

Innovation – Budget Manager Application and Budget Holder Sign Off

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Background/Journey of BI Development at East and North Herts NHS Trust

Timeline:

- 2005 East and North Herts Trust joined SBS Shared Services and used Oracle ledger system and associated business intelligence application
- **Prior to 2017** All financial and other business information (excluding routine budget statements) produced via excel datasets, pivot tables and sent out manually. No one version of truth for business intelligence!
- End 2016 Current CFO joined ENHT who had a background in using extensive BI through Qlikview applications
- 2017 Purchase Qlikview licenses and development of initial finance applications Budget Reporting, Budget Setting and Forecast Outturn
- 2017-18 Establishment of a Business Intelligence Function to create Qlikview applications across a range of domains.
- **2018-24** Expansion and development of Qlikview applications. Finance applications have largely continued to be developed by Finance team with expert input from BI team, if required.
- 2020 Development of Budget Manager App first application to have row level security/restricted access
- 2024 Development and refinement of existing applications to Power BI
- April 2025 Launch of all applications on Power BI

2 | Budget Manager App

Business Intelligence – Most Used Apps

Since 2017, Qlikview applications have been developed relating to Finance, People, Quality, Operations and Trust-wide. The most widely used 12 applications for each Domain are included on the Qlikview home page, with access to further apps available on drill down of domain name.

Business Intelligence				East and North Hertfordshire
Corporate	Quality	Operations	Finance	People
Board Dashboard	2222 Peri / Cardiac Arrest	Activity Recovery 2024-25	Budget Holder List and Sign-Off	e-Roster
Balanced Scorecard	Clinical Audit	Cancer	Budget Manager 2024-25	Enquire
Executive Dashboard	e-Observations	Diagnostics DM01	Budget Reports 2024-25	Job Planning
Access Plans	EPMA	Discharge Summaries	Budget Setting 2025-26	Long Term Trends
Clinical Coding	Friends and Family Test	ED Command Centre	CIP Tracker 2025-26	Medical Rostering
DQ APC Activity	National Data Opt-Out Search Tool	ED SitRep	CIP Tracker 2024-25	Payroll Listing
DQ Dashboard	Pharmacy	Outpatients	Drugs Trend	Prospective Vacancies
DQ KPIs	Pharmacy Demand	Patient Tracking List	ERF Expenditure Tracker 2024-25	Recruitment Pipeline
DQ Validations	Policy Compliance	RTT PTL	iSLR Reports 2024-25	Temporary Staffing
ED Coding Safety Net	Quality and Safety	RTT Validation	Pay Monitor Report 2024-25	Utilisation
ED Uncoded Attendances	Safeguarding	Theatres	Productivity 2024-25	Vacancies
Staff Vaccination Compliance	VTE	Trajectory Monitoring	SLA Monitoring 2024-25	Workforce Dashboard

3 | Budget Manager App

Business Intelligence – Finance Apps

• Below are some of the main finance Qlikview applications used. As we are transitioning to Power BI, we are using opportunity to streamline some apps, so there are fewer in total.

General	2024-25	Procurement	Financial Accounts	
Budget Holder List and Sign-Off	Bank and Agency 2024-25	NHS Supply Chain	Balance Sheet	
Drugs Trend	Budget Manager 2024-25	Non-Purchase Order	Capital 2024-25	
Expenses Claimed	Budget Reports 2024-25	Purchase Orders	Creditors Report	
ICS Financial Reporting	Budget Tracker 2024-26	Supplier History	Debtors Report	
Long Term Trends	CIP Tracker 2024-25	Non Catalogue	SI A Incomo	
CIP Tracker 2025-26	Detailed Transactions 2024-25	Non catalogue	SLA Income	
Budget Setting	ERF Expenditure Tracker 2024-25	Forecast Outturn	SLA Monitoring 2024-25	
Dudget Setting 2025-26		2024-25 Forecast Outturn (Draft)	SLR Reports	
Budget Setting 2025-20	Financial Reporting 2024-25			
	Pay Monitor Report 2024-25	2024-25 Actual vs. Forecast	iSLR Reports 2024-25	

Phase 1 – Development of Budget Manager App (1)

The Problem:

- Traditionally Budget Statements and Payroll Listings had been emailed out to budget holders direct from SBS. As this was a standard product, there wasn't any scope for flexibility in design and functionality of statements. The relevant Management Accountant didn't have copy of budget statement in same format as budget holder.
- The Qlikview budget reporting application shows budget statement, workforce (WTE) and trends at all levels and requires navigation by budget holder to show their cost centre level.
- There was no security restriction on the existing budget reporting application, so was unable to display sensitive information including payroll listings and detailed transactions.

