

Q3 2018 RLB CRANE INDEX® HIGHLIGHTS:

- A total of 735 cranes are currently on projects across Australia
- RLB Crane Index® ('index') rose to 173
- The Central Coast region is added to the crane index with 18 cranes
- Non-residential index rose by 7%
- Residential sector index rose by 8%
- Civil sector had the largest increase with 10 cranes
- 437 cranes have been added since the last index and 385 removed from projects completed or nearing completion
- Melbourne and Newcastle hit new record highs
- Adelaide, Brisbane, Canberra, Gold Coast, Melbourne, Newcastle, Perth and Sunshine Coast all recorded increases
- Both Sydney and Hobart crane numbers fell

Q3 2018 RLB CRANE INDEX® SUMMARY

CITIES	KEY SECTORS
ADELAIDE	CIVIC
BRISBANE	CIVIL
CANBERRA	COMMERCIAL
CENTRAL COAST	EDUCATION
DARWIN	HEALTH
GOLD COAST	HOTEL
HOBART	MIXED USE
MELBOURNE	RECREATION
NEWCASTLE	RESIDENTIAL
PERTH	RETAIL
SUNSHINE COAST	
SYDNEY	

LEGEND

- INCREASE IN NUMBER OF CRANES
- DECREASE IN NUMBER OF CRANES
- CRANE NUMBERS STEADY

AUSTRALIA

The 13th edition of the RLB Crane Index® has seen Australia reach a new record high of 173. Nationally, the number of cranes rose 7%, to 735, the highest count.

For the first time, the RLB Crane Index® 'index' includes the Central Coast in New South Wales.

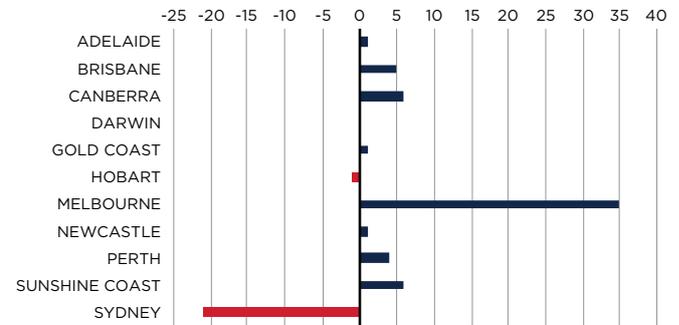
Melbourne and Newcastle saw a strong crane increases, overtaking the record levels reached six months earlier. Sydney continues to decline from the peak reached in Q4 2017, falling 6%.

This edition has seen the residential index pick up from its fall in Q2 2018, increasing 8%, to 170. Additionally, the non-residential index continued its rise, increasing 7%, recording a new high of 180.

Recent construction statistics released by the Australian Bureau of Statistics highlight the ongoing strength of the construction industry. For FY 2018, total construction in Australia reached \$221 billion. Strong increases were seen in the non-residential and engineering construction sectors of 11.1% and 20.7% respectively, while the residential building sector remained constant at \$74 billion.

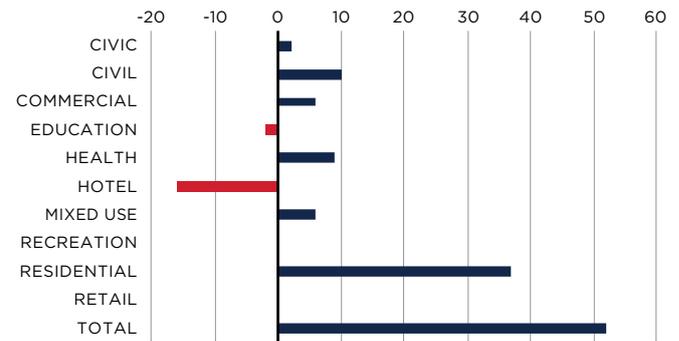
AUSTRALIA NET CRANE MOVEMENT BY CITY

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	
	Q2 2018	%	+	-	NET	Q3 2018	%
ADELAIDE	15	2.2%	6	-5	1	16	2.2%
BRISBANE	67	9.8%	47	-42	5	72	9.8%
CANBERRA	17	2.5%	14	-8	6	23	3.1%
CENTRAL COAST	3	0.4%	16	-1	15	18	2.4%
DARWIN	0	0.0%	0	0	0	0	0.0%
GOLD COAST	23	3.4%	9	-8	1	24	3.3%
HOBART	5	0.7%	0	-1	-1	4	0.5%
MELBOURNE	157	23.0%	125	-90	35	192	26.1%
NEWCASTLE	11	1.6%	3	-2	1	12	1.6%
PERTH	33	4.8%	15	-11	4	37	5.0%
SUNSHINE COAST	10	1.5%	11	-5	6	16	2.2%
SYDNEY	342	50.1%	191	-212	-21	321	43.7%
TOTAL	683	100.0%	437	-385	52	735	100.0%

