

Spend and outcome tool: Home								
	Organisation	Cambridgeshire		Туре	LA			
				Period	2015			

Cambridgeshire

The Spend and Outcome Tool (SPOT) gives organisations in England an overview of spend and outcomes across key areas of business.

The profile supports understanding of the overall relationship between spend and outcomes, by identifying areas of significant variance which are likely to require more in-depth analysis.

SPOT includes a large number of measures of spend and outcomes from several different frameworks. A number of different benchmarks are used to provide a range of peer comparisons.

SPOT has been developed as part of the Public Health England health economics programme.

A video introduction to the use of SPOT is available on the SPOT website.

CCG financial data cannot be compared between years (see FAQ).

Contact: Please do send your feedback, ask a question, report a problem or suggest an improvement.

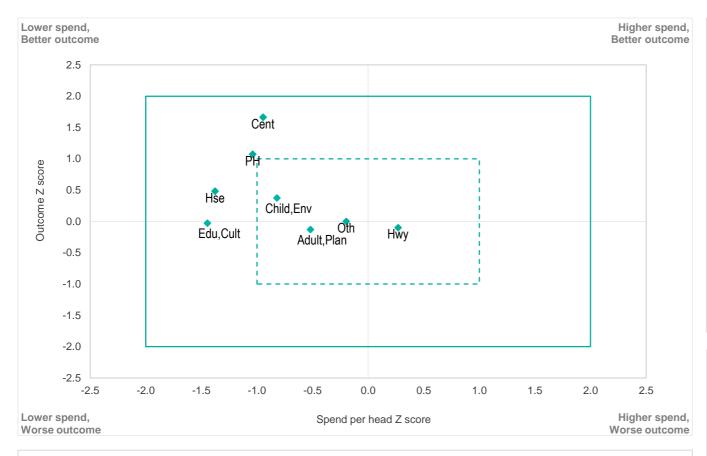
healtheconomics@phe.gov.uk

Group membership								
Collection	Group							
Local authority type	County							
PHE centre	East of England							
Core city status	Non-Core City							
ONS cluster	Prosperous England							
Deprivation decile	Deprivation decile 1 - Most affl							

Top 10 areas by spend per head								
Programme	Spend							
Total	£1,006							
Education	£517							
Social Care - Adults	£252							
Social Care - Child	£124							
Highways	£55							
Env & Reg	£51							
Public Health	£32							
Central	£15							
Cultural	£13							
Planning	£7							
Housing	£0							

Public Health
England

Spend and outcome tool: Quadrant chart Organisation Cambridgeshire Type LA O Weighted Unweighted outcomes Period 2015



Z score:

A z score essentially measures the distance of a value from the mean (average) in units of standard deviations. A positive z score indicates that the value is above the mean, whereas a negative z score indicates that the value is below the mean. A z score below -2 or above +2 may indicate the need to investigate further. Each dot represents a programme budget category.

Interpreting the chart:

Each dot represents a programme budget category. The outcome measures on the chart have been chosen because they are reasonably representative of the programme as a whole. This means that for Other and Total programmes no outcome data is available. The source data for the outcome measures shown on the chart can be found in the Spend and Outcome Tool.

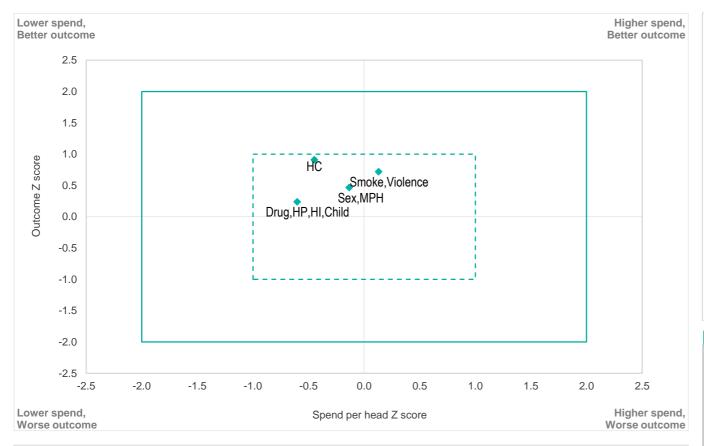
A programme lying outside the solid +/- 2 z scores box, may indicate the need to investigate further. If the programme lies to the left or right of the box, the spend may need reviewing, and if it lies outside the top or bottom of the box, the outcome may need reviewing. Programmes outside the box at the corners may need a review of both spend and outcome. Programmes lying outside the dotted/thin +/- 1 z score box may also warrant further exploration.

