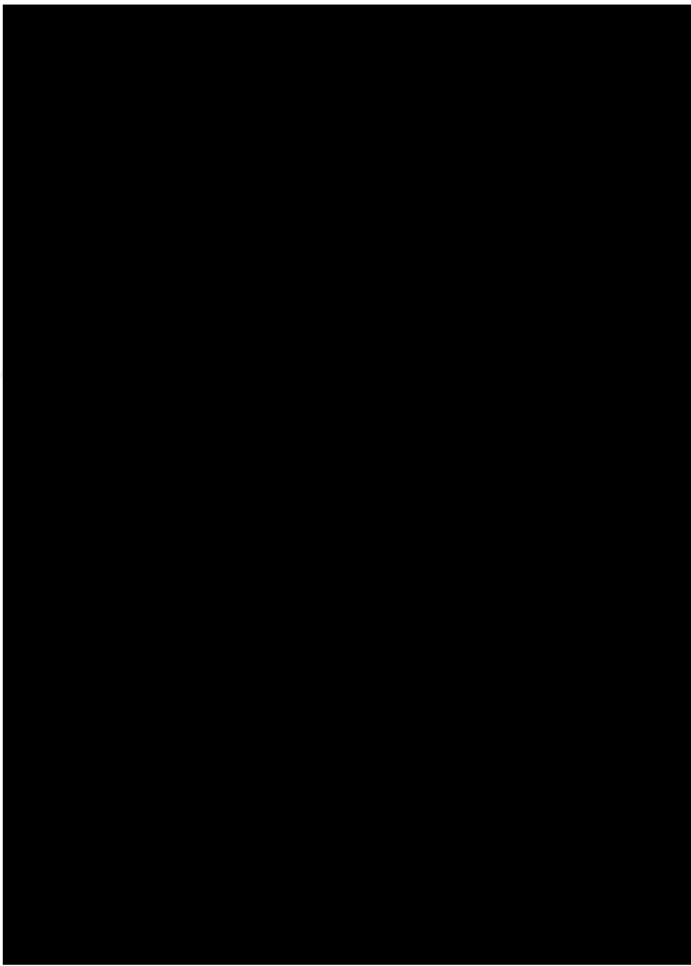
Age Group: (All)

Gender: (All)

HRG Sub Chapter Code: (All)

HRG Code: (All)

Minimum Count of Spells: 6



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# HES Browser – data visualisation on map

- This lets analysts quickly see patterns in these very large data sets, enabling rapid exploratory analysis, with help of visualisation, e.g. maps

The screenshot displays the HES Browser interface. At the top, there is a navigation bar with icons for 'Undo', 'Revert', 'Refresh', 'Pause', 'Original View', 'Subscribe', 'Edit', 'Share', and 'Download'. Below this, a search bar contains 'A&E', and buttons for 'APC', 'OP', 'Map', and 'Help' are visible. The main content area is titled 'Hospital Episode Statistics' and features a map of the United Kingdom. The map is partially obscured by a large black redaction box. To the right of the map, there are several dropdown menus and a slider: 'Provider Type' (MHS Trust), 'Provider Name' ([All]), 'Year of Discharge' (FY 2015), 'Patient Classification' (Ordinary admission), 'Admission Method Group' (Non Elective), and 'Spell Count' (3,650 to 283,113). A small search box in the top left corner of the map area contains the text 'item name'.

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# HES Browser – geospatial analytics

- This more advanced geospatial analytics allows analysts to run 'what-if' analyses of catchment areas via parameters like diving time

Year of Discharge 2014

Trust Sites

Trust Isochrone

Provider Selection

NHS Improvement

A&E APC OP Map Help

Undo Revert Refresh Pause

A&E APC Map Help HRG

Hospital Episode Statistics

Ireland Netherian Belgium

© OpenStreetMap contributors

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# HES Browser – data dictionary and data quality info

Standard reference and data quality information enable accurate interpretation of the dozens of dimensions available for analysis

[←](#) [Undoc](#) [↶](#) [Revert](#) [↻](#) [Refresh](#) [⏸](#) [Pause](#) [📄](#) [Original View](#) [✂](#) [Subscribe](#) [✎](#) [Edit](#) [🔗](#) [Share](#) [📄](#) [Download](#)

[AE](#) [APC](#) [OP](#) [Map](#) [Help](#)

## Hospital Episode Statistics

[A&E](#)

[APC](#)

[OP](#)

[Map](#)

[Help](#)

Select Field Description

Field	Description	Source Field
Provider code	This field gives a combination of 3-character and 5-character provider codes. Proccodet enables you to view a combined list of codes and related data from: 1. Primary care trusts (3 character beginning with 5) 2. NHS trusts (3 character beginning with R. Trusts with associated treatment centres will have an 'X' following their code) 3. NHS trust providers (5 character listed separately to the NHS trusts) 4. Independent character beginning with N) For 3-character codes only see proccode (provider code - 3 character) and for 5-character codes only see proccode (provider code	PROCCODET

Category	Availability	AE	APC	OP
Organisation	2003-04 onwards	True	True	True

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# HES Browser – self-service visual analysis

Through an intuitive drag and drop web user interface, analysts can develop their own reports, including visualisations, dynamic calculations and custom filters

The screenshot displays the HES Browser interface. At the top, there is a navigation bar with the text 'HES APC Spells' and a 'Save As' button. Below this is a toolbar with icons for 'Undo', 'Redo', 'Refresh', and 'Done'. The main workspace is currently empty, with a large black redaction box covering the central area. On the right side, there is a sidebar with several sections:

- Filters:** Includes 'YEAR(Discharge Date)' and 'Provider Type NHS...'. Below this are 'Marks' and 'Level' options.
- Dimensions:** A list of categories including 'Clinical', 'Geography', 'Organisation', 'CCG', 'Commissioner', 'Commissioner Type Choice', 'Clinical CCG', 'Primary Care Trust', 'Provider', 'Frontier Type', 'Provider Code', 'Provider', 'Treatment Site Code', 'Treatment Site', and 'Patient'.
- Measures:** A list of metrics including 'Period of Care', 'Admission Date Fiscal Month', 'Admission Date Fiscal Year', 'Admission Date Fiscal Year Name', 'Admission Method', 'Admission Source', 'Discharge Date Fiscal Month', 'Discharge Date Fiscal Year', 'Discharge Date Fiscal Year Name', 'Discharge Destination', 'Discharge Method', and 'System'.
- Parameters:** A list of parameters including 'Commissioner Type' and 'Dimension Selector'.

At the bottom of the interface, there is a footer with the text 'Sheet 1 | 12'.

# HES Browser – CCD product sponsor / owner feedback

“We are happy that the HES Browser delivers the functionality to replace an external supplier, i.e. Dr Foster’s PPM and HMM tools.”

“The main benefits, beyond achieving a practically like-for-like replacement, is that the Tableau-based tool allows greater flexibility in terms of querying the data. The tool can also be further customised to user requirements as it is internally developed.”


- The internal tool also means that users can gain a more in-depth understanding of the data itself, including the ways in which it is ‘cleaned’, grouped (HRGs), and otherwise manipulated (e.g. spells) before being loaded in the tool.
- There are some additional refinements and tweaks that will need to be made to make the tool 100% customised. These will be handled as business-as-usual requests.
- There is also potential to expand the map-based and graphing functions in the tools. Development of these is ongoing.
- A data comparison between HES Browser and external tools is ongoing as part of the user acceptance process.
- A process of concurrent running of HES Browser and an external supplier is expected to continue into the next financial year (16/17) to ensure that the tool is fully embedded into CCD’s work and that the users are confident in its contents.



