

Q1 2023 RLB CRANE INDEX® HIGHLIGHTS:

- Crane numbers fall by 3.7% to 836
- Gold Coast, Sunshine Coast and Central Coast all saw strong gains in crane numbers
- Darwin doubles crane numbers to four
- Melbourne CBD cranes fall to a new low of 26. This is down from 68 cranes pre covid-19 in Q3 2019, a drop of 61%
- Residential index fell by one index point representing 3 cranes. 532 residential cranes are across Australia
- Non-residential index falls to record an index value of 264, the second highest on record. This represents 304 cranes or 36% of all cranes across Australia
- Record number of cranes on civic projects across the country, buoyed by the commencement of the Powerhouse Museum in Parramatta, Sydney with three cranes
- Cranes on commercial sites fell by 13, with 6 cranes removed in both Melbourne and Sydney

Q1 2023 RLB CRANE INDEX® SUMMARY:

CITIES	KEY SECTORS
ADELAIDE	AGED CARE
BRISBANE	CIVIC
CANBERRA	CIVIL
CENTRAL COAST	COMMERCIAL
DARWIN	DATA CENTRE / INDUSTRIAL
GOLD COAST	EDUCATION
HOBART	HEALTH
MELBOURNE	HOTEL
NEWCASTLE	MIXED USE
PERTH	RECREATION
SUNSHINE COAST	RESIDENTIAL
SYDNEY	RETAIL
WOLLONGONG	

LEGEND



AUSTRALIA

Crane numbers across the country continued to be strong, posting the second highest number of cranes seen since the inception of the RLB Crane Index® in 2012. The past six months has seen 293 new cranes added to new development sites, and 325 were removed from projects nearing completion. With 32 less cranes, the number of cranes across the major regions of Australia now number 836, a fall of 3.7% from the record 868 cranes seen in the last edition. All sectors recorded lower crane numbers except civic, civil and education.

Both Sydney and Melbourne's crane numbers fell by 15 and 17 cranes respectively but still account for 66% of all cranes sighted. Both the Gold Coast and Sunshine Coast recorded gains with an additional 4 cranes in each of these regions.

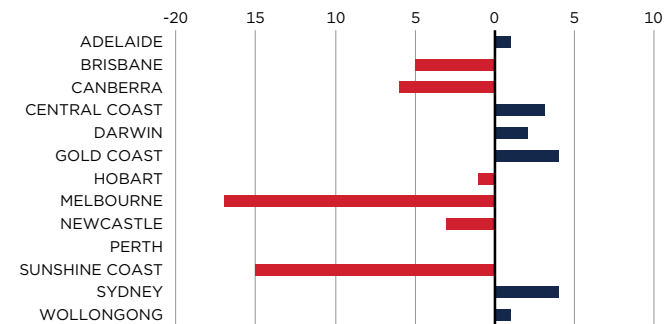
The residential index recorded an index level of 171, fractionally below the peak of 172 recorded in Q3 22 and Q1 19. Residential cranes across the country now number 532, slightly below the numbers recorded in our last count. One hundred and ninety-six cranes were added on development sites with 199 removed. Perth saw an additional nine cranes added within the sector whereas Sydney saw numbers reduce by 13.

The non-residential index has fallen from the record highs of the last edition to now record an index value of 264, the second highest on record, representing a loss of 5.7% or 29 cranes. Included within the non-residential sectors are Aged Care and Data centre / Industrial which were introduced in the last edition. There are currently 11 cranes on aged care developments across the country and 15 Data Centre / Industrial cranes.

The continuing strong number of cranes observed correlates with the strong national activity numbers. Construction work done for the calendar year 2022 was up by 0.7%, or \$1.4B, across Australia compared to 2021, according to the latest ABS preliminary construction activity data. Total residential work done was down 3.5%, or \$2.7B, non-residential activity was up by 2.9% or \$1.4B. Engineering activity was up by 2.9% or \$2.5B.

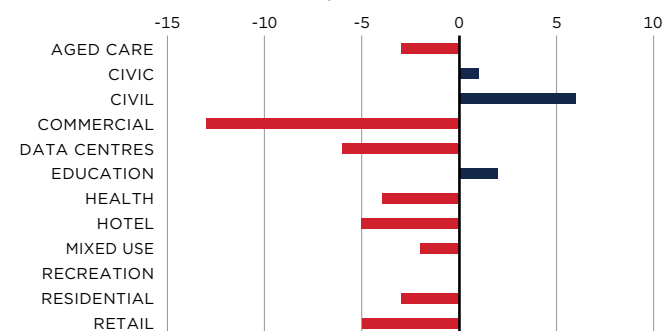
AUSTRALIA NET CRANE MOVEMENT BY CITY

NUMBER OF CRANES REMOVED / ADDED



AUSTRALIA NET CRANE MOVEMENT BY SECTOR

NUMBER OF CRANES REMOVED / ADDED



CRANE ACTIVITY - AUSTRALIA BY KEY CITIES

	OPENING COUNT			MOVEMENT			CLOSING COUNT		
	Q3 2022	%		+	-	NET	Q1 2023	%	
ADELAIDE	17	2.0%		8	-7	1	18	2.2%	
BRISBANE	82	9.4%		35	-40	-5	77	9.2%	
CANBERRA	23	2.6%		9	-15	-6	17	2.0%	
CENTRAL COAST	10	1.2%		4	-1	3	13	1.6%	
DARWIN	2	0.2%		2	0	2	4	0.5%	
GOLD COAST	52	6.0%		19	-15	4	56	6.7%	
HOBART	2	0.2%		0	-1	-1	1	0.1%	
MELBOURNE	206	23.7%		84	-101	-17	189	22.6%	
NEWCASTLE	12	1.4%		3	-6	-3	9	1.1%	
PERTH	51	5.9%		16	-16	0	51	6.1%	
SUNSHINE COAST	16	1.8%		10	-6	4	20	2.4%	
SYDNEY	380	43.8%		99	-114	-15	365	43.7%	
WOLLONGONG	15	1.7%		4	-3	1	16	1.9%	
TOTAL	868	100.0%		293	-325	-32	836	100.0%	

CRANE ACTIVITY - AUSTRALIA BY SECTOR

	OPENING COUNT			MOVEMENT			CLOSING COUNT		
	Q3 2022	%		+	-	NET	Q1 2023	%	
AGED CARE	14	1.6%		1	-4	-3	11	1.3%	
CIVIC	22	2.5%		6	-5	1	23	2.8%	
CIVIL	41	4.7%		17	-11	6	47	5.6%	
COMMERCIAL	76	8.8%		27	-40	-13	63	7.5%	
DATA CENTRES	21	2.4%		3	-9	-6	15	1.8%	
EDUCATION	24	2.8%		14	-12	2	26	3.1%	
HEALTH	34	3.9%		8	-12	-4	30	3.6%	
HOTEL	16	1.8%		4	-9	-5	11	1.3%	
MIXED USE	72	8.3%		16	-18	-2	70	8.4%	
RECREATION	4	0.5%		0	0	0	4	0.5%	
RESIDENTIAL	535	61.6%		196	-199	-3	532	63.6%	
RETAIL	9	1.0%		1	-6	-5	4	0.5%	
TOTAL	868	100.0%		293	-325	-32	836	100.0%	

AUSTRALIA

Growth in building approval values continued in the calendar year 2022 where total building approvals rose by 1.0% or \$1.3B in real terms. Residential approvals fell 2.2% and non-residential rose 5.3%.

When analysing the numbers of cranes centred around the key capital cities, cranes within the CBD of Melbourne (Hoddle Grid, Docklands and Southbank) have fallen significantly. In the Q3 19 edition, cranes numbered 68. Since then, the region's cranes have fallen 62% in the next seven editions to now number only 26. In comparison, cranes in Sydney and Barangaroo area have risen from 29 to 30.

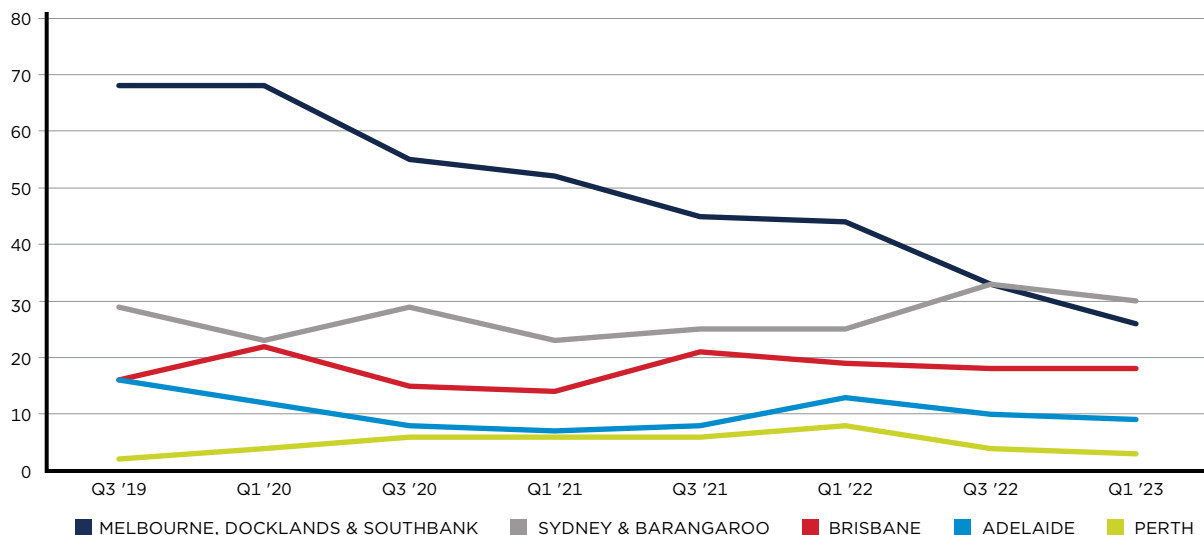
As all major cities across the globe grapple with the realities of changing lifestyle and hybrid employment choices, development within the centre of Melbourne has fallen according to the crane numbers observed.

Other capital cities, except for Adelaide which has fallen 44% since Q3 19, have seen relatively stable crane numbers across their preeminent districts.

The ongoing reduction in crane numbers within Melbourne's CBD district may be a contributing factor of the decrease of public transport patronage within Melbourne. According to the latest figures released by the Victorian Department of Transportation and Planning for September 2022, patronage of public transport within inner Melbourne (including the city loop) has fallen to 37% of pre pandemic levels.

With less development being undertaken across the district, less construction and associated workers are frequenting the hospitality, retail and other services available within the CBD. Coupled with CBD office occupancy levels below 50% for February 2023, according to the Property Council of Australia's last survey, pressure is being felt by retail, hospitality, and commercial businesses to rebound to pre pandemic levels of activity. Lower levels of crane activity highlighting the lower levels of construction activity within the CBD, may be contributing to the lengthening reawakening of the district.

CBD CRANE NUMBERS - MAJOR CAPITAL CITIES

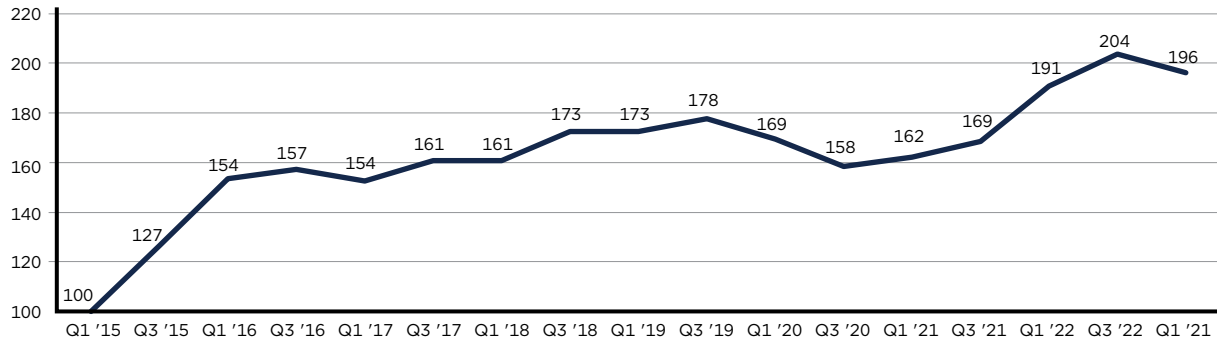


AUSTRALIA

RLB CRANE INDEX®

The RLB Crane Index® has eased off slightly from the previous peak, and currently sits at 196 index points.

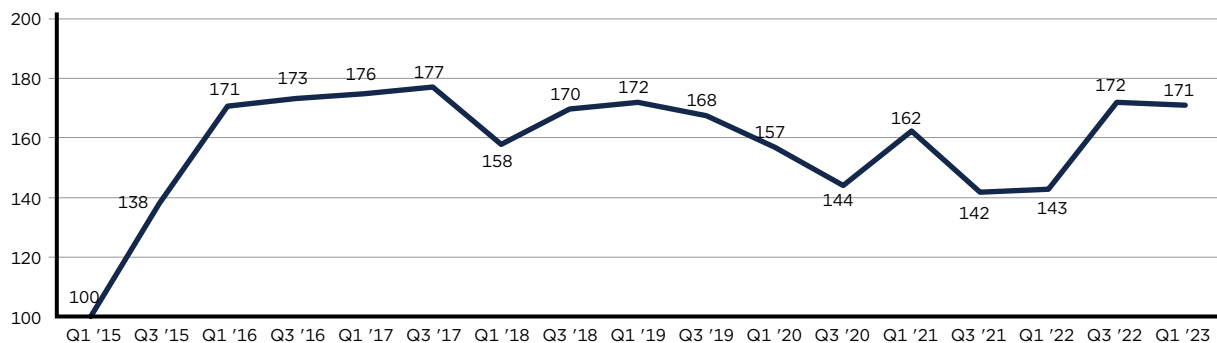
BASE: Q1 2015 = 100



RESIDENTIAL AUSTRALIAN INDEX

The residential index representing the number of cranes on residential projects across the country has eased off very slightly from 172 index points to 171 index points. Critically, these results are still similar to those recorded in the 2015-2017 property boom.

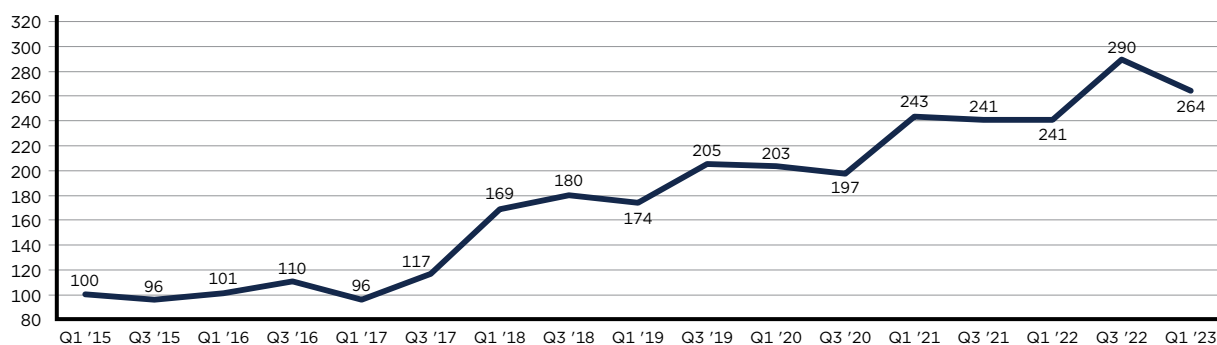
BASE: Q1 2015 = 100



NON-RESIDENTIAL SECTORS CRANE INDEX

The non-residential front has eased off slightly to sit at 264 index points. However, this is coming off a peak, and remains historically high, reflecting the overall strength in crane numbers on non-residential projects across the country.

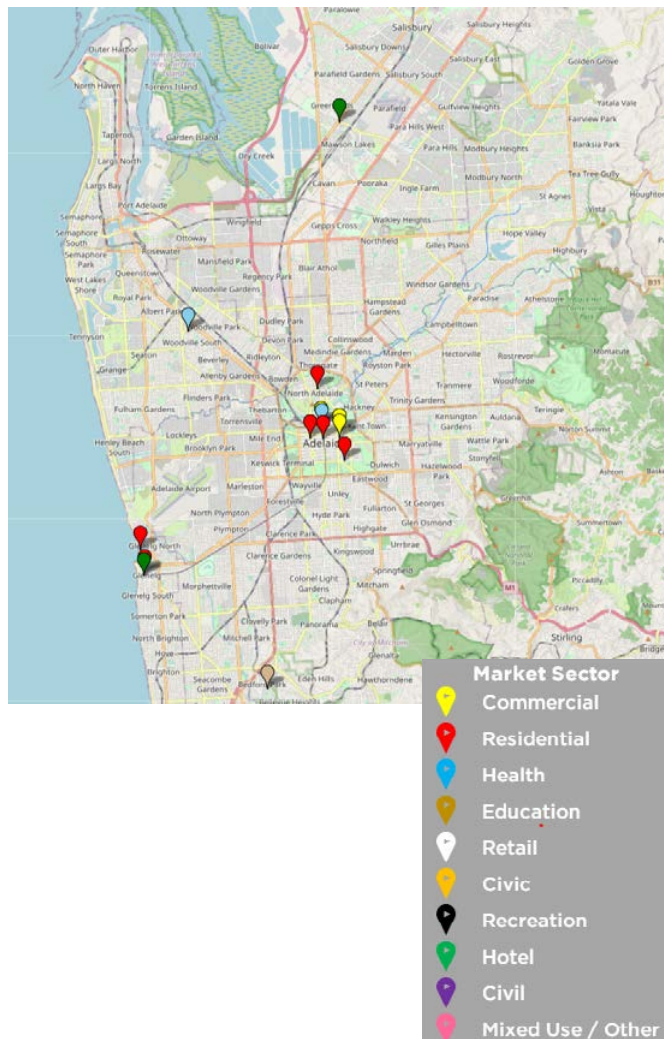
BASE: Q1 2015 = 100



ADELAIDE

Adelaide's RLB Crane Index® increased to 300 index points, representing a total of 18 cranes across the city. This figure represents a return to near peak levels after a large trough was experienced from Q3 2020 through to Q3 2021. A total of seven cranes were removed, while eight cranes were erected as part of new projects commencing construction bringing the city's crane numbers to 18.