CRANE ACTIVITY - AUSTRALIA BY SECTOR

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CIVIC	3	0.4%	2	0	2	5	0.7%
CIVIL	15	2.2%	19	-9	10	25	3.4%
COMMERCIAL	54	7.9%	25	-19	6	60	8.2%
EDUCATION	14	2.0%	6	-8	-2	12	1.6%
HEALTH	14	2.0%	14	-5	9	23	3.1%
HOTEL	30	4.4%	7	-23	-16	14	1.9%
MIXED USE	39	5.7%	28	-22	6	45	6.1%
RECREATION	6	0.9%	2	-2	0	6	0.8%
RESIDENTIAL	491	71.9%	327	-290	37	528	71.8%
RETAIL	17	2.5%	7	-7	0	17	2.3%
TOTAL	683	100.0%	437	-385	52	735	100.0%

AUSTRALIA

The civic and civil sectors had the largest increases in crane numbers for this edition, with 67% each. The civil sector saw an increase of ten cranes to 25, driven by increases in Melbourne and Sydney of 13 and three respectively.

With the announcement of numerous infrastructure projects by both Federal and State Governments, the anticipation is for civil cranes to maintain current levels or rise. Melbourne has seen 13 new civil cranes added from a base of zero six months ago and Sydney has seen a rise from eight to 11 cranes.

As work done for apartments continues to rise, with a 2.3% increase for FY 2018, there appears to be a bounce in the residential index from its dip in Q2 2018. Nationally, residential cranes increased for all regions, with the exception of Sydney, lifting the national residential Index by 7%.

Melbourne's crane numbers have seen a jump, increasing by 35 cranes. Driving this rise is the civil sector with the introduction of 13 new cranes. All other sectors remained strong, either maintaining or increasing cranes from the count six months ago.

Since its peak in Q3 2017, Sydney's crane count has been falling, driven by a declining residential sector. The residential crane count has fallen by 55 cranes from its peak in Q4 2017, while the non-residential sector recorded an increase of 26 cranes.

Brisbane has bounced back from its dip in the last edition, driven by a rise in mixed-use projects. While the residential sector remained stable, 11 new cranes were added to the mixed use sector.

RLB CRANE INDEX®

BASE = Q2 2015 = 100



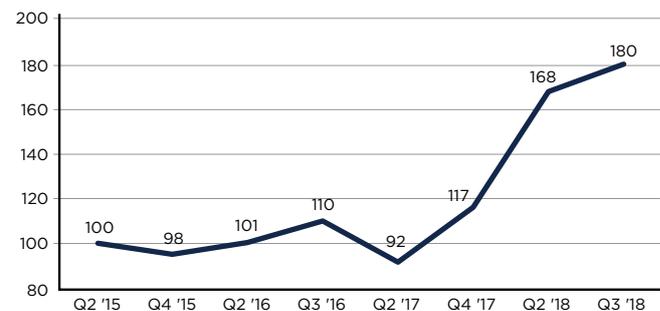
AUSTRALIA RESIDENTIAL CRANE INDEX

BASE = Q2 2015 = 100



AUSTRALIA NON-RESIDENTIAL CRANE INDEX

BASE = Q2 2015 = 100



RLB CRANE INDEX® COMPARATIVE DATA

INDEX: SIXTH EDITION Q2 2015 = 100

	8TH EDITION Q2 '16	9TH EDITION Q3 '16	10TH EDITION Q2 '17	11TH EDITION Q4 '17	12TH EDITION Q2 '18	13TH EDITION Q3 '18	MOVEMENT ED. 12 V 11
ADELAIDE	150	250	250	283	250	267	7%
BRISBANE	142	130	111	116	92	99	7%
CANBERRA	340	480	380	360	340	460	35%
CENTRAL COAST						100	-
DARWIN	50	17	-	-	-	-	-
GOLD COAST	200	227	200	207	153	160	4%
HOBART		100	25	75	125	100	-20%
MELBOURNE	127	116	126	130	136	166	22%
NEWCASTLE	113	113	50	63	138	150	9%
PERTH	109	112	56	58	77	86	12%
SUNSHINE COAST					100	160	60%
SYDNEY	178	188	206	216	211	198	-6%
AUSTRALIA	154	157	154	161	161	173	7%

Note: This table does not represent crane numbers but rather the RLB Crane Index®. Refer to last page for more details of the calculation of the index.