The Aim of Budget Manager App:

- Develop simple, user friendly Qlikview application to show budget holder cost centre budget statements, with payroll listings and drill down to detailed transactions functionality.
- Restricted access to Budget Manager, their line manager(s) and finance only
- Include other useful information such as payroll, temporary staffing shifts and pay element trends, as well as non-PO compliance and salary overpayments.
- Budget Manager app to be used as key tool at budget meetings between management accountant and budget holder.

Phase 1 – Development of Budget Manager App (2)

- Key to development of Budget Manager application (and any other application) is linking datasets by a common factor.
- The cost centre number was a common factor in all of the datasets used in app below, with a full cost centre, account code combination used in others.



Phase 1 – Development of Budget Manager Application (3)

Restricting/Section Access:

- One of the key elements/challenges of this application (and others developed since) is developing and maintaining a section access list which restricts access to users at either cost centre, service or Division level, depending on role. This was extensively tested before launch of the application.
- The section access is maintained monthly in a simple excel file to reflect any starters, leavers or changes in Budget Manager responsibilities.

Launch of the Budget Manager Application:

- The Budget Manager application was launched in 2020 with training provided by the Management Accountants to their Budget Managers.
- This was supplemented by video training material on how to navigate the application, which was uploaded to the finance section of the ENHT learning academy.
- Since launch the application has been used by 250-300 users and is the most accessed Qlikview application within the Trust.
- Feedback has been really positive from Budget Managers due to the 'ease of use' of this application.

7 |Budget Manager App

Phase 1 – Budget Manager App (1)



number

8 Budget Manager App

Allows drill down to transaction by clicking on in month actual

Allows drill down to YTD transactions if select all months. Including link to purchase invoice image

Phase 1 – Budget Manager App (2)

Payroll Listing – Incl name, contracted WTE, worked Wte & £ (£) Charge (incl on Employee Subjective Code Subjective Description Worked WTE Contract WTE Employee Name Number costs) 5236 Nurse band 7 10508255 0.83 0.83 4,545 5236 Nurse band 7 32848967 0.40 0.40 2,152 Nurse band 7 4,496 5236 27203457 0.93 0.93 Totals: 2.16 2.16 11,193 5236 Nurse band 7 10509572 5268 Nurse band 6 0.80 0.80 5268 Nurse band 6 27748593-2 0.76 0.76 5268 Nurse band 6 30870448 0.64 0.64 5268 Nurse band 6 Totals:

32942230

29183580

26696505

25599655

0.40

0.60

0.40

2.00

0.00

0.00

8.36

3,738 2,728 Sta 2,448 2.20 2.20 8,913 25599655 1.00 1.00 3,008 1.00 1.00 3,008 10508094 1.00 6,159 1.00 1.00 1.00 6,159 32015647 0.60 1,541 0.60

0.40

0.60

0.40

2.00

0.00

0.00

8.36

924

1.621

1,047

5,133

87

87 34,493 **Temporary Staffing** – include date of shift, £ & WTE charged in month including retrospective shifts. Used to verify temporary workers & missing shifts

Account Description	Staff Name	Shift Month	Shift Date	GBP Value
Bank nurse band 4	Staff ABC	Jan 2025	10/01/2025	£155
Bank nurse band 4		Jan 2025	Shift Month Totals:	£155
Bank nurse band 4	Staff ABC	Staff Name Totals:		£155
Bank nurse band 4	Account Code Totals:			£155

Payroll Elements Trend – show monthly pay by payroll element. Used to identify any unexplained changes in pay

fName	Element Number and Desc	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25
	3006#Basic Pay Arrs							£1,974			
	3284#Sal Sac Grp 0 Arrs			£396							
	3483#Pension ER Arrs Undistributed			£57							
	3959#Basic Pay	£5,807	£5,807	£5,877	£5,822	£5,822	£5,822	£6,207	£6,159	£6,159	£6,159
	Non Payroll Source	£15		£203	£191	£191	£193	£189	£191	£191	£191
	Total	£5,822	£5,807	£6,533	£6,013	£6,013	£6,015	£8,370	£6,350	£6,350	£6,350
	3006#Basic Pay Arrs							£292			
	3959#Basic Pay	£1,549	£1,549	£1,542	£678						
	Total	£1,549	£1,549	£1,542	£678			£292			
	2370#High Cost Area Fringe						£73	£72	£77	£72	
	2967#High Cost Area Arrs							£4			
	3006#Basic Pay Arrs							£80			
	3959#Basic Pay						£1,460	£1,439	£1,546	£1,431	
	Total						£1,533	£1,596	£1,623	£1,503	