## System Performance Dashboard

██████████ Senior Information Analyst  
(on behalf of ██████████ Senior Economist)

# System Performance Dashboard - video clip



Select Region (All)

Select Sector Type (All)

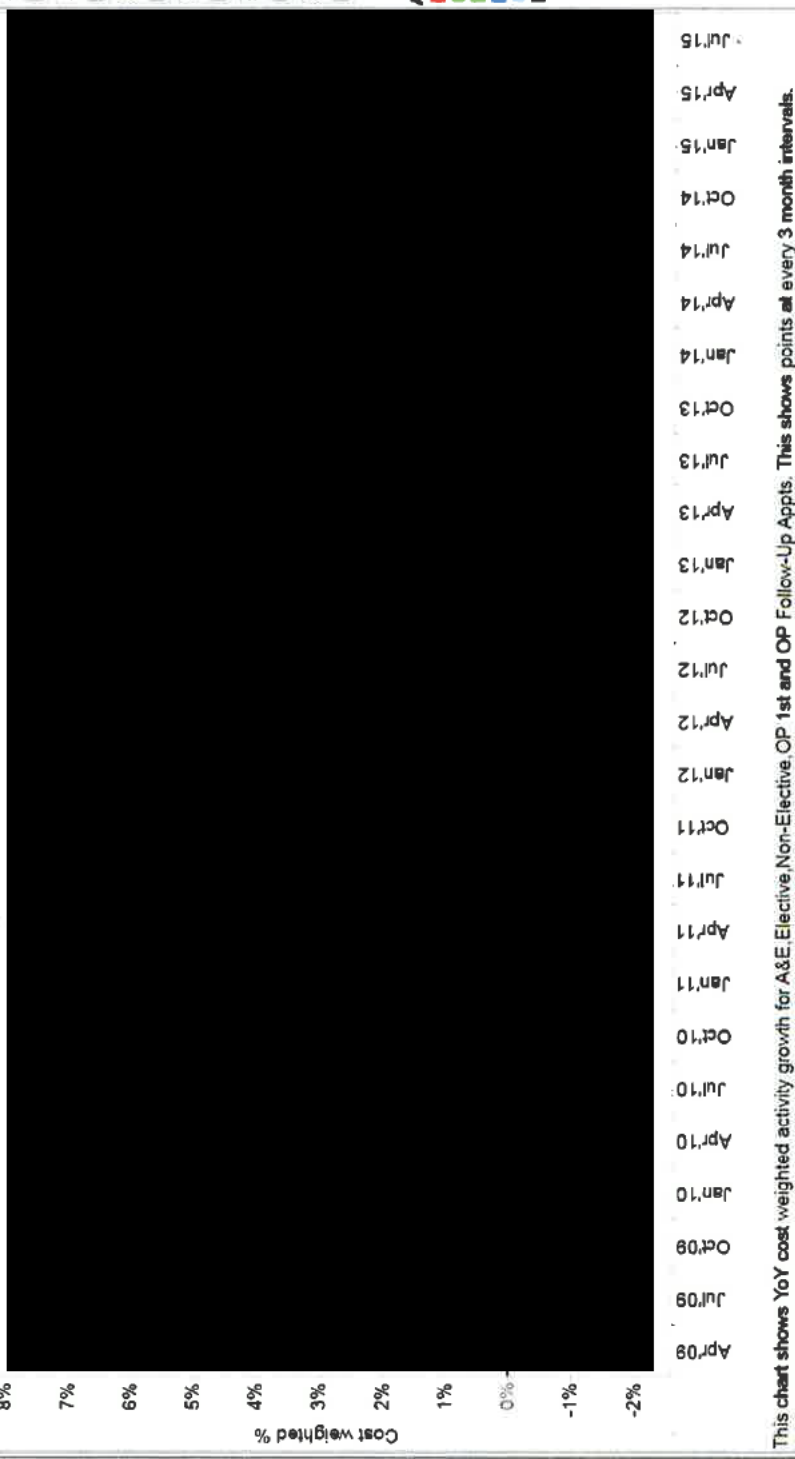
Select Provider Status (All)

Select LHE (All)

Select STP (All)

Select Provider Name (All)

## Components of Cost Weighted Activity



**Activity Type**

- A&E
- Elective
- Non-Elective
- OP 1stAppt
- OP Follow-Up
- Total

**Cost Weighted Activity - Sprint 2**

Pos: 1/1000

Size: 100%

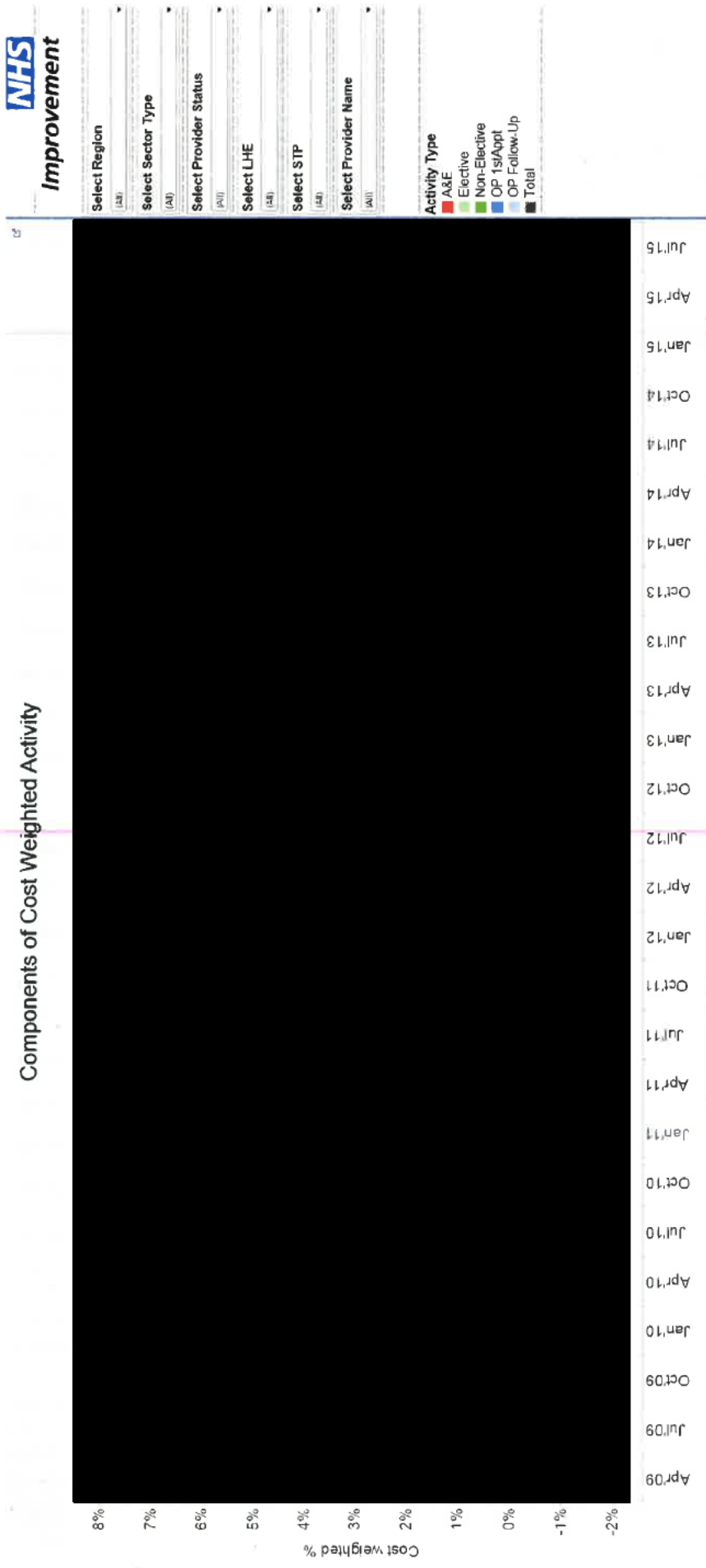
Dashboard | Sheet 8 | Cost Weighted Activity - Sprint 2

5% marks | 1 row by 25 columns | 50% of Measure Values: 100% | Highlighting on Measure Name

This chart shows YoY cost weighted activity growth for A&E, Elective, Non-Elective, OP 1st and OP Follow-Up Appts. This shows points at every 3 month intervals.