Building approvals in CY 2022 across South Australia has seen a very healthy 33% increase compared to CY 2021, rising from at \$7.4B in 2021 to reach \$9.8B for 2022. This was driven by apartment approvals almost tripling from \$215M to \$605M, as well as significant increases in Health (+\$2B), as well as Retail (+\$440M) and Office (+\$393M) sectors.



KEY SECTORS

COMMERCIAL	↑
EDUCATION	↑
HEALTH	↑
HOTEL	↑
RESIDENTIAL	↑

OVERALL STATUS

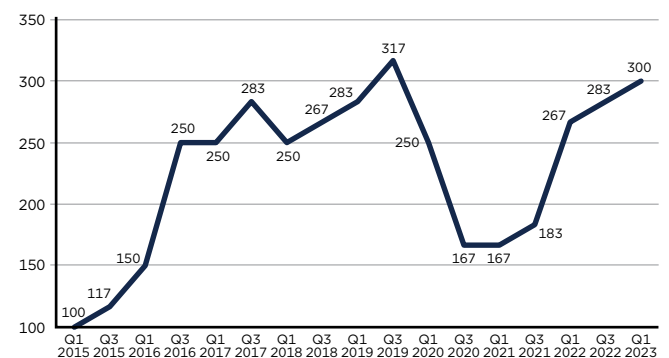


LEGEND

↑ INCREASE IN NUMBER OF CRANES	↓ DECREASE IN NUMBER OF CRANES	↔ CRANE NUMBERS STEADY
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RLB CRANE INDEX® - ADELAIDE

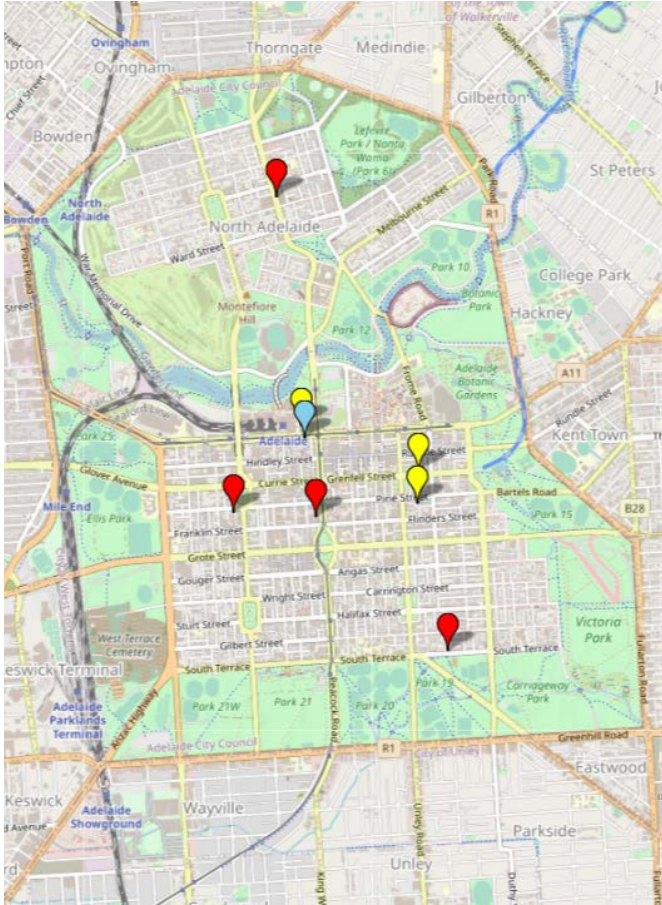
BASE: Q1 2015 = 100



CRANE ACTIVITY - ADELAIDE

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	0	0.0%	0	0	0	0	0.0%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	5	29.4%	2	-3	-1	4	22.2%
DATA CENTRES	0	0.0%	0	0	0	0	0.0%
EDUCATION	2	11.8%	0	0	0	2	11.1%
HEALTH	4	23.5%	0	0	0	4	22.2%
HOTEL	2	11.8%	1	-1	0	2	11.1%
MIXED USE	0	0.0%	0	0	0	0	0.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	4	23.5%	5	-3	2	6	33.3%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	17	100.0%	8	-7	1	18	100.0%

ADELAIDE



Cranes were added at the following projects:

- 150 Grenfell Street, Adelaide (Commercial)
- 185 Pirie Street, Adelaide (Commercial)
- Colley Terrace Hotel for Taplin, Glenelg (Hotel)
- The Cullinan, Adelaide (Residential)
- Paragon On The Park, Adelaide (Residential)
- Avista Stage 3, Glenelg (Residential)
- Northshore Apartments, Glenelg North (Residential)
- Eighty Eight O'Connell, North Adelaide (Residential)

Cranes have been removed from developments at:

- 60 King William, Adelaide (Commercial, two cranes removed)
- 57 Wyatt Street, Adelaide (Commercial)
- Vibe Hotel, Adelaide (Hotel)
- Park Terrace Apartments, Adelaide (Residential)
- The Adelphi, Glenelg (Residential)
- Norwood Coles & Apartments, Norwood (Residential)

With the addition of a relatively large number of residential cranes, the residential sector has the greatest number of cranes at six this is followed by both the commercial and health sectors maintaining four cranes each.

BRISBANE

Brisbane recorded a fall in this edition as the RLB Crane Index® value fell from 112 index points, recorded in Q3 2022, to 105 points currently. This represents a total of 77 cranes across Brisbane with 40 cranes removed from sites and 35 cranes added.

While Brisbane has recorded a net loss in crane numbers, the Sunshine Coast and Gold Coast have performed strongly, bringing the total number of cranes across South East Queensland to a new high of 153 cranes. This increase, however, came at a cost to the civil and mixed-use sectors which saw net decreases of six and two cranes respectively, while education gained seven new cranes with all other sectors remained at least level, or saw moderate gains.

Total construction work done across the Sunshine State eased slightly by 1.6% in CY 2022, to record \$41.0B of work done compared to \$41.7B in CY 2021. It is notable that this loss was almost entirely attributed to residential construction which dipped by 10.4%; non-residential and engineering work done across CY 2022 increased by 9.7% and 0.3% respectively.

Queensland should see a strong pipeline of activity over the next few years, with approval values for 2022 growing 6.2% compared to 2021. Importantly, improved approval figures have been recorded in both the residential and non-residential sectors.

The largest project in terms of crane numbers in the region remains the Queens Wharf project, with eight cranes assisting in construction activities (down from nine in the previous edition). This project accounts for over 10% of all cranes in Brisbane.

The residential sector continues to be the largest in Brisbane, accounting for 39% of all cranes (30 of 77 cranes), slightly lower than the 43% share recorded in the previous count. It is interesting to note that that the current 39% share that the residential sector maintains in Brisbane is significantly lower than both Melbourne and Sydney, where residential cranes account for 53% and 67% of each city respectively.

KEY SECTORS

AGED CARE	
CIVIL	
COMMERCIAL	
EDUCATION	
HEALTH	
MIXED USE	
RESIDENTIAL	

OVERALL STATUS

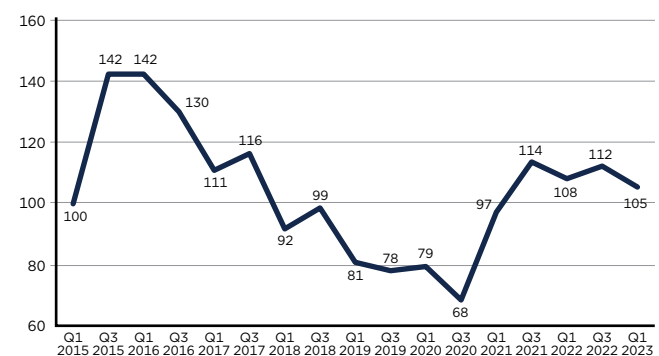


LEGEND

	INCREASE IN NUMBER OF CRANES		DECREASE IN NUMBER OF CRANES		CRANE NUMBERS STEADY
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RLB CRANE INDEX® - BRISBANE

BASE: Q1 2015 = 100



CRANE ACTIVITY - BRISBANE

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	1	1.2%	0	-1	-1	0	0.0%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	21	25.6%	3	-9	-6	15	19.5%
COMMERCIAL	5	6.1%	6	-2	4	9	11.7%
DATA CENTRES	0	0.0%	0	0	0	0	0.0%
EDUCATION	2	2.4%	6	-1	5	7	9.1%
HEALTH	3	3.7%	1	-2	-1	2	2.6%
HOTEL	0	0.0%	0	0	0	0	0.0%
MIXED USE	15	18.3%	2	-3	-1	14	18.2%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	35	42.7%	17	-22	-5	30	39.0%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	82	100.0%	35	-40	-5	77	100.0%

BRISBANE

CRANE NUMBERS - SOUTH EAST QUEENSLAND (TOTALS INCLUDES BRISBANE, GOLD COAST & SUNSHINE COAST)

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	3	2.0%	1	-1	0	3	2.0%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	21	14.0%	3	-9	-6	15	9.8%
COMMERCIAL	8	5.3%	6	-4	2	10	6.5%
DATA CENTRES	0	0.0%	0	0	0	0	0.0%
EDUCATION	2	1.3%	8	-1	7	9	5.9%
HEALTH	3	2.0%	1	-2	-1	2	1.3%
HOTEL	0	0.0%	0	0	0	0	0.0%
MIXED USE	19	12.7%	3	-5	-2	17	11.1%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	94	62.7%	42	-39	3	97	63.4%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	150	100.0%	64	-61	3	153	100.0%

New residential sector projects now hosting cranes include:

- 205 North Quay (Brisbane, 2 cranes)
- 206 Herston Road (Herston, 2 cranes)
- Carlton Street (Highgate Hill, 2 cranes)
- Canvas (Bulimba)
- Berwick Street (Fortitude Valley)
- 35 Berwick Street (Fortitude Valley)
- 29 Finney Road (Indooroopilly)
- Langshaw Street (New Farm)
- Kensington's Apartments (Toowong)
- 44 Archer Street (Toowong)

While civil cranes represent the second largest sector within Brisbane, it recorded the largest net decrease in crane numbers (6 cranes). Only one new crane was erected as part of the 80 Skyring Terrace project. A total of nine cranes were removed from the following civil sector projects:

- Cross River Rail – Dutton Park (Dutton Park, 3 cranes)
- Cross River Rail Albert Street (Albert Street, 2 cranes)
- Breakfast Creek Green Bridge (Brisbane)
- Inner City Bypass (Kelvin Grove)
- Cross River Rail Grafton Street (Windsor)
- Cross River Rail – Yeerongpilly Station (Yeerongpilly)

Conversely, the commercial and education sectors saw increases in net crane numbers in this edition. The commercial sector saw six new cranes erected on the following projects:

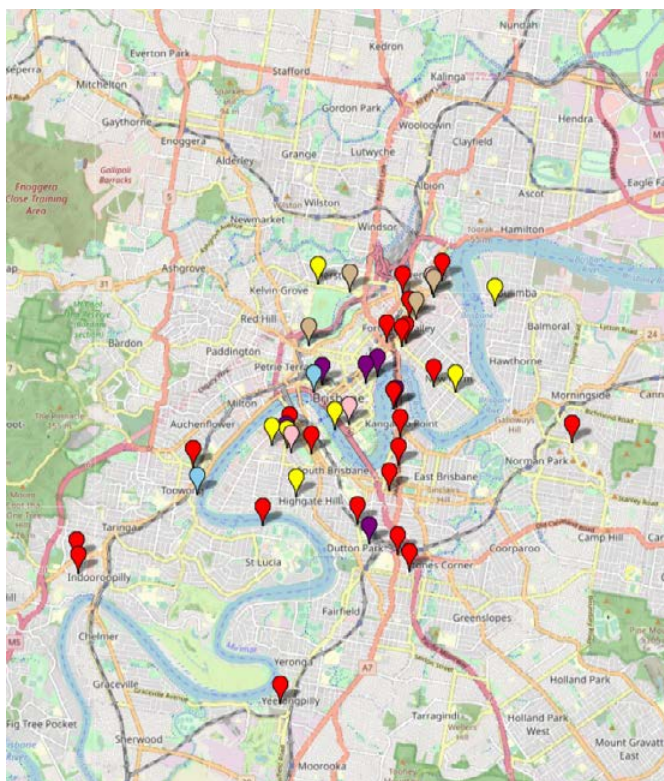
- Investa & Charter Hall (Brisbane, 2 cranes)
- The Garden Pavilion (West End, 2 cranes)
- Church Street Shopping Complex (Fortitude Valley)
- Yeerongpilly Green (Yeerongpilly)

Brisbane's education sector saw a further six cranes erected on following projects:

- Ecoscience Precinct (Yeronga, 4 cranes)
- Queensland University of Technology, Kelvin Grove (Herston)
- University of Queensland Centre for Clinical Research

CRANE ACTIVITY - BRISBANE REGIONS

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
CBD & SURROUNDS	50	61.0%	15	-15	0	50	64.9%
EAST	1	1.2%	0	0	0	1	1.3%
NORTH	17	20.7%	8	-14	-6	11	14.3%
SOUTH	8	9.8%	8	-7	1	9	11.7%
WEST	6	7.3%	4	-4	0	6	7.8%
TOTAL	82	100.0%	35	-40	-5	77	100.0%



BRISBANE

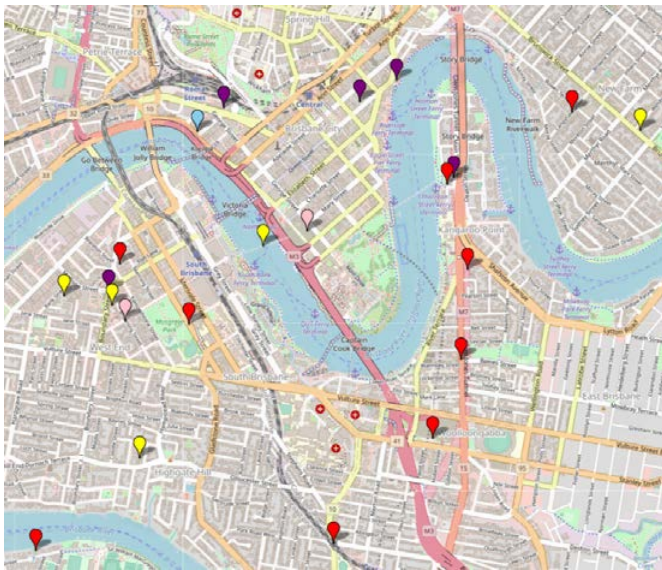
INNER BRISBANE	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	0	0	0
CIVIC	0	0	0	0
CIVIL	9	11	14	13
COMMERCIAL	3	4	5	8
DATA C. / IND.	-	0	0	0
EDUCATION	3	2	1	1
HEALTH	0	1	1	0
HOTEL	0	0	0	0
MIXED USE	16	13	13	14
RECREATION	0	0	0	0
RESIDENTIAL	22	14	16	14
RETAIL	0	0	0	0
TOTAL	53	45	50	50

The Brisbane CBD and surrounding area continues to host the majority of cranes across the city, hosting 65% of all cranes. Crane numbers remained level in this edition, with 15 removals being balanced out by 15 additions. Queens Wharf's eight cranes continues to be the largest project by crane number within the region.

