

Armchair Auditing: What could possibly go wrong?

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Government Data Science Meetup



Upholding the Civil Service Code, lets remain impartial/apolitical.

In the spirit of 'Open Data', everything with free, and 'Open' tools:

- Linux (operating system)
- Python (data wrangling and statistical software)
- $\text{\LaTeX}$ (typesetting)

All the research you see here today is at:

github.com/crahal

Slides available via QR code:



How it started...

- UK always ~top of rankings re: govt. transparency.
- David Cameron opened up procurement (2010).
- A totally new type of (semi)-structured data.
- From LAs to NHS hierarchy to central government.
- ‘Open Data’ is worth ~2€bn (European Commission)
- **Armchair Auditors** hold public sector to account!
- Enormous potential for **academic research...**

WHAT COULD POSSIBLY GO WRONG?

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This could become a very long list.

DATA SCIENCE TO THE RESCUE!

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Lets see an example of the **cleanest** procurement file I could find

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A3131

Expenditure Over Threshold

Department Name	City	Entity	Business Sector	Program Name	Supplier	Invoice number	AP Amount	VAT registration number	Purchase Invoice number
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Clinic Public Sector	COMMUNITY SERVICES	BEXLEY COUNCIL	11599633	666 000 000	6100071866
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Clinic Public Sector	COMMUNITY SERVICES	BEXLEY COUNCIL	11599633	100 000 000	6100071861
Department of health	NHS	Beccy CCG	03042601	Other Gen Supplies & Inv	COMMUNITY SERVICES	BEXLEY COUNCIL	11599633	100 000 000	6100071867
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Clinic Public Sector	WYLLIE RESTAURANT	BEXLEY COUNCIL	11599632	64 000 000	6100071867
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	11607291	66 226 000	605483667
Department of health	NHS	Beccy CCG	03042601	Health Care Act 1999, F&A Contract	ACUTE COMMISSIONING - NON ACUTE	UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	11607291	66 226 000	605483667
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Voluntary Sector	COMMUNITY SERVICES	BEXLEY COUNCIL	11615604	30 000 000	6100071865
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Independent Sector	ACUTE COMMISSIONING	HN-HEALTH LTD	11615604	38 526 246	HL00056682
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	NEWWAY NHS FOUNDATION TRUST	11615604	18 167 474	787424655
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Voluntary Sector	HOSPICES	GREENWICH & BEXLEY COMMUNITY HOSPICE	11615604	218 000 000	871
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	LEWISHAM & GREENWICH NHS TRUST	11615604	4 440 144 000	2446267
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	COMMUNITY SERVICES	NHS PROPERTY SERVICES LTD	11615604	21 575 114	48402594
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	COMMUNITY SERVICES	NHS PROPERTY SERVICES LTD	11615604	25 672 835	48413715
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	CARTFORD AND GRAVESEND NHS TRUST	11615604	200 000 000	2000004184
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	CARTFORD AND GRAVESEND NHS TRUST	11615604	200 000 000	2000004185
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11615604	-3 662 116 34	CM00218970
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	COMMUNITY SERVICES	BEXLEY HEALTH LTD	11615604	26 332 445	BN10663
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	AMBULANCE SERVICES	LONDON AMBULANCE SERVICE NHS TRUST	11661375	587 757 239	10011114
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11669893	766 836 000	227 489
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11669893	766 836 000	233561
Department of health	NHS	Beccy CCG	03042601	Cont Care Adult 100% Fully Funded	FUNDED NURSING CARE	BURA CARE HOMES	11669893	26 812 000	2367911641
Department of health	NHS	Beccy CCG	03042601	Charges From GCU	RECHARGES	NHS SOUTH EAST GCU	11669893	85 249 000	GB654442045
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11701003	278 828 000	1206094
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	MOORFIELDS EYE HOSPITAL NHS FOUNDATION TRUST	11650115	82 568 000	CM00254903
Department of health	NHS	Beccy CCG	03042601	Hilton-Foundation Trusts	COMMUNITY SERVICES	OXLEAS NHS FOUNDATION TRUST	11701702	228 968 000	278586
Department of health	NHS	Beccy CCG	03042601	Hilton-Foundation Trusts	COMMUNITY SERVICES	OXLEAS NHS FOUNDATION TRUST	11701702	141 917 000	37932
Department of health	NHS	Beccy CCG	03042601	Hilton-Foundation Trusts	COMMUNITY SERVICES	OXLEAS NHS FOUNDATION TRUST	11701702	807 726 000	37992
Department of health	NHS	Beccy CCG	03042601	Income Mx < 11%	BALANCE SHEET	HARC	11701702	47 733 000	604462331
Department of health	NHS	Beccy CCG	03042601	Income Mx < 11% Student Loans	BALANCE SHEET	HARC	11701702	738 000	604462331
