



Welcome

Onyeka Onyekwelu

Strategic Engagement Manager – London Office of
Technology and Innovation (LOTI)

Rebecca Mackenzie

Account Technology Strategist, Local Regional
Government – Microsoft

What's planned for today?

Morning Session: 10am-11.30am

- Introduction by Rebecca and Onyeka
- Context for today's challenge: Jay
 - London Boroughs: What are they doing with data?
 - IG, data quality
- PowerBI Overview, Demo and Q&A with Nat
- Logistics with sign-in: Nat, Jess, Anna

Time to complete the challenge: 11.30am-2pm

Presenting back your work: 2-3pm

- Key Takeaways and Learnings from today's session: Onyeka, Becky, Jess, Anna
- 5 Presenters share their work (2-3minutes): Onyeka
- Further Learning Resources & Learning Pathways: Nat

The role of data in Local Authority COVID-19 responses

Jay Saggar, LOTI



loti

Local Authority data teams have worked behind the scenes to support their organisations strategic and frontline responses to COVID-19

- Daily [Dashboard of national figures](#) for COVID-19 tests, cases, deaths for the UK
- [Latest statistics for NHS Test and Trace \(England\) and coronavirus testing \(UK\) - 9 September](#)
- Daily [progression dashboard](#) shows both the rate of triage for coronavirus (COVID-19) using NHS Pathways, and the number of people confirmed by a lab to have coronavirus (a positive test)
- Daily [coronavirus \(COVID-19\) shielded patient dashboard](#) is enabling partner organisations across government to support and protect those who need shielding at this time
- All other [NHS coronavirus dashboards](#)
- Weekly PHE Coronavirus Disease 2019 (COVID-19) [Surveillance Report](#)
- [ONS, Death registrations and occurrences by local authority](#)

Data in the public domain

- **NHS digital portal** (SEFT) - allows access to Tableau dashboards for Pillar 2 testing, Cases, 111 Call triaging and SPL list to postcode district.
- **PHE Power BI dashboard** - Provides access to CO-VIS (the interactive map), line list patient level data on infection and contact tracing.
- **PHE COVID-19 Local Authorities Report Store**
 - PHE, Regional Situational Awareness Report
 - Daily Exceedance Report
 - PHE Daily LA report
- **NHS Test and Trace web-based tool (formerly known as CTAS)** - the number of confirmed cases and contacts reported to the NHS Test and Trace system
- **NSSS** opt in for support service for Clinically Extremely Vulnerable (formally Shielding cohort). Run by GDS and MHCLG

Restricted Data

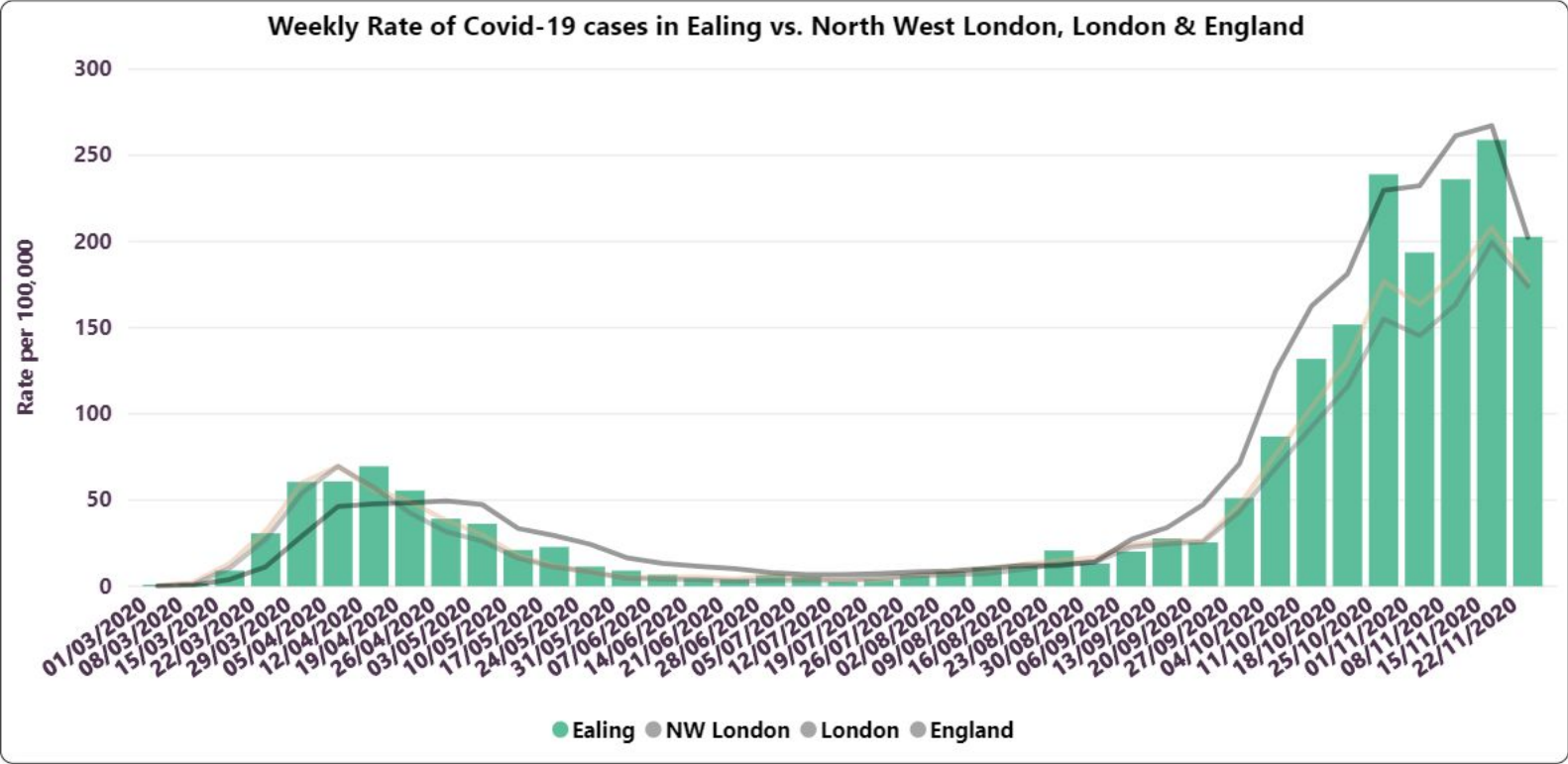
Dashboards:

- Dashboard to inform operational planning
 - Updated daily
 - Data sets: Local outbreak and NHS Line list (restricted)
- Dashboard to inform SLT and Members of trends and key issues
 - Updated weekly
 - Data set: a mix of restricted and public data
- Public dashboards for resident communication on council websites
 - Updated weekly
 - Data sets: public Covid-19 dashboard data

**How have
Boroughs used
COVID-19 data**

Ealing Covid-19 Dashboard

Weekly Cases (data up to: 22/11/2020)



Click on any bar to view that week's figures; click on the same bar again or in any blank space in the chart to view total figures

Period Covered
16/11/2020 - 22/11/2020

Click to switch between
weekly and total figures

Latest week

	Number of Infections	Rate per 100,000
Ealing	693	202.7
NW London	3,718	176.7
London	15,616	174.2
England	113,921	202.4

Source: PHE - <https://coronavirus.data.gov.uk>

693 people were reported as having Covid-19 in Ealing during the week 16 - 22 November, taking the total number of people infected throughout the pandemic to 7,381. The weekly