# System Performance Dashboard (1 of 4)

- An extension of system economics work which provides a high-level view of the system
- Mirrors the system economics quarterly packs, currently produced by Economics team
- Automates the current manual process of data acquisition and reporting



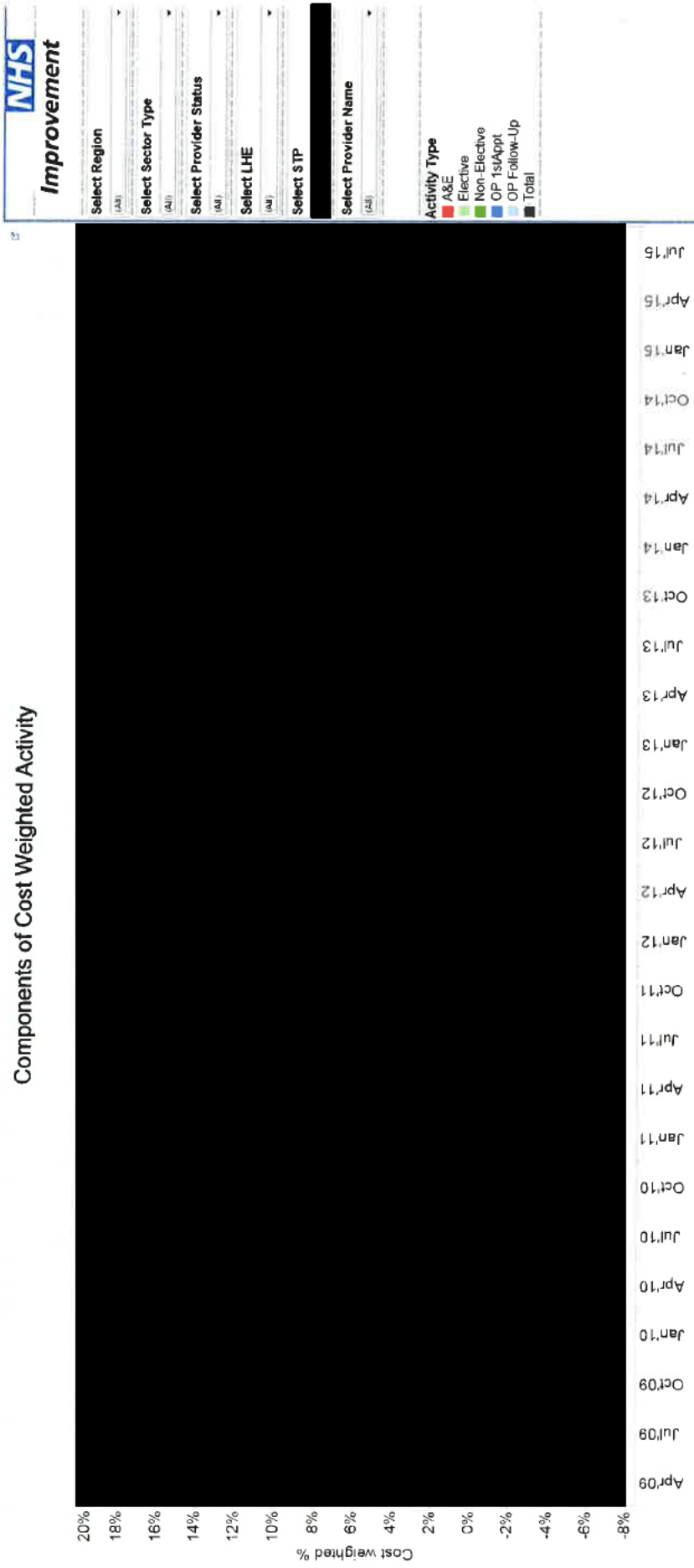
Cost-weighted activity – system-level view



Improvement

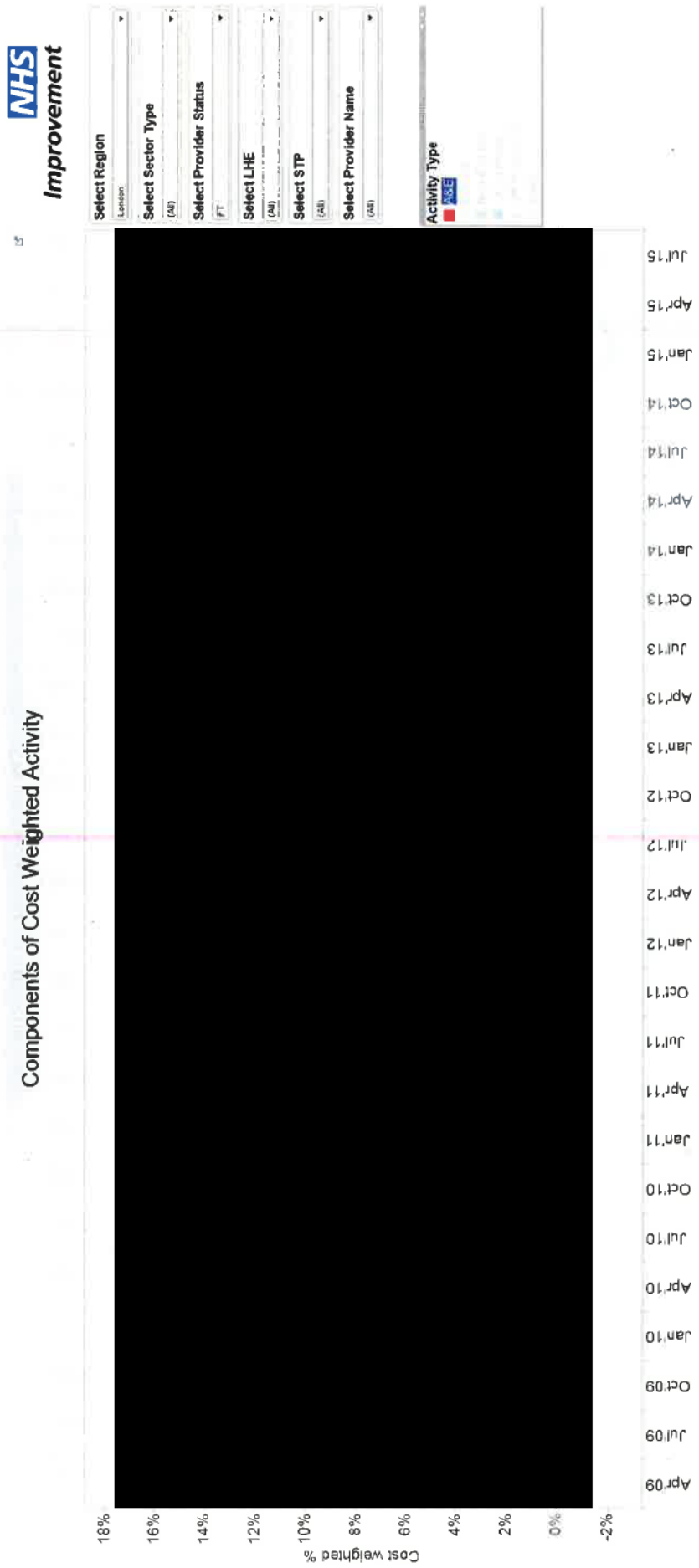
# System Performance Dashboard (2 of 4)

- This solution provides a way of diagnosing the problem, what is causing the system to perform the way it is performing
- Activity trends can be easily identified for Sustainability and Transformation Plan (STP) footprints to help with their planning activities for the Five Year Forward View vision



# System Performance Dashboard (3 of 4)

This solution allows users to interactively slice and dice data as well as further drill down into details, e.g. STP footprints, LHEs (Local Health Economies), providers, specific regions, types of providers.