ADELAIDE

Adelaide's crane activity increased to 16 cranes, raising the RLB Crane Index® to 267 for Q3 2018 (13th edition).

Crane numbers between Q2 2018 and Q3 2018 mirrored construction work done in South Australia, with both experiencing rises.

South Australian construction work done, rose for FY 2018 with residential building work up 11.6%, non-residential work up 24.4% and engineering construction up 23.3%.

The residential sector continues to dominate with 75% of all cranes in Adelaide, up from 60% in the previous edition. One crane was removed at Synagogue Place Student Housing and four were added at East End Apartments, the Adelaidian, One on the Park in Parkside and Parkview in Prospect, for an increase of three cranes in the sector.

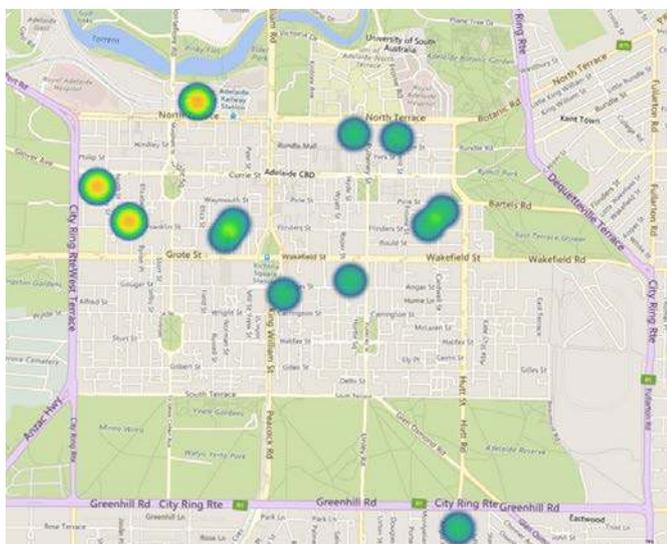
One crane remains on the state's largest private hospital project, the new Calvary Adelaide Hospital in Angas Street. One crane was removed from the Minda Masterplan Stage 2 & 3 project in Brighton, bringing the health sector total to one crane.

The one crane at Adelaide Botanic High School was removed, lowering the education count to zero.

The Airport Hotel project saw the removal of one crane, bringing the hotel sector count back to zero.

Two cranes were erected for the \$330 million SkyCity Casino redevelopment, increasing the mixed-use sector to two.

Crane bases have been prepared, or are in the process of being prepared, for the erection of new cranes that are expected to be seen over the next few months. These projects include Her Majesty's Theatre and 8 South Esplanade in Glenelg.



KEY SECTORS

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® - ADELAIDE

BASE = Q2 2015 = 100



CRANE ACTIVITY - ADELAIDE

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	1	6.7%	0	0	0	1	6.3%
EDUCATION	1	6.7%	0	-1	-1	0	0.0%
HEALTH	3	20.0%	0	-2	-2	1	6.3%
HOTEL	1	6.7%	0	-1	-1	0	0.0%
MIXED USE	0	0.0%	2	0	2	2	12.5%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	9	60.0%	4	-1	3	12	75.0%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	15	100.0%	6	-5	1	16	100.0%

BRISBANE

The RLB Crane Index® rose 7%, to 99. A total of 42 cranes were removed from sites, while 47 cranes were erected, showing a total of 72 cranes around Brisbane.

This increase in crane numbers was reflected in the rise in construction work done for FY 2018. Work done in Queensland increased 2.6% in FY 2018. The engineering and non-residential construction sectors were the main drivers, up 8.8% and 7.6% respectively. Offsetting these increases, the residential sector saw a decline of 8.2%.