9 |Budget Manager App

5270

5270

5285

5285

5657

5657

5657

5657

5657

7270

7270

Totals:

Nurse band 4

Nurse band 4

Nurse Band 8A

Nurse Band 8A

Admin & Clerical band 3

Travel & Subsistence

Travel & Subsistence

Totals:

Totals:

Totals:

Totals:

Phase 2 – Budget Holder Sign Off & Comments

The Issue:

- How could we implement a system to monitor Budget Managers' review and sign-off of payroll information, such as contracted/worked whole-time equivalent (WTE)?
- This should reduce the number of salary overpayments and would help in identifying inaccuracies to ensure corrections are made promptly.

The Solution:

- Work with our BI/IT teams to implement a sign off page which is linked from the payroll listing tab on the Budget Manager application.
- The outputs from the sign off is saved to the data warehouse and a Budget Holder sign off application has been developed to monitor compliance and queries.

Phase 2 – Budget Holder Sign Off & Comments





Phase 2 – Budget Manager Sign Off Application (1)

- From the Budget Manager sign off, we can review sign off compliance, by Division or individual, which is reported at monthly Divisional Finance Review meetings with the CFO.
- As well as in month, the application shows the trend by Division and Budget Manager for signing off budgets

```
Intro
          Budget Holder Compliance
Budget Holder Compliance Report
 - +
                                        Summary
                                                       Compliant
                                                                    Non-Compliant Budget Holders
                                                                                      Total Budget
                                                                                                           Total Budget Holders
                                                                Total Budget
                                                                                                                                                                                    BH Training %
                                                                                                                                                           % Non Compliant
                                                                                                                                      % Compliant
  Q Search
                                                                                    Holders Compliant
                                                                  Holders
                                                                                                             Non Compliant
                                                                                                                                                                                     Compliant
 Filters
                                          Trust Wide
                                                                   396
                                                                                          288
                                                                                                                  108
                                                                                                                                         72.7%
                                                                                                                                                                27.3%
                                                                                                                                                                                       57.4%
                           Division
                           Care Group
  Service Line
                                         Planned Care
                                                                    93
                                                                                          65
                                                                                                                  28
                                                                                                                                         69.9%
                                                                                                                                                                30.1%
                                                                                                                                                                                       43.8%
  CostCentre
  CC Name
  Bud Mth
                                                                    93
                                                                                          60
                                        Unplanned Care
                                                                                                                  33
                                                                                                                                         64.5%
                                                                                                                                                                35.5%
                                                                                                                                                                                       69.8%
                          Signoffflag
  Pay Cost Centre
                          Name
                                                                    63
                                                                                                                   2
                                                                                                                                         96.8%
                                        Cancer Services
                                                                                          61
                                                                                                                                                                 3.2%
                                                                                                                                                                                       69.6%
 BH Training Comp...
                                           Corporate
                                                                    90
                                                                                          59
                                                                                                                  31
                                                                                                                                         65.6%
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 Current Selections
             2024-12-01
 Bud Mth
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 Pay Cost Cen... 🥥 🔻 🗖 ("Y")
                                                                    43
                                                                                                                   5
                                                                                                                                         88.4%
                                                                                                                                                                11.6%
                                                                                          38
                                                                                                                                                                                       50.0%
                                           Children's
```

Phase 2 – Budget Manager Sign Off Application (2)

- The free text/comments from the Budget Manager can be viewed on the sign off application.
- The management accounting team can review these comments in advance of any Budget Manager meeting and feedback at relevant meeting.
- If the Budget Manager highlights any discrepancy at draft review stage (WD1-4), then this can be corrected prior to the finalisation of position.