New projects hosting cranes in the inner Brisbane area are the following:

- Investa & Charter Hall (Brisbane, 2 cranes)
- The Garden Pavilion (West End, 2 cranes)
- 205 North Quay (Brisbane, 2 cranes)
- 80 Skyring Terrace (Fortitude Valley)
- Church Street Shopping Complex (Fortitude Valley)
- Berwick Street Residential Project (Fortitude Valley)
- 35 Berwick Street (Fortitude Valley)
- Langshaw Street (New Farm)

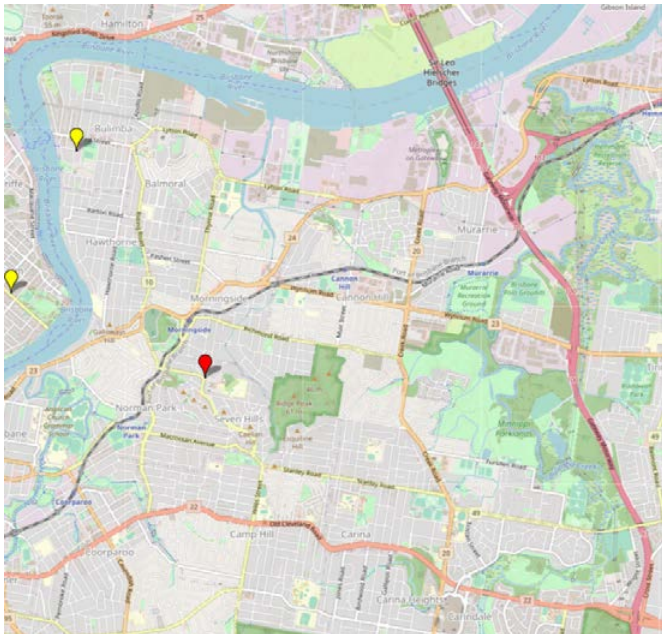
Twenty cranes were removed from projects in: Brisbane, East Brisbane, New Farm, South Brisbane, Spring Hill, West End, and Woollongabba.



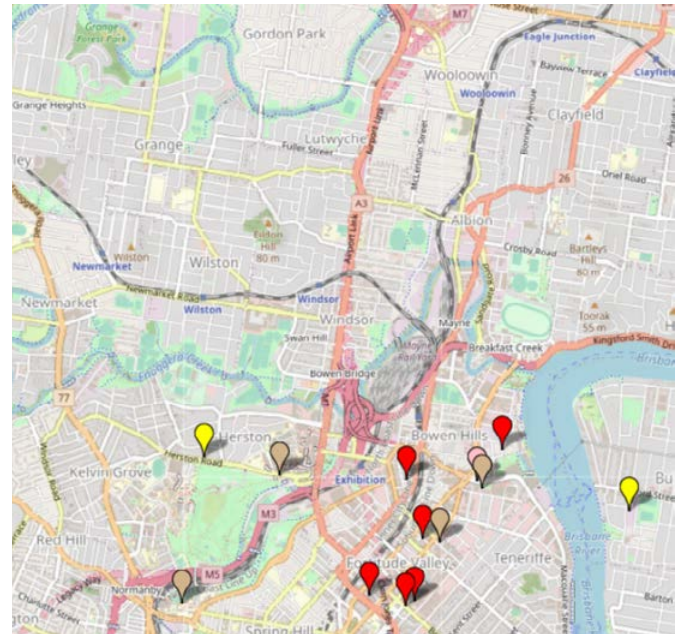
BRISBANE

BRISBANE EAST	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE		0	0	0
CIVIC	0	0	0	0
CIVIL	0	0	0	0
COMMERCIAL	0	0	0	0
DATA C. / IND.	-	0	0	0
EDUCATION	1	1	0	0
HEALTH	0	0	0	0
HOTEL	0	0	0	0
MIXED USE	0	0	0	0
RECREATION	0	0	0	0
RESIDENTIAL	1	2	1	1
RETAIL	0	0	0	0
TOTAL	2	3	1	1

BRISBANE NORTH	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	1	1	0
CIVIC	0	0	0	0
CIVIL	1	1	2	0
COMMERCIAL	2	1	0	0
DATA C. / IND.	-	0	0	0
EDUCATION	0	0	0	2
HEALTH	2	2	2	2
HOTEL	0	0	0	0
MIXED USE	2	3	2	0
RECREATION	0	0	0	0
RESIDENTIAL	6	8	10	7
RETAIL	0	0	0	0
TOTAL	13	16	17	11



Activity in Brisbane's east remains stagnant, with no movement in crane numbers. One crane remains on the Clearview Urban Village project.



The north has seen a significant drop in crane numbers, with only 11 cranes in the skies as of the latest count, down from 17. A total of 14 cranes were removed, whilst only 8 new cranes were put in place. New cranes include:

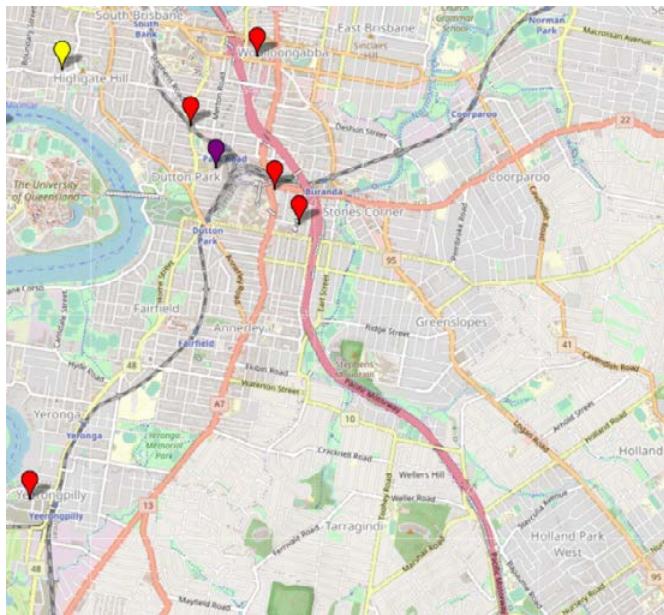
- 206 Herston Road (Herston, 2 cranes)
- Waterfront Sky (Newstead, 2 cranes)
- Queensland University Kelvin Grove (Herston)
- University of Queensland Centre for Clinical Research (Herston)
- Sullivan Nicolaides Pathology Stage 2 (Bowen Hills)
- Canvas (Bulimba)

Cranes were removed in Ashgrove, Bowen Hills, Bulimba, Hamilton, Kelvin Grove, Lutwyche, Newstead, Windsor, and Herston.

BRISBANE

BRISBANE SOUTH	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	0	0	0
CIVIC	0	0	0	0
CIVIL	3	5	4	0
COMMERCIAL	0	0	0	1
DATA C. / IND.	-	0	0	0
EDUCATION	0	0	0	4
HEALTH	0	0	0	0
HOTEL	0	0	0	0
MIXED USE	0	0	0	0
RECREATION	0	0	0	0
RESIDENTIAL	4	2	4	4
RETAIL	0	0	0	0
TOTAL	7	7	8	9

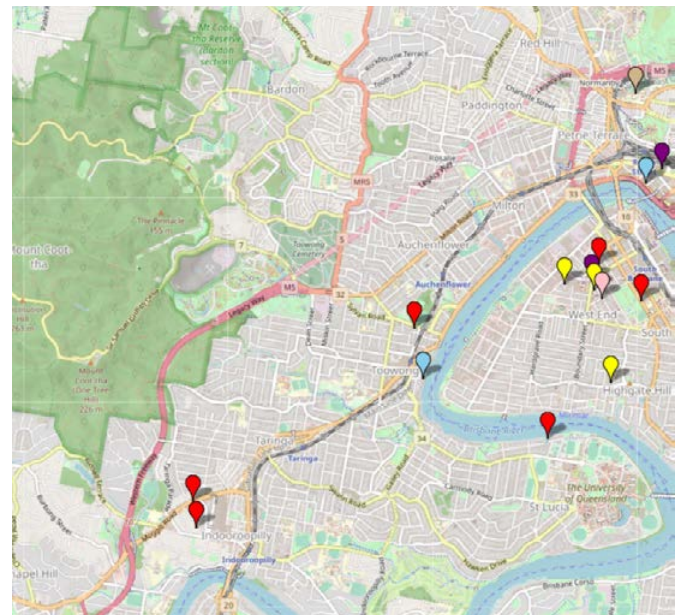
BRISBANE WEST	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	0	0	0
CIVIC	0	0	0	0
CIVIL	0	0	0	2
COMMERCIAL	0	0	0	0
DATA C. / IND.	-	0	0	0
EDUCATION	1	1	1	0
HEALTH	1	1	1	0
HOTEL	0	0	0	0
MIXED USE	0	0	0	0
RECREATION	0	0	0	0
RESIDENTIAL	7	6	4	4
RETAIL	0	0	0	0
TOTAL	9	8	6	6



The south once again saw a net increase of one crane. Eight cranes were added, and seven cranes removed, bringing the region's total to nine cranes. The Cross River Rail - Dutton Park project saw three cranes removed as the project nears completion.

New projects include:

- The Ecoscience Precinct (Yeronga, 4 cranes)
- Carlton Street (Highgate Hill, 2 cranes)
- Yeerongpilly Green (Yeerongpilly)



Like the east, crane activity in Brisbane's west has remained stable at six cranes, with four additions, offset by four removals.

Additions include:

- An extra crane as part of the Moggill Road Corridor Upgrade (Indooroopilly, now 2 total)
- 29 Finney Road (Indooroopilly)
- Kensington Apartments (Toowong)
- 44 Archer Street (Toowong)

Cranes were removed from the following projects:

- 10-14 Arabella Street (Bardon)
- The University of Queensland (St Lucia)
- 15 Archer Street (Toowong)
- The Kensington (Toowong)

CANBERRA

Canberra's RLB Crane Index® value has continued to decrease, presently sitting at 340 index points, down significantly compared to the 460 index points recorded in the previous edition. The total number of cranes in Canberra currently is 17, a net loss of six cranes.

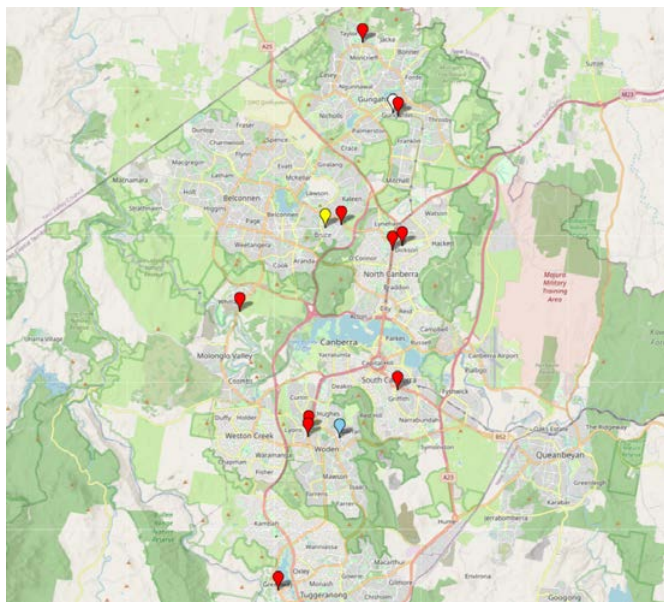
Much of the decreased crane activity reflects the low building approval levels seen over CY 2022; with \$2.6b worth of building work approved over the period, a 23.4% decrease over 2021 levels. While construction work done in 2022 was up slightly overall (by 1.5%), the non-residential sector saw the value of work done grow by 6.8%. On the other hand, the engineering sector saw work done decrease by 2.8%, while the residential sector remained stagnant (but still below 2019 and 2020 levels).

The movement in crane numbers appears to largely reflect the above. Of the net six cranes lost in Canberra, half is attributed to the residential sector. The residential sector saw eight added to projects and 11 cranes taken down as projects neared completion.

New residential cranes include:

- Boulevard (Denman Prospect, 2 cranes)
- Wova (Woden, 2 cranes)
- The Melrose (Woden)
- Sierra (Gungahlin)
- The Brooke (Brice)
- Skyhaus (Taylor)

Only one new non-residential crane was erected in Canberra as part of the RISE Precinct in Bruce within commercial sector.



KEY SECTORS

COMMERCIAL	
HEALTH	
HOTEL	
RESIDENTIAL	
RETAIL	

OVERALL STATUS



LEGEND



RLB CRANE INDEX® - CANBERRA

BASE: Q1 2015 = 100



CRANE ACTIVITY - CANBERRA

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	0	0.0%	0	0	0	0	0.0%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	2	8.7%	1	-2	-1	1	5.9%
DATA CENTRES	0	0.0%	0	0	0	0	0.0%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	3	13.0%	0	-1	-1	2	11.8%
HOTEL	1	4.3%	0	-1	-1	0	0.0%
MIXED USE	0	0.0%	0	0	0	0	0.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	16	69.6%	8	-11	-3	13	76.5%
RETAIL	1	4.3%	0	0	0	1	5.9%
TOTAL	23	100.0%	9	-15	-6	17	100.0%

CENTRAL COAST

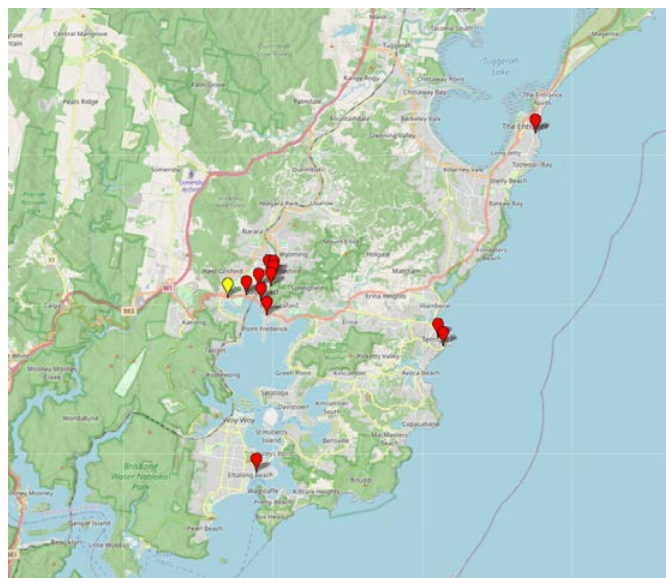
The RLB Crane Index® for the Central Coast recorded a net increase of three cranes to bring crane numbers to 13. Four new cranes were added, while one was removed. The Central Coast now sits at 72 index points, a healthy increase from the 56 index points recorded in the previous three editions.

The residential sector recorded three new cranes on the following projects:

- Glass Apartments (The Entrance)
- 35 Scenic Highway (Terrigal)
- Central Coast Quarter (Gosford)

Additionally, one new crane came online within the commercial sector, as part of the Gosford RSL project.

One crane was removed with the completion of the Azure (Terrigal) project.



KEY SECTORS

COMMERCIAL



RESIDENTIAL



OVERALL STATUS



LEGEND



INCREASE
IN NUMBER
OF CRANES



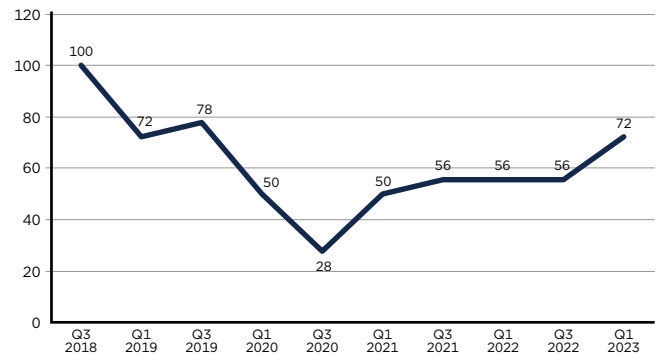
DECREASE
IN NUMBER
OF CRANES



CRANE
NUMBERS
STEADY

RLB CRANE INDEX® - CENTRAL COAST

BASE: Q3 2018 = 100



CRANE ACTIVITY - CENTRAL COAST

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	0	0.0%	0	0	0	0	0.0%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	0	0.0%	1	0	1	1	7.7%
DATA CENTRES	0	0.0%	0	0	0	0	0.0%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	0	0.0%	0	0	0	0	0.0%
MIXED USE	0	0.0%	0	0	0	0	0.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	10	100.0%	3	-1	2	12	92.3%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	10	100.0%	4	-1	3	13	100.0%

DARWIN

The number of cranes in Darwin has doubled since the last edition, growing from two to four cranes. Darwin's Crane Index has subsequently risen to an eight year high of 67 index points.

Cranes were added at both the Breeze Apartment building on the corner of Progress and Dick Ward Drives in Nightcliff, and at the Larrakeyah Barracks Redevelopment project. Two cranes remain as part of the Education and Community Precinct on Cavenagh Street.

Works have finally resumed on the Breeze Apartment building, a 92 dwelling project, after a 6 month hiatus. While the overall project still maintains its residential focus, it will now also include a restaurant, office, shop, beautician, and a cafe. Construction is expected to be completed by the end of the calendar year.

The Larraykeyah Barracks Redevelopment project is work a combined \$472 million, and involves the construction of a new wharf, warehousing, and fuel farm to support naval operations. Further upgrades to site infrastructure and shared user facilities are also a part of the redevelopment.