Department of health	NHS	Beccy CCG	03042601	National Insurance - 1 + NHS-RMS	BALANCE SHEET	HARC	11701702	29 114 846	604462331
Department of health	NHS	Beccy CCG	03042601	National Insurance - 1 + NHS-RMS	BALANCE SHEET	HARC	11701702	19 284 116	604462331
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11722481	213 435 000	2029126
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11722481	268 141 000	229584
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11722481	275 000 000	1000044338
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11722481	266 424 000	231364
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11724114	224 739 000	2029126
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Clinic Public Sector	PLANNED CARE	LEASIDE EYE TRUST	11724114	449 310 000	CM00262676
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	QUEEN VICTORIA HOSPITAL NHS FOUNDATION TRUST	11738362	-26 056 34	1365
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	MOORFIELDS EYE HOSPITAL NHS FOUNDATION TRUST	11738362	53 540 000	CM002686
Department of health	NHS	Beccy CCG	03042601	Hilton-Foundation Trusts	COMMUNITY SERVICES	OXLEAS NHS FOUNDATION TRUST	11748440	246 956 000	17541
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	QUEEN VICTORIA HOSPITAL NHS FOUNDATION TRUST	11748368	47 300 000	201000982
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	BATES HEALTH UNIT TRUST	11771723	10 000 000	263232
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	CARTFORD AND GRAVESEND NHS TRUST	11771723	2 691 512 000	1000044338
Department of health	NHS	Beccy CCG	03042601	Hilton-Foundation Trusts	MENTAL HEALTH CONTRACTS	SOUTH LONDON AND MAUDSLAY NHS FOUNDATION TRUST	11777627	25 202 000	80002737
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Independent Sector	COMMUNITY SERVICES - NON ACUTE	BEXLEY COUNCIL	11777627	46 381 000	CM00218970
Department of health	NHS	Beccy CCG	03042601	Hilton-Foundation Trusts	MENTAL HEALTH CONTRACTS	OXLEAS NHS FOUNDATION TRUST	11782362	1 726 324 000	37987
Department of health	NHS	Beccy CCG	03042601	Hilton-Foundation Trusts	MENTAL HEALTH CONTRACTS	OXLEAS NHS FOUNDATION TRUST	11801176	36 000 000	37986
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ESTATES AND FACILITIES	NHS PROPERTY SERVICES LTD	11801176	15 000 000	48413831
Department of health	NHS	Beccy CCG	03042601	Hilton-Foundation Trusts	CHILD AND ADOLESCENT MENTAL HEALTH	OXLEAS NHS FOUNDATION TRUST	11801820	258 781 000	37905
Department of health	NHS	Beccy CCG	03042601	Hilton-Foundation Trusts	CHILD AND ADOLESCENT MENTAL HEALTH	OXLEAS NHS FOUNDATION TRUST	11811940	55 506 000	37904
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Clinic Public Sector	LEARNING DIFFICULTIES	BEXLEY COUNCIL	11811940	20 000 000	6050019263
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Voluntary Sector	HOSPICES	GREENWICH & BEXLEY COMMUNITY HOSPICE	11811940	276 741 000	589
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Independent Sector	HOSPICES	GREENWICH & BEXLEY COMMUNITY HOSPICE	11811940	276 741 000	589
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11824800	1 869 517 000	605426016
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Clinic Public Sector	LEARNING DIFFICULTIES	BEXLEY COUNCIL	11844467	250 000 000	6100071247
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	11844467	1 167 126	605426016
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Independent Sector	COMMUNITY SERVICES	BELLEVUE ROAD SURGERY	11863391	66 592 339	BA0302016
Department of health	NHS	Beccy CCG	03042601	Healthcare Srv Res CCG	NHS 111	NHS BROMLEY CCG	11923323	71 747 887	1702302149
Department of health	NHS	Beccy CCG	03042601	Clinical/Medical-Independent Sector	COMMUNITY SERVICES	CARTFORD AND GRAVESEND NHS TRUST	11923323	26 700 000	CM00218970
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11923323	1 137 848 898	234497
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	GUY'S & ST THOMAS HOSPITAL NHS FOUNDATION TRUST	11931140	1 456 983 000	6054923417
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	LEWISHAM & GREENWICH NHS TRUST	11931140	1 133 848 898	6054923417
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	LEWISHAM & GREENWICH NHS TRUST	11933581	-129 548 000	5464605
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11951810	1 167 569 000	232736
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11951810	200 000 000	CM00218970
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11951810	229 254 239	232342
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11951810	-411 000 000	CM00218970
Department of health	NHS	Beccy CCG	03042601	Cont Care Adult 100% Fully Funded	CHC AD FULL FUND PERKS HLTH FUND	BEXLEY COUNCIL	11951810	205 574 797	6100071866
Department of health	NHS	Beccy CCG	03042601	Health Srv Res NHS Trust-Contract Baseline	ACUTE COMMISSIONING	UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	11959239	66 226 000	605483667

