

Crossrail employment impacts

Data pack

Version 1-2

Modified 23 May 2016

This data pack provides evidence to inform the Royal Borough of Kensington & Chelsea's assessment of the impact of the proposed Crossrail 2 station on employment in the borough.

1. Explanatory notes

The location of the proposed Crossrail 2 station is defined as the postcode SW3 6NT.

Analysis of employment and turnover by sector (based on Trends Central Resource) defines the vicinity of the proposed station as:

1. the area within a radius of 800m of the proposed location of the station, and
2. the area within a radius of 1km from the proposed location of the station.

Employment in entry-level occupations by sector is modelled based on the proportion of employment in each sector which is found in Standard Occupation Classification major groups 7, 8 and 9, derived from the Annual Population Survey (see below).

Analysis of employment of domestic workers and employment in entry-level occupations (based on the Annual Population Survey) covers the whole of RBKC, as data is not available for smaller spatial areas.

All analysis is workplace-based (i.e. analysis relates to those working in RBKC, not those resident in RBKC), including those who commute to the borough to work).

Domestic workers are defined as those working in Standard Industrial Classification division 97, Activities of households as employers of domestic personnel.

Entry-level occupations are defined as Standard Occupation Classification major groups 7, 8 and 9. ONS defines these as occupations at skill level 1 (out of 4). This skill level equates with the competence associated with a general education, usually acquired by the time a person completes his/her compulsory education and signalled via a satisfactory set of school-leaving examination grades. Competent performance of jobs classified at this level will also involve knowledge of appropriate health and safety regulations and may require short periods of work-related training. Examples of occupations defined at this skill level within the SOC2010 include postal workers, hotel porters, cleaners and catering assistants.

It should be noted that Annual Population Survey data is subject to sampling variability. This affects analysis of employment of domestic workers in particular, due to the level of disaggregation this involves. As well as annual time points, we've used three-year averages when looking at employment of domestic workers and employment in entry-level occupations in order to smooth some of the volatility in the data.

Analysis of employment in entry-level occupations is also affected by the introduction of the Standard Occupational Classification 2010, which is used in the Annual Population Survey from 2012. Analysis for 2009 and 2010 is based on the Standard Occupational Classification 2000.

Employment projections for the area 800m around the proposed station and the area 1km around the proposed station are calculated based on a linear regression, and moderated using employment projections for RBKC published by GLA (<http://data.london.gov.uk/dataset/gla-employment-projections>). Employment projections for domestic workers and entry-level occupations are calculated on the same basis.

Employment projections for the 800m and 1km buffer areas are based on the historical trend over the period 2010-13, selected as this fits most closely with the trend shown by official employment estimates for RBKC. Projections for employment of domestic workers are based on three-year average employment estimates due to volatility in the source data.

Employment projections by sector are derived from projections published by GLA (<http://data.london.gov.uk/dataset/gla-employment-projections>).

1.1 Rounding

Employment estimates from Trends Central Resource are rounded to the nearest 10. Employment estimates from the Annual Population Survey are rounded to the nearest 100. Employment projections are rounded to the nearest 1,000.

Turnover estimates from Trends Central Resource are rounded to the nearest £billion (total turnover) or £million (turnover by sector).

Rounding means that subtotals may not sum to 100% (totals are calculated from unrounded estimates, and are rounded separately).

Percentages are calculated on unrounded data.

1.2 Sources

Trends Central Resource (TBR): Used to examine employment and turnover by sector in the vicinity of the proposed Crossrail 2 station.

Annual Population Survey, Jan-Dec 2009-2014 (ONS): Used to examine employment of domestic workers, and employment in entry-level occupations.

GLA Employment Projections, 2013 (GLA): Used to derive employment projections by sector, and to moderate other projections.