Covid-19 cases by London Borough

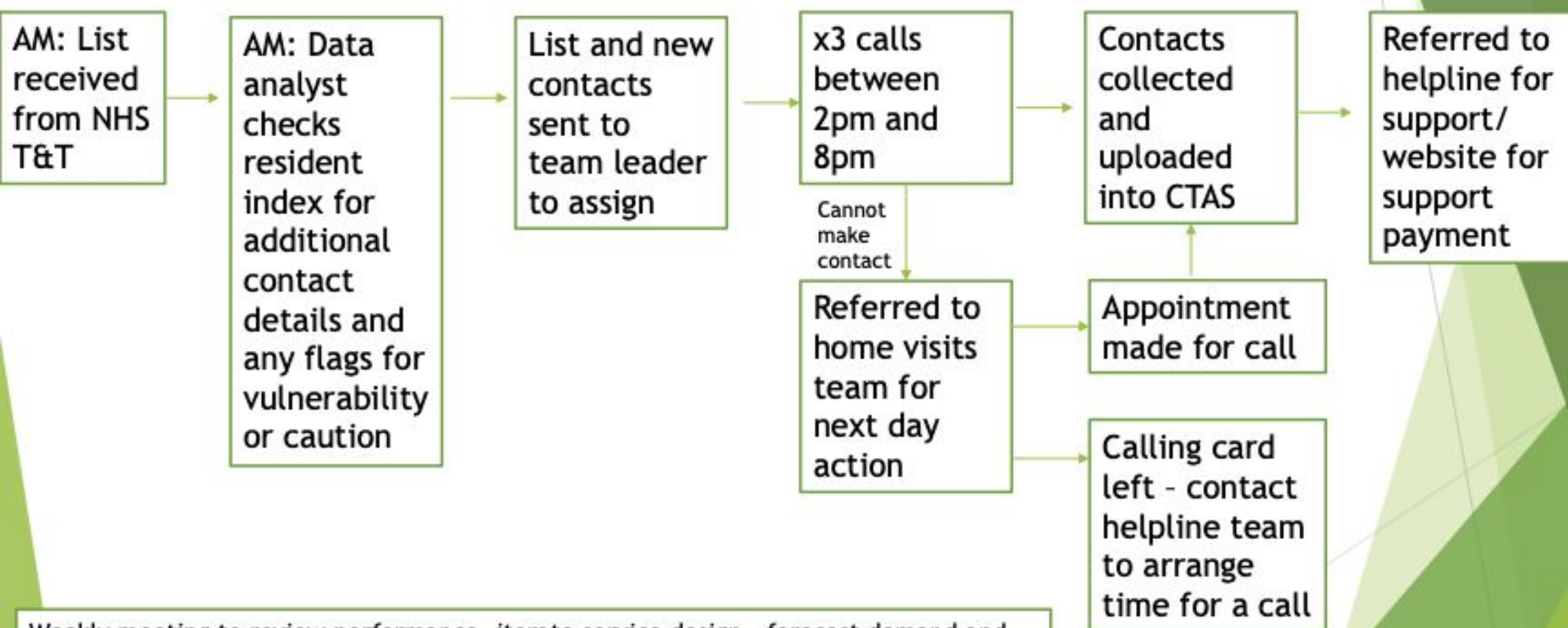


Contact Tracing

- Receive contact tracing data from PHE
- Enrich using other council data sources such as CTAX
- Contact those who the central tracing service have not reached after 24 hours
- Offer support to those required to isolate
- Update central government contact tracing database (CTAS)

Contact Tracing

Local contact tracing service design (7 days a week)



Weekly meeting to review performance, iterate service design, forecast demand and schedule resources. Dedicated service manager, team leaders and scheduler supported by flexible pool of staff to cope with different levels of demand

Supporting those Shielding and isolating

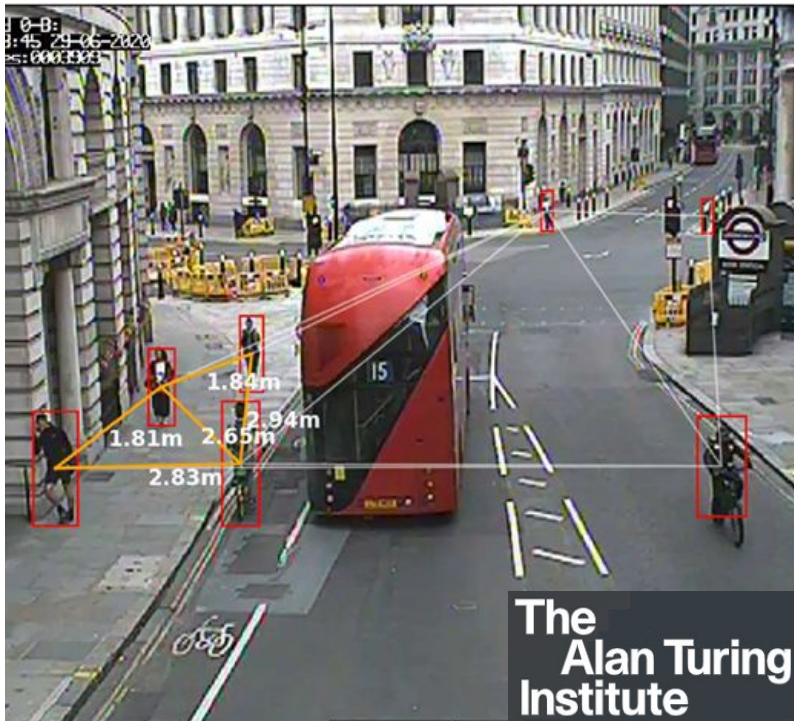
Shielding

- Receive SPL and NSSS weekly
- Process additions and subtractions
- Notify adult/children's social services if required
- Schedule welfare calls and record needs
- Refer to correct pathway or service
 - Food support
 - Prescriptions delivery
 - Finance/benefits support
 - Housing support

**Supporting those
shielding and
isolating**

Managing and mitigating local outbreaks

- Process daily and weekly public and private PHE data sets
- Present insights to inform outbreak management
- Supporting local business
- Monitor additional data sources such as o2, Mastercard and CCTV data to evaluate effectiveness of interventions



Managing and mitigating local outbreaks

loti

- New and changing policy
- Data Governance
 - Handling new data sets
 - Unprecedented use cases
- Data quality
 - Data gathered from multiple evolving sources
 - Multiple transformations through transfers and analysis
 - Deliberate errors in some contact tracing data
- Missing and inadequate data documentation
- Matching data across multiple sources
- APIs for automating data downloads

Challenges

- Mass Testing
- New (and better!) central Test and Trace system from January
- Vaccine distribution
- Covid Recovery

Coming next



Power BI – From Data to Decisions for

Everyone

Nat Van Gulck

nathaniel.vangulck@microsoft.com

Power BI Technical Specialist



Why modern Business Intelligence?

- **Gut feel can no longer be trusted. Pause. Analyse. Act.** Changing landscape – COVID-19 and Brexit mean staff experience and gut feel cannot be relied on to make decisions. Big and small decisions must be supported by sound data analysis by and for *everyone*.
- **Let analysts analyse.** No more analysts updating reports manually by exporting data from backend systems, copying and pasting cells from one Excel workbook to another.
- **No more rear-view mirror “monthly” reports.** Instant web and mobile access to up-to-date interactive reports\dashboards is needed to create a genuine Data Culture.
- **Integration with productivity tools.** Users expect insights at their fingertips not just in yet another website.
- **Single version of the truth.** Users need to discover and rapidly slice-and-dice datasets that have been certified for use by data stewards.
- **Cross-agency work.** Local Government, NHS and other agency need to work together to improve outcomes for citizens. Secure online report sharing is a key part of bridging the divide.

Data Insights

Traditionally we've seen an unhealthy tug of war between centralised and decentralised Business Intelligence.

- **Centralised:** The BI team or IT takes ownership of reporting and publishes out to Business Users. This leads to bottlenecks, inflexibility and frustration.
- **Decentralised:** Business users take matters in their own hands, extract data as flat files from core systems and create\share disconnected Excel workbooks. This leads to multiple versions of the truth, unsafe data practices and wasted effort.
- **Best of both worlds:** What if business users can be empowered to derive and share their own data insights in a governed and secure fashion?

Microsoft Power Platform

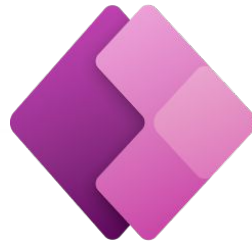
The low-code platform that spans Office 365, Azure, Dynamics 365, and standalone applications

Innovation anywhere. Unlocks value everywhere.