Expenditure Over Threshold

Armchair Auditing: What could possibly go wrong?

Expenditure Over Threshold

Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Other Public Sector	COMMUNITY SERVICES	BESELY COUNCIL	11595633	658,002.00	6100071658
Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Other Public Sector	COMMUNITY SERVICES	BESELY COUNCIL	11595662	100,000.00	6100071661
Department of Health	NH	Beasey	CGG	10/04/2021	Other Gen. Supplies 1-5 Yr	COMMUNITY SERVICES	BESELY COUNCIL	11595662	80,556.67	6100071672
Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Other Public Sector	Winter Resilience	BESELY COUNCIL	11595662	64,800.00	6100071687
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	CHC - COMMUNITY SERVICES	UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	11007201	68,256.00	650498667
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	CHC - COMMUNITY SERVICES	CRAFTFORD AND GRAVESEND NHS TRUST	11562030	68,256.00	650498667
Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Voluntary Sector	COMMUNISING - NON ACUTE	BESELY COUNCIL	11615604	30,000.00	6100071699
Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Independent Sector	ACUTE COMMUNISING	NHS HEALTH LTD	11615704	38,542.56	787424666
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	ACUTE COMMUNISING	NEWCASTLE NHS FOUNDATION TRUST	11623784	38,542.56	787424666
Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Voluntary Sector	HOSPICES	GREENWICH & BESELY COMMUNITY HOSPICE	11628377	213,000.00	897
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	ACUTE COMMUNISING	GREENWICH & BESELY COMMUNITY HOSPICE	11628377	213,000.00	897
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	PROGRAMME PROJECTS	NHS PROPERTY SERVICES LTD	11661167	218,726.14	4456027
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	PROGRAMME PROJECTS	NHS PROPERTY SERVICES LTD	11661167	218,726.14	4456027
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	ACUTE COMMUNISING	GREENWICH & BESELY COMMUNITY HOSPICE	11662864	25,672.53	48413719
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	ACUTE COMMUNISING	CRAFTFORD AND GRAVESEND NHS TRUST	11662864	25,672.53	48413719
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	PLANNED CARE	CRAFTFORD AND GRAVESEND NHS TRUST	11662864	25,672.53	48413719
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11664620	200,000.00	6100041390
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	PLANNED CARE	BESELY HEALTH LTD	11664620	200,000.00	6100041390
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	AMBULANCE SERVICES	LONDON AMBULANCE SERVICE NHS TRUST	11663735	897,757.39	6549671392
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11663869	166,836.50	227489
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11663869	166,836.50	227489
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	FUNDRY NURSING CARE	BUSJA CARE HOMES	11665942	26,912.00	239731461
Department of Health	NH	Beasey	CGG	10/04/2021	Change Care- Adult 100% Fully Funded	RECHARGES	NHS SOUTH EAST TRUST	11665995	85,259.00	00644442406
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	ACUTE COMMUNISING	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11670500	29,000.00	6100071699
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	ACUTE COMMUNISING	MOORFIELD EYE HOSPITAL NHS FOUNDATION TRUST	11680116	82,568.00	6100071699
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
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Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
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Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
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Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
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Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trst-Contrat Baseline	COMMUNITY SERVICES	OCELEX NHS FOUNDATION TRUST	11701702	208,596.00	37656
Department of Health										