KEY SECTORS

CIVIC	
CIVIL	
RESIDENTIAL	

OVERALL STATUS



LEGEND



INCREASE
IN NUMBER
OF CRANES



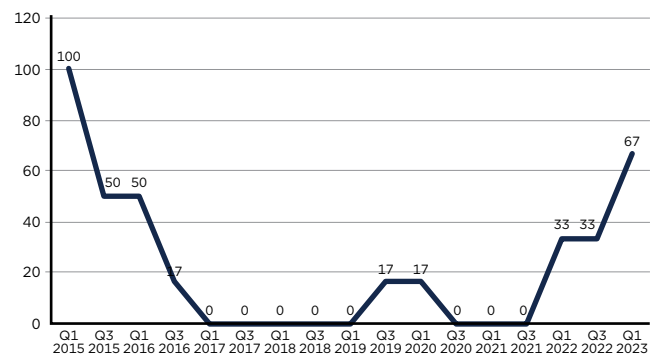
DECREASE
IN NUMBER
OF CRANES



CRANE
NUMBERS
STEADY

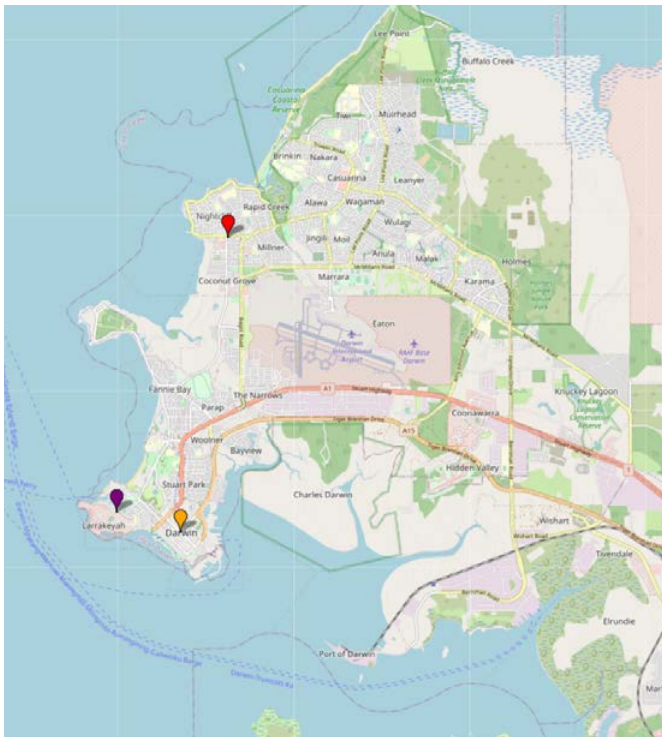
RLB CRANE INDEX® - DARWIN

BASE: Q1 2015 = 100



CRANE ACTIVITY - DARWIN

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	0	0.0%	0	0	0	0	0.0%
CIVIC	2	100.0%	0	0	0	2	50.0%
CIVIL	0	0.0%	1	0	1	1	25.0%
COMMERCIAL	0	0.0%	0	0	0	0	0.0%
DATA CENTRES	0	0.0%	0	0	0	0	0.0%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	0	0.0%	0	0	0	0	0.0%
MIXED USE	0	0.0%	0	0	0	0	0.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	0	0.0%	1	0	1	1	25.0%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	2	100.0%	2	0	2	4	100.0%



GOLD COAST

The Gold Coast RLB Crane Index® continued its upwards rise, increasing from 347 index points to a new peak of 373 index points.

A total of 19 new cranes were added, and 15 cranes were removed. The net addition of four cranes brings Gold Coast's total to 56 cranes. Residential cranes continue to dominate the skies, making up 93% of all cranes in the region. Other sectors hosting cranes are the aged care, commercial, education, and mixed use sectors.

KEY SECTORS

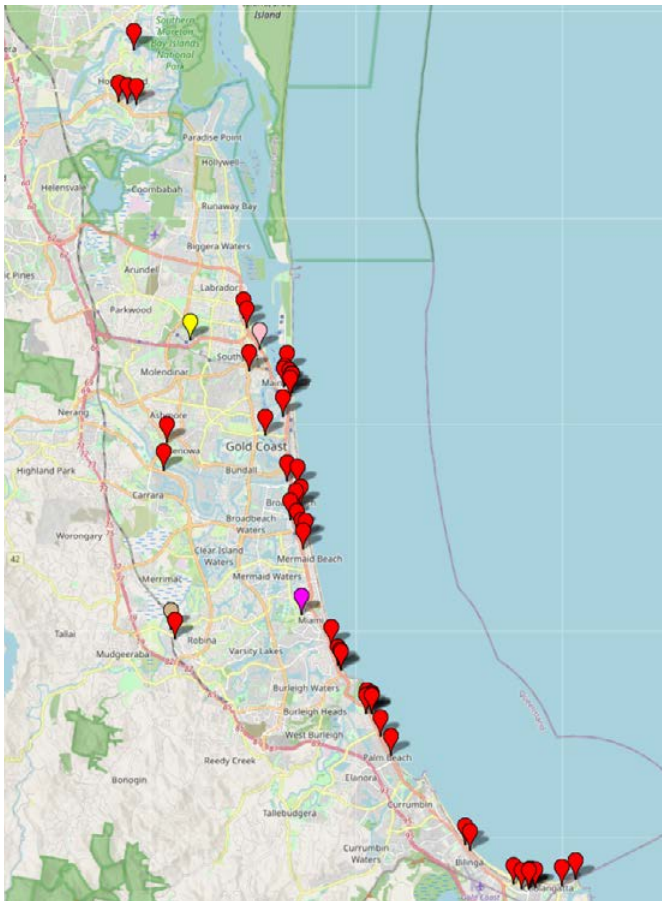
AGED CARE	
COMMERCIAL	
EDUCATION	
MIXED USE	
RESIDENTIAL	

OVERALL STATUS



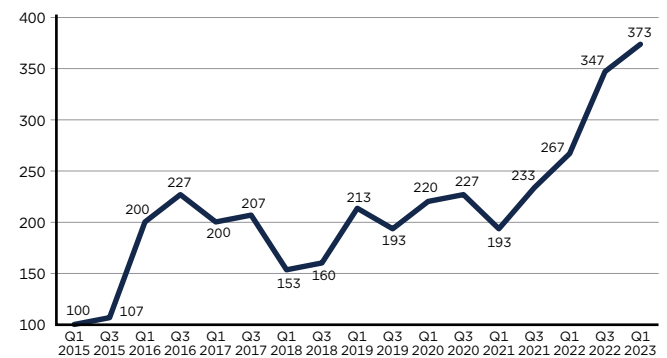
LEGEND

	INCREASE IN NUMBER OF CRANES		DECREASE IN NUMBER OF CRANES		CRANE NUMBERS STEADY
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RLB CRANE INDEX® - GOLD COAST

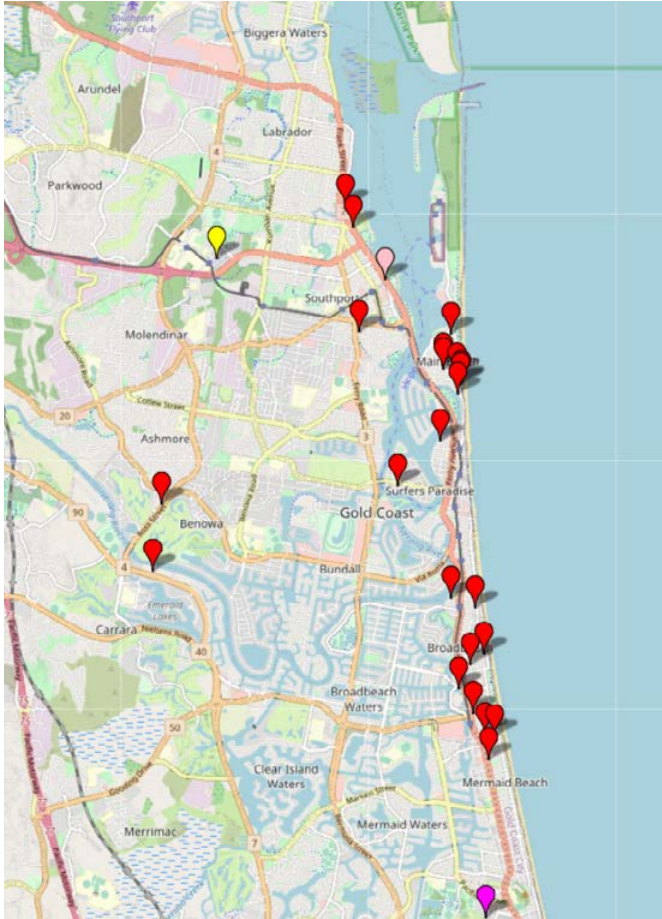
BASE: Q1 2015 = 100



CRANE ACTIVITY - GOLD COAST

	OPENING COUNT Q3 2022			MOVEMENT			CLOSING COUNT Q1 2023		
		%		+	-	NET		%	
AGED CARE	1	1.9%	0	0	0	1	1	1.8%	
CIVIC	0	0.0%	0	0	0	0	0	0.0%	
CIVIL	0	0.0%	0	0	0	0	0	0.0%	
COMMERCIAL	2	3.8%	0	-1	-1	1	1	1.8%	
DATA CENTRES	0	0.0%	0	0	0	0	0	0.0%	
EDUCATION	0	0.0%	1	0	1	1	1	1.8%	
HEALTH	0	0.0%	0	0	0	0	0	0.0%	
HOTEL	0	0.0%	0	0	0	0	0	0.0%	
MIXED USE	1	1.9%	0	0	0	1	1	1.8%	
RECREATION	0	0.0%	0	0	0	0	0	0.0%	
RESIDENTIAL	48	92.3%	18	-14	4	52	52	92.9%	
RETAIL	0	0.0%	0	0	0	0	0	0.0%	
TOTAL	52	100.0%	19	-15	4	56	56	100.0%	

GOLD COAST

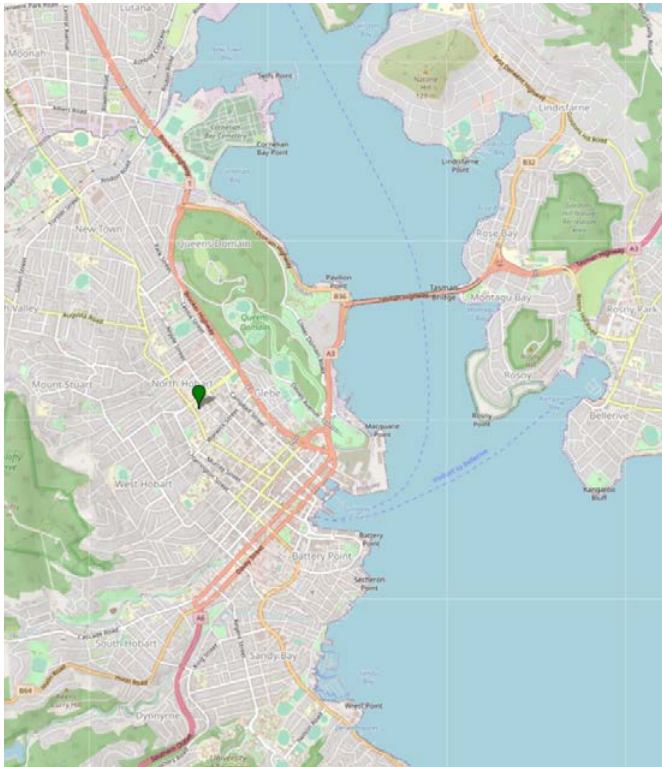


New cranes in the Gold Coast region include

- Imperial Square (2 cranes, Southport)
- Bondi University Nutrition Hub (Robina)
- Bianca (Bilinga)
- Luca, and Sur Kirra (Kirra)
- 122 Surf Parade (Broadbeach)
- Peninsula, Athena Quay, and Harbour One (Hope Island)
- 12-16 Peak Avenue, Midwater, and Amani (Main Beach)
- Yves (Mermaid Beach)
- The Esplanade (Palm Beach)
- Eve (Labrador)
- Cala Dei, and Emmerson (Coolangatta)
- 4 First Avenue (Burleigh Heads)

HOBART

With the completion of 66 Burnett Street in North Hobart, one crane remains as part of the Novotel project in the CBD.



KEY SECTORS

HOTEL



RESIDENTIAL



OVERALL STATUS



LEGEND



INCREASE
IN NUMBER
OF CRANES



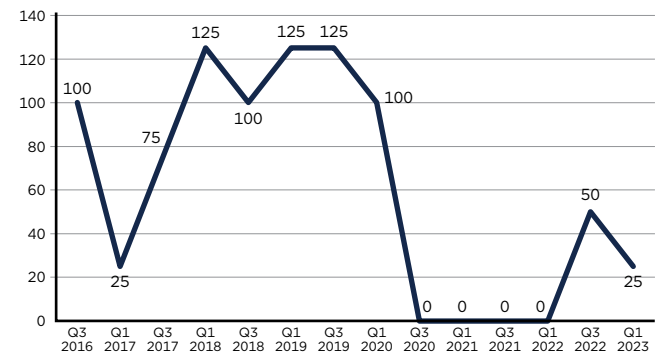
DECREASE
IN NUMBER
OF CRANES



CRANE
NUMBERS
STEADY

RLB CRANE INDEX® - HOBART

BASE: Q3 2016 = 100



CRANE ACTIVITY - HOBART

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	0	0.0%	0	0	0	0	0.0%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	0	0.0%	0	0	0	0	0.0%
DATA CENTRES	0	0.0%	0	0	0	0	0.0%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	1	50.0%	0	0	0	1	100.0%
MIXED USE	0	0.0%	0	0	0	0	0.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	1	50.0%	0	-1	-1	0	0.0%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	2	100.0%	0	-1	-1	1	100.0%

MELBOURNE

Melbourne recorded a fall of 8% in the Q1 2023 RLB Crane Index®. The index currently sits at 163 points, down from 178 points recorded in Q3 2022.

Across Melbourne, a total of 84 new cranes were added to projects, and 101 cranes removed. This represents a net loss of 17 cranes across the region, bringing the current number of cranes to 189, down from 206 recorded in the previous edition.

The value of new building (residential and non-residential) approvals increased by 7.2% in CY 2022 compared to the previous 12-month period. However, almost all the increase was recorded in the non-residential sector (+15.5%), led by significant gains in the education (+83.5%), office (+54.3%), and commercial (+46.9%) sectors.

The residential sector, on the other hand, has seen approval values grow by only 1.5% over CY 2022. The apartments sub-sector saw total approvals grow by 42.8% to \$6.1B, although still below CY 2017 peaks. Both new detached and semi-detached residential dwelling approvals fell by 6.9% and 5.6% respectively.

The inner-city remains the region with the highest prevalence of cranes, accounting for 44% of all of Melbourne's cranes. This proportion is like that of the previous two editions of the Crane Index, although much lower than the traditional 55-60% mark that was typically recorded pre-COVID. Within this region, the Hoddle Grid, Dockland & Southbank areas have seen a significant decrease in activity in crane numbers over the past four years.

Overall, Melbourne saw a net increase in the number of cranes in the civil sector (+7), reflecting the high amount of public works currently underway. The only other sector that saw net gains was the data centres/industrial sector which saw an increase of a single crane. It should be noted that for this sector most cranes are on industrial projects.

Falls in crane numbers have been seen in the commercial (-6), retail (-5), mixed use (-4), residential (-2), aged care (-2), education (-2), health (-2), hotel (-1) and civic (-1) sectors.

KEY SECTORS

AGED CARE	
CIVIC	
CIVIL	
COMMERCIAL	
DATA CENTRE / INDUSTRIAL	
EDUCATION	
HEALTH	
HOTEL	
MIXED USE	
RECREATION	
RESIDENTIAL	
RETAIL	

OVERALL STATUS

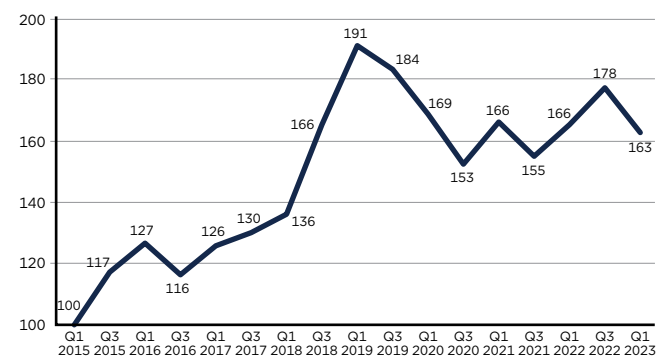


LEGEND

	INCREASE IN NUMBER OF CRANES		DECREASE IN NUMBER OF CRANES		CRANE NUMBERS STEADY
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RLB CRANE INDEX® - MELBOURNE

BASE: Q1 2015 = 100



CRANE ACTIVITY - MELBOURNE

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	4	1.9%	0	-2	-2	2	1.1%
CIVIC	4	1.9%	0	-1	-1	3	1.6%
CIVIL	12	5.8%	8	-1	7	19	10.1%
COMMERCIAL	25	12.1%	11	-17	-6	19	10.1%
DATA CENTRES	5	2.4%	2	-1	1	6	3.2%
EDUCATION	6	2.9%	2	-4	-2	4	2.1%
HEALTH	16	7.8%	3	-5	-2	14	7.4%
HOTEL	5	2.4%	2	-3	-1	4	2.1%
MIXED USE	18	8.7%	3	-7	-4	14	7.4%
RECREATION	3	1.5%	0	0	0	3	1.6%
RESIDENTIAL	103	50.0%	53	-55	-2	101	53.4%
RETAIL	5	2.4%	0	-5	-5	0	0.0%
TOTAL	206	100.0%	84	-101	-17	189	100.0%

MELBOURNE

While the residential sector recorded a loss in crane numbers, it still accounts for 53% of total cranes in Melbourne.