		Summary Comp	oliant Non-Complian	nt Budget Holders	3			
Q Search	•	Signoff Flag Signoff Date	BudgetHolder	→ CostCentre	CC Name	Bud Mth	Comments	_ 🗖 Signoff Flag
and a		, i i i i i i i i i i i i i i i i i i i						Yes
Filters		06/01/2025 16:50:50		170173	Ambulatory Care QE2	Dec-24		Yes
Division	 UNPLANNED CARE 	10/01/2025 13:21:23		170160	Ward 8B North	Dec-24	This is a closed ward and has no allocated staff. Payroll costs are rapid re	Yes
Care Group		11/02/2025 09:39:09		170160	Ward 8B North	Dec-24	Staff cost is bank duty matron cover for short term sickness as there is n	Yes
Service Line		16/01/2025 23:05:17		170168	AMU1	Dec-24	32911678 is listed as a grade 4 - What does this mean? should be a ban	Yes
CC Name	▼	16/01/2025 23:06:27		170169	Short Stay Unit - SSU	Dec-24	To be merged with cost centre 170168	Yes
Bud Mth	- Dec-24	03/01/2025 14:25:57		170013	Acute Medicine Admin	Dec-24		Yes
Signoffflag	* O	17/01/2025 13:27:16		170170	SDFC Lister	Dec-24	SUBJECTIVE CODE 5111 MAINTENANCE STAFE ASC GRADE 4 M MCHLVD	Yes
Pay Cost Centre Name BH Training Comp.	* <mark>Y</mark>	1., 01, 1010 1012/110		110170		20021		

Budget Manager App – Moving to Power Bl

Budget Manager Power BI

- Maintain all key features from Qlikview application
- To be tested in March 2025 and feedback obtained from Budget Managers
- Budget Manager Power BI launched from month 1 reporting

Key Developments for Power BI App:

- Introduce a Dashboard
- Allow Budget Managers to have an overview, and drill down, of all budgets combined (not just single cost centre)
- Combine existing Budget Manager and Budget Sign off Apps
- Include position against forecast, as well as budget
- Include reasons for temporary staffing bookings

Budget Manager App – DRAFT Dashboard



15 |Budget Manager App

Budget Manager App – DRAFT Budget Statement Overview

• Budget Manager can review overall position for all Budgets within their remit. Can drill down by Cost Centre or Expenditure type

Budget Manager A	hpp									Up	dated 11/09/	/2024 12:00
Fiscal Year	~											
2025	\sim	_£70V				£7 06	0	121	62		0 7	1
Fiscal Period Number	~	-L/OK	-13	JU		L/,00		T21	1.05		0.2.	L
10	\sim	In Month Variance	YTD	Variance		Monthly Movem	nent	Contrac	cted WTE	Recruitable Vacancy		
Division	~	Cost Contro Namo	Funded	Contracted	Worked	Appual Rudget	In Month	In Month	In Month	VTD Budgot	VTD Actual	VTD
All	\sim	COSt Centre Maine	WTE	WTE	WTE	Annual buuget	Budget	Actual	Variance	TTD Buuget	TTD Actual	Variance
Care Group, Service Line	~	Cardiology Radiographers	5.70	4,70	6.49	-f359.923	-£29,994	-f42.316	-f12.322	-£299.936	-f403.357	-f103.421
CG02-Acute (Care Group) + Card	iol 🗸	Cardiology Physiologists	49.18	42.72	44.89	-£3,144,429	-£261,954	-£295,895	-£33,941	-£2,620,521	-£2,985,418	-£364,897
Cost Centre Name, No.	\sim	Cardiology Outpatient Admin	0.00	0.00	0.13	£0	£0	-£1,472	-£1,472	£0	-£1,538	-£1,538
Multiple selections	\sim	Cardiology Administration	20.15	20.00	21.19	-£633,414	-£52,784	-£59,056	-£6,272	-£527,845	-£577,539	-£49,694
Ward Flag	~	Cardiology	27.61	28.25	27.55	-£4,901,000	-£410,134	-£412,777	-£2,643	-£4,080,731	-£4,314,294	-£233,563
A11		Acute Cardiac Unit	39.49	35.96	40.01	-£1,877,895	-£156,491	-£177,976	-£21,485	-£1,564,912	-£1,726,790	-£161,877
	~	Total	142.13	131.63	140.26	-£10,916,661	-£911,358	-£989,493	-£78,135	-£9,093,945	-	-£914,990
Pay/Non Pay/Income											£10,008,93 5	
All	\sim										3	

Questions and Contact Details

• Any Questions?

- Contact Details:
 - Katrina Doyle, Head of Group Finance <u>katrina.doyle@nhs.net</u>
 - Daniel Hayman, Head of Reporting <u>Daniel.haymanSCG@nhs.net</u>