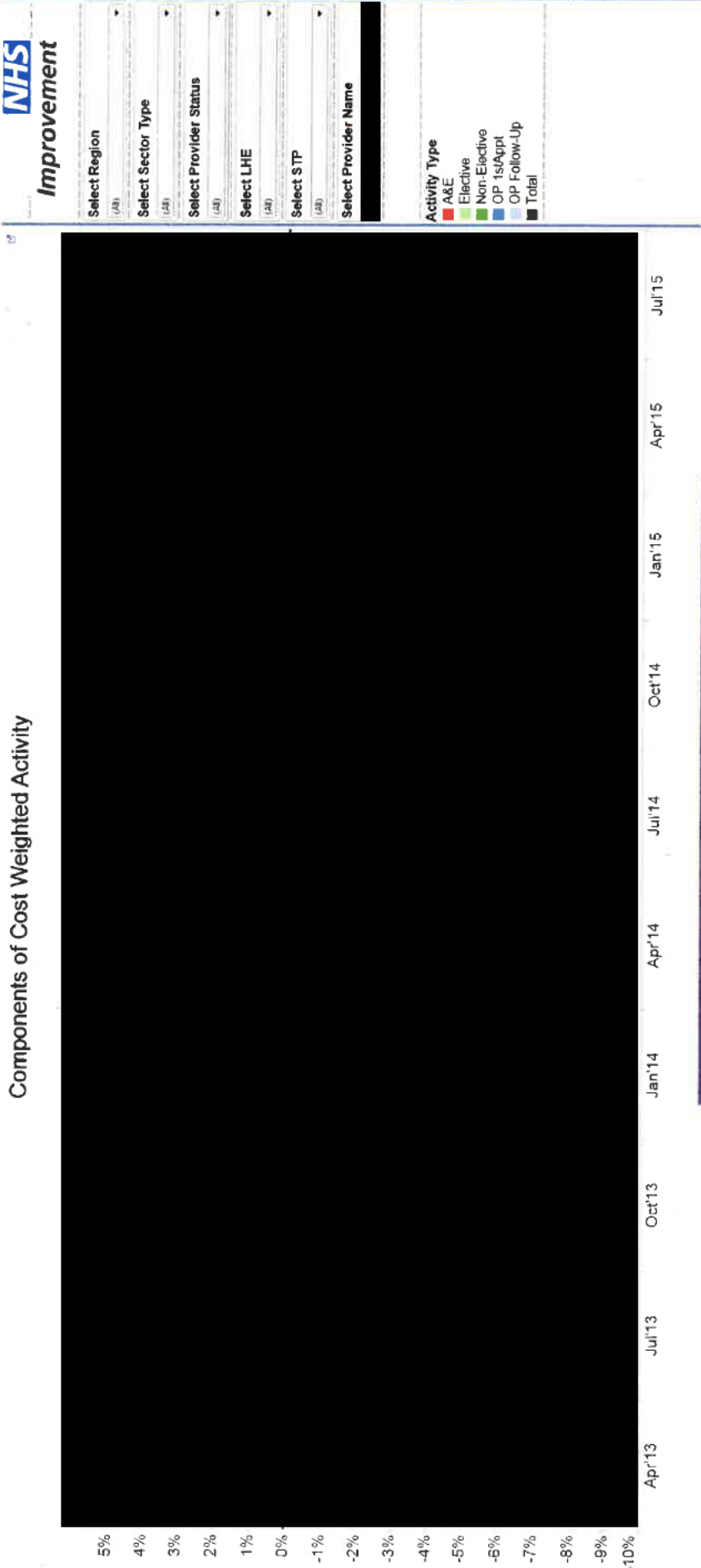


This chart shows YoY cost weighted activity growth for A&E, Elective, Non-Elective, OP 1st and OP Follow-Up Appts. This shows points at every 3 month intervals.

**Cost-weighted activity – regional-level view**

# System Performance Dashboard (4 of 4)

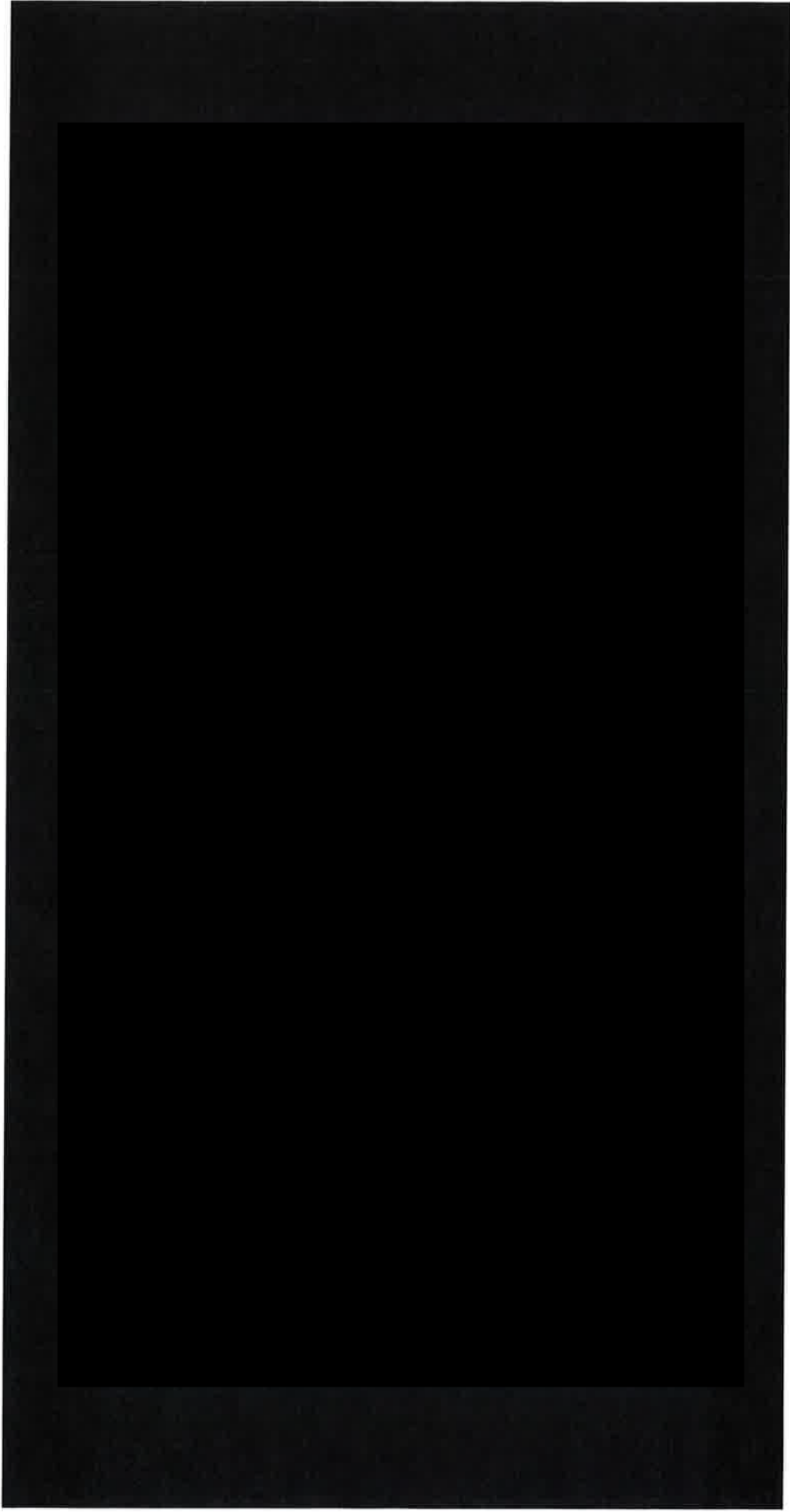
- The vision is to have a solution to help understand drivers behind the system performance
- The key drivers included now are 'Activity' and 'Input Cost' (workforce) which together make up productivity
- Financial data is to be included in future
- Potential to include Carter metrics in future



## Simulation – moving care into community settings

 Economist

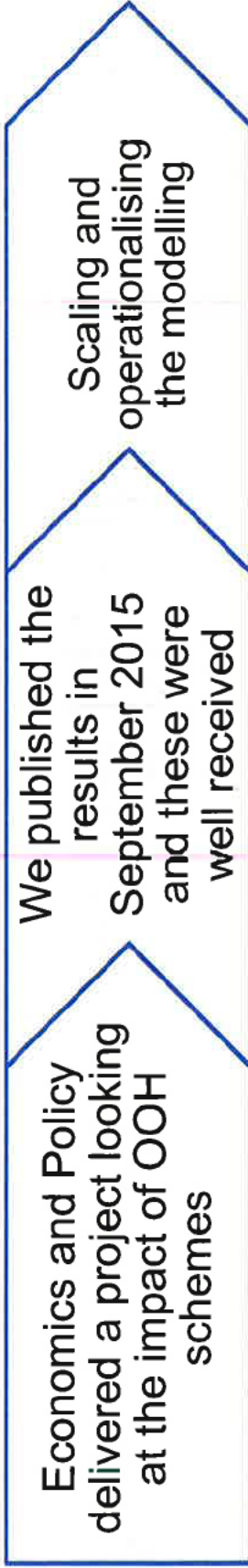
Simulation – video clip





# Simulation – overview

Why we were doing this work?



**We were asked:**  
“Under what circumstances does moving care from acute to out-of-hospital settings bring about financial benefits for the sector?”  
“How does the impact differ for different members of the sector?”