Power BI

Business
analytics



Power Apps

Application
development



Power Automate

Process automation



Power Virtual Agents

Intelligent chat bots

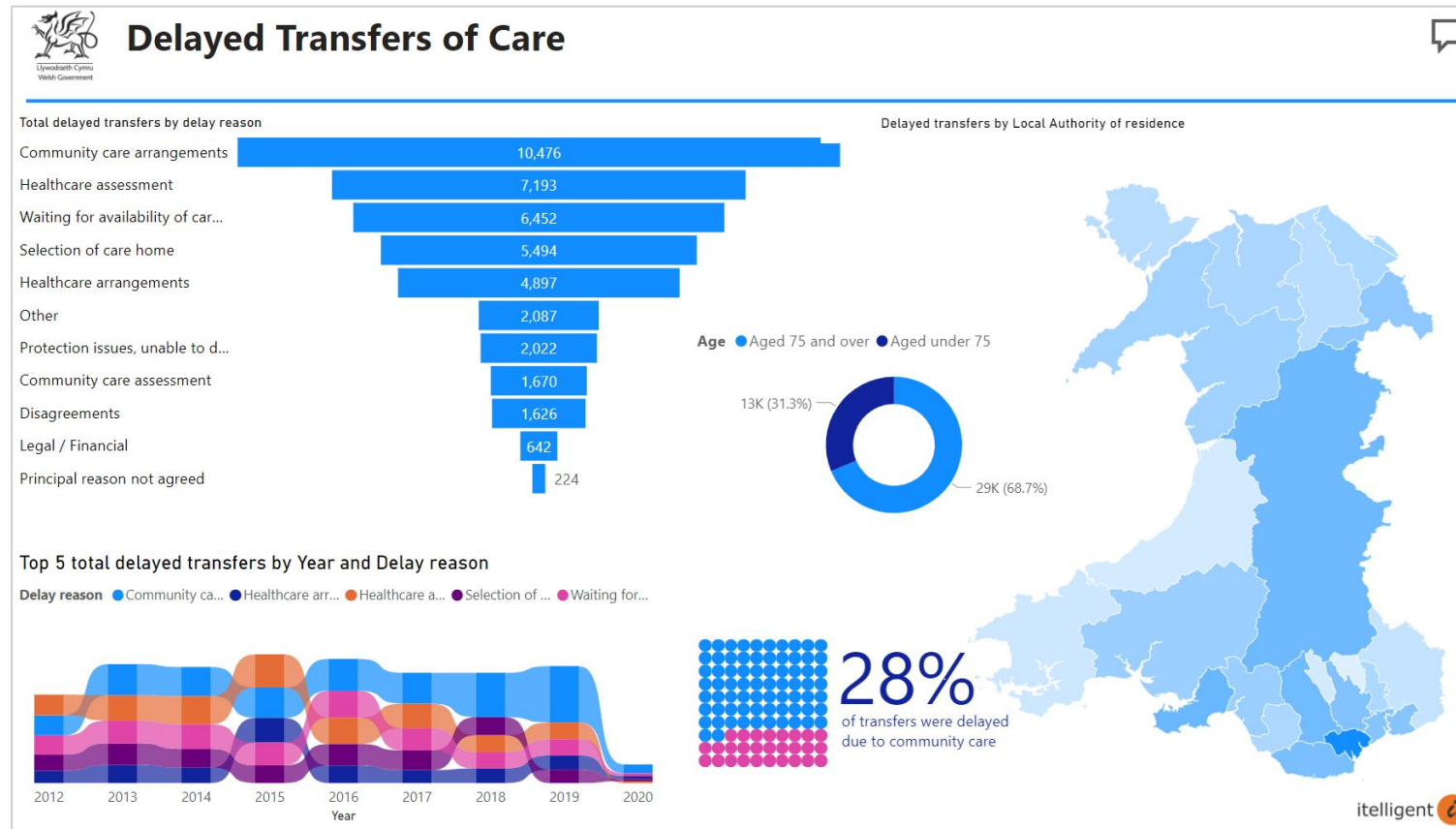
Power BI: the bridge between data and decisions



Cloud data



On-premises data



Web



On-premises



Mobile



Embedded



Teams



PowerPoint



SharePoint



Excel



Power Platform



“...”

Discover value in any data

File	PostgreSQL database	Exasol	Azure Cosmos DB	GitHub (Beta)	Emigo Data Source	Active Directory	Shortcuts Business Insights (Beta)
Excel	Sybase database	Indexima (Beta)	Azure Data Lake Storage Gen2	LinkedIn Sales Navigator (Beta)	Entersoft Business Suite (Beta)	Microsoft Exchange	Siteimprove
Text/CSV	Teradata database	InterSystems IRIS (Beta)	Azure Data Lake Storage Gen1	Marketo (Beta)	FactSet Analytics (Beta)	Hadoop File (HDFS)	SurveyMonkey (Beta)
XML	SAP HANA database	Jethro (Beta)	Azure HDInsight (HDFS)	Mixpanel (Beta)	Industrial App Store	Spark	Tenforce (Smart)List
JSON	SAP Business Warehouse Application Server	Kyligence	Azure HDInsight Spark	Planview Enterprise One - PRM (Beta)	Intune Data Warehouse (Beta)	Hive LLAP (Beta)	TIBCO(R) Data Virtualization (Beta)
Folder	SAP Business Warehouse Message Server	MarkLogic	HDInsight Interactive Query	Planview Projectplace (Beta)	Microsoft Graph Security (Beta)	R script	Vena (Beta)
PDF	Amazon Redshift	Power Platform	Azure Data Explorer (Kusto)	QuickBooks Online (Beta)	Projectplace for Power BI (Beta)	Python script	Vessel Insight (Beta)
SharePoint folder	Impala	Power BI datasets	Azure Cost Management	Smartsheet	Product Insights (Beta)	ODBC	Workforce Dimensions (Beta)
Database	Google BigQuery	Power BI dataflows	Azure Time Series Insights (Beta)	SparkPost (Beta)	Quick Base	OLE DB	Zucchetti HR Infinity (Beta)
SQL Server database	Vertica	Common Data Service	Online Services	SweetIQ (Beta)	TeamDesk (Beta)	BI360 – Budgeting & Financial Reporting (Beta)	Blank Query
Access database	Snowflake	Power Platform dataflows	SharePoint Online List	Planview Enterprise One - CTM (Beta)	Webtrends Analytics (Beta)	Cognite Data Fusion (Beta)	
SQL Server Analysis Services database	Essbase	Azure	Microsoft Exchange Online	Twilio (Beta)	Workplace Analytics (Beta)	FHIR	
Oracle database	AtScale cubes	Azure SQL database	Dynamics 365 (online)	tyGraph (Beta)	Zoho Creator (Beta)	Information Grid (Beta)	
IBM Db2 database	BI Connector	Azure SQL Data Warehouse	Dynamics NAV	Webtrends (Beta)	Other	Jamf Pro (Beta)	
IBM Informix database (Beta)	Data Virtuality LDW (Beta)	Azure Analysis Services database	Dynamics 365 Business Central	Zendesk (Beta)	Web	MicroStrategy for Power BI	
IBM Netezza	Denodo	Azure Database for PostgreSQL	Dynamics 365 Business Central (on-premises)	Asana (Beta)	SharePoint list	Paxata	
MySQL database	Dremio	Azure Blob Storage	Microsoft Azure Consumption Insights (Beta)	Dynamics 365 Customer Insights (Beta)	OData Feed	QubolePresto (Beta)	
PostgreSQL database	Exasol	Azure Table Storage	Azure DevOps (Boards only)	Emigo Data Source	Active Directory	Roamlr (Beta)	

Home

Transform

Add column

View

Get data

Enter data

Options

Manage parameters

Refresh

Properties

Advanced editor

Manage

Choose columns

Remove columns

Keep rows

Remove rows

Sort

Split column

Group by

Use first row as headers

Replace values

Transform

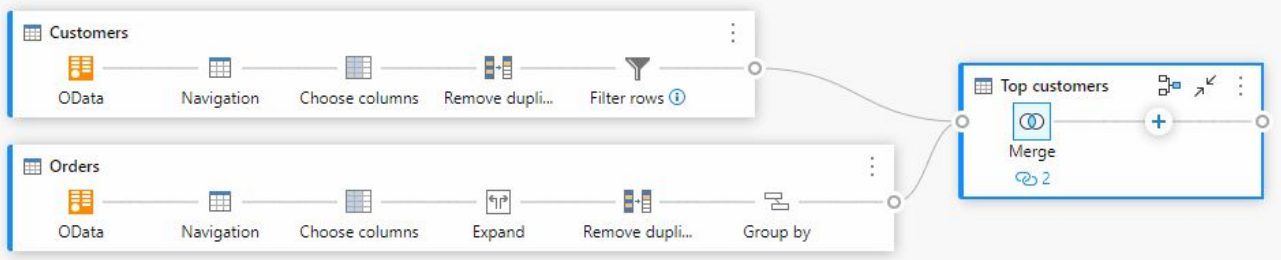
Merge queries

Append queries

Combine files

Combine

Queries



Query settings

100%

+

Table.NestedJoin(Customers, {"CustomerID"}, Orders, {"CustomerID"}, "Orders", JoinKind.Inner)

	CustomerID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country	Phone	Orders
	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%	Valid 100% Error 0% Empty 0%
	13 distinct, 13 unique	13 distinct, 13 unique	13 distinct, 13 unique	7 distinct, 3 unique	13 distinct, 13 unique	12 distinct, 11 unique	8 distinct, 6 unique	13 distinct, 13 unique	1 distinct, 0 unique	13 distinct, 13 unique	
1	RATTC	Rattlesnake Canyon Grocery	Paula Wilson	Assistant Sales Representative	2817 Milton Dr.	Albuquerque	NM	87110	USA	(505) 555-5939	[Table]
2	WHITC	White Clover Markets	Karl Jablonski	Owner	305 - 14th Ave. S. Suite 3B	Seattle	WA	98128	USA	(206) 555-4112	[Table]
3	SPLIR	Split Rail Beer & Ale	Art Braunschweiger	Sales Manager	P.O. Box 555	Lander	WY	82520	USA	(307) 555-4680	[Table]
4	OLDWO	Old World Delicatessen	Rene Phillips	Sales Representative	2743 Bering St.	Anchorage	AK	99508	USA	(907) 555-7584	[Table]
5	LONEP	Lonesome Pine Restaurant	Fran Wilson	Sales Manager	89 Chiaroscuro Rd.	Portland	OR	97219	USA	(503) 555-9573	[Table]
6	THEBI	The Big Cheese	Liz Nixon	Marketing Manager	89 Jefferson Way Suite 2	Portland	OR	97201	USA	(503) 555-3612	[Table]

Integrate with Office & Teams



Create, collaborate and share insights using Office



Seamlessly integrate fully interactive reports



Certified data sets accessible in Excel

The screenshot displays the Microsoft Excel interface with the 'Data' tab selected. The 'Get Data' dropdown menu is open, and the 'From Power BI dataset' option is highlighted with a red box. The 'Power BI Datasets' pane on the right side of the screen is also highlighted with a red box. It shows a list of datasets available for use in Excel, including 'Supplier Quality', 'Opportunity Analysis', 'Procurement Analysis', and 'Customer Profitability'. Each dataset entry includes its workspace, owner, and refresh frequency, along with a 'Select' button. The 'Supplier Quality' dataset is marked as 'Certified'.