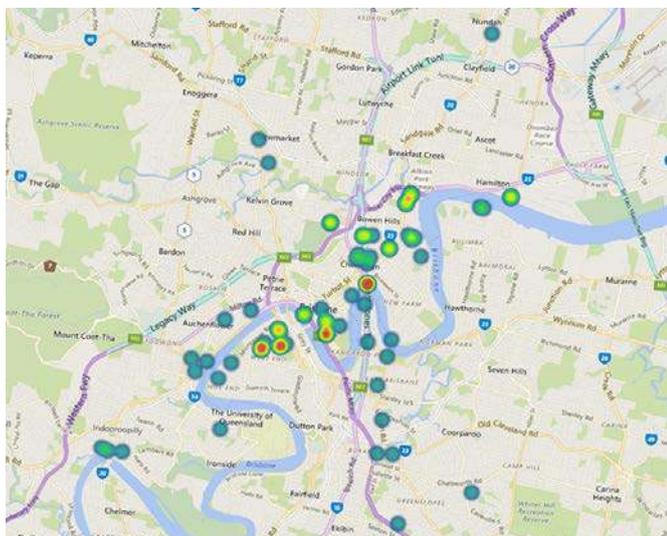
Within Brisbane, the residential sector continued to be the most dominant sector, with 45 cranes.

The mixed-use sector had the greatest increase in crane numbers with 13 new cranes.

This increase coincided with the commencement of the Howard Smith Wharves development (four cranes), Queens Wharf (three cranes), Portside Wharf in Hamilton, and 949 Ann Street, in the Valley (two cranes each) and Lincoln Street, Stones Corner with one crane. At Brisbane Quarter in George Street, two cranes remain on site. Two cranes were removed from mixed-use projects in Greenslopes and Woolloongabba.

A total of 29 cranes commenced on residential projects. These developments include: Elizabeth Arcade Student Accommodation, The Boatyard in Bulimba, Omega and Coterie in the Valley, Lume in Kangaroo Valley, Icon in Milton, Lucent Gasworks in Newstead, White Dawn in Toowong, Saccharo in St Lucia, Citro in West End, Vista in Indooroopilly and Ivie in Greenslopes.

In addition, two cranes were added to the Skyneedle development in South Brisbane and one crane was added to West Village in West End, bringing their total crane counts to three each.



KEY SECTORS

CIVIL	↑
COMMERCIAL	↓
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® - BRISBANE

BASE = Q2 2015 = 100



CRANE ACTIVITY - BRISBANE

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	7	10.4%	1	-7	-6	1	1.4%
COMMERCIAL	0	0.0%	1	0	1	1	1.4%
EDUCATION	1	1.5%	0	-1	-1	0	0.0%
HEALTH	2	3.0%	2	-2	0	2	2.8%
HOTEL	3	4.5%	0	-3	-3	0	0.0%
MIXED USE	5	7.5%	13	-2	11	16	22.2%
RECREATION	2	3.0%	1	0	1	3	4.2%
RESIDENTIAL	43	64.2%	29	-27	2	45	62.5%
RETAIL	4	6.0%	0	0	0	4	5.6%
TOTAL	67	100.0%	47	-42	5	72	100.0%

BRISBANE

Twenty-seven cranes were removed from residential sites across the city since our last edition. Brisbane saw a decline of six cranes within the civil sector. Seven cranes were removed from the \$650 million Kingsford Smith Drive widening project, offset by one crane erected at King George Square in Ann Street.

Small crane increases were seen in the commercial and recreation sectors and the health sector remained constant at two cranes. In contrast, the education and hotel sectors saw declines of one and three cranes respectively.

Across Brisbane, there appears to have been a movement of cranes from the North and South towards the CBD. CBD increases were mainly driven by new large projects, such as Howard Smith Wharves and Queens Wharf, which contributed an additional seven cranes to the city skyline.