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2. Employment in the vicinity of the proposed station

Table 1: Total employment in the vicinity of the proposed station

Area	2009	2010	2011	2012	2013	2014	Change 2009–2014
800m buffer	26,630	25,930	25,750	26,310	26,220	25,400	–4.6%
1km buffer	42,760	40,440	41,030	42,210	42,290	41,280	–3.5%
Whole of RBKC	144,710	143,660	144,720	144,890	147,210	148,810	2.8%
Whole of London	5,750,220	5,738,230	5,773,400	7,138,430	7,161,660	7,248,390	26.1%

Table 2: Total employment by broad sector in the vicinity of the proposed station, 2014

Sector	800m buffer	1km buffer	800m buffer	1km buffer
Agriculture, Forestry and Fishing	40	60	0.2%	0.1%
Mining and Quarrying	20	30	0.1%	0.1%
Manufacturing	330	490	1.3%	1.2%
Electricity, Gas, Steam and Air Conditioning Supply	10	10	0.0%	0.0%
Water Supply; Sewerage, Waste Management and Remediation Activities	50	50	0.2%	0.1%
Construction	530	800	2.1%	1.9%
Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles	5,370	6,890	21.2%	16.7%
Transportation and Storage	280	450	1.1%	1.1%
Accommodation and Food Service Activities	2,750	6,050	10.8%	14.6%
Information and Communication	520	970	2.1%	2.4%
Financial and Insurance Activities	950	1,230	3.7%	3.0%
Real Estate Activities	1,910	3,110	7.5%	7.5%
Professional, Scientific and Technical Activities	2,670	4,900	10.5%	11.9%
Administrative and Support Service Activities	1,590	1,910	6.3%	4.6%
Public Administration and Defence; Compulsory Social Security	40	170	0.2%	0.4%
Education	530	1,130	2.1%	2.7%
Human Health and Social Work Activities	6,220	10,300	24.5%	24.9%
Arts, Entertainment and Recreation	560	890	2.2%	2.1%
Other Service Activities	850	1,500	3.3%	3.6%
Not known	180	350	0.7%	0.9%
Total	25,400	41,280	100.0%	100.0%

Table 3: Employment in entry-level occupations (modelled) by broad sector in the vicinity of the proposed station, 2014

Sector	800m buffer	1km buffer	800m buffer	1km buffer
Agriculture, Forestry and Fishing	10	10	0.1%	0.1%
Mining and Quarrying	0	0	0.0%	0.0%
Manufacturing	70	100	1.1%	1.1%
Electricity, Gas, Steam and Air Conditioning Supply	0	0	0.0%	0.0%
Water Supply; Sewerage, Waste Management and Remediation Activities	30	30	0.5%	0.3%
Construction	80	120	1.3%	1.3%
Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles	2,860	3,660	47.2%	38.7%
Transportation and Storage	150	250	2.5%	2.6%
Accommodation and Food Service Activities	1,470	3,240	24.4%	34.3%
Information and Communication	20	30	0.3%	0.4%
Financial and Insurance Activities	30	40	0.5%	0.4%
Real Estate Activities	110	180	1.8%	1.9%
Professional, Scientific and Technical Activities	110	200	1.8%	2.1%
Administrative and Support Service Activities	650	780	10.7%	8.2%
Public Administration and Defence; Compulsory Social Security	0	10	0.0%	0.1%
Education	40	80	0.7%	0.9%
Human Health and Social Work Activities	260	430	4.3%	4.6%
Arts, Entertainment and Recreation	50	80	0.8%	0.8%
Other Service Activities	80	130	1.3%	1.4%
Not known	30	70	0.6%	0.7%
Total	6,050	9,460	100.0%	100.0%

3. Employment of domestic workers in RBKC

Table 4: Employment of domestic workers, RBKC (workplace based)

Area	2009	2010	2011	2012	2013	2014	Change 2009–2014
Domestic workers	1,400	0	1,200	2,600	1,400	2,300	69.1%
All employment	110,400	101,800	97,400	110,400	111,500	106,800	-3.3%
Domestic workers	1.2%	0.0%	1.2%	2.4%	1.3%	2.1%	0.9pp
All employment	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	~