Expenditure Over Threshold

Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Other Public Sector	COMMUNITY SERVICES	BESELY COUNCIL	11595633	658,002.00	6100071658
Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Other Public Sector	COMMUNITY SERVICES	BESELY COUNCIL	11595662	100,000.00	6100071661
Department of Health	NH	Beasey	CGG	10/04/2021	Other Gen. Supplies 1-5 yr	COMMUNITY SERVICES	BESELY COUNCIL	11595662	80,556.67	6100071661
Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Other Public Sector	Winter Resilience	BESELY COUNCIL	11595662	64,800.00	6100071687
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	CHC - COMMUNITY SERVICES	UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	11007201	65,256.00	610008684
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	CHC - COMMUNITY SERVICES	CANTFORD AND GRAVESEND NHS TRUST	11562030	65,256.00	610008684
Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Voluntary Sector	COMMISINGING - NON ACUTE	BESELY COUNCIL	11615604	30,000.00	6100070989
Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Independent Sector	ACUTE COMMISINGING	NHS HEALTH LTD	11615710	38,240.00	610026662
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	ACUTE COMMISINGING	NEWCASTLE NHS FOUNDATION TRUST	11623784	38,240.00	610026662
Department of Health	NH	Beasey	CGG	10/04/2021	Clinical/Medical-Voluntary Sector	HOSPICES	GREENWOOD & BESELY COMMUNITY HOSPICE	11618137	218,000.00	6100071697
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	ACUTE COMMISINGING	GREENWOOD & BESELY COMMUNITY HOSPICE	11618137	218,000.00	6100071697
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PROGRAMME PROJECTS	NHS PROPERTY SERVICES LTD	11614167	218,724.00	6100070294
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PROGRAMME PROJECTS	NHS PROPERTY SERVICES LTD	11642664	25,675.00	6100070294
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	ACUTE COMMISINGING	CANTFORD AND GRAVESEND NHS TRUST	11562030	250,000.00	6100071684
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	ACUTE COMMISINGING	CANTFORD AND GRAVESEND NHS TRUST	11562030	250,000.00	6100071684
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	-3,563.1130	6100081976
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	11,655.00	6100081976
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	697,757.39	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	168,836.50	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
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Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
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Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
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Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
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Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11564529	25,150.00	610011214
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Department of Health	NH	Beasey	CGG	10/04/2021	Health Srv Rec Fdtn Trust-Contract Baseline	PLANNED CARE	KING'S COLLE			

Expenditure Over Threshold

[illegible]

Expenditure Over Threshold

Armchair Auditing: What could possibly go wrong?

Expenditure Over Threshold

Armchair Auditing: What could possibly go wrong?