**Publications:**  
Included case studies, financial impacts, implementation considerations etc.

Meritor

**During publication:**  
**79%** of providers surveyed wanted Monitor to ‘Support NMC work through using this simulation model and the practical findings [from it and the report]’  
They ranked using the model in this way as the most important next step of this work.

## The key findings



# Simulation – data collection and preparation with Alteryx

## Making the modelling realistic

- Using real data (the lots we have) to model real patients
- Quickly able to explore the data and tailor our requests
- Quickly able to pull data for individual trusts and local health economies

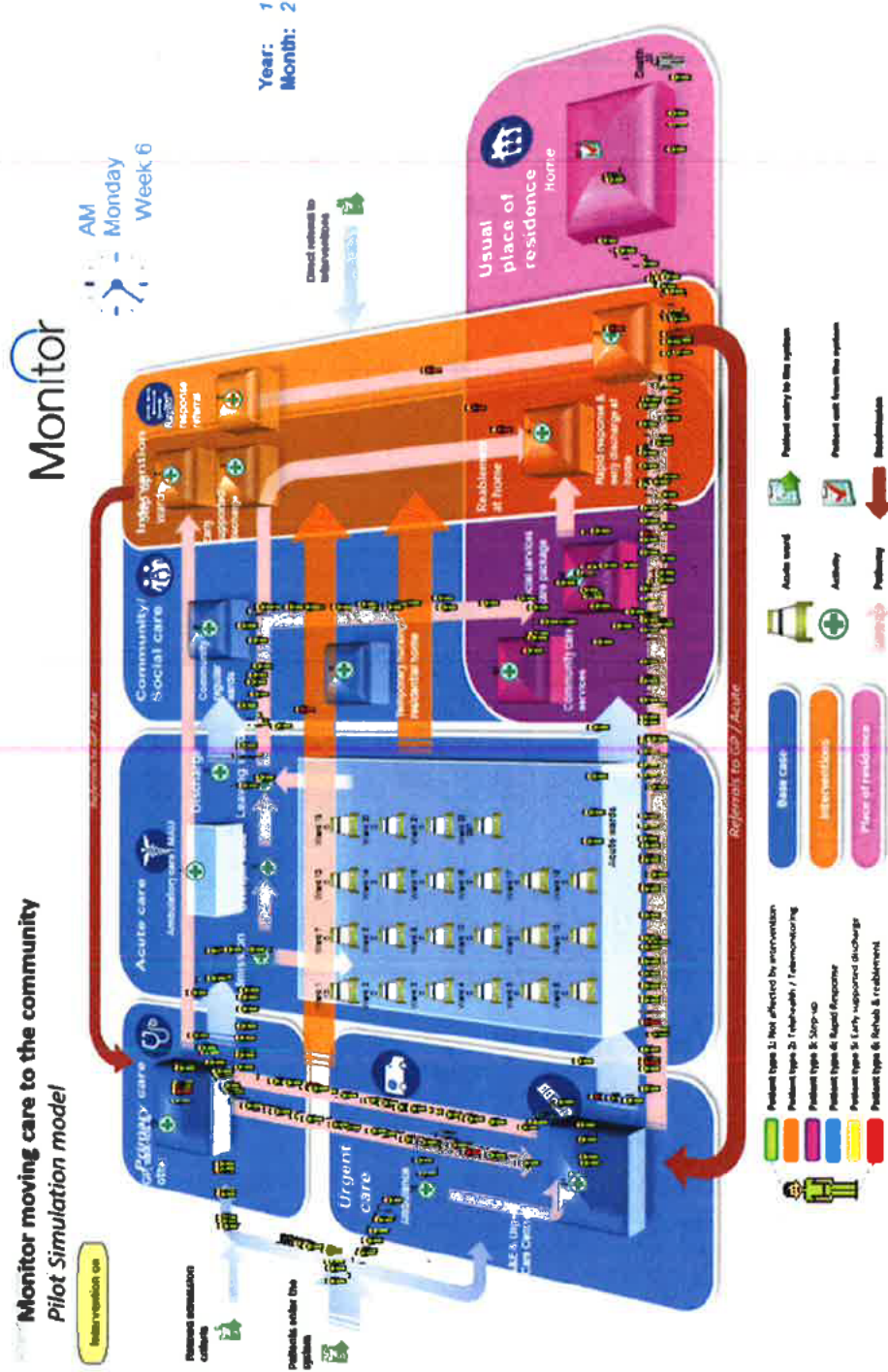
HES\_withoutfiltered\_allHFG.yamod.x



# Simulation – discrete event modelling with Simul8

## Modelling capacity and engaging audiences

- Modelling capacity in units leads to greater accuracy
- Inherently visual
- Useful for a variety of other future improvement and modelling work (A&E, etc.)



# Simulation – visualisation of model output with Tableau

- Outputs can be easily and clearly sent to stakeholders
- Allows stakeholders to view the detail (without being able to edit)
- Interactive and exploratory, e.g. comparing scenarios
- Explored with trusts and partners

## Contents

**Step 1. Select scenario**

**Step 2. Explore results**

### Costs savings

Scenario select: (DA)

Intervention combo: (AU)

Scenario name: [REDACTED]

**5 year totals:**

Acute cost reduction: [REDACTED]

Total savings over time: [REDACTED]

New community costs: [REDACTED]

Total savings breakdown by care setting: [REDACTED]

Total savings: [REDACTED]

Total saving breakdown by cost type: [REDACTED]

## **LHEIU – A&E volume analysis**

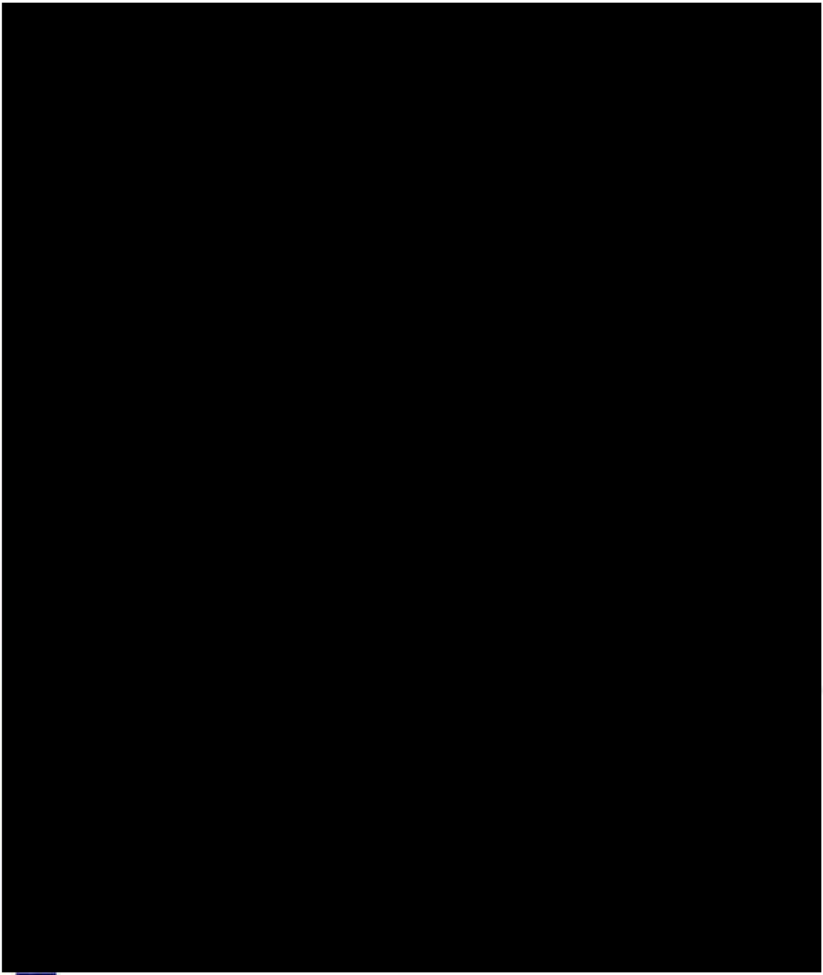
██████████ Manager LHEIU

# LHEIU – A&E volume analysis (1 of 3)

## (A2) Footprint 27 (North West London) - Overview of the population (density, distribution), site locations & travel times

Overview – The table below provides a contextual overview of the population (including population density and distribution of the population across urban/rural/city & towns). A&E site locations & scale are also highlighted. Potential for collaboration between providers is highlighted by relative travel times.