Table 5: Employment of domestic workers, RBKC: average of three years (workplace based)

Area	2009–11	2010–12	2011–13	2012–14	Change 2009–2014
Domestic workers	800	1,300	1,700	2,100	150.8%
All employment	103,200	103,200	106,400	109,600	6.2%
Domestic workers	0.8%	1.2%	1.6%	1.9%	1.1pp
All employment	100.0%	100.0%	100.0%	100.0%	~

Table 6: Employment of domestic workers, London (workplace based)

Area	2009	2010	2011	2012	2013	2014	Change 2009–2014
Domestic workers	11,900	13,700	12,500	11,800	15,500	18,300	54.3%
All employment	4,148,700	4,145,700	4,189,000	4,304,100	4,423,800	4,714,500	13.6%
Domestic workers	0.3%	0.3%	0.3%	0.3%	0.3%	0.4%	0.1pp
All employment	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	~

Table 7: Employment of domestic workers, London: average of three years (workplace based)

Area	2009–11	2010–12	2011–13	2012–14	Change 2009–2014
Domestic workers	12,700	12,700	13,200	15,200	19.7%
All employment	4,161,100	4,212,900	4,305,600	4,480,800	7.7%
Domestic workers	0.3%	0.3%	0.3%	0.3%	0.0pp
All employment	100.0%	100.0%	100.0%	100.0%	~

4. Employment in entry-level occupations in RBKC

Table 8: Employment in entry-level occupations, RBKC (workplace based)

Occupation	2009	2010	2011	2012	2013	2014	Change 2009–2014
Sales and customer service occupations	6,700	8,900	6,100	6,500	7,500	5,300	-20.9%
Process, plant and machine operatives	2,400	2,400	2,800	1,800	3,200	1,600	-33.3%
Elementary occupations	10,300	8,200	7,600	8,600	8,800	8,500	-17.5%
All entry-level occupations	19,400	19,500	16,600	17,000	19,500	15,300	-21.1%
All employment	110,400	101,800	97,400	110,400	111,500	106,800	-3.3%
Sales and customer service occupations	34.4%	45.9%	37.0%	38.5%	38.5%	34.4%	0.0pp
Process, plant and machine operatives	12.6%	12.1%	17.0%	10.8%	16.4%	10.3%	-2.2pp
Elementary occupations	53.0%	42.0%	46.0%	50.8%	45.1%	55.3%	2.3pp
All entry-level occupations	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	~
Sales and customer service occupations	6.0%	8.8%	6.3%	5.9%	6.7%	4.9%	-1.1pp
Process, plant and machine operatives	2.2%	2.3%	2.9%	1.7%	2.9%	1.5%	-0.7pp
Elementary occupations	9.3%	8.0%	7.8%	7.8%	7.9%	7.9%	-1.4pp
All employment	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	~
All entry-level occupations	17.5%	19.1%	17.0%	15.4%	17.5%	14.3%	-3.2pp
All employment	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	~

Table 9: Employment in entry-level occupations, RBKC – average of three years (workplace based)

Occupation	2009–11	2010–12	2011–13	2012–14	Change 2009–2014
Sales and customer service occupations	7,200	7,200	6,700	6,400	-11.1%
Process, plant and machine operatives	2,500	2,300	2,600	2,200	-12.0%
Elementary occupations	8,700	8,100	8,400	8,600	-1.1%
All entry-level occupations	18,500	17,700	17,700	17,300	-6.5%
All employment	103,200	103,200	106,400	109,600	6.2%
Sales and customer service occupations	39.2%	40.7%	38.0%	37.3%	-1.9pp
Process, plant and machine operatives	13.7%	13.2%	14.8%	12.7%	-1.0pp
Elementary occupations	47.1%	46.1%	47.2%	50.0%	2.9pp
All entry-level occupations	100.0%	100.0%	100.0%	100.0%	~
Sales and customer service occupations	7.0%	7.0%	6.3%	5.9%	-1.1pp
Process, plant and machine operatives	2.5%	2.3%	2.5%	2.0%	-0.4pp
Elementary occupations	8.4%	7.9%	7.8%	7.9%	-0.5pp
All employment	100.0%	100.0%	100.0%	100.0%	~
All entry-level occupations	17.9%	17.1%	16.6%	15.8%	-2.1pp
All employment	100.0%	100.0%	100.0%	100.0%	~