Power BI Datasets

Select an enterprise dataset to create a PivotTable.

Dataset	Endorsement
Supplier Quality Workspace: Production Owner: Adi Bhargava Refreshed: 4 hours ago	Certified
Opportunity Analysis Workspace: Sales and Marketing Owner: Adi Muller Refreshed: a month ago	Promoted
Procurement Analysis Workspace: Finance Owner: Binh Satish Refreshed: 15 hours ago	Promoted
Customer Profitability Workspace: Finance Owner: Binh Satish Refreshed: 2 days ago	Promoted

Teams integration

Microsoft Teams

Search or type a command

themeasuredproduct.com

AW

Activity

Chat

Teams

Calendar

Calls

Files

...

Apps

Help

Teams

Your teams

Game Marketing Org

General

Compete

Launches

Gaming Insights Support Team

General

Support Questions

Hidden teams

General

Posts

Files

Wiki

Customer 360

+

Contoso

Top 10 Customers in Revenue

Revenue by Status

Revenue by Closed Date

Open Opportunity by Sales Stage

Revenue by Location

Revenue by Product - Rank

Case Count by Status

Top 10 Customers in Revenue

Customer	Revenue
Proseware, Inc.	41M
Litware	25M
Humongous Insurance	22M
Wide World Importers	17M
Blue Yonder Airlines	15M

Revenue by Status

Status	Revenue	Percentage
Won	220M	78.67%
Open	54M	19.2%
Lost	0.1M	0.13%

Revenue by Closed Date

Year	Revenue
2017	3.4M
2018	3.3M
2019	2.9M
2020	4.3M

Open Opportunity by Sales Stage

Sales Stage	Revenue
Qualify	19M
Propose	16M
Develop	11M
Close	7M

Revenue by Location

Location	Revenue
ASIA	13,608,528
NORTH AMERICA	41,369,173
EUROPE	24,885,124
AFRICA	21,646,157
SOUTH AMERICA	17,195,331
AUSTRALIA	15,495,717

Revenue by Product - Rank

Product	Revenue
Litware Laptop Keyboard X105	3.2M
Litware Wireless Mouse M35	3.2M
Proseware All-in-One Printer M500	3.2M
Southridge 55" LCD	3.2M
WWI Desktop PC2.33 X2330	3.2M
J6689	2.9M
Fabrikam Laptop16 M6000	1.3M
Fabrikam Tablet M100	1.3M
3D Printer	0.2M

Case Count by Status

Status	Count
In Progress	146
Problem Solved	11
Cancelled	1

Case Summary

Metric	Value
Total Case Count	158
Case Resolved %	7.0%

Customer Data Table

Customer	Revenue	Estimates	Variance
Proseware, Inc.	41,369,173	45,143,310.0	-3,774,137
Litware	24,885,124	45,019,281.0	-20,134,157
Humongous Insurance	21,646,157	27,967,513.0	-6,321,356
Wide World Importers	17,195,331	24,421,105.0	-7,225,774
Blue Yonder Airlines	15,495,717	22,370,217.0	-6,874,500
Wingtip Toys	13,785,010	14,496,556.0	-711,546
The Phone Company	13,608,528	24,718,826.0	-11,110,298
Total	263,478,272	428,898,685.5	-165,420,413

AI Powered Analytics



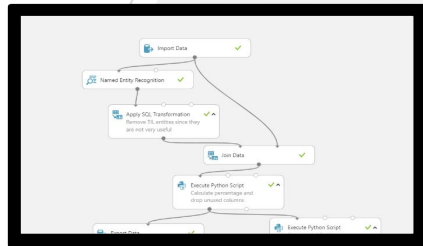
Data Scientists



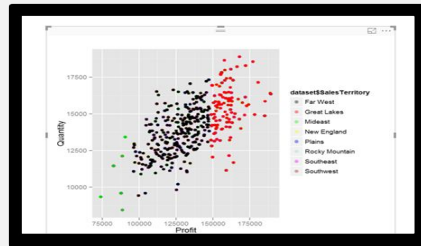
Analysts



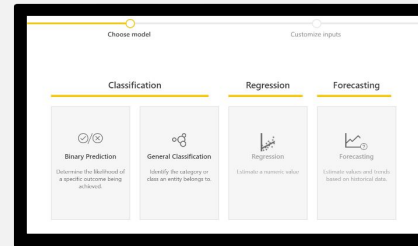
End users



Extend with Azure ML



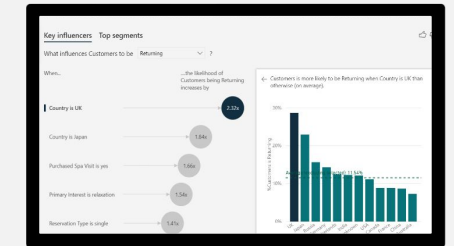
R Integration



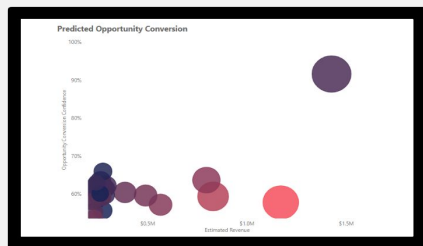
Create ML models

Sentiment Score	Title
0.75	Great room. Loved the pool and view.
1.00	disappointing
0.79	will be returning to Grand Kaiulua again!
0.94	Nice Condo, excellent location in Kona, HI
0.03	Outdated, dirty unit in good location.
0.06	Filthiest place I have ever stayed
0.94	condition of room--VERY DISAPPOINTING !!!
0.71	Nice hotel that is walking distance to everything
0.99	Reasonable beach condo - well located
0.88	Great Location for ocean sunset views
0.97	Nice hotel on the beach
0.78	best location in kailua kona.