A3131

Expenditure Over Threshold

Department Name	City	County	Contract Name	Contract Type	Supplier	Invoice Number	Net A/P Amount	Registration number	Business Invoice number
Department of health	Benley	CGO	Clinical/Medical-Clinic Public Sector	COMMUNITY SERVICES	BEXLEY COUNCIL	11595833	466,000.00		6100071665
Department of health	Benley	CGO	Clinical/Medical-Clinic Public Sector	COMMUNITY SERVICES	BEXLEY COUNCIL	11595825	100,000.00		6100071661
Department of health	Benley	CGO	Older Gen Supplies & Inv	COMMUNITY SERVICES	BEXLEY COUNCIL	11595827	15,669.00		6100071669
Department of health	Benley	CGO	Clinical/Medical-Clinic Public Sector	WILLER MANSON	BEXLEY COUNCIL	11595892	64,000.00		6100071687
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	11607291	68,226.00	604385857	610008944
Department of health	Benley	CGO	Heath Sln Res 100% Fully Funded	ACUTE COMMISSIONING	UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	11607292	15,000.00	604385857	610008950
Department of health	Benley	CGO	Clinical/Medical-Voluntary Sector	COMMUNITY SERVICES	BEXLEY COUNCIL	11615024	30,000.00		6100071693
Department of health	Benley	CGO	Clinical/Medical-Independent Sector	ACUTE COMMISSIONING	HEALTHY LIFE FOUNDATION TRUST	11615010	38,528.24	70742405	HL02055682
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	HEALTHY LIFE FOUNDATION TRUST	11615011	58,147.4		HL02055682
Department of health	Benley	CGO	Clinical/Medical-Voluntary Sector	HOSPICES	GREENWICH & BEXLEY COMMUNITY HOSPICE	11615337	218,000.00		6100071677
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	LEWISHAM & GREENWICH NHS TRUST	11634201	4,440.144		6100071682
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	COMMUNITY SERVICES	NHS PROPERTY SERVICES LTD	11634202	21,517.0		6100071682
Department of health	Benley	CGO	Kent	PROGRAMME PROJECTS	NHS PROPERTY SERVICES LTD	11642864	25,672.3		6100071682
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	BARFORD AND GRAVESEND NHS TRUST	11642865	25,672.3		6100071682
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	BARFORD AND GRAVESEND NHS TRUST	11642866	25,672.3		6100071682
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11654420	-3,662.118		CM00218970
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	COMMUNITY SERVICES	AMBULANCE SERVICES	11665329	26,332.45		6100071682
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	LONDON AMBULANCE SERVICE NHS TRUST	11665330	587,757.29	604381192	ML011114
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11665983	78,636.00		227489
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11665985	76,630.34		233561
Department of health	Benley	CGO	Cont Care Adult 100% Fully Funded	FUNDED NURSING CARE	BURA CARE HOMES	11665986	26,412.00	2359711641	ALM036932YOMALM036938
Department of health	Benley	CGO	Charges From GCU	RECHARGES	NHS SOUTH EAST GCU	11665999	85,249.00	GB054442045	7311609994
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11701003	278,328.00		1206094
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	WOOLFELDS EYE HOSPITAL NHS FOUNDATION TRUST	11650115	82,558.00		CM0025903
Department of health	Benley	CGO	Hinew-Foundation Trusts	COMMUNITY SERVICES	OXLEAS NHS FOUNDATION TRUST	11701702	228,989.00		278586
Department of health	Benley	CGO	Hinew-Foundation Trusts	COMMUNITY SERVICES	OXLEAS NHS FOUNDATION TRUST	11701703	141,917.00		278586
Department of health	Benley	CGO	Hinew-Foundation Trusts	COMMUNITY SERVICES	OXLEAS NHS FOUNDATION TRUST	11701710	807,726.00		278586
Department of health	Benley	CGO	Income Mx < 11	BALANCE SHEET	HMRG	11720068	47,713.0	604462333	1200205565770 MAR 10
Department of health	Benley	CGO	Income Mx < 11 - Student Loans	BALANCE SHEET	HMRG	11720068	738.00	604462333	1200205565770 MAR 10
Department of health	Benley	CGO	National Insurance < 1 - YN-P-RMS	BALANCE SHEET	HMRG	11720068	29,114.84	604462333	1200205565770 MAR 10
Department of health	Benley	CGO	National Insurance < 1 - YN-P-RMS	BALANCE SHEET	HMRG	11720068	19,284.18	604462333	1200205565770 MAR 10
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11724081	213,245.00		202976
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11724082	288,141.00		202976
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11724083	27,300.00		202976
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11724084	264,424.00		202976
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11724114	224,793.00		202976
Department of health	Benley	CGO	Clinical/Medical-Clinic Public Sector	PLANNED CARE	LEAF & EVELYN	11734081	440.31		202976
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	QUEEN VICTORIA HOSPITAL NHS FOUNDATION TRUST	11738262	-20,596.00		1365
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	WOOLFELDS EYE HOSPITAL NHS FOUNDATION TRUST	11738269	30,540.00		CM002688
Department of health	Benley	CGO	Hinew-Foundation Trusts	COMMUNITY SERVICES	OXLEAS NHS FOUNDATION TRUST	11744040	548,505.00		13541
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	QUEEN VICTORIA HOSPITAL NHS FOUNDATION TRUST	11744386	47,900.00		201009982
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	BARTFORD AND GRAVESEND NHS TRUST	11771720	1,512.00		263322
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	BARTFORD AND GRAVESEND NHS TRUST	11771723	2,691,542.00		1000041308
Department of health	Benley	CGO	Hinew-Foundation Trusts	MENTAL HEALTH CONTRACTS	SOUTH LONDON AND MAUDSLAY NHS FOUNDATION TRUST	11777627	25,202.00		80007357
Department of health	Benley	CGO	Clinical/Medical-Independent Sector	COMMUNITY SERVICES	BEXLEY COUNCIL	11777628	1,000,000.00		6100071682
Department of health	Benley	CGO	Hinew-Foundation Trusts	MENTAL HEALTH CONTRACTS	OXLEAS NHS FOUNDATION TRUST	11778240	1,728,324.00		37897
Department of health	Benley	CGO	Hinew-Foundation Trusts	MENTAL HEALTH CONTRACTS	OXLEAS NHS FOUNDATION TRUST	11801176	30,000.00		37898
Department of health	Benley	CGO	Hinew-Foundation Trusts	ESTATES AND FACILITIES	NHS PROPERTY SERVICES LTD	11801410	51,209.19		484116351
Department of health	Benley	CGO	Hinew-Foundation Trusts	CHILD AND ADOLESCENT MENTAL HEALTH	OXLEAS NHS FOUNDATION TRUST	11801820	258,781.00		37895
Department of health	Benley	CGO	Hinew-Foundation Trusts	CHILD AND ADOLESCENT MENTAL HEALTH	OXLEAS NHS FOUNDATION TRUST	11813430	55,506.00		37894
Department of health	Benley	CGO	Clinical/Medical-Clinic Public Sector	LEARNING DIFFICULTIES	BEXLEY COUNCIL	11813431	21,410.00		6050019263
Department of health	Benley	CGO	Clinical/Medical-Voluntary Sector	HOSPICES	GREENWICH & BEXLEY COMMUNITY HOSPICE	11815190	276,741.00		589
Department of health	Benley	CGO	Clinical/Medical-Clinic Public Sector	HOSPICES	GREENWICH & BEXLEY COMMUNITY HOSPICE	11815191	276,741.00		589
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11844000	25,000.00	60428016	6100071687
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	BEXLEY COUNCIL	11844001	250,000.00		6100071687
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	11844002	1,167,126.00		6100071687
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	BARFORD AND GRAVESEND NHS TRUST	11844003	65,992.39		BA030216
Department of health	Benley	CGO	Healthcare Sln Res CCG	NHS 111	NHS BROMLEY CCG	11844004	71,747.88		1062101149
Department of health	Benley	CGO	Clinical/Medical-Independent Sector	COMMUNITY SERVICES	KAY-CARD TOWN SURGERY	11844005	36,700.00		6100071682
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11903375	1,137,446.48		234497
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	GUY'S & ST THOMAS HOSPITAL NHS FOUNDATION TRUST	11903376	999,999.99	604923417	2340559
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11903377	-3,103.21	604923417	2340559
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	LEWISHAM & GREENWICH NHS TRUST	11903381	-129,548.00		5446055
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11951010	1,167,000.00		233736
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11951011	1,167,000.00		CM00218969
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11951012	229,254.29		233540
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	PLANNED CARE	KING'S COLLEGE HOSPITAL NHS FOUNDATION TRUST	11951013	-411,000.00		CM00218970
Department of health	Benley	CGO	Cont Care Adult 100% Fully Funded	CHC AD FULL FUND PERKS HLTH RD	BEXLEY COUNCIL	11951014	209,574.97		6100071686
Department of health	Benley	CGO	Heath Sln Res P8th Trust-Contract Baseline	ACUTE COMMISSIONING	UNIVERSITY COLLEGE LONDON HOSPITALS NHS FOUNDATION TRUST	11951015	68,226.00	604385857	610008950