Table 10: Employment in entry-level occupations, London (workplace based)

Occupation	2009	2010	2011	2012	2013	2014	Change 2009–2014
Sales and customer service occupations	217,000	239,500	237,700	248,300	270,600	292,300	34.7%
Process, plant and machine operatives	175,900	169,000	176,600	172,500	175,400	192,800	9.6%
Elementary occupations	332,400	316,500	342,600	347,700	333,400	395,100	18.9%
All entry-level occupations	725,200	725,000	756,900	768,600	779,400	880,200	21.4%
All employment	4,148,700	4,145,700	4,189,000	4,304,100	4,423,800	4,714,500	13.6%
Sales and customer service occupations	29.9%	33.0%	31.4%	32.3%	34.7%	33.2%	3.3pp
Process, plant and machine operatives	24.3%	23.3%	23.3%	22.4%	22.5%	21.9%	-2.4pp
Elementary occupations	45.8%	43.7%	45.3%	45.2%	42.8%	44.9%	-0.9pp
All entry-level occupations	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	~
Sales and customer service occupations	5.2%	5.8%	5.7%	5.8%	6.1%	6.2%	1.0pp
Process, plant and machine operatives	4.2%	4.1%	4.2%	4.0%	4.0%	4.1%	-0.1pp
Elementary occupations	8.0%	7.6%	8.2%	8.1%	7.5%	8.4%	0.4pp
All employment	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	~
All entry-level occupations	17.5%	17.5%	18.1%	17.9%	17.6%	18.7%	1.2pp
All employment	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	~

Table 11: Employment in entry-level occupations, London – average of three years (workplace based)

Occupation	2009–11	2010–12	2011–13	2012–14	Change 2009–2014
Sales and customer service occupations	231,400	241,900	252,200	270,400	16.9%
Process, plant and machine operatives	173,800	172,700	174,800	180,200	3.7%
Elementary occupations	330,500	335,600	341,300	358,800	8.6%
All entry-level occupations	735,700	750,200	768,300	809,400	10.0%
All employment	4,161,100	4,212,900	4,305,600	4,480,800	7.7%
Sales and customer service occupations	31.5%	32.2%	32.8%	33.4%	2.0pp
Process, plant and machine operatives	23.6%	23.0%	22.8%	22.3%	-1.4pp
Elementary occupations	44.9%	44.7%	44.4%	44.3%	-0.6pp
All entry-level occupations	100.0%	100.0%	100.0%	100.0%	~
Sales and customer service occupations	5.6%	5.7%	5.9%	6.0%	0.5pp
Process, plant and machine operatives	4.2%	4.1%	4.1%	4.0%	-0.2pp
Elementary occupations	7.9%	8.0%	7.9%	8.0%	0.1pp
All employment	100.0%	100.0%	100.0%	100.0%	~
All entry-level occupations	17.7%	17.8%	17.8%	18.1%	0.4pp
All employment	100.0%	100.0%	100.0%	100.0%	~

5. Projected employment change

Note: Blue type indicates projected values.