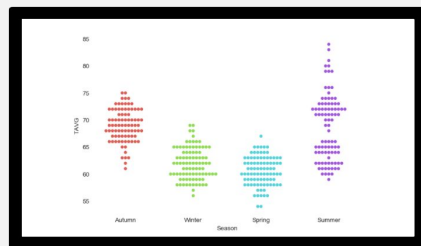
Sentiment Analysis



AI Visualizations



Integrate into reports



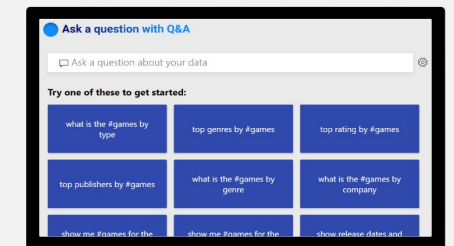
Python Integration



Explore predictions



Key Phrase Extraction



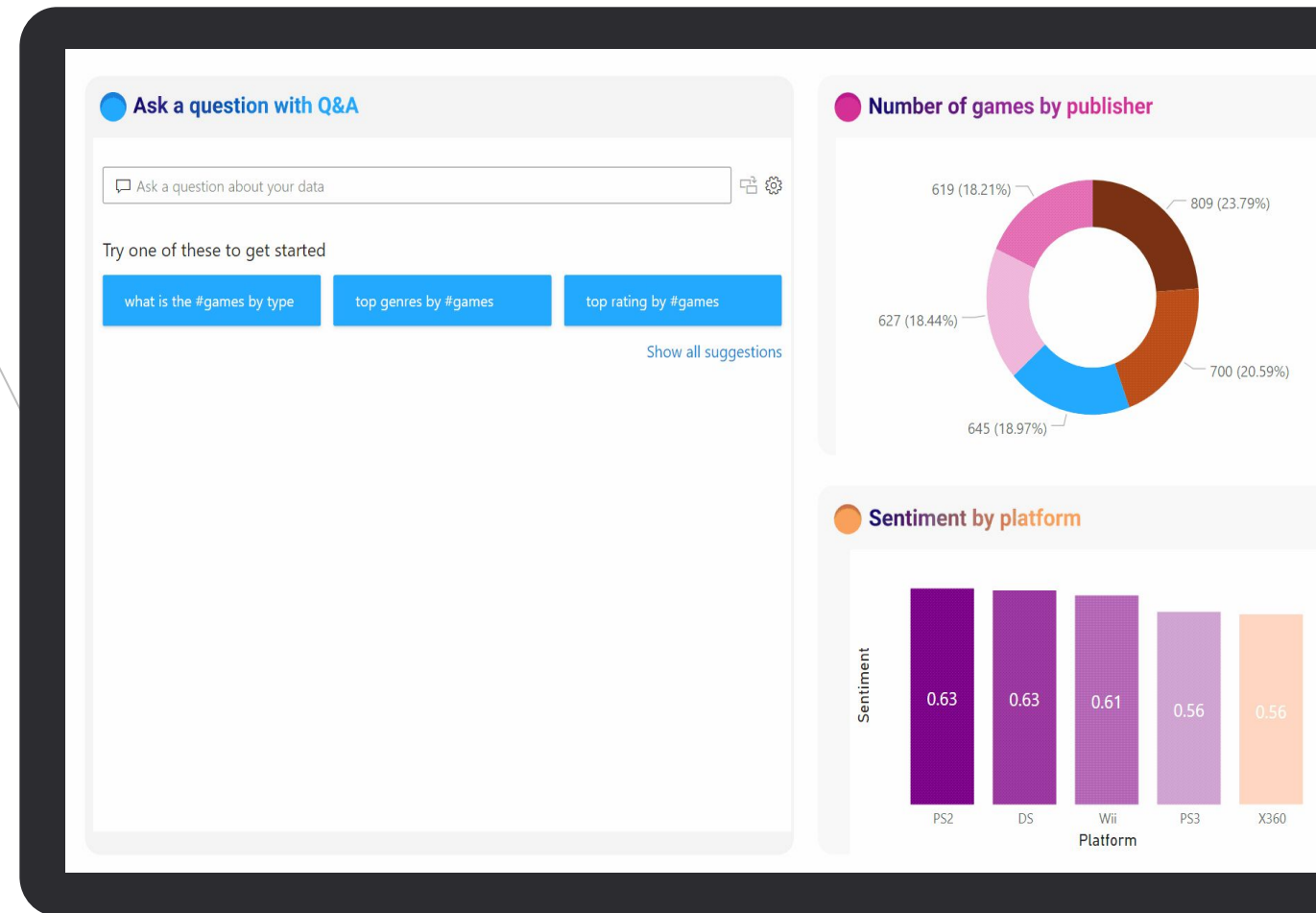
Natural Language

Enabling users – Q&A Visual

Ask natural language questions and get answers in the form of a visual

Consumers can quickly get answers to their data

Designers can create visuals in report by simply double-clicking anywhere on the report canvas, and then using natural language to get started



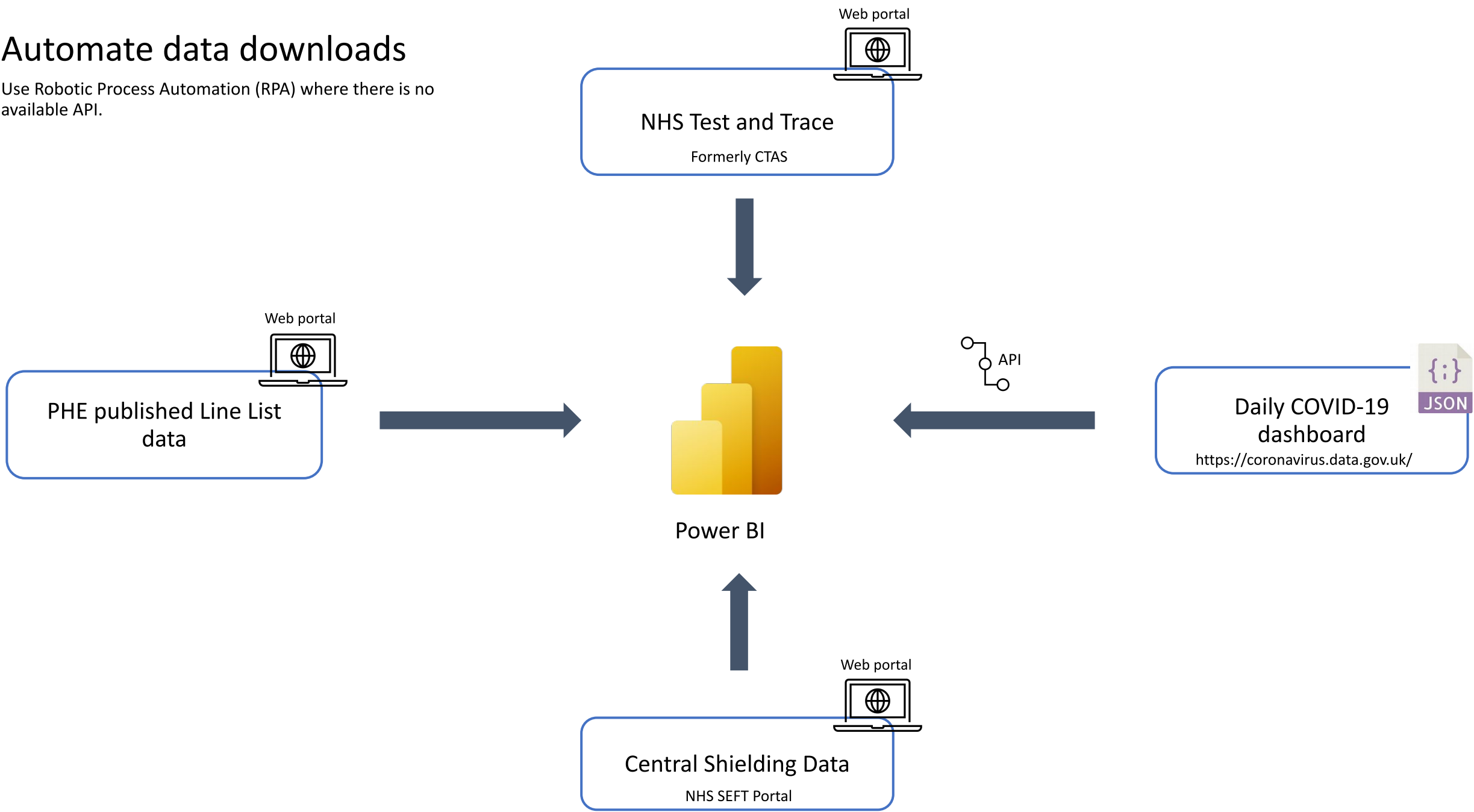


Power BI Demo

Nat Van Gulck

Automate data downloads

Use Robotic Process Automation (RPA) where there is no available API.



 [About NHS England](#)[Our work](#)[Commissioning](#)[Get involved](#)

Our advice for clinicians on the coronavirus is here.

If you are a member of the public looking for health advice, go to the [NHS website](#). And if you are looking for the latest travel information, and advice about the government response to the outbreak, go to the [gov.uk website](#).

[Statistics](#)[Statistical work areas](#)[COVID-19 Daily Deaths](#)[COVID-19 Hospital Activity](#)[A&E Attendances and
Emergency Admissions](#)[Ambulance Quality Indicators](#)[Bed Availability and
Occupancy](#)[Cancelled Elective Operations](#)[Home](#) > [Statistics](#) > [Statistical work areas](#) > [COVID-19 Hospital Activity](#)

COVID-19 Hospital Activity

A number of data collections have been implemented to support incident management. The collections were activated at short notice and the content of the collections has evolved as the incident has developed. The data collected is classified as management information. It has been collected on a daily basis with a tight turn round time. No revisions have been made to the dataset. Any analysis of the data should be undertaken with this in mind.

The publication covers

Today's Challenge

Context

COVID-19 has further emphasized the need for joint working between Local authorities and local NHS Partners to improve transfers of care along a “discharge to assess” model (see Warwickshire case study at <https://aka.ms/ukpsworkshop>) so the hospital social care teams can support people leaving hospital early.

Task

As a Local Authority analyst you have been asked to help develop an understanding of pressures at local NHS Partners and the impact that COVID-19 has had along with discharge trends and volumes.