Details of the specific spend and outcome measured used are available in the Reference tab.

Local authority quadrant chart key						
Adult	Social Care (Adult)					
Cent	Central					
Child	Social Care (Children)					
Cult	Cultural					
Edu	Education					
Env	Environment & Regulatory					
Hse	Housing					
Hwy	Highways					
Oth	Other					
PH	Public Health					
Plan	Planning					



Spend and outcome tool: Programme-specific quadrant chart									
Organisation	Cambridgeshire	Туре	LA						
Programme	Public Health	Period	2015	1					



Z score:

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Interpreting the chart:

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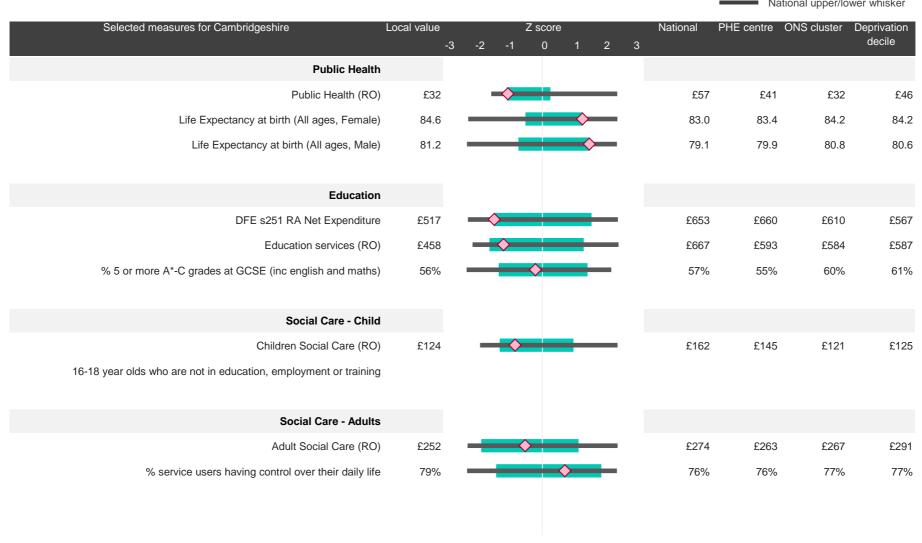
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Details of the specific spend and outcome measures used are contained in the Reference tab.

Public health quadrant chart key									
Child	Child PH	MPH	Mental PH						
Drug	Drugs & Alcohol	Smoke	Tobacco						
HC	Healthcare PH	Sex	Sexual Health						
HI	Health Improveme	ent							
HP	Health Protection								
MPH	Mental PH								
Violenc	e Violence & Injury								



Spend and outcome tool: Multi-programme spine chart										
Organisation	Cambridgeshire	Туре	LA	Legend						
		Period	2015	\Q	Cambridgeshire PHE centre upper/lower					



Selected measures for Cambridgeshire	Local value -	Z score 3 -2 -1 0 1	2 3 	ational	PHE centre	ONS cluster	Deprivation decile
Housing							
Housing services (GFRA only) (RO)	£0		_	£35	£19	£15	£18
% (LA-owned) non-decent homes	0.0%			5.1%	1.7%	2.6%	1.7%
Env & Reg							
Environmental and regulatory services (RO)	£51	-	_	£90	£68	£70	£166
First time entrants to the youth justice system aged 10-17	358	*	-	439	429	346	337
Planning							
Planning and development services (RO)	£7	•		£27	£16	£12	£64
Processing of major planning applications in target			_	78%	75%	71%	69%
Highways							
Highways and transport services (RO)	£55	•	_	£47	£53	£59	£48
Principal roads where maintenance should be considered	3%	•		6%	3%	4%	6%
Cultural							
Cultural and related services (RO)	£13	\rightarrow	_	£80	£27	£25	£394
Adult participation in 30 minutes, moderate intensity sport			-	36%	33%	39%	36%
Central							
Central services (RO)	£15	\rightarrow		£64	£30	£28	£120
Annual employment rate, aged 16-64	80%	•		72%	75%	78%	77%