A significant number of residential construction projects have been nearing completion and having their cranes removed, particularly in the inner city ring areas. However, several projects have also begun hosting cranes on site, such as the new Bangs Street Prahran, Homes Victoria project (+3 cranes), Seafarers Docklands, PACE 3058, The Muse, Brunswick Yard, and Ivanhoe Gardens projects all hosting two new cranes on site.

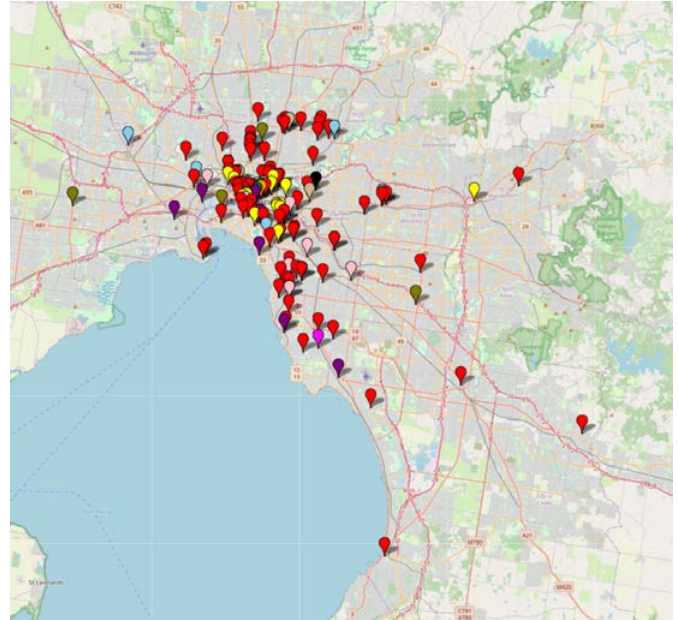
With a significant number of public infrastructure works underway, the civil sector has seen a marked uplift. The Westgate Tunnel Project now hosts a total of six cranes (up from two), with the Swanston Street Link has seen an extra crane erected.

Within the health sector, new cranes were added at Wellington Health precinct (Box Hill), St Vincent's Private Hospital (Fitzroy), and Warringal Private Hospital (Heidelberg). Four projects saw cranes removed, including the Northern Health Hospital, Peninsula Private Hospital, The Victoria Clinic Redevelopment, and Knox Private Hospital. The new Footscray Hospital has seen the number of cranes reduced from 10 to 9, although the project remains Australia's largest in terms of crane numbers.

The commercial sector saw a decrease of six cranes, bringing the total down to 19 cranes active across Melbourne. Much of the movement occurred in the Richmond/Cremorne area, which saw five new commercial cranes erected, and four cranes removed, as projects near completion. Other projects such as Eastern Road in South Melbourne, Victoria Place in East Melbourne, 1m in Malvern, and 151 Toorak Road in South Yarra are nearing completion and have seen cranes removed.

The mixed-use sector maintained the same trend as the commercial and residential sectors. While cranes were erected as part of the 447 Bay Street development in Brighton, The Huntly in Elsternwick, and Chadstone Shopping Centre's upcoming mixed-use precinct, these did not offset the significant number of cranes being removed at East Brunswick Village, and Elizabeth North in Melbourne which both hosted two cranes each. Mixed use cranes fell by four.

The retail sector currently hosts no cranes as projects at the Mount High, Box Hill Central, Highpoint, and Westfield Knox shopping centres have all been largely completed.



CRANE ACTIVITY - MELBOURNE REGIONS

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
CBD & SURROUNDS	95	46.1%	39	-50	-11	84	44.4%
EAST	26	12.6%	6	-16	-10	16	8.5%
GEELONG	5	2.4%	0	-2	-2	3	1.6%
NORTH	26	12.6%	12	-13	-1	25	13.2%
SOUTH	30	14.6%	20	-15	5	35	18.5%
WEST	24	11.7%	7	-5	2	26	13.8%
TOTAL	206	100.0%	84	-101	-17	189	100.0%

Across the city's six main regions, increases in crane numbers were only seen in the southern and western regions, increasing by five and two cranes respectively. All other regions saw crane numbers decrease, for an overall net loss of 17 cranes across Melbourne.

MELBOURNE

INNER MELBOURNE	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	-	0	0
CIVIC	2	2	2	2
CIVIL	8	7	7	8
COMMERCIAL	18	21	23	17
DATA C. / IND.	-	1	3	3
EDUCATION	4	5	4	2
HEALTH	0	0	1	2
HOTEL	3	3	4	3
MIXED USE	13	10	9	6
RECREATION	0	0	0	0
RESIDENTIAL	37	42	42	41
RETAIL	0	0	0	0
TOTAL	85	91	95	84

Inner Melbourne recorded a net fall of 11 cranes, to now total 84 cranes, down from 95 in the previous edition. A total of 39 new cranes were erected, while 50 cranes were removed. Only the health sector saw an increase in crane numbers.

New cranes within inner Melbourne include:

Commercial

The Office Project (Abbotsford), Rokeby Stret (Collingwood), Fieldwork (Cremorne), 25 Balmain Street (Cremorne), Cremorne House, Dover Street (Cremorne), 77 Stephenson Street (Cremorne), 36-52 Wellington Street (Collingwood), and Thomas Street (South Melbourne).

Health

St Vincent's Private Hospital (Fitzroy)

Hotel

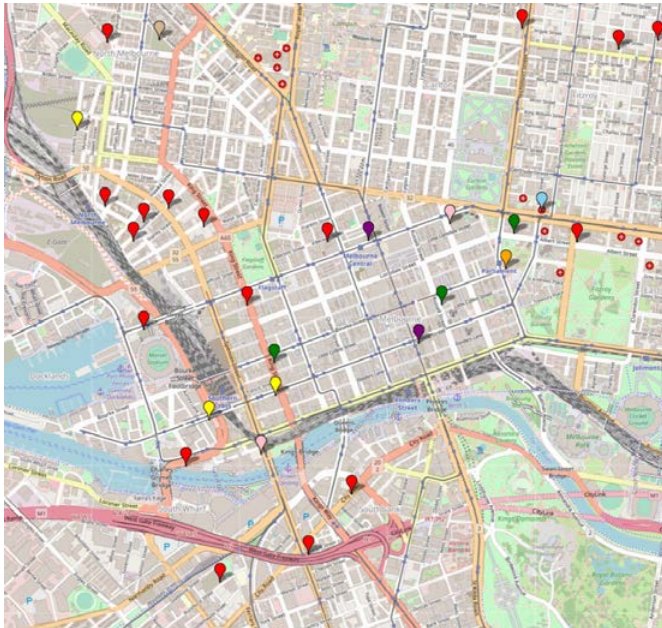
Lanson Place (East Melbourne), Melbourne Place (CBD)

Residential

312-314 Johnston Street (Abbotsford), 141 Nicholson Street (Carlton), ES Smith (Collingwood), Seafarers (Docklands), The Address (East Melbourne), George Street (Fitzroy), Fitzroy Gasworks (Fitzroy), The Muse (Melbourne), 3-15 Shiel Street (North Melbourne), The Evelyn (Port Melbourne), OASIS Residences (South Melbourne), Alexandra on the Park (South Yarra), Como Terraces (South Yarra), Goldfields House (South Yarra), 344 City Road (Southbank), Felton & Grimwade (West Melbourne), Stanley & Roden (West Melbourne).

Civil

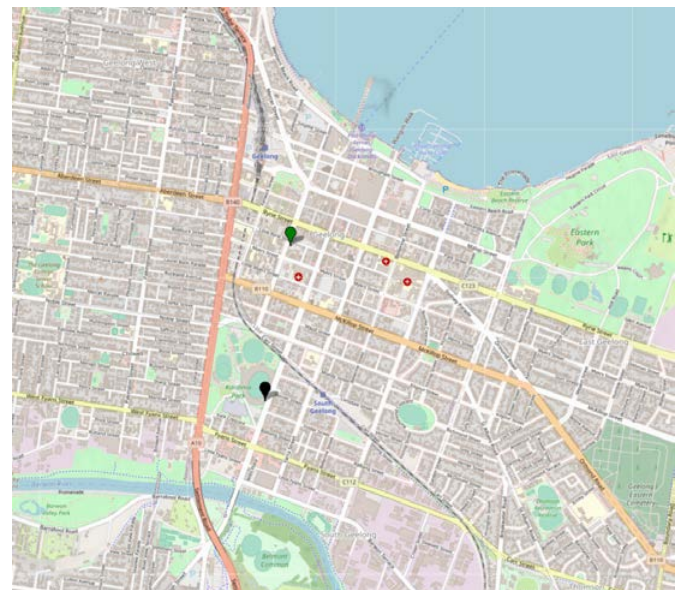
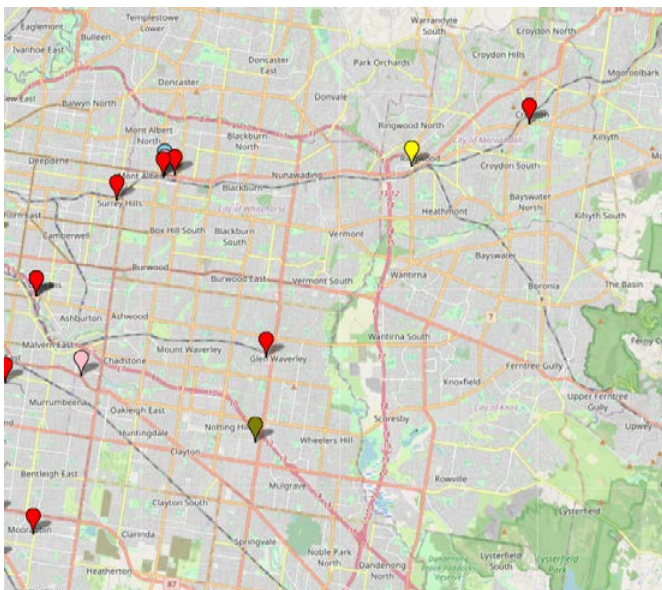
St Kilda Pier reconstruction works and an additional crane at Swanston Street Link (Metro Tunnel).



MELBOURNE

MELBOURNE EAST	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	-	2	0
CIVIC	0	0	1	1
CIVIL	0	0	0	0
COMMERCIAL	2	0	0	1
DATA C. / IND.	-	-	0	0
EDUCATION	0	0	0	1
HEALTH	6	3	1	1
HOTEL	0	0	0	0
MIXED USE	0	2	2	2
RECREATION	0	1	1	1
RESIDENTIAL	14	18	16	9
RETAIL	0	1	3	0
TOTAL	22	25	26	16

GEELONG	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	-	0	0
CIVIC	2	1	1	0
CIVIL	0	0	0	0
COMMERCIAL	0	0	0	0
DATA C. / IND.	-	-	0	0
EDUCATION	0	0	0	0
HEALTH	0	0	0	0
HOTEL	0	1	1	1
MIXED USE	0	0	0	0
RECREATION	0	0	2	2
RESIDENTIAL	1	1	1	0
RETAIL	0	0	0	0
TOTAL	3	3	5	3



The east saw the removal of 16 cranes, with the addition of six new cranes. This reflects an overall net loss of 10 cranes in Melbourne's East due to a large number of residential developments nearing completion. Cranes in the retail (-3) and aged care (-2) sectors were also taken off-site.

New cranes were erected at 21 Ringwood Street (Ringwood), Xavier College (Kew), Wellington Health (Box Hill), Tempo (Box Hill), 12 Coppin Grove (Hawthorn), and Arbour Park (Surrey Hills).

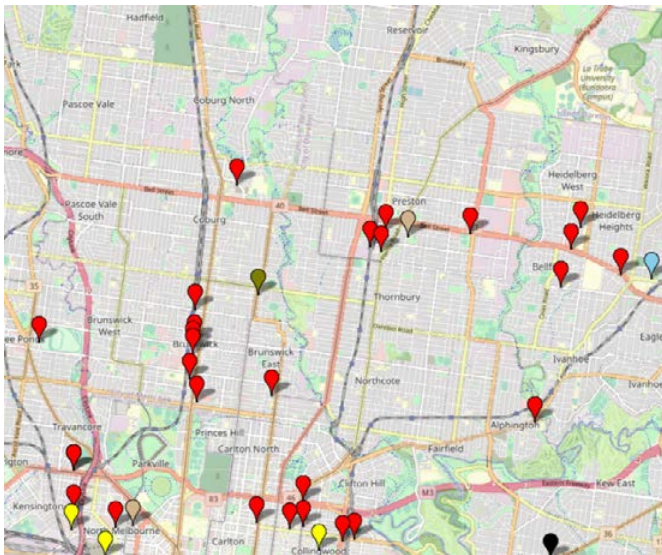
Cranes were removed from Knox Private Hospital (Wantirna), Burwood Brickworks Apartments (Burwood East), The Mountain High, Box Hill Central, and Westfield Knox Shopping Centres, in addition to a number of residential projects nearing completion.

Geelong has recorded a net decrease of two cranes, with cranes removed as part of GPAC, and Geelong Quarter. The three cranes currently present in the region are on Quest Geelong Central (1) and GMHBA Stadium (2) projects, all of which were existing cranes. No new cranes were added to the Geelong region.

MELBOURNE

MELBOURNE NORTH	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	0	0	0
CIVIC	0	0	0	0
CIVIL	2	2	0	0
COMMERCIAL	0	0	0	0
DATA C. / IND.	-	0	0	1
EDUCATION	0	1	1	1
HEALTH	1	2	1	1
HOTEL	1	1	0	0
MIXED USE	0	5	2	0
RECREATION	0	0	0	0
RESIDENTIAL	19	18	22	22
RETAIL	0	0	0	0
TOTAL	23	29	26	25

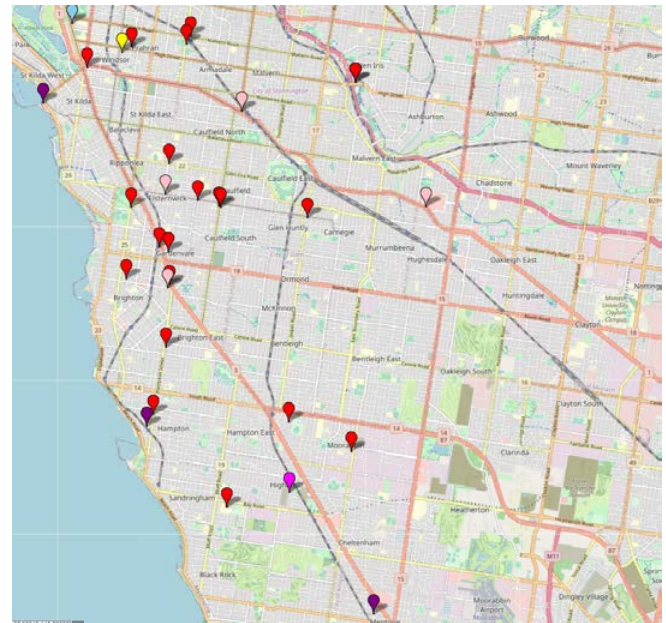
MELBOURNE SOUTH	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	0	2	2
CIVIC	1	0	0	0
CIVIL	7	1	0	2
COMMERCIAL	0	1	2	1
DATA C. / IND.	-	0	0	1
EDUCATION	1	1	1	0
HEALTH	5	2	2	0
HOTEL	0	0	0	0
MIXED USE	0	2	2	4
RECREATION	0	0	0	0
RESIDENTIAL	14	13	20	25
RETAIL	0	0	1	0
TOTAL	28	20	30	35



The north saw a net decrease of one crane, bringing the total number of cranes across the region to 25. A total of 12 cranes were added, and 13 removed.

New cranes include: Brunswick Yard (2), National Storage (Brunswick), Flux Brunswick, Nightingale Laak (Brunswick), Archer (Brunswick), Neighbourhood (Brunswick East), PACE 3058 (Coburg), Warringal Private Hospital (Heidelberg), and Ivanhoe Gardens (Ivanhoe).

Cranes were removed from projects at East Brunswick Village (Brunswick East), Seamstress (Brunswick East), Milieu (Brunswick East), Northern Health Hospital (Epping), 261 Keilor Road (Essendon), Luminess (Essendon), Valia (Ivanhoe), Stonepine House (Moonee Ponds), Central 35 (Moonee Ponds), Solarino House (Brunswick), 210 Albion Street (Brunswick), and Eloquence (Moonee Ponds).



Melbourne's southern region has seen an increase of five cranes and is just one of two regions to record a net increase in crane numbers in this edition.

New cranes were added at: Homes Victoria Bangs Street (Pahran), Chadstone Shopping Centre (Malvern), Hampton Station Redevelopment (Hampton), Eastbourne Commercial Development (Windsor), The Huntly (Elsternwick), Monument (Armada), Sea & Ske (Cheltenham), The Lonsdale (Dandenong), The Kingsley (Glen Waverley), Genoa Street (Moorabbin), and Garden Residence (Toorak) among others.