Demo

Nat Van Gulck



Workshop Intro

Nat Van Gulck

Today's Challenge

Context

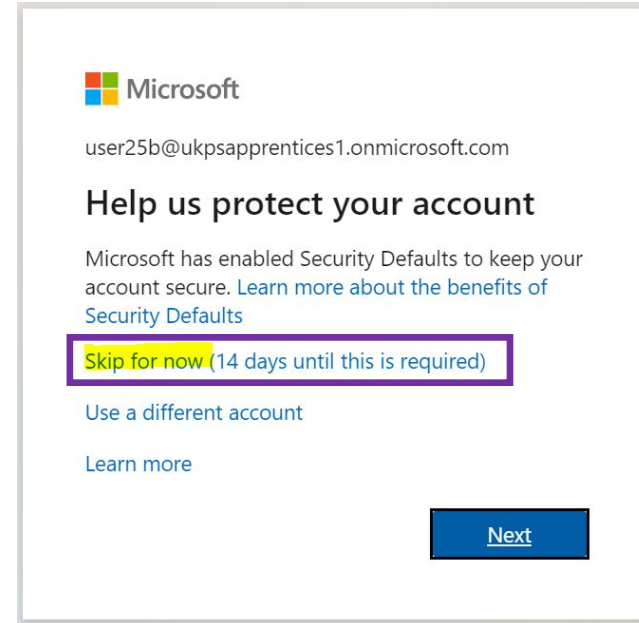
COVID-19 has further emphasized the need for joint working between Local authorities and local NHS Partners to improve transfers of care along a “discharge to assess” model (see Warwickshire case study at <https://aka.ms/ukpsworkshop>) so the hospital social care teams can support people leaving hospital early.

Task

As a Local Authority analyst you have been asked to help develop an understanding of pressures at local NHS Partners and the impact that COVID-19 has had along with discharge trends and volumes.

Signing in

1. Open a private browser session
2. Go to <https://app.powerbi.com>
3. Sign in using credentials provided (see screenshot)
4. Navigate to the Power BI workspace associated with your username
5. Select the “COVID Analysis” report
6. Select “Edit” in the toolbar
7. Right-click the “Overview” page and select “Duplicate”
8. Modify, delete and create your own charts
9. Add as many new report pages as you need
10. Regularly save your work by going to “File > Save”



Question? Please ask in meeting chat or come off mute.

Workshop

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2. Go to <https://app.powerbi.com>
3. Sign in using credentials provided
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Presentations intro

Onyeka Onyekwelu

Strategic Engagement Manager – London Office of
Technology and Innovation (LOTI)

Rebecca Mackenzie

Account Technology Strategist, Local Regional
Government – Microsoft

Agenda

2:00 – 2:05 pm

Introduction – Onyeka Onyekwelu and Rebecca Mackenzie

2:05 - 2:15 pm

Presentation 1 + Q&A

2:15 – 2:25 pm

Presentation 2 + Q&A

2:25 – 2:35 pm

Presentation 3 + Q&A

2:35 – 2:45 pm

Presentation 4 + Q&A

2:45 – 2:55 pm

Presentation 5 + Q&A

2:55 – 3:00 pm

Close

Power BI Workshop Winners



#1 – User5

Ripon Miah
Apprenticeship
Levy Manager,
Tower Hamlets

1,105 2,647 4,309

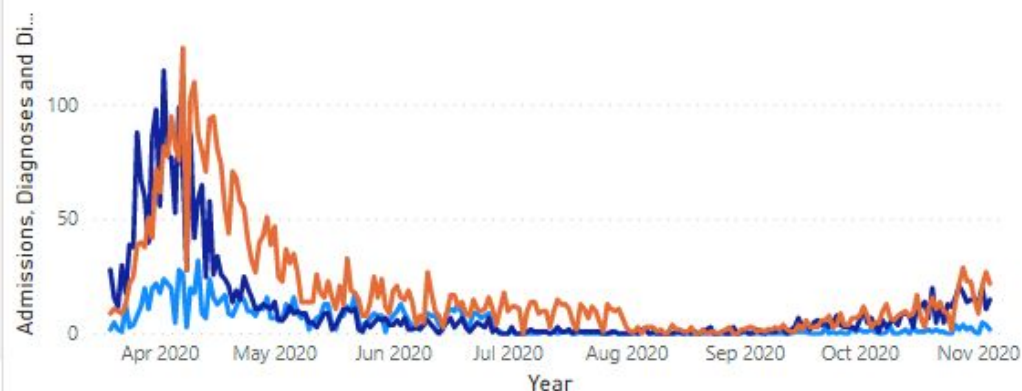
Admissions

Diagnoses

Discharges

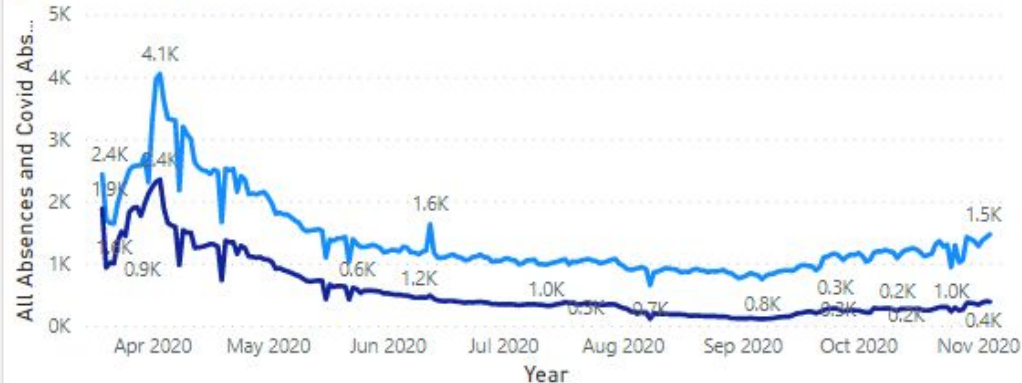
Admissions, Diagnoses and Discharges by Year, Quarter, Month and Day

● Admissions ● Diagnoses ● Discharges



All Absences and Covid Absences by Year, Quarter, Month and Day

● All Absences ● Covid Absences



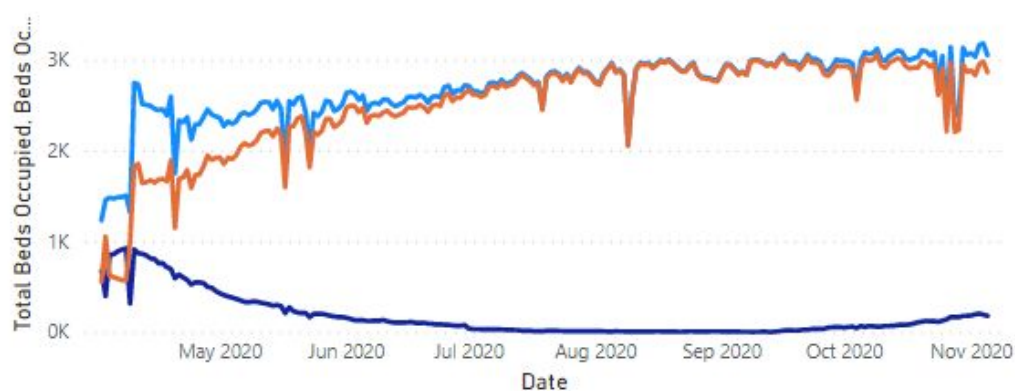
Date

1/1/2020

12/29/2020

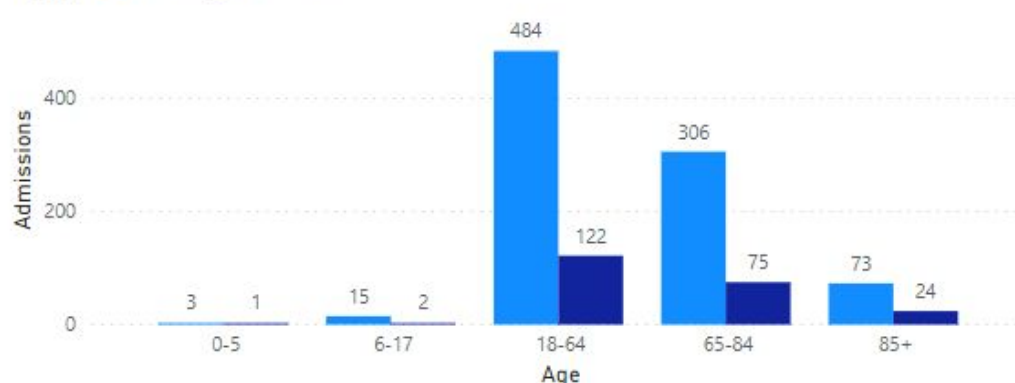
Total Beds Occupied, Beds Occupied Covid and Beds Occupied Non-covid by Date