Selected measures for Cambridgeshire	Local value		Z score						National	PHE centre	ONS cluster	Deprivation
		-3	-2 -	1	0	1	2	3				decile
Total												
TOTAL SERVICE EXPENDITURE (inc PH) (RO)	£1,006						I		£1,582	£1,267	£1,220	£2,611
Index of Multiple deprivation 2010	12.5	-							23.1	17.7	11.7	13.5



Spend and outcome tool: Programme spine chart										
Organisation	Cambridgeshire	Туре	Legend	0 1 11 11						
Programme	Public Health	Period 2015		Cambridgeshire PHE centre upper/lower						
				National upper/lower whisker						

								Na	itional upper/lo	wer whisker
Local value	-3 -	2 -1	Z score 0	1	2	3	National	PHE centre	ONS cluster	Deprivation decile
ı										
£32							£57	£41	£32	£46
84.6	-			\			83.0	83.4	84.2	84.2
81.2	-			\rightarrow			79.1	79.9	80.8	80.6
) 66.8	-	-		\	_		63.3	65.0	67.7	66.8
) 65.0	-		•	\diamond	_		62.6	64.2	66.7	65.2
3										
) 1.5	-			\			-0.1	0.3	1.1	1.0
1.8	-			\	_		-0.3	0.4	1.4	1.2
12%	-			\			20%	18%	12%	13%
12%	-			\			20%	17%	11%	12%
9.9	-			\			12.0	12.0	10.5	11.0
5.0	-						6.2	6.2	5.2	5.5
6.8	-		•	\			8.4	8.2	6.8	7.0
319%	-						358%	319%	353%	350%
4.2%	-			\			5.3%	5.4%	4.3%	4.1%
12.5	-			\	-		23.1	17.7	11.7	13.5
) 11.6	-			\Diamond			19.0	15.9	9.9	11.4
	1 £32 3 84.6 3 81.2 66.8 65.0 65.0 1.5 1.8 1.2% 1.2% 1.2% 1.5 1.8 1.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	-3 -3 -1 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	-3 -2 -1 1	-3 -2 -1 0 1	-3 -2 -1 0 1 £32 84.6 81.2 66.8 1.5 1.8 1.8 1.9 1.9 1.9 1.9 1.9 1.9	-3 -2 -1 0 1 2 £32 84.6 81.2 66.8 65.0 1.5 1.8 12% 9.9 5.0 6.8 319% 4.2% 12.5	-3 -2 -1 0 1 2 3 6 84.6 81.2 6 6.8 6 5.0 1.5 1.8 1.2% 9.9 5.0 6.8 319% 4.2% 12.5	1.5	Local value	1.5

Selected measures for Cambridgeshire	Local value -3	Z score -2 -1 0 1 2 3	National	PHE centre	ONS cluster	Deprivation decile
Tobacco Control						
Smoking and tobacco - Stop smoking services and interventions (RO)	£2.40	—	£2.50	£2.29	£1.83	£2.91
Smoking and tobacco - Wider tobacco control (RO)	£0.15	•	£0.33	£0.31	£0.23	£0.34
Smoking Prevalence	14%	—	19%	18%	15%	16%
Smoking prevalence - routine & manual	27%	◆	28%	28%	27%	25%
Smoker at time of delivery	11%		13%	11%	10%	10%
Smoking attributable mortality	230	•	305	274	239	245
Smoking attributable hospital admissions	1630	•	1756	1660	1315	1394
Deaths from lung cancer	47	•	65	57	49	49
Deaths from chronic obstructive pulmonary disease	41	•	56	48	41	41
Drugs and Alcohol						
Substance misuse - Alcohol misuse - adults (RO)	£1.89	•	£4.30	£2.79	£2.38	£3.98
Substance misuse - Drug misuse - adults (RO)	£7.21		£11.48	£8.53	£6.22	£8.29
Substance misuse - (drugs and alcohol) - youth services (RO)	£0.71		£1.15	£1.01	£0.58	£1.24
Months of life lost due to alcohol (Men, <75yr)	9.1		12.5	10.4	9.3	9.9
Months of life lost due to alcohol (Women, <75yr)	4.4		5.8	4.7	4.6	5.4
Alcohol-related mortality (Persons)	38.5		46.5	41.7	39.1	39.1
Mortality from chronic liver disease (Persons)	8.3	•	12.6	9.4	9.2	9.7
Alcohol-specific hospital admission (Persons)	305	•	399	287	255	297
Claimants of benefits due to alcoholism	61	•	142	83	66	89
Successful completion drug treatment - opiate users	8.0%	•	8.2%	8.2%	8.3%	8.6%
Successful completion drug treatment - non-opiate users	39%	•	37%	34%	34%	37%
Hospital admissions due substance misuse (15-24 yr)	62.2		88.5	63.5	60.9	69.7