Category	Key findings
Overall considerations	[Redacted]
Location of the population	[Redacted]
Location of acute A&E sites	[Redacted]
Future changes	[Redacted]



	1	2	3	4	5	AVG.
[Redacted]	33	45	58	51	47	
[Redacted]	28	26	36	41	33	
[Redacted]	39	26	31	47	36	
[Redacted]	38	40	26	24	32	
[Redacted]	43	40	35	22	35	

Travel time key  
 <30 mins - potential for collaboration (travel times not a barrier)  
 30 to 45 mins - potential for collaboration for tertiary services  
 45 to 60 mins - potential for collaboration  
 60 mins or more - limited potential for collaboration

Source: Google travel times, to & from each site. Average. column is the providers average distance from all other providers, indicating overall isolation level.

# LHEIU – A&E volume analysis (2 of 3)

## (A3) [Redacted] NHS acute volumes / scale analysis

**Overview** – The table below provides an overview of the NHS acute volumes as indicated by HES FY14/15 data (including acute and specialist providers, but excluding mental health and community providers). The analysis aims to highlight whether there are any providers that may be operating at sub scale, or any key acute services operating below average or below royal clinical guidelines (where guidelines for minimum safe volume levels are available).

(1) Data analysis of prima facie evidence of sub scale providers or individual service lines 2014/15 HES A&E and HES APC analysis

Trust/ Site Name (1)	Peer group	AE attendance		AE Non Elective		Non Elective		Paediatric spells	Maternity spells	Deliveries	Scale risk?
		Type 1	Mjr. & Std	surgery	medicine	Elective	Non Elective				
		HES AE (2a) 000s	HES AE (2b) 000s	HES APC (3) 000s	HES APC (3) 000s	HES APC (4a) 000s	HES APC (4b) 000s			HES APC (4c) 000s	
		<68k	<36k	<4k	<14k	<3k	<8k			<2k	
		66k to 88k	36k to 50k	4k to 7k	15k to 19k	3k to 5k	8k to 10k			2k to 3k	Y

Source:  
 Units:  
 Benchmarking thresholds applied (see methodology below):  
 Service lines flagged red are based on the following lower quartile thresholds:  
 Service lines flagged amber are based on the following lower quartile < median thresholds:

Multi-site providers & sites highlighted

## LHEIU – A&E volume analysis (3 of 3)

- 36 tabs of data manipulation and lookup tables
- After an initial data cleansing and aggregation of four different files, each containing data for one quarter
- This process normally takes one WTE 6 weeks



- The Microsoft Power Query, executed in a few seconds, produces the same output

Q1

Q2

Q3

Q4



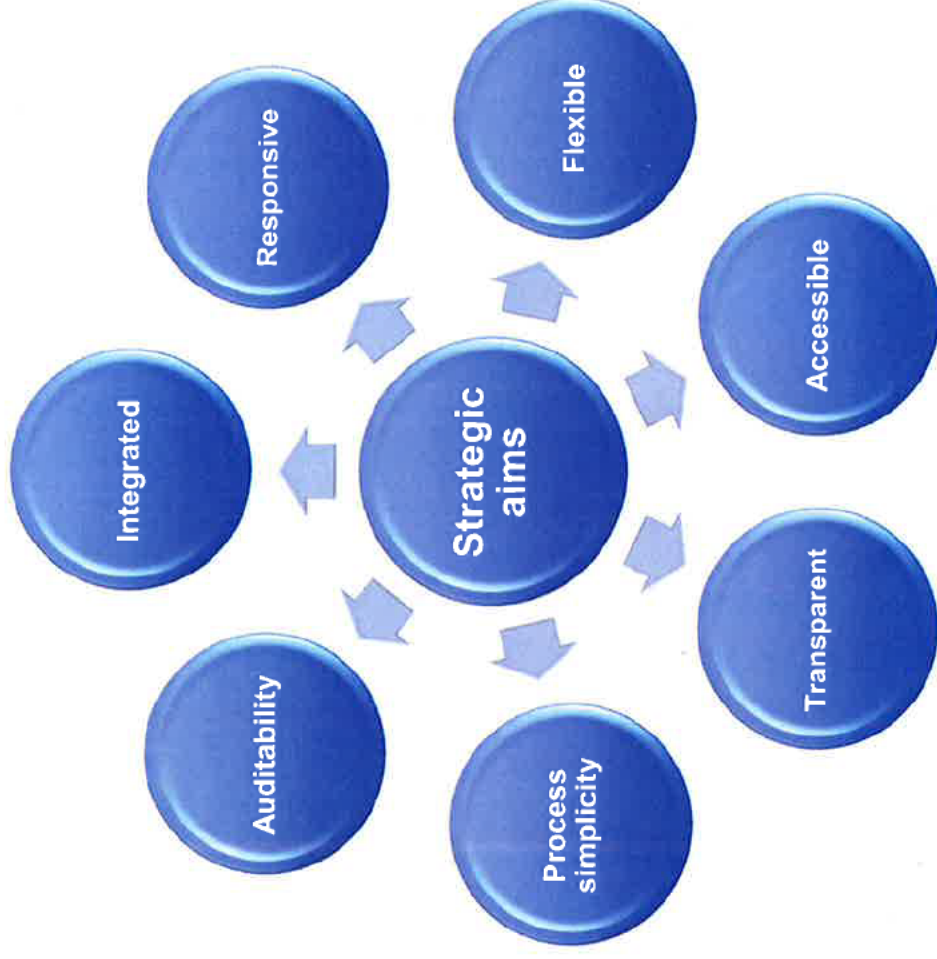
## **Strategic Tariff**

 Currency Integration and Tariff Design Lead

# Strategic Tariff – project vision

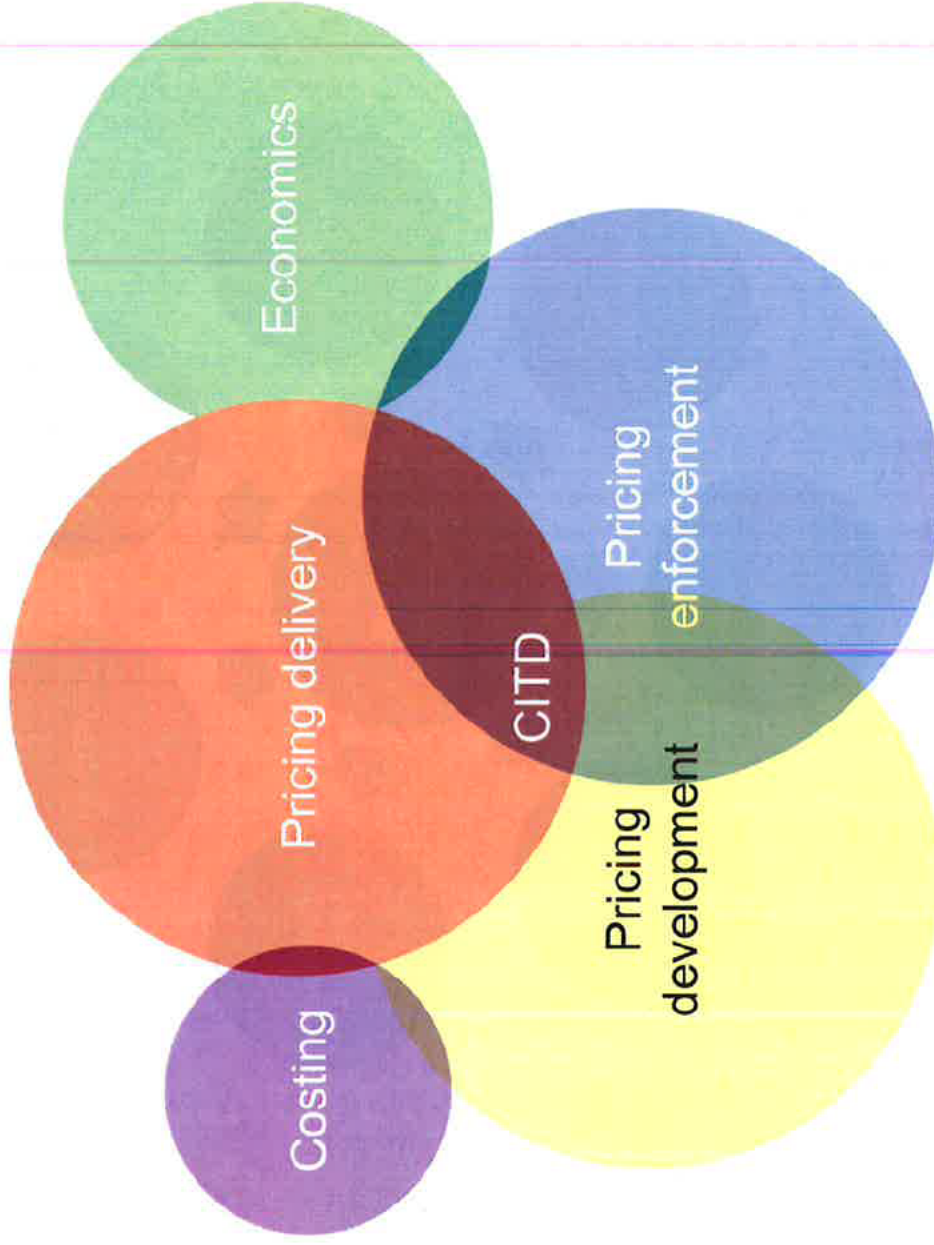
“In a properly automated and educated world, then, machines may prove to be the true humanizing influence. It may be that machines will do the work that makes life possible and that human beings will do all the other things that make life pleasant and worthwhile”