● Total Beds Occupied ● Beds Occupied Covid ● Beds Occupied Non-covid



Admissions by Age and Day Type

Day Type ● Weekday ● Weekend



Filters

Search

Filters on this page

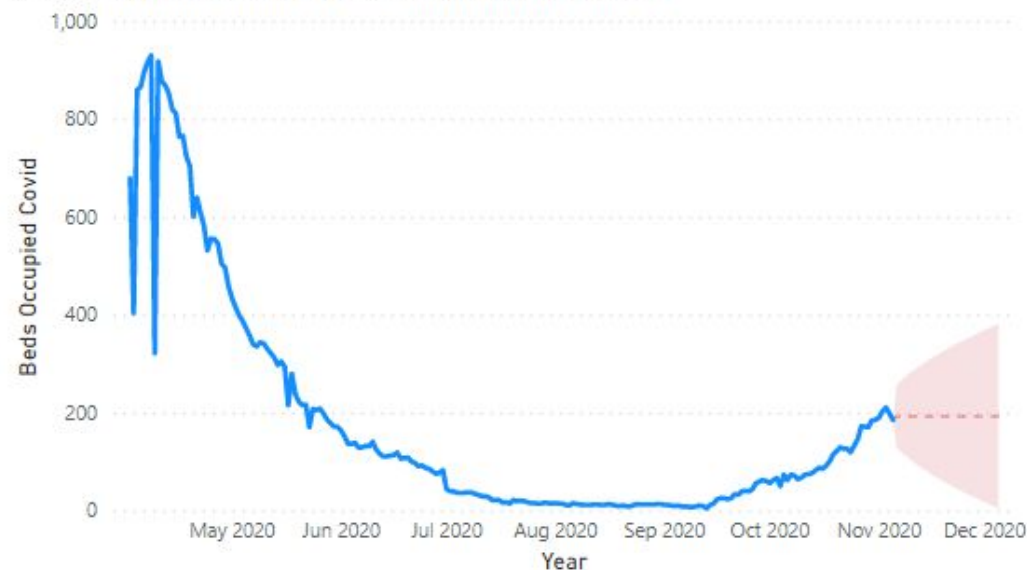
Add data fields here

Filters on all pages

Local Authority ...
is TOWER HAMLETS

Add data fields here

Beds Occupied Covid by Year, Quarter, Month and Day



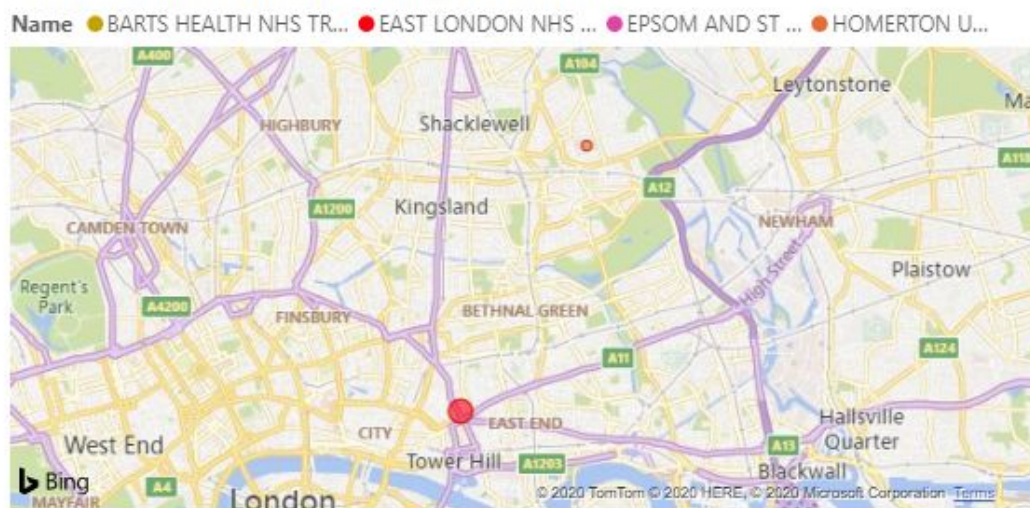
Beds Occupied Covid trended down, resulting in a 95.05% decrease between April 2020 and November 2020.

Value averaged 4,817.25 per month between April 2020 and November 2020.

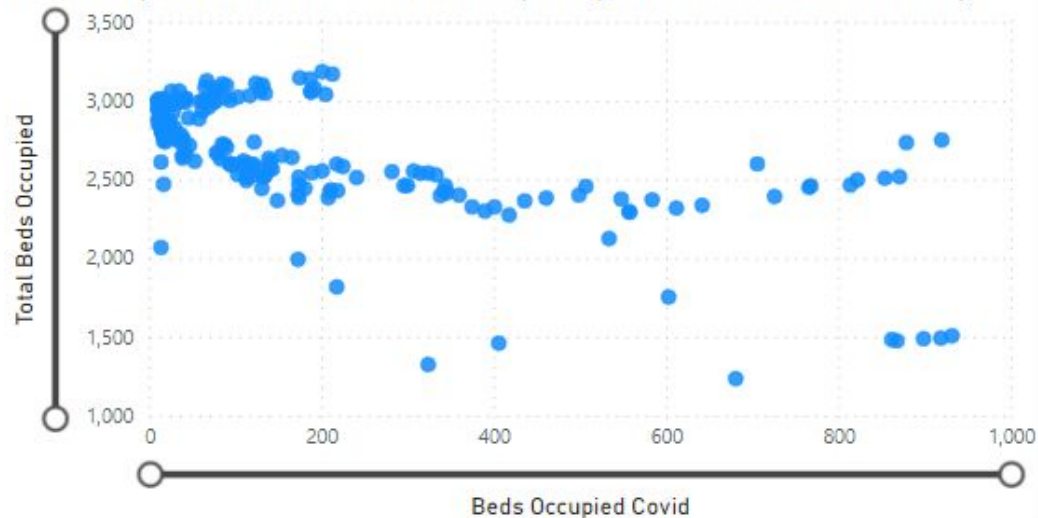
Beds Occupied Covid experienced the longest period of decline (-19668) between April 2020 and August 2020.

Beds Occupied Covid decreased for the last 1 month on record.

Covid Absences by NHS Trust Postcode and Name



Beds Occupied Covid and Total Beds Occupied by Year, Quarter, Month and Day



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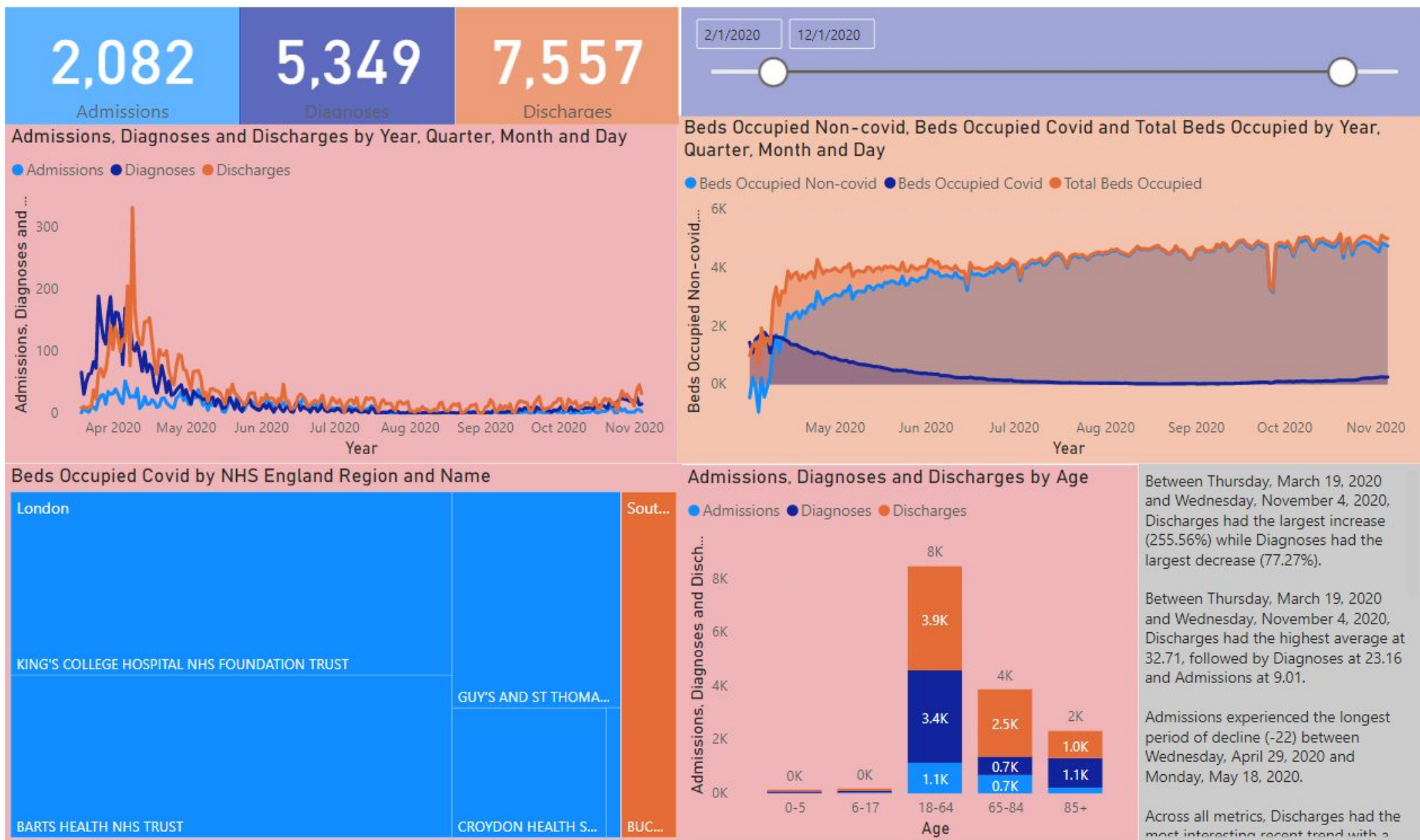
Local Authority ...
is TOWER HAMLETS