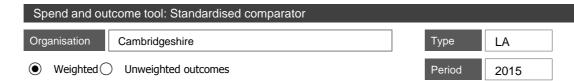
Selected measures for Cambridgeshire	Local value	Z score -3 -2 -1 0 1 2 3	National	PHE centre	ONS cluster	Deprivation decile
Violence and Injury						
Hospital admissions for violence	27.1	\	56.0	41.1	28.9	35.0
Violence offences	7.1	•	12.1	10.9	8.1	13.2
Hospital admissions with injuries in children (<15 yrs, Persons)	100		115	97	101	105
Hospital admissions with injuries in young people (15-24 yrs, Persons)	133		140	128	129	133
Domestic Abuse	17.8	◆	19.4	17.3	16.8	15.3
Injuries due to falls (65+ yrs, Persons)	2020		2099	1918	1881	1944
Killed and seriously injured road casualties (All ages, Persons)	49.8		41.9	39.3	40.5	88.6
Children killed or seriously injured in road traffic accidents	16.3	•	19.4	16.0	13.4	15.6
A&E attendances (age 0-4 years)	361	•	552	410	419	448
Hospital admissions as a result of self-harm (10-24 years)	524		421	400	383	423
Obesity and physical activity						
Obesity - children (RO)	£0.40		£0.85	£0.66	£0.32	£0.49
Physical activity - children (RO)	£0.01		£0.79	£0.13	£0.20	£0.26
Breastfeeding prevalence at 6-8 weeks after birth	56%		44%	50%	49%	52%
Obese children (4-5 years)	8%		10%	9%	8%	8%
Excess weight in children (10-11 yrs, Persons)	29%		34%	32%	29%	31%
Excess Weight in Adults (16+ yrs, Persons)	64%		64%	66%	64%	63%
% Fruit and Veg '5-a-day'	59%	—	52%	52%	57%	56%
% active adults	60%		56%	57%	59%	58%
% inactive adults	25%		29%	27%	25%	26%
Recorded diabetes (17+ yrs, Persons)	5.4%		6.2%	6.1%	5.5%	5.8%

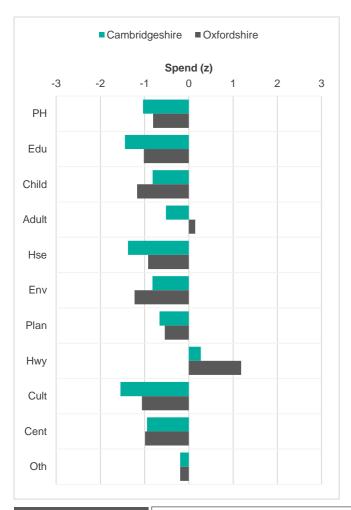
Selected measures for Cambridgeshire	Local value	Z score -3 -2 -1 0 1 2 3	National	PHE centre	ONS cluster	Deprivation decile
Sexual Health						
Sexual health services - STI testing and treatment (prescribed functions) (RO)	£7.38		£8.03	£6.24	£5.53	£7.22
Sexual health services - Contraception (prescribed functions) (RO)	£1.81		£3.91	£3.50	£2.48	£5.06
Sexual health services - Advice, prevention and promotion (non-prescribed functions) (RO)	+11 34	\rightarrow	£1.61	£1.55	£0.74	£0.84
Chlamydia detection rate (15-24 year olds - Female)	2185	•	2746	2585	1961	2135
HIV late stage presentation (15+ yrs, Persons)	50%	*	48%	56%	50%	47%
Conceptions in those aged under 18yr	16.8		29.1	26.2	20.1	22.2
Conceptions in those aged under 16yr	3.4	———	5.9	4.7	4.1	4.3
Low birth weight of term babies	2.4%	—	2.8%	2.6%	2.2%	2.5%
HPV vaccination (12-13 yrs, Female)	92%	\rightarrow	87%	89%	88%	89%
Cancer screening coverage - cervical cancer (25-64 yrs, Female)	74%		74%	74%	76%	75%
Sexual offences	0.8	\	1.1	1.0	0.8	1.2
New sexually transmitted infections (including chlamydia)	2420	•	3574	3237	2688	3066
Wider determinants						
Pupil absence (5-15 yrs, Persons)	5.4%		5.2%	5.3%	5.1%	5.0%
Children in care	38		65	58	42	42
Fuel Poverty	8%	•	10%	9%	8%	9%
% mortality attributable to particulate air pollution	5.2%		5.2%	5.3%	5.2%	5.2%
Excess Winter Deaths Index (single year, All ages, Persons)	14		20	20	19	17
Number of complaints about noise	5.6	\rightarrow	8.6	6.9	4.5	5.3
Statutory homelessness - households in temporary accommodation	0.9		3.3	2.0	0.9	1.2
% Adult LD in stable and appropriate accommodation	76%		75%	74%	73%	72%
Family homelessness	1.8	•	1.8	1.7	1.4	1.2