Cranes in Melbourne's South that were removed from sites include: 148 East Boundary Road (Bentleigh East), The Esplanade (Brighton Beach), Caulfield Village (Caulfield North), Chadstone Shopping Centre, Aster Apartments (Clayton South), Elsternwick Village Apartments, Yorkston Apartments (Elsternwick), Neue Hightett, Peninsula Private Hospital, 1M (Malvern), The Victoria Clinic (Pahran), Jackson House (Toorak), 13 Chesterville Road (Cheltenham) and 18 St Georges Road (Toorak).

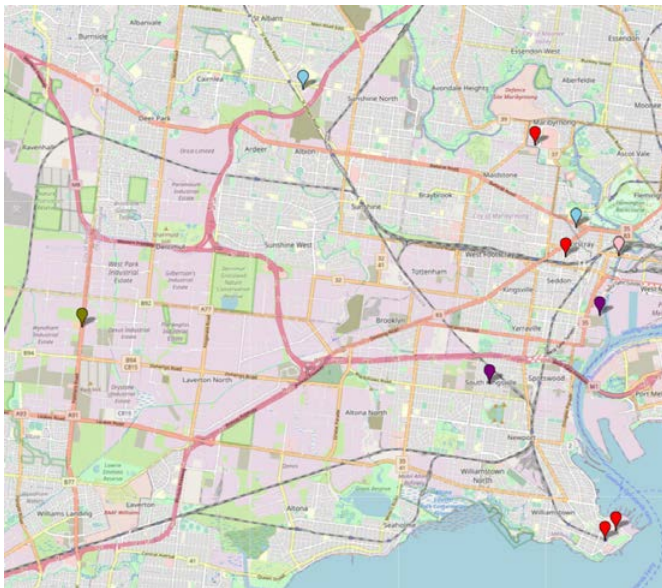
MELBOURNE

MELBOURNE WEST	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	0	0	0
CIVIC	0	0	0	0
CIVIL	6	4	5	9
COMMERCIAL	0	0	0	0
DATA C. / IND.	-	0	2	1
EDUCATION	0	0	0	0
HEALTH	4	12	11	10
HOTEL	0	0	0	0
MIXED USE	3	5	3	2
RECREATION	0	0	0	0
RESIDENTIAL	6	3	2	4
RETAIL	0	0	1	0
TOTAL	19	24	24	26

Melbourne's west recorded a net increase of two cranes to total 26 cranes, historically the highest number of cranes seen within the region.

Footscray again remains as the centre of activity within the region, hosting a total of 18 cranes across the Footscray Hospital, West Gate Tunnel Project, Victoria Square, and Arco projects.

Five cranes were removed from Footscray Hospital (down from 10 cranes to 9 cranes), 339 Palmers Road Truganina (down from 2 cranes to 1 crane), as well as the Liberty One (Footscray), Highpoint Shopping Centre (Maribyrnong), and Union Quarter (Spotswood).



NEWCASTLE

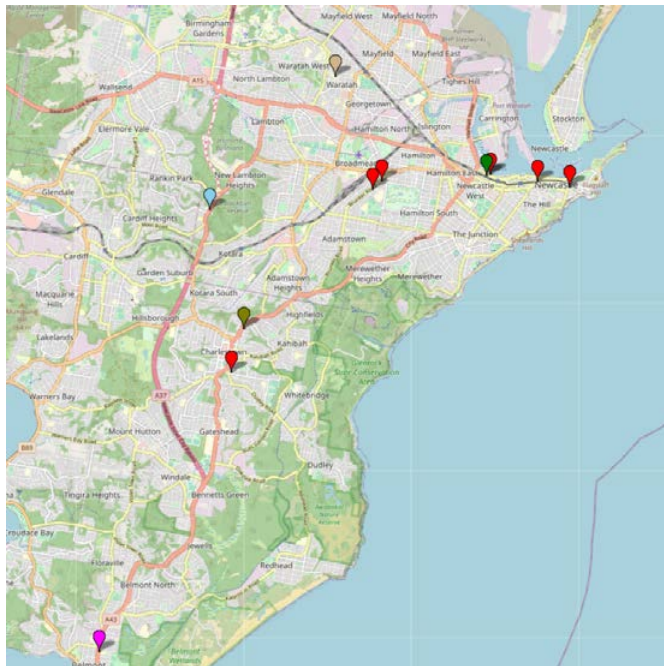
Newcastle's RLB Crane Index® has decreased to 113 index points, down from 150 index points as at the past two editions. A total of three new cranes were added, while six cranes were removed. This brings the new count to nine.

The three new cranes added were part of the following projects:

- John Hunter Hospital (New Lambton Heights)
- Horizon on the Harbour (Newcastle)
- Chapter Newcastle

Cranes were removed from:

- Oak Tree Retirement Village (Jesmond)
- 723 Hunter Street (Newcastle West)
- Ascent Nelson Bay
- The Ivy (Broadmeadow)
- Civic Carpark Redevelopment on King Street (Newcastle)
- 31 Macquarie Street (Belmont)



KEY SECTORS

AGED CARE	↑
COMMERCIAL	↑
EDUCATION	↓
HEALTH	↓
HOTEL	↓
RESIDENTIAL	↑

OVERALL STATUS

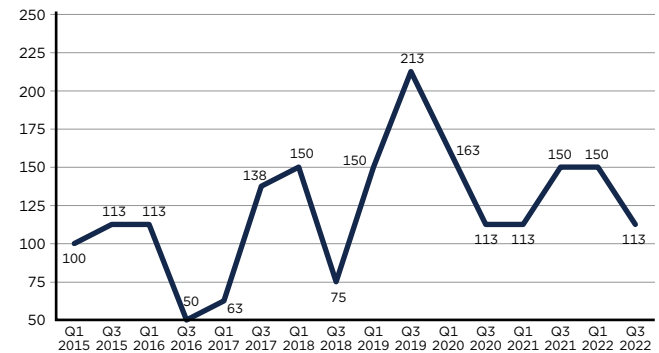


LEGEND

↑ INCREASE IN NUMBER OF CRANES	↓ DECREASE IN NUMBER OF CRANES	↔ CRANE NUMBERS STEADY
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RLB CRANE INDEX® - NEWCASTLE

BASE: Q3 2015 = 100



CRANE ACTIVITY - NEWCASTLE

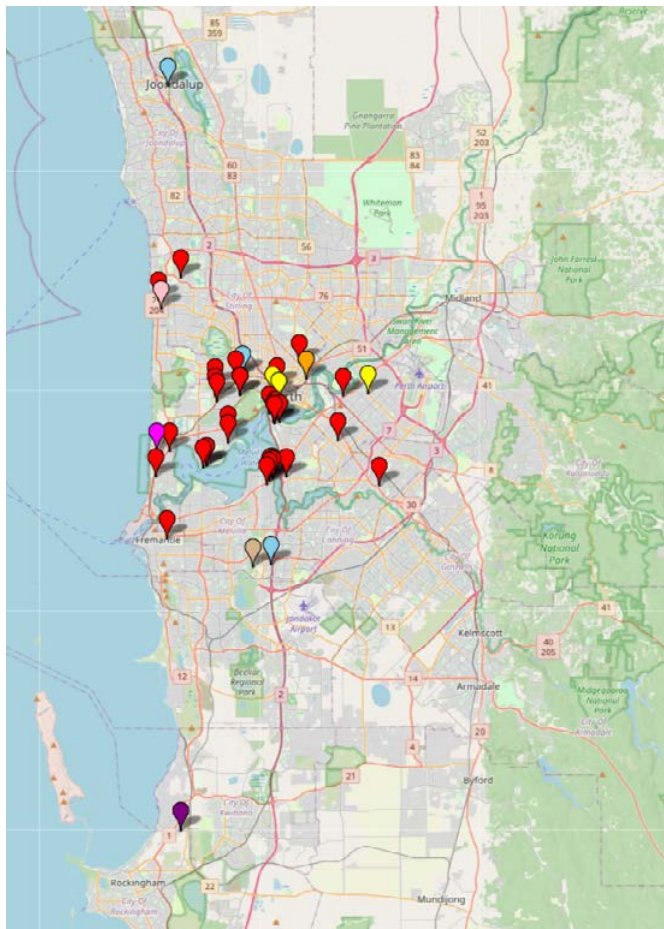
	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	1	8.3%	0	-1	-1	0	0.0%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	1	8.3%	0	-1	-1	0	0.0%
DATA CENTRES	0	0.0%	0	0	0	0	0.0%
EDUCATION	1	8.3%	0	0	0	1	11.1%
HEALTH	0	0.0%	1	0	1	1	11.1%
HOTEL	1	8.3%	0	0	0	1	11.1%
MIXED USE	0	0.0%	0	0	0	0	0.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	8	66.7%	2	-4	-2	6	66.7%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	12	100.0%	3	-6	-3	9	100.0%

PERTH

Perth's RLB Crane Index® remains at 119 index points. A total of 16 cranes were added, offset by 16 cranes removed, maintaining total cranes at 51.

Western Australia's residential sector saw a contraction in the value of work done by 6.6% in CY 2022. This was mainly driven by the new house and renovation sectors, as the apartment sector bucked the trend and recorded an increase in activity (+5.5% to \$919m). The non-residential sector, on the other hand, performed significantly stronger, recording an increase in work done by 11.2% to reach \$4.4b over 2022. The muted performance of the overall residential sector relative to the non-residential sector is more pronounced when examining approvals; residential approvals over CY 2022 dropped by 24.2%, while non-residential approvals only saw a 1.4% dip.

The residential sector has seen six cranes removed from sites and 15 new cranes erected, contributing to a net gain of nine cranes for the city.



KEY SECTORS

AGED CARE	↓
CIVIC	↑
CIVIL	↓
COMMERCIAL	↑
EDUCATION	↑
HEALTH	↑
HOTEL	↑
MIXED USE	↓
RESIDENTIAL	↓

OVERALL STATUS

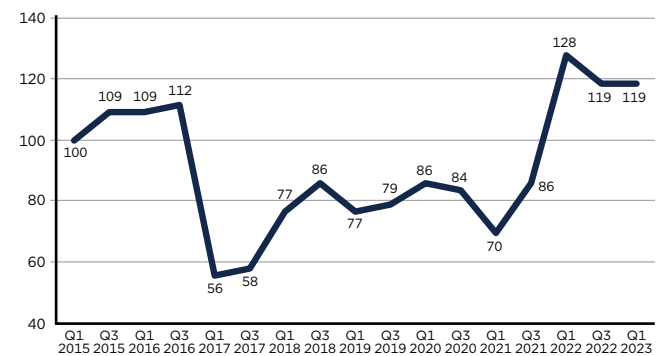


LEGEND

↑ INCREASE IN NUMBER OF CRANES	↓ DECREASE IN NUMBER OF CRANES	↑ CRANE NUMBERS STEADY
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RLB CRANE INDEX® - PERTH

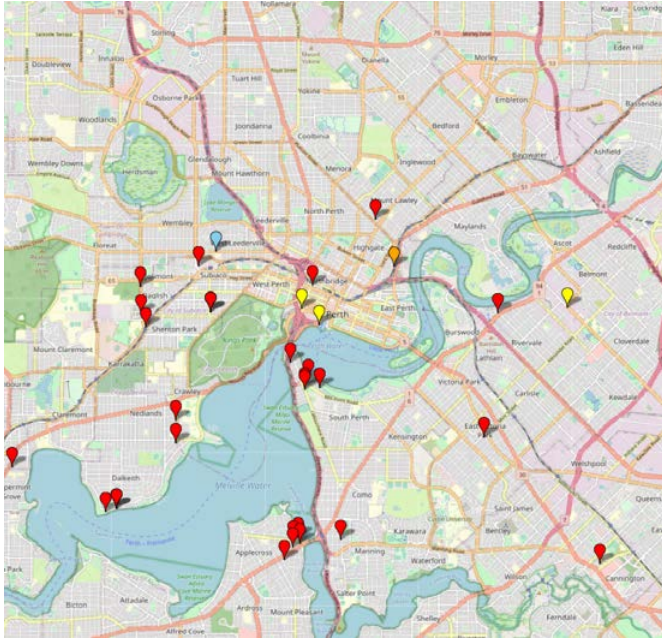
BASE: Q1 2015 = 100



CRANE ACTIVITY - PERTH

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 22	%	+	-	NET	Q1 23	%
AGED CARE	1	2.0%	0	0	0	1	2.0%
CIVIC	2	3.9%	0	-1	-1	1	2.0%
CIVIL	1	2.0%	0	0	0	1	2.0%
COMMERCIAL	5	9.8%	0	-1	-1	4	7.8%
DATA CENTRES	0	0.0%	0	0	0	0	0.0%
EDUCATION	5	9.8%	0	-4	-4	1	2.0%
HEALTH	5	9.8%	1	-3	-2	3	5.9%
HOTEL	1	2.0%	0	-1	-1	0	0.0%
MIXED USE	1	2.0%	0	0	0	1	2.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	30	58.8%	15	-6	9	39	76.5%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	51	100.0%	16	-16	0	51	100.0%

PERTH



The non-residential sectors experienced falls in net crane numbers. The education sector saw four cranes taken down (and no new ones erected), while the health sector saw three cranes removed and only one new crane put in place at St John of God Murdoch Hospital

New cranes were erected on the following projects. All cranes listed below are part of the residential sector,

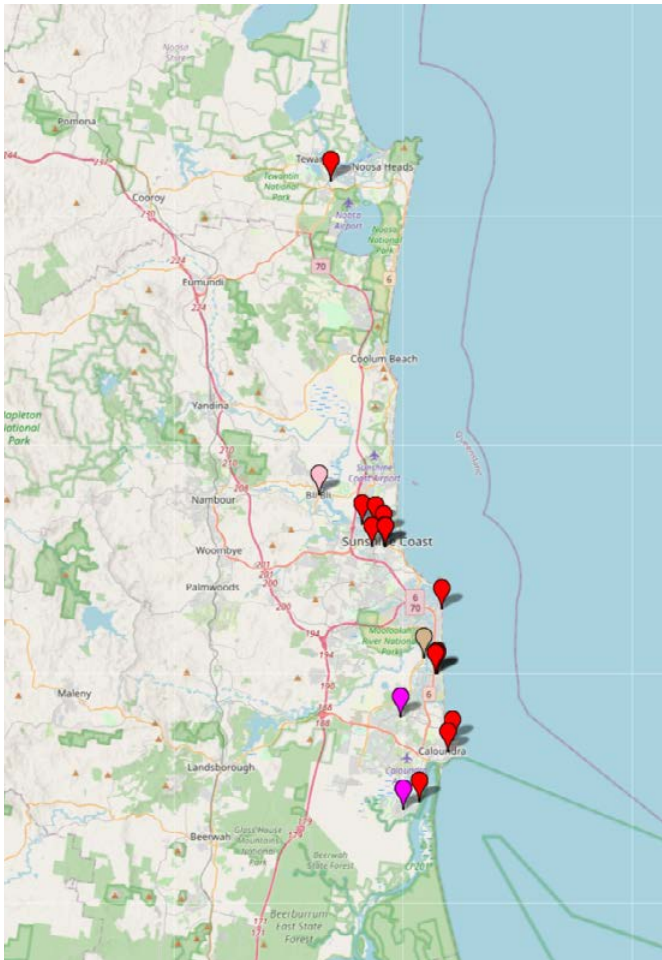
- 12-18 Labouchere Road (South Perth, 2 cranes)
- Riveria, (Applecross, 2 cranes)
- Perth Hub (Perth, 2 cranes)
- Rivean (Nedlands, 3 cranes up from 1)
- Shenton Quarter (Shenton Park)
- Florin Parkside (Jolimont)
- Jutland Parade (Dalkeith)
- The Point (Rivervale)
- Federation Homes (Mount Lawley)
- Melvista (Crawley)
- Coast Residences (Scarborough)

Cranes were removed from the following projects:

- Princes Margaret Hospital (Subiaco)
- Bob Hawke College Stage 2 (Subiaco)
- The Groves Attadale (Attadale)
- Westralia Square 2 (Perth)
- Parliament Place Office (Perth)
- Claremont Hotel (Claremont)
- AT238 (Perth)
- Noma (Mosman Park)
- Wright Stret Apartments (Highgate)
- Kiora (Claremont)
- The Foundry (Leederville)

SUNSHINE COAST

The Sunshine Coast RLB Crane Index® has increased to 200 index points, a significant increase on the 160 index points that were recorded for the previous two editions. The region has seen the removal of six cranes, and the addition of 10, bringing the region's total to 20 cranes.