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3. Harmonize field names.

What does a typical ETL pipeline look like in this domain?

1. Set up (thousands) of webscrapers.
2. Set up a parsing module to ingest heterogenous files.
3. Harmonize field names.
4. Clean for typing errors, parsing mishaps, etc.

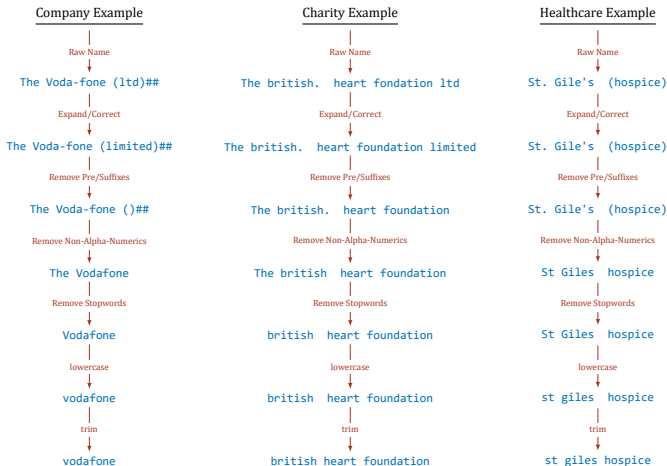
What does a typical ETL pipeline look like in this domain?