Table 12: Projected change in employment in the 800m buffer – 2010–13 based (000s)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Total employment	26	26	26	26	27	27	27	27	27	27	27	28	28	28	28	28	28	28	29	29	29	29

Table 13: Projected change in employment in the 1km buffer – 2010–13 based (000s)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Total employment	40	41	42	42	44	44	45	46	46	47	48	48	49	50	50	51	52	52	53	54	54	55

Table 14: Projected change in employment of domestic workers, RBKC – based on average of three years (000s)

	2009–11	2010–12	2011–13	2012–14	2013–15	2014–16	2015–17	2016–18	2017–19	2018–20	2019–21	2020–22	2021–23	2022–24	2023–25	2024–26	2025–27	2026–28	2027–29	2028–30	2029–31
Domestic workers	1	1	2	2	3	3	3	4	4	5	5	6	6	6	7	7	8	8	9	9	9

Table 15: Projected change in employment by sector, RBKC (000s)

Sector	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Primary & Utilities	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Manufacturing	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
Construction	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Wholesale	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2
Retail	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Transportation & Storage	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Accommodation & Food Services	20	21	21	21	22	22	22	23	23	23	23	24	24	24	25	25	25	26	26	26	26
Information & Communication	10	10	10	10	10	10	11	11	11	11	11	11	12	12	12	12	12	12	12	13	13
Financial & Insurance Activities	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Professional, Real Estate, Scientific & Technical	20	20	21	21	21	22	22	23	23	23	24	24	25	25	26	26	26	27	27	28	28
Administrative & Support Services	11	11	11	11	12	12	12	12	12	12	12	13	13	13	13	13	13	14	14	14	14
Public Admin & Defence	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Education	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8
Health	15	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16

table continued overleaf

Sector	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Arts, Entertainment & Recreation	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7
Other services	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5
All sectors, RBKC	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154

6. Turnover in the vicinity of the proposed station

Table 16: Total turnover in the vicinity of the proposed station (£bn)

Area	2009	2010	2011	2012	2013	2014	Change 2009–2014
800m buffer	£6.2	£6.5	£6.5	£6.7	£6.9	£6.9	10.8%
1km buffer	£9.1	£9.4	£9.5	£9.7	£10.2	£10.1	11.1%
Whole of RBKC	£33.9	£37.3	£37.5	£38.2	£39.4	£40.5	19.6%
Whole of London	£1,530.3	£1,679.8	£1,675.8	£1,641.1	£1,726.3	£1,699.9	11.1%

Table 17: Total turnover by broad sector in the vicinity of the proposed station, 2014 (£m)

Sector	800m buffer	1km buffer	800m buffer	1km buffer
Agriculture, Forestry and Fishing	£3.9	£5.4	0.1%	0.1%
Mining and Quarrying	£21.8	£29.3	0.3%	0.3%
Manufacturing	£146.1	£220.6	2.1%	2.2%
Electricity, Gas, Steam and Air Conditioning Supply	£2.1	£3.8	0.0%	0.0%
Water Supply; Sewerage, Waste Management and Remediation Activities	£10.3	£10.3	0.1%	0.1%
Construction	£199.0	£302.5	2.9%	3.0%
Wholesale and Retail Trade; Repair of Motor Vehicles and Motorcycles	£3,159.8	£4,048.9	46.0%	40.2%
Transportation and Storage	£128.9	£211.3	1.9%	2.1%
Accommodation and Food Service Activities	£290.3	£638.6	4.2%	6.3%
Information and Communication	£155.9	£289.2	2.3%	2.9%
Financial and Insurance Activities	£421.5	£547.5	6.1%	5.4%
Real Estate Activities	£360.3	£586.1	5.2%	5.8%
Professional, Scientific and Technical Activities	£568.4	£1,044.1	8.3%	10.4%
Administrative and Support Service Activities	£488.4	£586.0	7.1%	5.8%
Public Administration and Defence; Compulsory Social Security	£0.7	£2.8	0.0%	0.0%
Education	£48.8	£102.9	0.7%	1.0%
Human Health and Social Work Activities	£543.1	£898.8	7.9%	8.9%
Arts, Entertainment and Recreation	£125.3	£200.3	1.8%	2.0%
Other Service Activities	£149.5	£264.3	2.2%	2.6%
Not known	£49.5	£86.4	0.7%	0.9%
Total	£6,873.6	£10,079.0	100.0%	100.0%