KEY SECTORS

AGED CARE	
COMMERCIAL	
EDUCATION	
MIXED USE	
RESIDENTIAL	

OVERALL STATUS

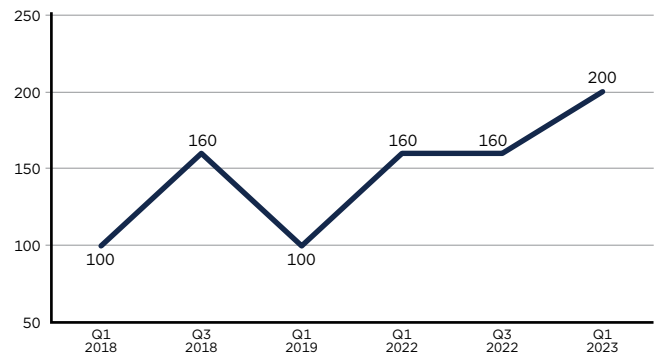


LEGEND

	INCREASE IN NUMBER OF CRANES		DECREASE IN NUMBER OF CRANES		CRANE NUMBERS STEADY
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RLB CRANE INDEX® - SUNSHINE COAST

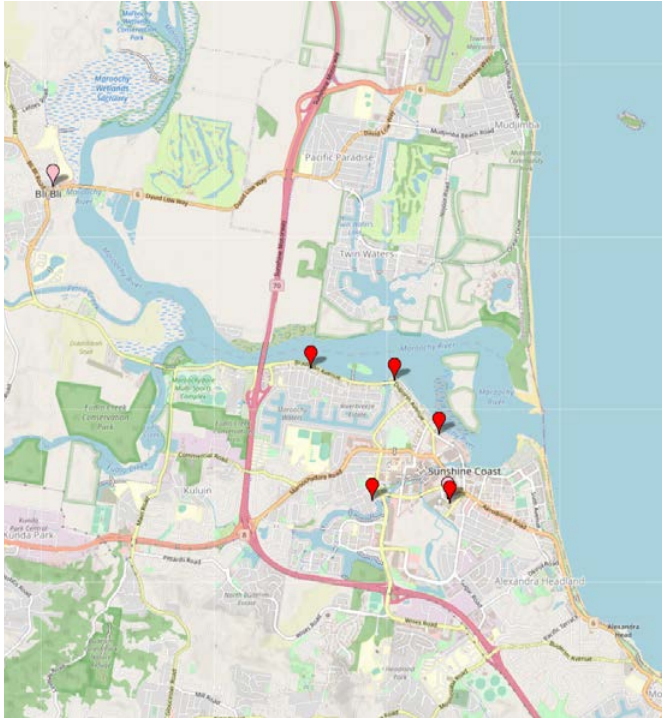
BASE: Q1 2018 = 100



CRANE ACTIVITY - SUNSHINE COAST

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	1	4.3%	1	0	1	2	10.0%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	1	4.3%	0	-1	-1	0	0.0%
DATA CENTRES	0	0.0%	0	0	0	0	0.0%
EDUCATION	0	0.0%	1	0	1	1	5.0%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	0	0.0%	0	0	0	0	0.0%
MIXED USE	3	13.0%	1	-2	-1	2	10.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	11	47.8%	7	-3	4	15	75.0%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	16	69.6%	10	-6	4	20	100.0%

SUNSHINE COAST



The residential sector remains by far the largest in the region, having 15 of the 20 cranes on the coast.

New cranes were erected at:

- Zinc, Bokarina (from 1 to 2)
- Azzure, Bokarina (from 1 to 2)
- East 153, Moffat Beach
- The Curl, Bokarina
- The Corso, Maroochydore
- The Whitely, Noosa
- Riverbend Apartments, Maroochydore

New non-residential cranes were erected at:

- Rockpool Aged Care, Pelican Waters (Aged Care)
- The Thompson Institute. Birtinya (Education)
- Maroochydore CBD Car Park. Maroochydore (Mixed Use/Other)

SYDNEY

Sydney's Q1 2023 RLB Crane Index® has receded from its 235 point peak in the previous edition to currently record 225 index points, reflecting a 4% decrease. This decrease represents a net loss of 15 cranes across Sydney. Over the past six months, a total of 114 cranes have been removed, and 99 new cranes commencing on sites. The current index figure is still the second highest recorded, with 365 cranes across Sydney.

Approval levels in 2022 across New South Wales dropped 6.0% (-\$2.5b) compared to 2021. Residential approvals fell by 4.2% (Houses up 2.3% but apartments down by 23.1%). Non residential approval values were down by 8.2% or \$1.5b mainly due to falling values in the commercial, entertainment and hotel sectors. Positively offices rose by 43% (\$1.2b) over 2021 results.

For this edition, Sydney recorded a significant decrease in crane numbers in the residential, data center/industrial, and commercial sectors, which largely reflects the movement in approval values.

The residential sector saw a total of 78 cranes removed, and 65 new cranes bringing the overall number of cranes in the sector down to 246 cranes. New projects that now host multiple cranes include: Parkview Macquarie Park, 1-15 Barkley Street Canley Vale, The Opera Merrylands, and 5 Gipps Street Claremont Meadows.

The data center/industrial sector saw a net decrease of seven cranes, with eight taken down and only one single new crane erected. Cranes were removed from 3 Apollo Place (Lane Cove West), the Macquarie Exchange (Macquarie Park), 21 Baywater Drive (Wentworth Point), all of which hosted two cranes each, and the Morebank Intermodal Terminal. The only new crane erected as part of the data center/industrial sector was at 450 Steward Drive (Oran Park).

A total of six new commercial cranes were identified at 1 Alto Place (Artarmon), the Orion Business Park (Lane Cove West), 7 Maitland Place (Norwest), 29-41 Hutchinson Street (Surrey Hills), Merchant House (Sydney), and at the Reserve Bank (Sydney.). This was offset by a total of 12 cranes being taken down across the sector in Sydney, with noteworthy completions at 74 Rickard Road (Bankstown), and the Circular Quay Tower (Sydney), both of which hosted multiple cranes on site. There are now 24 commercial cranes in Sydney.

KEY SECTORS

AGED CARE	
CIVIC	
CIVIL	
COMMERCIAL	
DATA CENTRE / INDUSTRIAL	
EDUCATION	
HEALTH	
HOTEL	
MIXED USE	
RECREATION	
RESIDENTIAL	
RETAIL	

OVERALL STATUS

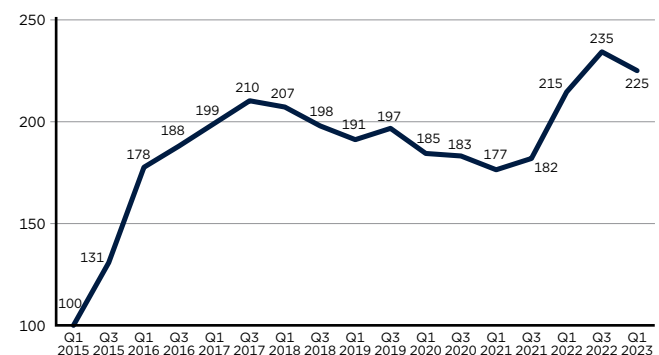


LEGEND

	INCREASE IN NUMBER OF CRANES		DECREASE IN NUMBER OF CRANES		CRANE NUMBERS STEADY
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RLB CRANE INDEX® - SYDNEY

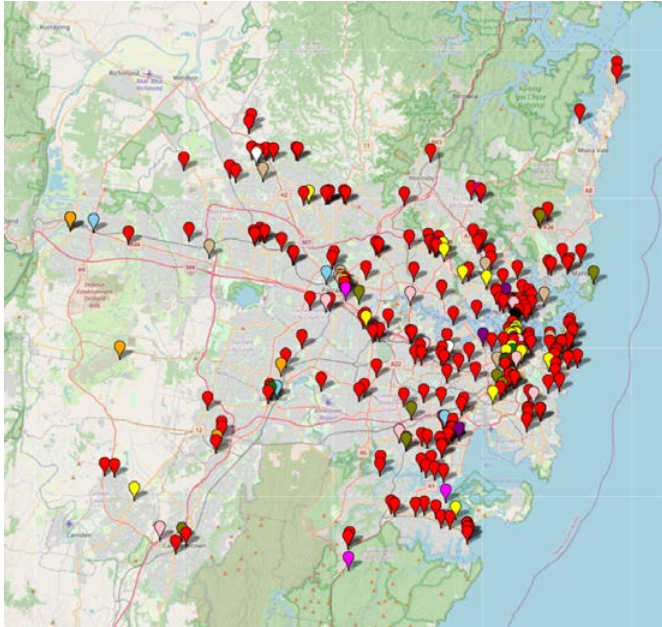
BASE: Q1 2015 = 100



CRANE ACTIVITY - SYDNEY

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	5	1.3%	0	0	0	5	1.4%
CIVIC	13	3.4%	6	-3	3	16	4.4%
CIVIL	7	1.8%	5	-1	4	11	3.0%
COMMERCIAL	30	7.9%	6	-12	-6	24	6.6%
DATA CENTRES	16	4.2%	1	-8	-7	9	2.5%
EDUCATION	8	2.1%	4	-3	1	9	2.5%
HEALTH	3	0.8%	2	-1	1	4	1.1%
HOTEL	5	1.3%	1	-3	-2	3	0.8%
MIXED USE	30	7.9%	8	-4	4	34	9.3%
RECREATION	1	0.3%	0	0	0	1	0.3%
RESIDENTIAL	259	68.2%	65	-78	-13	246	67.4%
RETAIL	3	0.8%	1	-1	0	3	0.8%
TOTAL	380	100.0%	99	-114	-15	365	100.0%

SYDNEY



Positively, the civil, mixed use, and civic sectors saw crane numbers increase. The increase in crane numbers in the civil sector is entirely attributed to the Westconnex project in Rockdale, contributing an extra five long term crawler cranes.

The mixed use / other sector saw an overall increase of four cranes to now total 34, the second largest sector in Sydney. Eight cranes were added and four were removed. Cranes were added to the new Sydney Fish Markets (+2), bringing the total cranes on site to six, Thodes Central (34-38 Walker Street Rhodes), increasing to three. New cranes were also erected as part of the 391 Anzac Parade (Kingsford), 68 Macquarie Street (Parramatta) and 499 Botany Road (Zetland) projects. Cranes were removed from Auburn Square (Auburn), No. 5 George Street (Blacktown), Rhodes Central (29 Marquet Street Rhodes), and 1 Waines Crescent (Rockdale) projects.

A total of six new civic sector cranes came online at Powerhouse Parramatta (3), Edmondson Park Station (2), and in Oran Park. Three cranes were bought down at Revesby Commuter Car Park, 16-18 Stoddard Street (Roselands), and Seven Hills RSL project.

The largest developments based on crane numbers in Sydney are:

- New Sydney Fish Markets, Glebe (6, up from 4)
- One Sydney Harbour, Barangaroo (6, up from 5)
- Westconnex, Rockdale (5, new)
- Western Sydney Airport, Badgerys Creek (4, unchanged)

CRANE ACTIVITY - SYDNEY REGIONS

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
CBD & TSURROUNDS	98	25.8%	18	-27	-9	89	24.4%
EAST	33	8.7%	7	-11	-4	29	7.9%
NORTH	110	28.9%	26	-35	-9	101	27.7%
SOUTH	55	14.5%	23	-12	11	66	18.1%
WEST	84	22.1%	25	-29	-4	80	21.9%
TOTAL	380	100.0%	99	-114	-15	365	100.0%

Across Sydney's five main regions, losses were seen in all regions except the South, which saw a net gain of 11 cranes. The North accounts for 28% of all cranes in Sydney, followed by the CBD & Surrounds at 24%.

SYDNEY

INNER SYDNEY	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	-	0	0
CIVIC	0	4	3	3
CIVIL	1	2	3	3
COMMERCIAL	10	7	10	10
DATA C. / IND.	-	-	2	2
EDUCATION	3	1	1	1
HEALTH	0	0	0	0
HOTEL	4	3	3	2
MIXED USE	11	16	15	19
RECREATION	7	4	1	1
RESIDENTIAL	54	57	60	47
RETAIL	0	1	0	1
TOTAL	90	95	98	89

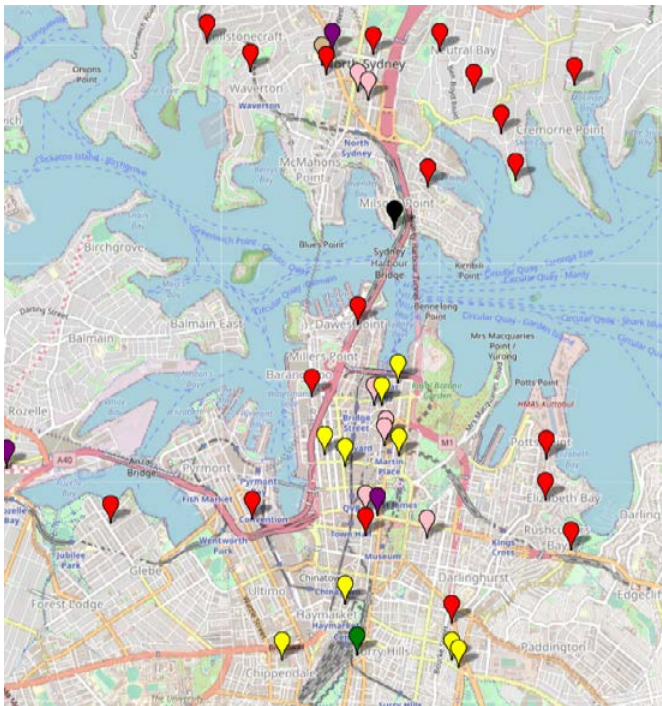
Inner Sydney (CBD & Surrounds) saw the addition of only 18 cranes, against the removal of 27 cranes. This brings the total number of cranes down to 89 cranes. Losses were almost entirely attributed to the residential sector, which recorded a net decrease of 13 cranes, while the hotel sector saw net decrease of just one crane. Interestingly, the mixed use sector saw crane numbers increase by four.

New cranes in Sydney's CBD and surrounding areas include:

- 29-41 Hutchinston Street (Surrey Hills)
- Merchant House (Sydney)
- Reserve Bank of Australia (Sydney)
- 4-8 Garden Street (Alexandria)
- 499 Botany Road (Zetland)
- Natutique Residences (Rushcutters Bay)
- 333 Liverpool Road (Ashfield)
- Woolworths Ashfield

Projects that had more than one crane removed in Inner Sydney include:

- Circular Quay Tower (Sydney)
- 190 A Victoria Road (Marrickville)
- The Ribbon (Sydney)



SYDNEY

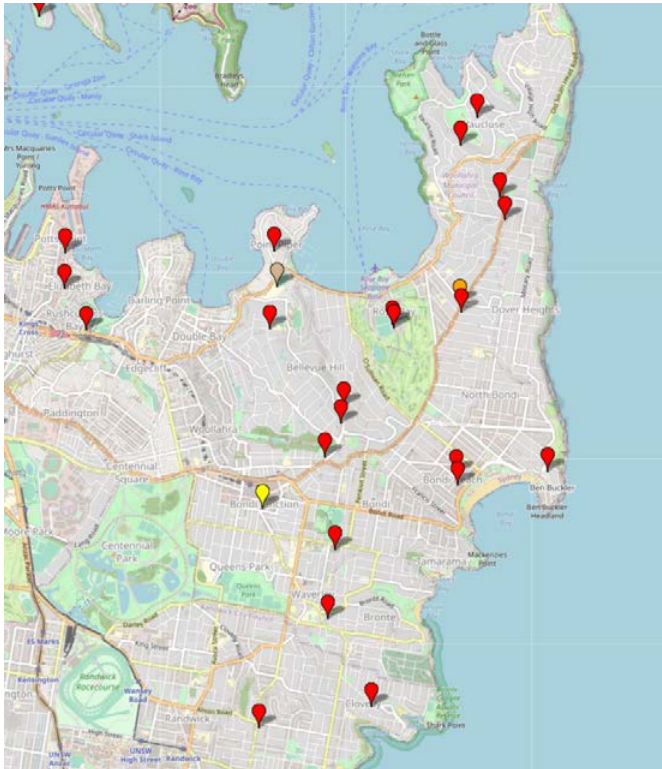
SYDNEY EAST	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	0	0	0
CIVIC	0	0	1	1
CIVIL	0	0	0	0
COMMERCIAL	2	3	3	2
DATA C. / IND.	0	0	0	0
EDUCATION	2	2	1	1
HEALTH	0	0	0	0
HOTEL	0	1	1	0
MIXED USE	0	0	0	1
RECREATION	0	0	0	0
RESIDENTIAL	21	28	27	24
RETAIL	0	0	0	0
TOTAL	25	34	33	29

Crane numbers in Sydney's east have fallen below 2022 levels, totaling only 29 cranes. Seven cranes were added and 11 removed (1 in the commercial and hotel sectors each, 9 in the residential sector). The residential sector still constitutes 82% of total cranes in the east.

New cranes erected as part of the following projects:

- 391-393 Anzac Parade (Kingsford)
- 164 Victoria Road (Bellevue Hill)
- Splendour (Bellevue Hill)
- 75 Kambala Road (Bellevue Hill)
- 2 Jaques Avenue (Bondi Beach)
- 10 Burrabirra Avenue (Vaucluse)
- 50 Old South Head Road (Vaucluse).

Cranes were removed from sites in Bellevue Hill, Bondi/Bondi Junction, Bronte, Edgecliff, Mascot, Randwick, Vaucluse, and Watsons Bay.