Selected measures for Cambridgeshire	Local value	3 -2	Z sc -1 0		2	3	National	PHE centre	ONS cluster	Deprivation decile
Health Protection										
Health protection - Local authority role in health protection (prescribed functions) (RO)	£0.25		\rightarrow		ı		£1.03	£0.88	£0.25	£0.46
Children in care immunisations	76%						88%	84%	87%	88%
Dtap / IPV / Hib vaccination (1 yr, Persons)	94%		\rightarrow				94%	96%	95%	95%
Dtap / IPV / Hib vaccination (2 yrs, Persons)	94%		\rightarrow				96%	97%	96%	96%
Hepatitis B vaccination (1 yr, Persons)	0%		\rightarrow				52%	66%	65%	60%
Hepatitis B vaccination (2 yrs, Persons)	100%			_	\Diamond		49%	61%	69%	74%
Hib / MenC booster vaccination (2 yrs, Persons)	91%	_	\rightarrow				93%	94%	93%	93%
Hib / Men C booster vaccination (5 yrs, Persons)	91%		♦				92%	93%	93%	91%
MMR vaccination for one dose (5 yrs, Persons)	92%		\				94%	94%	94%	94%
MMR vaccination for two doses (5 yrs, Persons)	86%		♦				88%	89%	89%	89%
PCV vaccination (1 yr, Persons)	93%		\langle				94%	95%	95%	95%
PCV booster vaccination (2 yrs, Persons)	90%		\				93%	94%	93%	93%
MenC vaccination (1 yr, Persons)										
Flu vaccination (at risk individuals) (6 months-64 yrs, Persons)	50%		\				53%	49%	53%	51%
Flu vaccination (65+ yrs, Persons)	74%			\rightarrow			73%	72%	74%	73%
PPV vaccination (65+ yrs, Persons)	74%	-			\		68%	68%	71%	69%
TB Incidence (All ages, Persons)	6.3			\			16.6	12.4	6.9	12.3
TB Treatment completion (All ages, Persons)	81%		\Q				84%	82%	86%	85%
Inter-agency plan for incidents and emergency response	100%			\Diamond			91%	100%	88%	80%

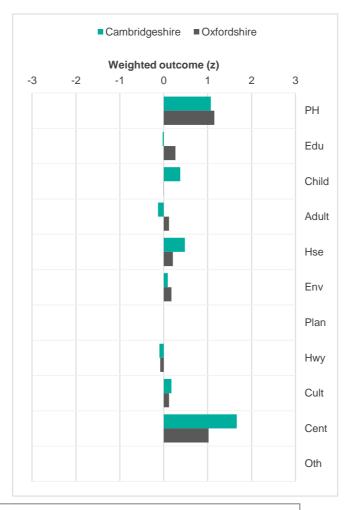
Selected measures for Cambridgeshire	Local value -3	-2	Z : -1	score 0 1	2	3	National	PHE centre	ONS cluster	Deprivation decile
Healthcare PH										
NHS health check programme (prescribed functions) (RO)	£0.82		\rightarrow				£1.26	£1.59	£1.20	£1.41
NHS Health Check - health check offered (40-74 yrs, Persons)	25%			\			19%	22%	19%	18%
NHS Health Check - health check take up (40-74 yrs, Persons)	41%		\rightarrow				52%	53%	45%	47%
NHS Health Check - health check received (40-74 yrs, Persons)	10%			\Q			10%	11%	8%	8%
Mortality from all cardiovascular diseases (<75 yrs, Persons)	59				\		83	77	63	66
Cardiovascular disease prevalence	11.2%			\Q			11.6%	11.4%	11.5%	11.9%
Chronic kidney disease prevalence	8.5%			\rightarrow			8.5%	8.7%	8.8%	9.1%
COPD prevalence	2.6%						3.8%	3.0%	2.9%	3.0%
Coronary heart disease prevalence	5.0%			\			5.8%	5.4%	5.0%	5.4%
Diabetes prevalence	6.8%			\			7.6%	7.4%	7.0%	7.4%
Hypertension prevalence	28.9%			\langle			30.2%	30.0%	29.4%	29.8%
Stroke prevalence	2.3%			*			2.5%	2.4%	2.3%	2.5%
Hospital admissions for asthma (age under 19 years)	154			\			202	166	124	168
Hospital admissions for mental health conditions	68			\			90	74	73	76