Isaac Asimov, *Robot Visions*

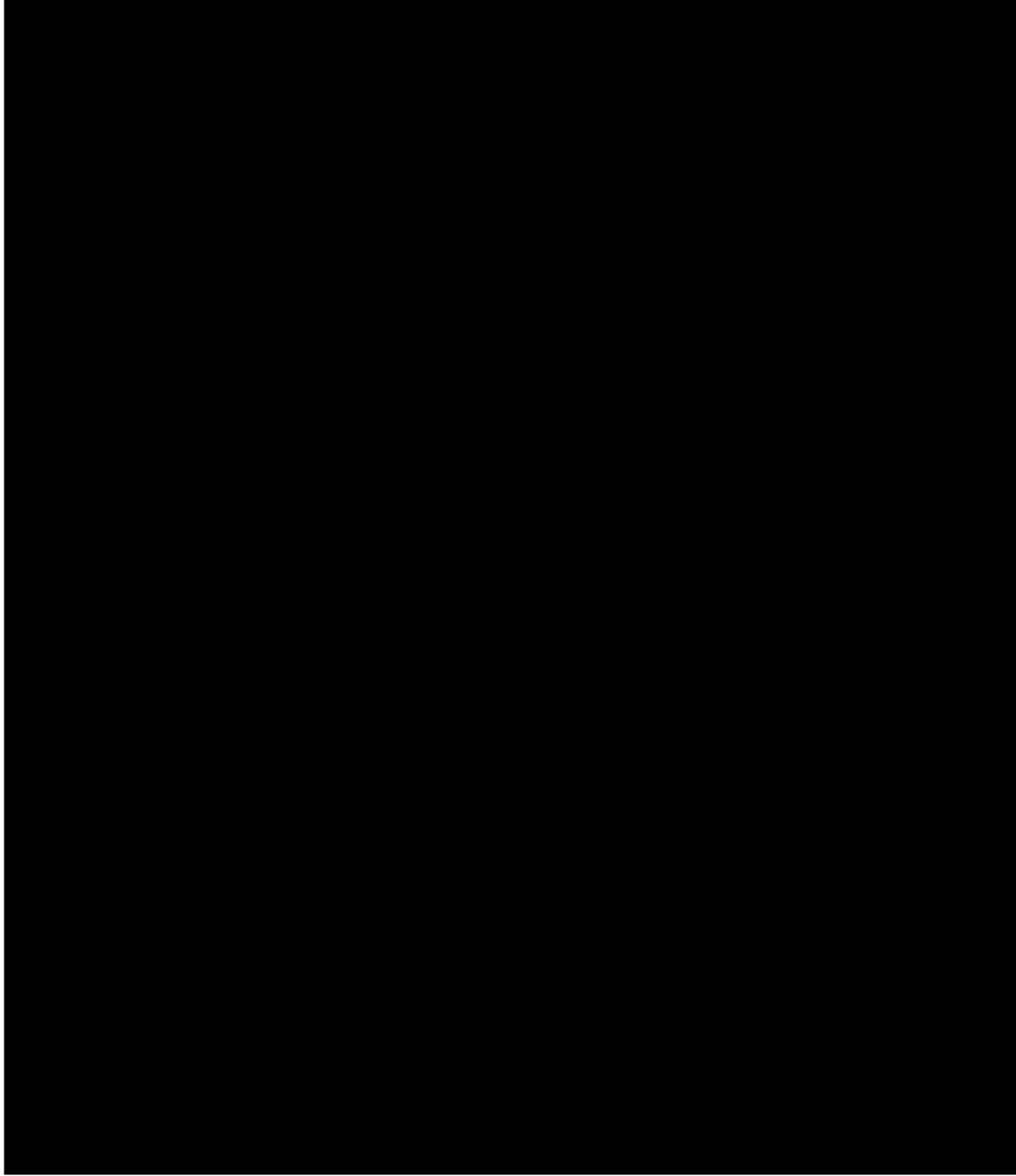


■ To provide Monitor with an integrated approach to setting price relativities and all their distributional impacts which satisfied all of the strategic aims

# Strategic Tariff – target users



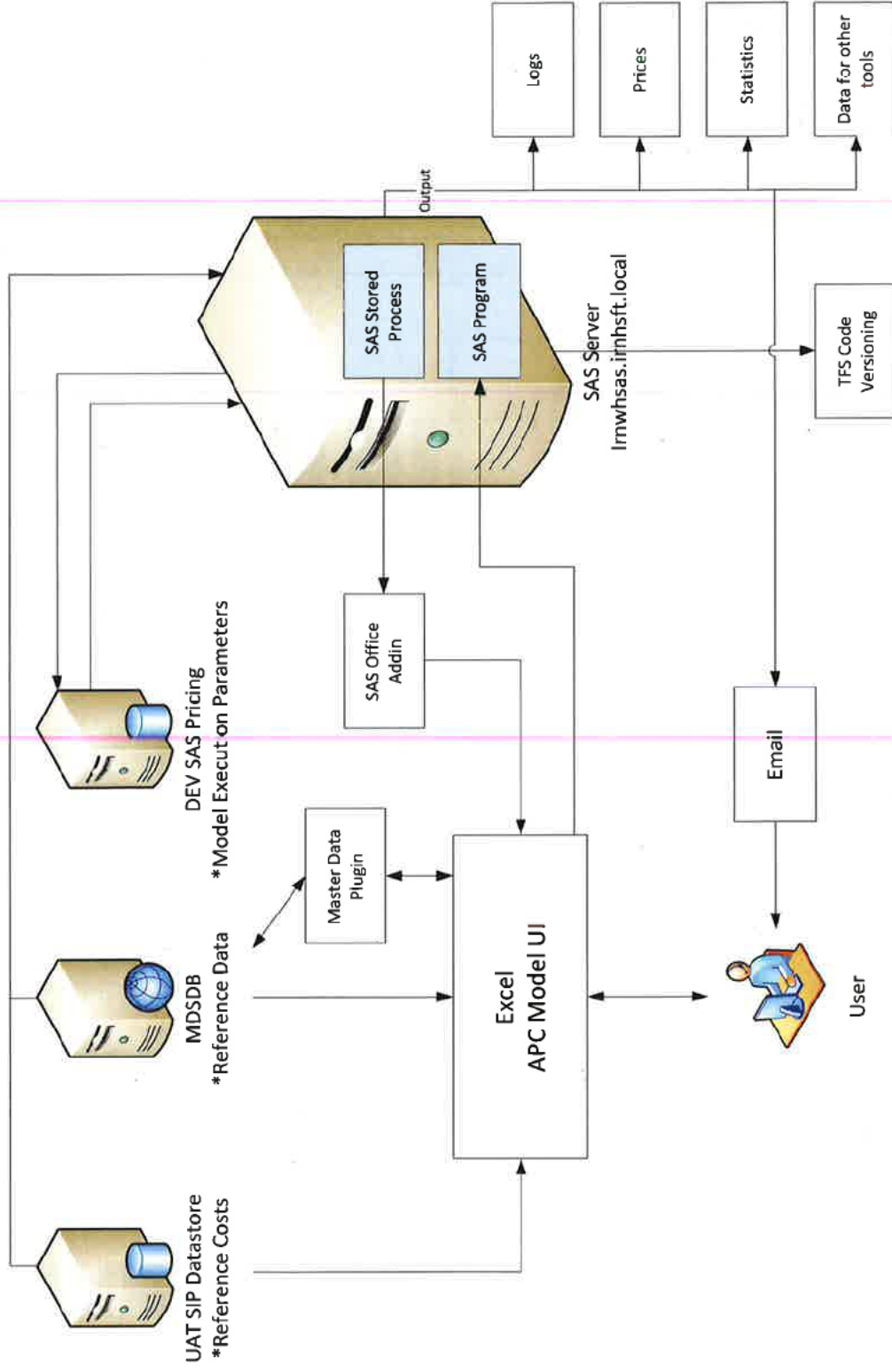
# Strategic Tariff – proof of concept



Replication  
of the APC  
model:



# Strategic Tariff – APC model architecture





# Strategic Tariff – immediate benefits of the project

Partners/Sector	Monitor
<ul style="list-style-type: none"><li>• Greater transparency: Transparency Tool already shared with Paediatric and Orthopaedic EWGs, excellent feedback</li><li>• Policy Modelling: EL/DC split for 17/18 specialist work stream – cannot be done easily with current system</li></ul>	<ul style="list-style-type: none"><li>• Policy modelling tool for APC</li><li>• More accessible (self-service)</li><li>• Technical improvements: execution speed, new infrastructure and architecture (SIP/MDS), version control, consistency and repeatability</li><li>• Auditing vastly improved (KPMG), more complete QA than the current audit process</li></ul>

# Strategic Tariff – medium-term benefits of the project

Partners/Sector
<ul style="list-style-type: none"><li>• Greater transparency: Transparency tool can be shared with all EWGs</li><li>• Tool can be shared with key sector partners: NHSE, HSCIC</li><li>• Policy Modelling: EL/DC split for 17/18 specialist work stream – cannot be done easily with current system</li><li>• Transparent and consistent results and model logic can be shared widely with the sector</li></ul>

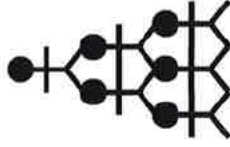
Monitor
<ul style="list-style-type: none"><li>• Rapid, consistent, modular, repeatable APC run (17/18 shadow run of tariff a possibility)</li><li>• Policy modelling tool for APC for multi year tariff</li><li>• Predict a reduced audit spend (KPMG)</li><li>• Additional tariff areas (A&amp;E, OPROC, IA, Payment engine)</li><li>• Cross team working</li></ul>



# Strategic Tariff – much more efficient execution

## Current APC component

- Run time = 1 day: bottlenecks between handover of different components
- Single iteration of the SQL at any one time ONLY
- Having more staff ≠ faster execution



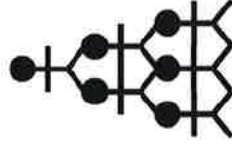
1 person = 1/day

Many people = 1/day

Max. APC runs = 220

## STE POC

- Run time = a few hours (max.)
- As many iterations as you have users



1 person = 2/day

6 people = 12/day

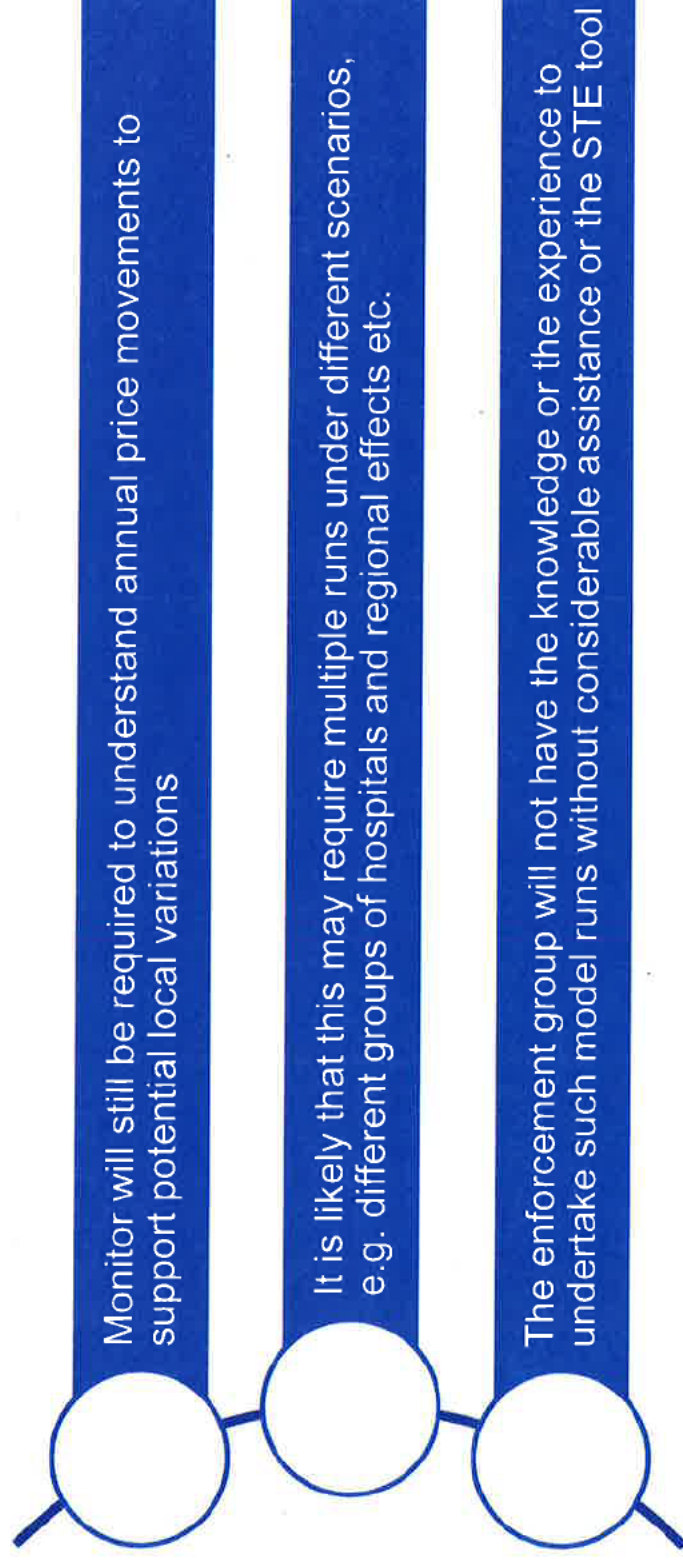
Max. APC runs (6 people) = 2640

Moving to this approach means you can accomplish every possible IA scenario and policy combination in advance

# Strategic Tariff

## The role of the strategic tariff under a multi-year tariff

The need for STE is likely to increase rather than decrease with any move towards multi-year tariffs because:



## **MIST – data loading automation framework**



Data Architect

# MIST – data loading automation framework

- Automates the end-to-end data loading process
- Reduces lead time to load new data sets from several weeks to several days
- Enforces standard development and data management patterns with full traceability
- Decreases testing overhead through automated testing
- Allows staff to focus on value-adding analytics work

## MIST File Load Report

Report as of Date: 9-Mar-2016

Number of File Types on Backlog	36	Av. Analysis Bklg Days	7	Average Dev Bklg	3	Average DIT Bklg Days	6	Average SIT Bklg Days	5	Average UAT Bklg Prod Days	
Number of Working Days till April 1st	18										
Files Rq'd per Day	2	Number of File Types in Each Stage									
Files Loaded v Committed	0	32	2	1	1	1	0	0	0	0	0
<b>File Type &amp; Sub Type</b>		<b>Analysis Bklg Days</b>	<b>DEV Bklg Days</b>	<b>DIT Bklg Days</b>	<b>SIT Bklg Days</b>	<b>UAT Bklg Days</b>	<b>PROD Bklg Days</b>				
MIST_Load_Place_OrganisationAssessment	13										
MIST_Load_FriendsFamily_Inpatient	6										
MIST_Load_FriendsFamily_Mental	6										
MIST_Load_FriendsFamily_Maternity	6										



Improvement

## Wrap-up