Add data fields here



#2 – User58

Shaun Madziva
Systems Support
Apprentice,
Southwark Council



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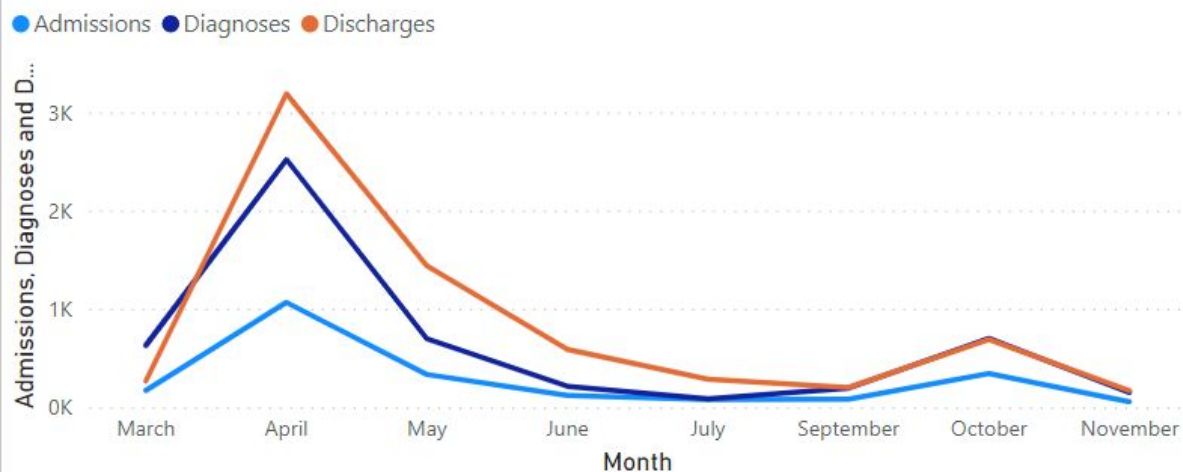
Local Authority Name is SOUTHWARK



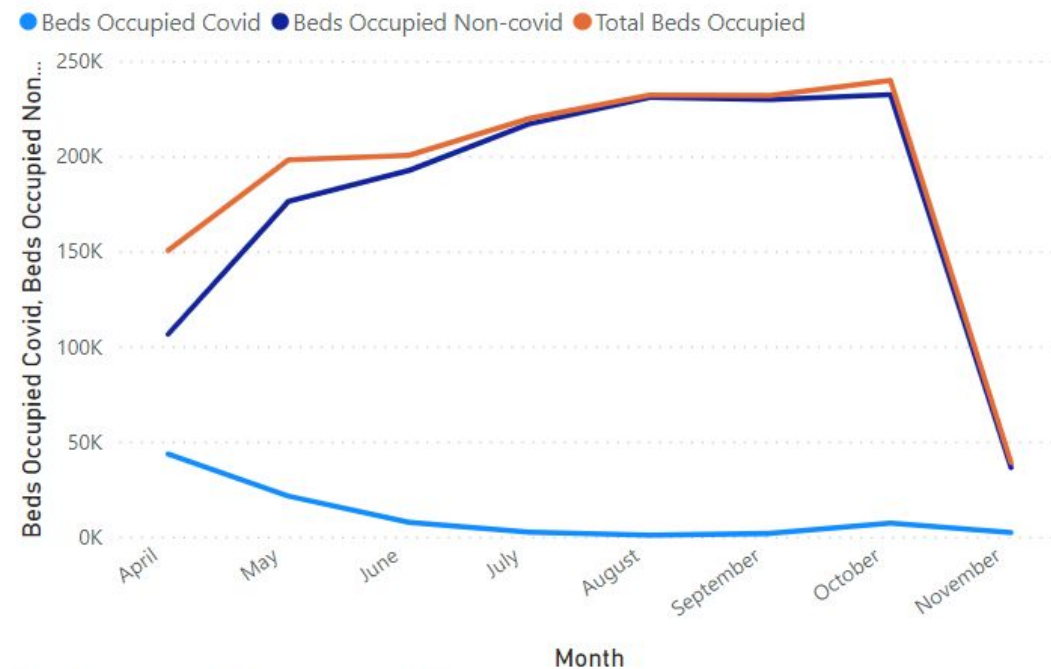
#3 – User50

Pooja Majur
Krishnadas
Process Engineer

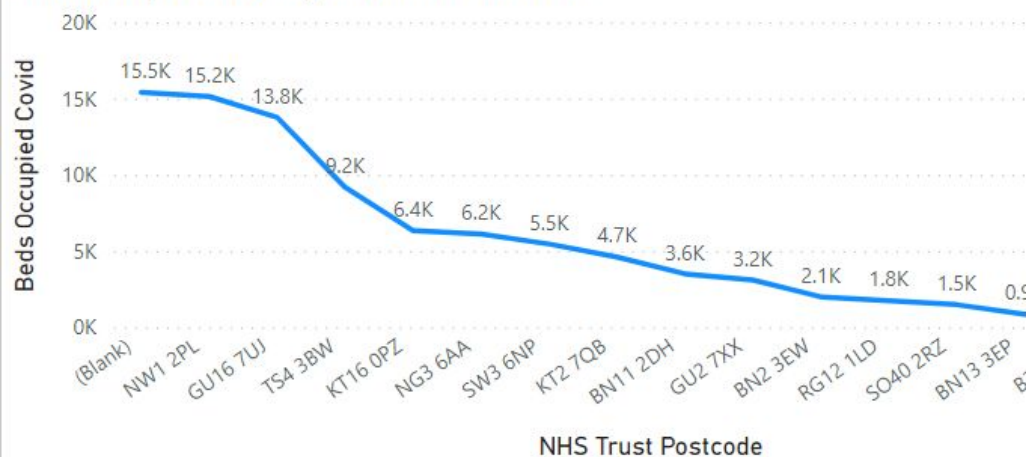
Between March 2020 and November 2020, Discharges had the highest average at 860.88, followed by Diagnoses at 656.38 and Admissions at 289.13. Across all metrics, Diagnoses had the most interesting recent trend with a 78.14% decrease in the last 1 month on record.



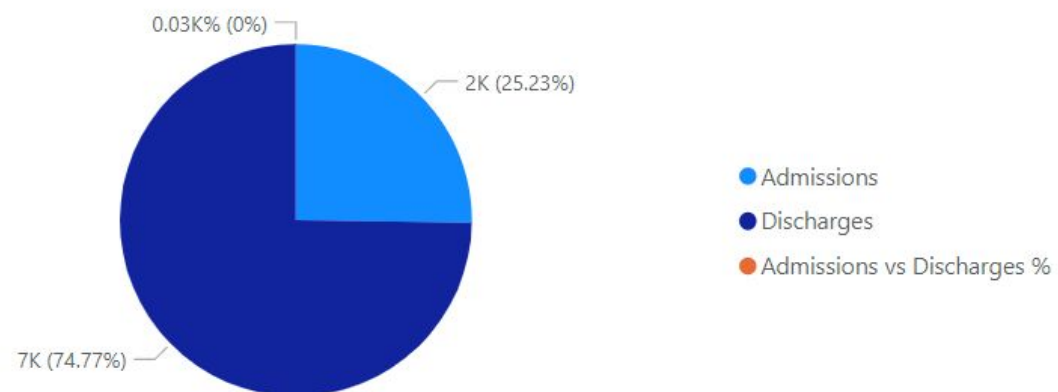
Beds Occupied Covid, Beds Occupied Non-covid and Total Beds Occupied by Month



Beds Occupied Covid by NHS Trust Postcode



Admissions, Discharges and Admissions vs Discharges %



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Local Authority Name is SURREY



Goodbye

Onyeka Onyekwelu

Strategic Engagement Manager – London Office of
Technology and Innovation (LOTI)

Rebecca Mackenzie

Account Technology Strategist, Local Regional
Government – Microsoft