Oxfordshire



Interpreting the chart:

This chart shows spend and outcome z scores for each programme for both the organisation and a chosen comparator organisation.

The default chosen comparator is one of the nearest neighbours to the organisation on a number of measures.

If a programme spend z score is less than -2 then the organisation spend is significantly less than other organisations on this programme. If the programme spend z score is more than +2 then the organisation spend is significantly more than other organisations on this programme.

The programme outcome may be a single measure, or a weighted combination of measures.

If the programme outcome z score is less than -2 then the organisation has a worse outcome than other organisations. If the programme outcome z score is more than +2 then the organisation has a better outcome than other organisations.

Chosen Comparison



Spend and ou	tcome tool: Outliers summary			
Organisation	Cambridgeshire	Туре	LA	
		Period	2015	

	Spend	Outcome
Low/worse	3	2
High/better	6	8
No data	2	9
All measures	333	341

This table shows all specific measures where the organisation appears to be an outlier, or where no data is available. The organisation is categorised as an outlier on a measure if the organisation value is outside the boxplot whisker or z score is beyond +/-2. Spend is low for low outliers and high for high outliers. Outcomes are worse for worse outliers and better for better outliers. On all other measures, the organisation is not considered an outlier. Where there is no data for a measure, the organisation may wish to explore the reasons behind this. This may help in identifying specific elements of a programme to focus on. They can be explored further in the boxplots and "Detail Quadrant".

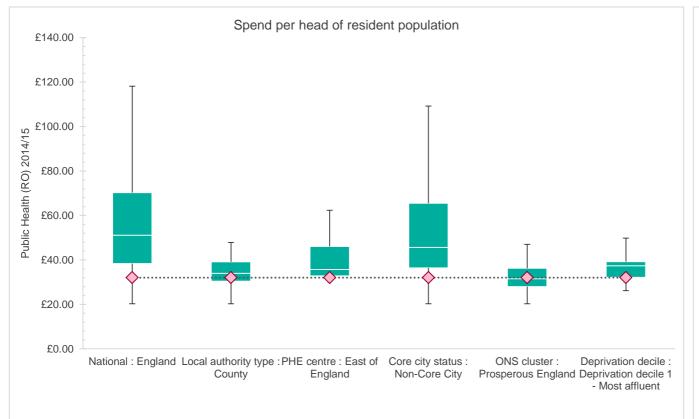
Programme	Source	Measure	Label	Value	National quartile	Status
Public Health						
	Outcome	PHOF_2.19_P	% Cancer diagnosed at early stage	57%	50%	better outlier
	Outcome	PHOF_2.21vii_P	Diabetic retinopathy screening			No data
	Outcome	CIDSC 20	Total abortions rate	10.0	19.9	better outlier
	Outcome	CIDSC 21	Under 18s abortions rate	7.2	16.9	better outlier
	Outcome	CHIMAT_10	Children with one or more decayed, missing or filled teeth	15%	36%	better outlier
	Outcome	NHSOF_1c_P	Neonatal mortality and stillbirths rate	4.0	8.1	better outlier
Education						
	Spend	SP_165_RA	Other education and community budget (RA)	£151.79	£74.41	high outlier
	Outcome	Child 11	% Looked after children 5+ A*-C grades at GCSE (inc english and maths)			No data
	Outcome	NI 114	Rate of permanent exclusions from school	0.01%	0.09%	better outlier
Social Care - Child						
	Outcome	PI031	% looked after children persistently absent from school			No data
Social Care - Adults						
	Spend	SP_348_RO	Social support: Substance misuse support (RO)	£4.73	£1.03	high outlier