1. Set up (thousands) of webscrapers.
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4. Clean for typing errors, parsing mishaps, etc.
5. Reconcile against institutional registers.

What does a typical ETL pipeline look like in this domain?

1. Set up (thousands) of webscrapers.
2. Set up a parsing module to ingest heterogenous files.
3. Harmonize field names.
4. Clean for typing errors, parsing mishaps, etc.
5. Reconcile against institutional registers.
6. Analysis. Hurrah!

A key part to 'reconciliation' is 'normalisation':



This greatly helps increase the frequency and quality of matches.

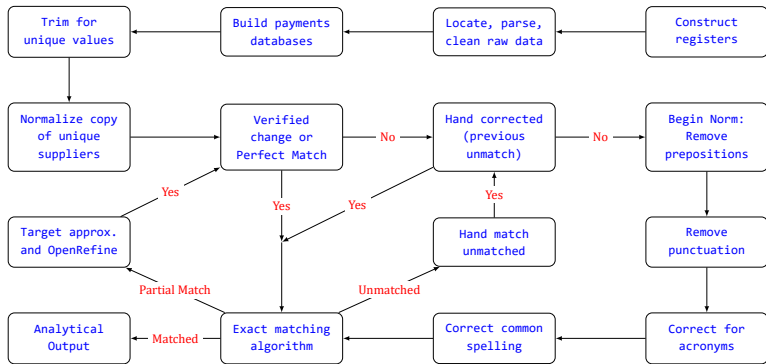
Example Reconciliation Issue

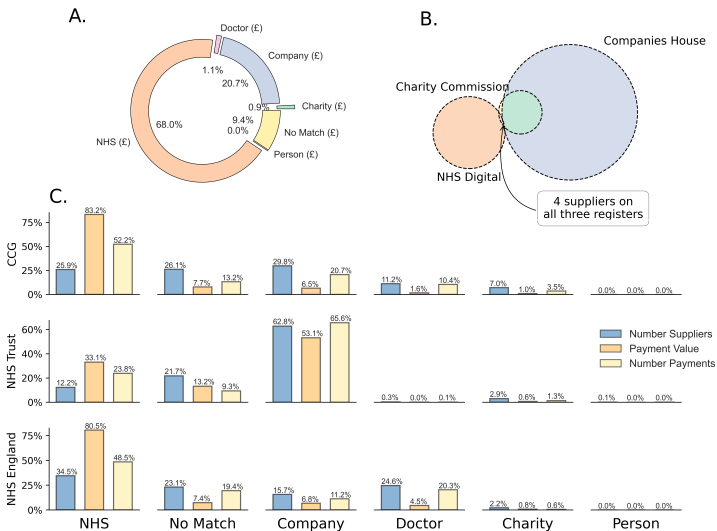
These are two real companies:

1. THE HEARTH CENTRE (HORSLEY) LTD
(Company number 04929060)
2. THE HEARTH CENTRE
(Company number 07219435)

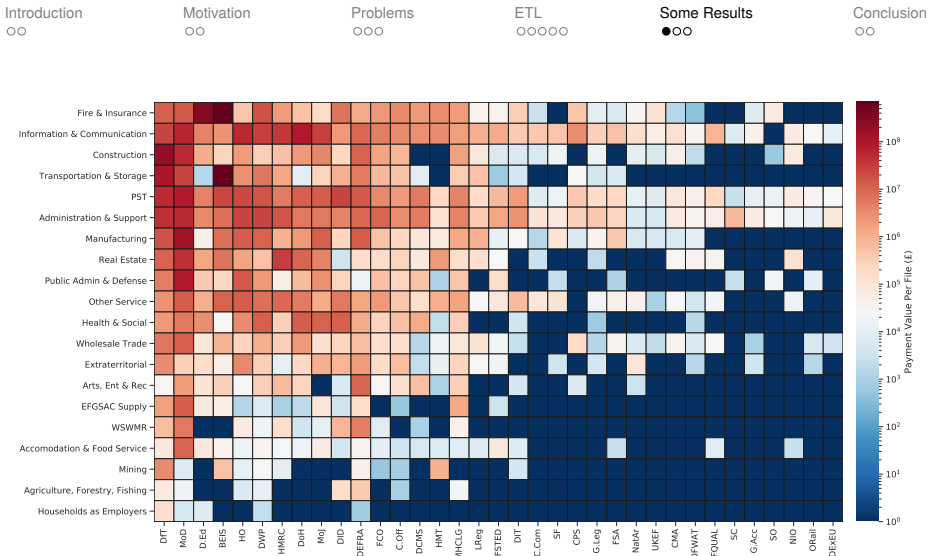
What happens if we normalize names as per the previous slide?