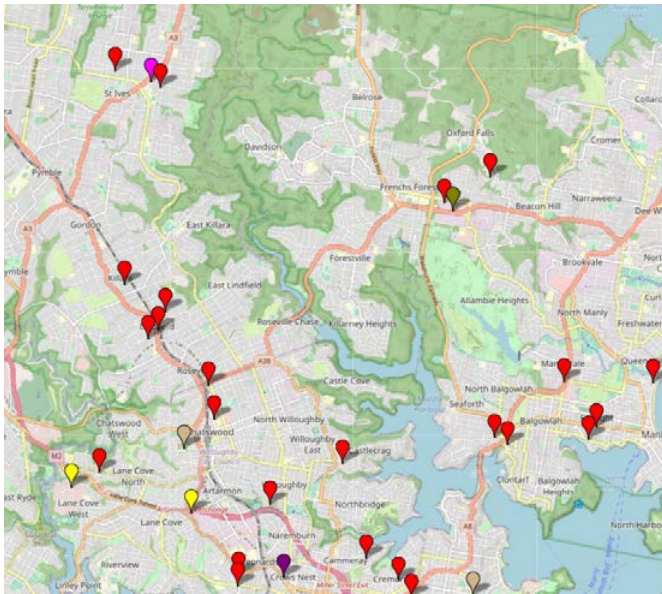
SYDNEY

SYDNEY NORTH	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	0	0	2	2
CIVIC	1	0	0	0
CIVIL	3	3	4	3
COMMERCIAL	4	8	7	7
DATA C. / IND.	0	0	8	3
EDUCATION	4	4	6	4
HEALTH	2	2	1	0
HOTEL	0	0	0	0
MIXED USE	7	8	4	4
RECREATION	1	1	0	0
RESIDENTIAL	41	74	77	78
RETAIL	1	1	1	0
TOTAL	64	101	110	101

Along with the Inner CBD area, Sydney's Northern suburbs recorded a net decrease of nine cranes, with a total of 26 cranes added and 35 cranes removed. Interestingly, the data centers/industrial sector recorded the largest decrease in crane numbers (-5), and only the residential sector saw any net increase in crane numbers (+1).

A notable new addition is Parkview (Macquarie Park), which contains three cranes on site. Except for four cranes, all further additions in the north were part of residential projects. Cranes were removed from 3 Apollo Place (Lane Cove West), and Macquarie Exchange (Macquarie Park), both of which previously hosted two cranes on site. This is addition to a host of numerous other single-crane projects.

Cranes continue to be centered on the main arterial corridors, and can be found in 43 suburbs.



SYDNEY

SYDNEY SOUTH	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	-	2	2
CIVIC	1	0	1	1
CIVIL	1	0	0	5
COMMERCIAL	2	4	5	4
DATA C. / IND.	-	-	2	3
EDUCATION	0	0	0	0
HEALTH	3	2	0	1
HOTEL	0	0	0	0
MIXED USE	0	5	5	4
RECREATION	0	0	0	0
RESIDENTIAL	35	35	40	46
RETAIL	0	0	0	0
TOTAL	42	46	55	66

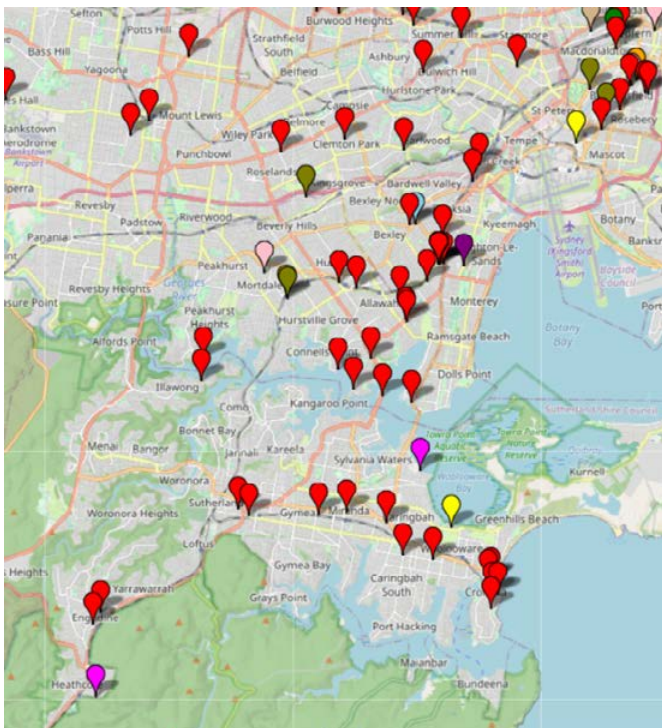
Sydney's southern region continues to maintain its increase in crane numbers, standing out amongst all other regions examined. The south has seen a net gain of 11 cranes (23 additions, 12 losses), bringing the total number of cranes in the region to 66; this is the most number of cranes recorded for the area. Much of the net increase is attributed to the residential (+6) and civil (+5) sectors, with only the commercial and mixed-use sectors seeing a decrease in net counts (both by 1 crane).

The South's largest projects by crane counts are part of the following:

- Westconnex (Rockdale, 5 cranes)
- Sharks Redevelopment (Woollooware, 3 cranes)
- Surry Hill Village (Redfern, 2 cranes)
- 13 Gibbons Street (Redfern, 2 cranes)

Cranes were added in the suburbs of Bexley, Blakehurst, Campbell town, Carlton, Cronulla, Engadine, Hurstville, Kirrawee, Kogarah, Kogarah Bay, Miranda, Mortdale, and Oran Park.

Cranes were removed in the suburbs of Roselands, Kogarah, Rockdale, Arncliffe, Cronulla, Hurstville, Miranda, Peakhurst, Redfern, and Sutherland.



SYDNEY

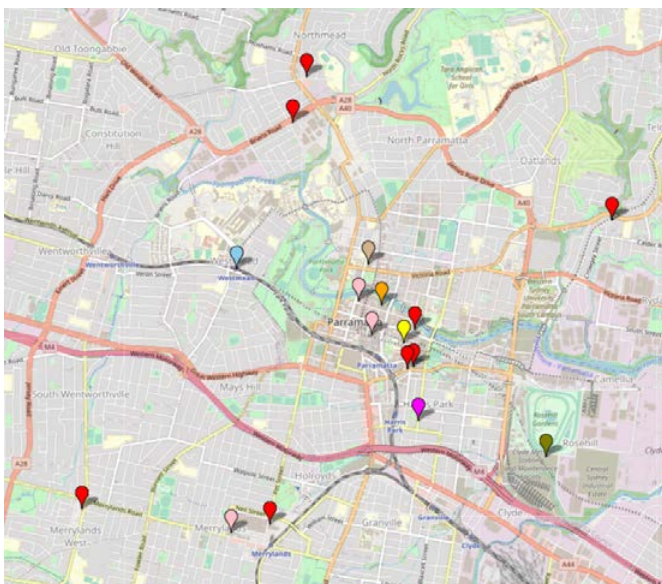
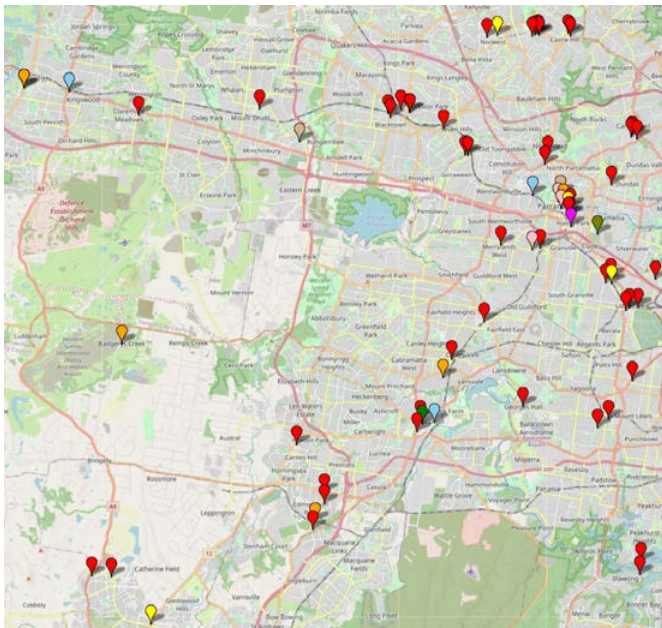
SYDNEY WEST	Q3 2021	Q1 2022	Q3 2022	Q1 2023
AGED CARE	-	-	1	1
CIVIC	5	3	8	11
CIVIL	0	0	0	0
COMMERCIAL	10	10	5	1
DATA C. / IND.	-	-	4	1
EDUCATION	0	0	0	3
HEALTH	3	3	2	3
HOTEL	0	1	1	1
MIXED USE	7	6	6	6
RECREATION	0	0	0	0
RESIDENTIAL	49	48	55	51
RETAIL	0	1	2	2
TOTAL	74	72	84	80

Sydney's west has seen a total of 25 new cranes, and 29 removals; bringing the region's total number of cranes down to 80. Changes were concentrated in the residential and commercial sectors which both saw a net loss of four cranes each. The data centres/ industrial sector saw a net loss of three cranes. Conversely, the education and health sectors both recorded net increases, by three and one crane respectively.

New projects with multiple cranes erected include:

- Powerhouse Parramatta (Parramatta, 3 cranes)
- Edmondson Park Station (2 cranes)
- 1-15 Bartley Street (Canley Vale, 2 cranes)
- 5 Gipps Street (Claremont Meadows, 2 cranes)
- The Opera (Merrylands, 2 cranes)

Cranes remain situated in 32 suburbs across the west. These include: Badgerys Creek, Parramatta, Merrylands, Penrith, Edmondson Park, Blacktown, Box Hill, Canley Vale, Claremont Meadows, Westmead, Mount Druitt, North Kellyville, Schofields, Rouse Hill, Harris Park, Cabramatta, , Rosehill, Rooty Hill, The Ponds, Kingswood, Liverpool, Bankstown, Campsie, Dundas, Georges Hall, Greenacre, Fairfield, Merrylands West, Northmead, Marsden Park, Seven Hills, and Toongabbie.



WOLLONGONG

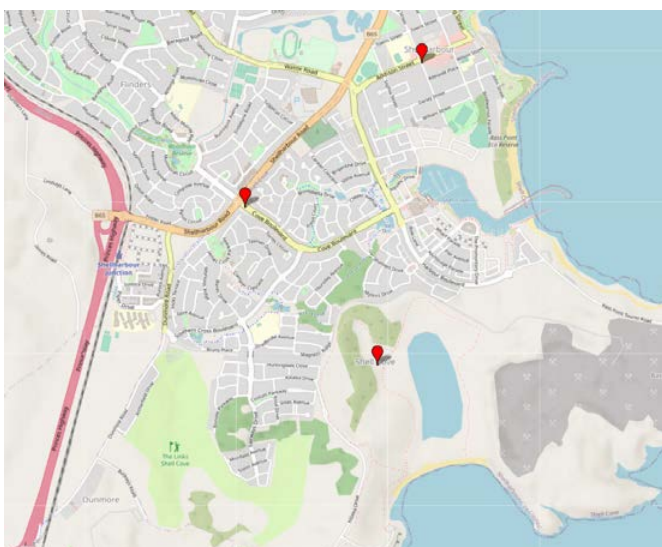
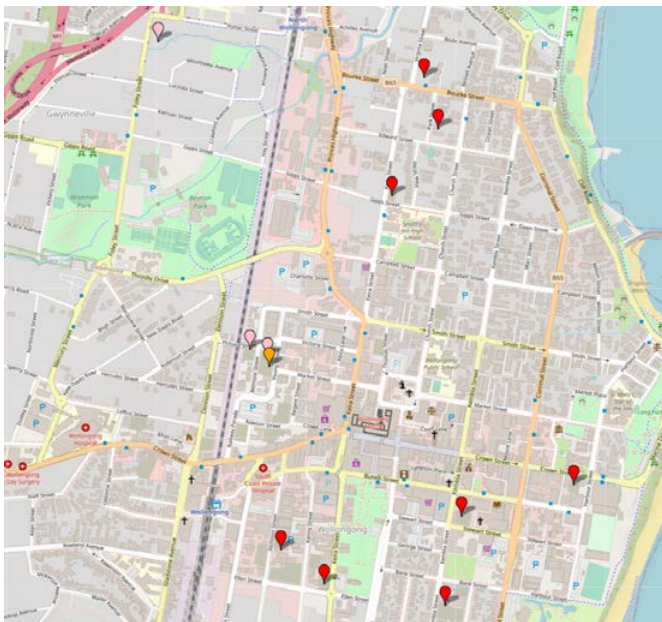
Wollongong's RLB Crane Index® has recorded an increase to 89 index points, up from 83 index points in the previous edition. This represents the region seeing a net increase of one crane, bringing the total to 16.

New and additional cranes were erected on the following projects:

- Novello (Wollongong, now 2 cranes from 1)
- 15-19 Crown Stret (Wollongong)
- 38 Steward Street (Wollongong)
- 42 Bourke street (Wollongong)

Cranes were removed from the following projects

- Elevation 77 (Shellharbour City Centre)
- Midtown (Wollongong)
- 27 Flinders Street (Wollongong)



KEY SECTORS

CIVIC	
MIXED USE	
RESIDENTIAL	

OVERALL STATUS

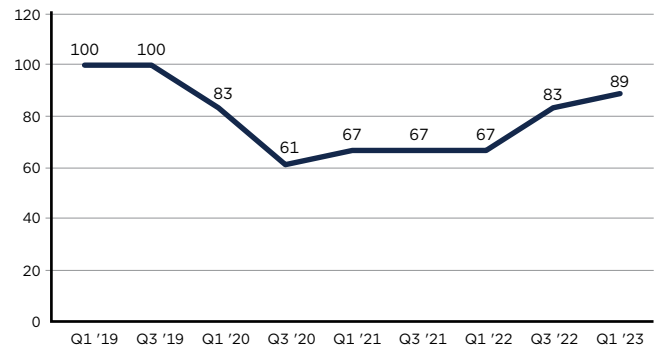


LEGEND

	INCREASE IN NUMBER OF CRANES		DECREASE IN NUMBER OF CRANES		CRANE NUMBERS STEADY
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RLB CRANE INDEX® - WOLLONGONG

BASE: Q3 2019 = 100



CRANE ACTIVITY - WOLLONGONG

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2022	%	+	-	NET	Q1 2023	%
AGED CARE	0	0.0%	0	0	0	0	0.0%
CIVIC	1	6.7%	0	0	0	1	6.3%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	0	0.0%	0	0	0	0	0.0%
DATA CENTRES	0	0.0%	0	0	0	0	0.0%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	0	0.0%	0	0	0	0	0.0%
MIXED USE	4	26.7%	2	-2	0	4	25.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	10	66.7%	2	-1	1	11	68.8%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	15	100.0%	4	-3	1	16	100.0%

ABOUT THE RLB CRANE INDEX®

The RLB Crane Index® is published by Rider Levett Bucknall biannually in Australia, New Zealand, USA, Canada, Gulf States, Hong Kong, Singapore, Indonesia, Vietnam, Malaysia and Myanmar and South Africa. The Australian index tracks the numbers of cranes in the key cities within Australia.

In September 2012, the Rider Levett Bucknall (RLB) Oceania Research & Development and Communication teams created the RLB Crane Index® 'index' as a simple insight into the construction sector's health within Australia. It was based on the theory that cranes in the sky supported the construction industry which is a significant contributor to Australia's economic growth.

The RLB Crane Index® gives a simplified measure of the current state of the construction industry's workload in each of these locations.

Each RLB office physically counts all fixed cranes on each city's skyline twice yearly which provides the base information for the index. This information is then applied to a base date (6th edition Q1 2015), which enables the RLB Crane Index® to be calculated highlighting the relative movement of crane data over time for each city.

The indexing of RLB Crane Index® data commenced in Q3 2013, when it was determined that the data collection and reporting methodology was mature and consistent between all offices. Crane counts for that release were indexed to 100 in each city. The index was recalibrated at Q1 2015, which saw the base index value of 100 established for each city. Subsequent cities which are now included within the index have had their base value of 100 established on their initial entry into the count. Subsequent movements in crane numbers are applied to the base RLB Crane Index® to highlight the crane movements in each city over time based on the relative count in Q1 2015.

Using the RLB Crane Index® table data makes for quick comparisons in determining city by city crane activity. For example, when comparing Sydney cranes for the base period of Q1 2015, against the count in Q1 2018, the following formula can be used to determine the percentage increase (or decrease).

$$\text{PERCENTAGE CHANGE} = \left[\frac{\text{CRANE INDEX}_{\text{cp}} - \text{CRANE INDEX}_{\text{pp}}}{\text{CRANE INDEX}_{\text{pp}}} \right] \times 100$$

where Crane Index_{cp} is the RLB Crane Index_{cp} for the current period and Crane Index_{pp} is the RLB Crane Index® for the previous period.

LOCALITY MAPS

The RLB Crane Index® locality maps offer a pictorial representation of the collected data for each city using a pin locator for the approximate location and sector of the development to where cranes are located.

The pin colour indicates the market sector of the development. The pins are not an indication of the numbers of cranes in that location.

The location of the pins are indicative only and have been positioned to convey the general spread of cranes within a city and to indicate the spread of cranes within market sectors.

Locality maps have been created by RLB at GPSVisualiser.com using Leaflet and map data from OpenStreetMap.org

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