Programme	Source	Measure	Label	Value	National quartile	Status
	Spend	SP_350_RO	Social support: Support for carer (RO)	£10.24	£4.14	high outlier
	Spend	SP_354_RO	Social care activities (RO)	£3.96	£22.33	low outlier
	Outcome	ASCOF2C(2)	Delayed transfers of care, attributable to adult social care?	8.2	1.4	worse outlier
Housing						
	Outcome	NI 154	Net additional homes provided	3150	1180	better outlier
	Outcome	NI 155	Number of affordable homes provided	860	350	better outlier
	Outcome	NI 181	Time to process benefit change of circumstance			No data
	Outcome	PI061	Average weekly rent per dwelling			No data
Env & Reg						
	Spend	SP_550_RA	Agriculture and fisheries services (RA)	-£4.04	£0.00	low outlier
	Spend	SP_550_RO	Agriculture and fisheries services (RO)	-£4.62	£0.00	low outlier
Planning						
	Spend	SP_597_RO	Economic research (RO)	£0.58	£0.00	high outlier
	Outcome	NI 157a	Processing of major planning applications in target			No data
	Outcome	NI 157b	Processing of minor planning applications in target			No data
	Outcome	NI 157c	Processing of other planning applications in target			No data
Highways						
	Spend	SP_220_RA	Capital items relating to construction projects (RA)	£0.00		No data
	Spend	SP_211_RO	Highways maintenance planning, policy and strategy (RO)	£9.87	£3.44	high outlier
	Outcome	NI 178a	Bus services running on time	72%	81%	worse outlier
Cultural						
	Outcome	KPI 1b	Adult participation in 30 minutes, moderate intensity sport			No data
Central						
	Spend	SP_683_RA	Non-distributed costs - depreciation / impairment of surplus costs etc (RA)	£0.00		No data

Programme	Source	Measure	Label	Value	National quartile	Status
	Spend	SP_684_RO	Non-distributed costs - revenue expenditure on surplus assets (RO)	£0.17	£0.00	high outlier



Spend and outcome tool: Spend boxplot								
Organisation	Cambridgeshire		Туре	LA				
			Period	2015				



Chosen Programme Public Health Chosen Spend Public Health (RO)

Interpreting the chart:

In this boxplot, the chosen organisation is represented as a red diamond and the upper and lower quartile boxes represent the middle 50% of authorities' spend. The white line through the middle of the quartile box is the median.

The whiskers extend 1.5 x the interquartile range, up to the max/min values. Organisations outside the whiskers are categorised as outliers. NB: Whiskers are not the same as confidence limits.

Boxplots are provided for a number of peer comparator sets. This should assist in determining which peer groups the organisation is similar to and not similar to for each measure. It may suggest areas to look at when exploring variation.



About SPOT and its use

This profile provides some understanding of how the overall organisation budget is allocated to different programmes and sub-programmes; how this relates to the outcomes for those programmes and how the organisation performs in comparison to its peers.

The quadrant charts highlight particular programmes and sub-programmes where the organisation appears to be an outlier on spend and/or outcome.

The spine charts give headline values for spend and key outcomes for major programmes, and relevant comparator values.

The spend bar chart gives an indication of the size of the spend on each programme in both the organisation and a comparator organisation (default - nearest statistical neighbour)

The outlier summary identifies all measures where the organisation appears to be an outlier, or has submitted no data. These are grouped by programme. It is possible to explore measures in more depth by reviewing them using the detail quadrant chart.

Using the pdf profile and then Excel spreadsheet tool should help to:

understand the size of spend on each major programme

identify programmes where spend or outcomes are significantly at variance with peers (a range of comparators are available)

identify potential areas within programmes where there may be issues

Following this the organisation may wish to examine priority areas in more depth.

The spend and outcome tool includes a frequently asked questions (FAQ) section as a spreadsheet tab which gives more detail about the tool and its use.

Feedback:

Please send your feedback about SPOT to healtheconomics@phe.gov.uk You can ask a question, report a problem or suggest an improvement.

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