Many Possible Paths to Take

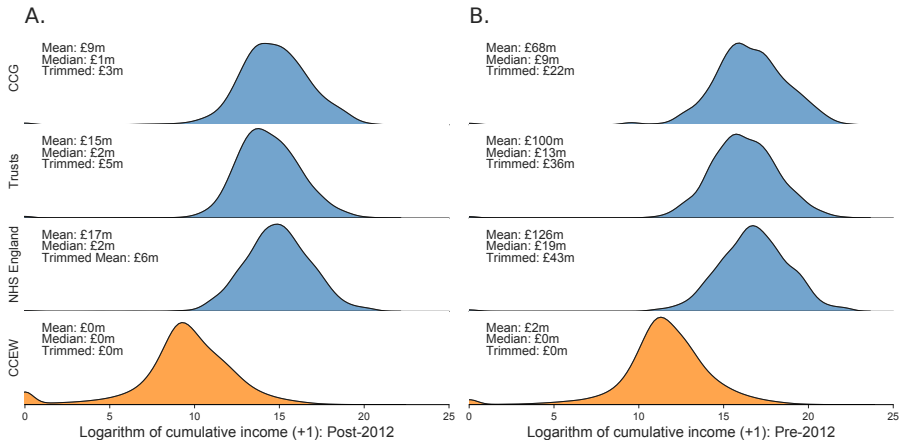




‘What can we match?’



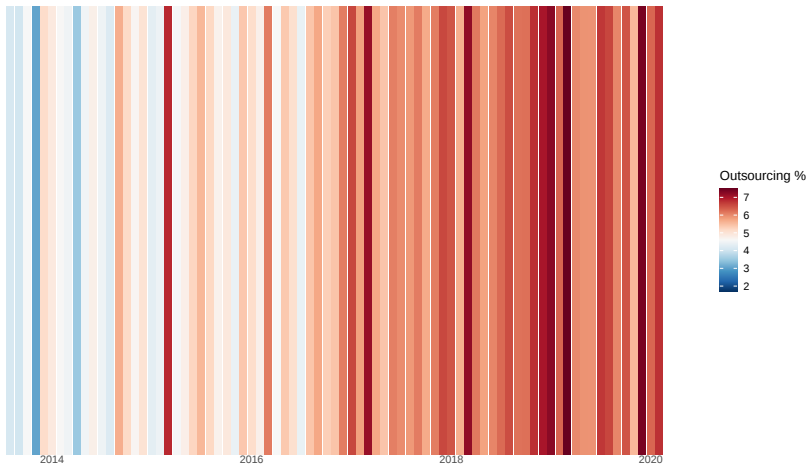
‘Tools for Transparency in Central Government Spending’



‘The Role of Non-Profits in Public Health Service Provision’

With John Mohan

Creeping Privatisation in England's NHS



Source: Raw CCG payments approximately matched to Companies House and the Charity Commission, then manually verified

‘Outsourcing health-care services to the private sector’

By Ben Goodair and Aaron Reeves

Conclusion

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Conclusion

- This data is messy, and difficult to work with.
- Tools of data science provide an enormous help.
- Manual wrangling/reconciling at times unavoidable.
- The benefits of cleaning this data are (**still**) huge.
- **A lot** more to be done in this area!
- We're currently finishing a dashboard.
 - Please get in contact if you'd like to be involved!

Thank you for attending!

Thank you to my collaborators!

Don't hesitate to get in touch at:

charles.raham@demography.ox.ac.uk

and

github.com/craham!