CRANE ACTIVITY - BRISBANE REGIONS

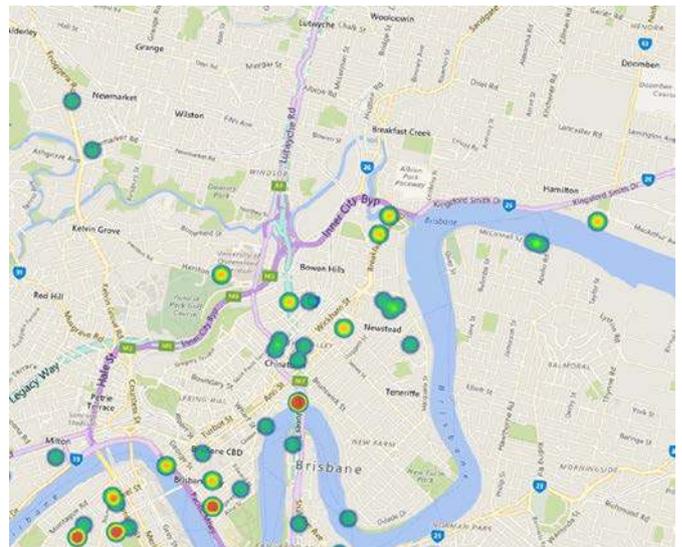
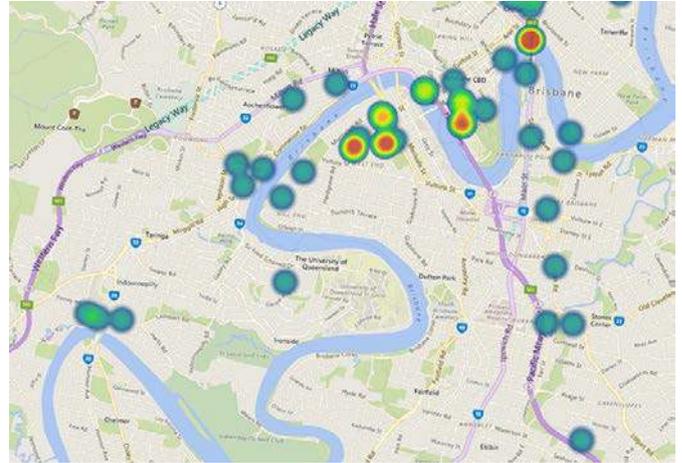
	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CBD & SURROUNDS	34	50.7%	26	-17	9	43	59.7%
EAST	0	0.0%	2	0	2	2	2.8%
NORTH	19	28.4%	10	-13	-3	16	22.2%
SOUTH	6	9.0%	2	-6	-4	2	2.8%
WEST	8	11.9%	7	-6	1	9	12.5%
TOTAL	67	100.0%	47	-42	5	72	100.0%

The east increased their crane numbers with two new cranes erected. These cranes were associated with a mixed-use project in Stones Corner and a residential project on Logan Road, Greenslopes.

The decrease in the north, was mainly driven by the removal of all seven cranes from the Kingsford Smith Drive Upgrade.

Completed residential projects saw crane numbers fall in the south. Two new residential cranes were erected at the Ivie in Greenslopes and at the Beresford Village in Coorparoo, while six cranes were removed across the south. Four residential cranes were removed in Greenslopes and Coorparoo, together with one crane from the Greenslopes Private hospital and one from the mixed-use Cornerstone development.

The west had minimal changes in crane numbers, indicating continuing activity. Seven new cranes were erected for residential projects and five were removed from developments nearing completion. One crane was removed from the Westside Private Hospital project in Taringa.



CANBERRA

Canberra's RLB Crane Index® rose 35%, to 460, after declining for the past three editions. Total cranes now number 23, with eight cranes removed from sites and 14 cranes added since our last publication.

Construction work done in the Australian Capital Territory continued to grow, with FY 2018 recording the highest value in the last six financial years. Non-residential work was the main driver with a 21.1% increase. ACT's rise in work done is now observable within the index, with an increase of six cranes.

Twelve new residential cranes commenced on projects around Canberra. These developments include: Midnight and Tamaroshi in Braddon, The Capitol in Acton, Iskia in Campbell, Constitution Place in the CBD, Ruby and The Valley Way in Gungahlin, Nest in Lawson, Banskii in Macquarie and Ivy in Phillip. One crane was added to Founders Lane in Braddon, raising the project count to two, while one crane was removed from both the ANU Student Accommodation project in Acton and Campbell 5 project in Campbell, bringing both projects counts to one.

The education sector stayed constant, with two cranes remaining on site for ANU Union Court in Acton.

The commercial sector saw the erection of one crane at Civic Quarter Canberra in Braddon.

Movements within the mixed-use sector saw one crane removed from ACT Supreme Court in Civic and one crane erected at National Capital Hospital, leaving the overall sector count stable at one.

KEY SECTORS

COMMERCIAL	
EDUCATION	
MIXED USE	
RESIDENTIAL	

OVERALL STATUS

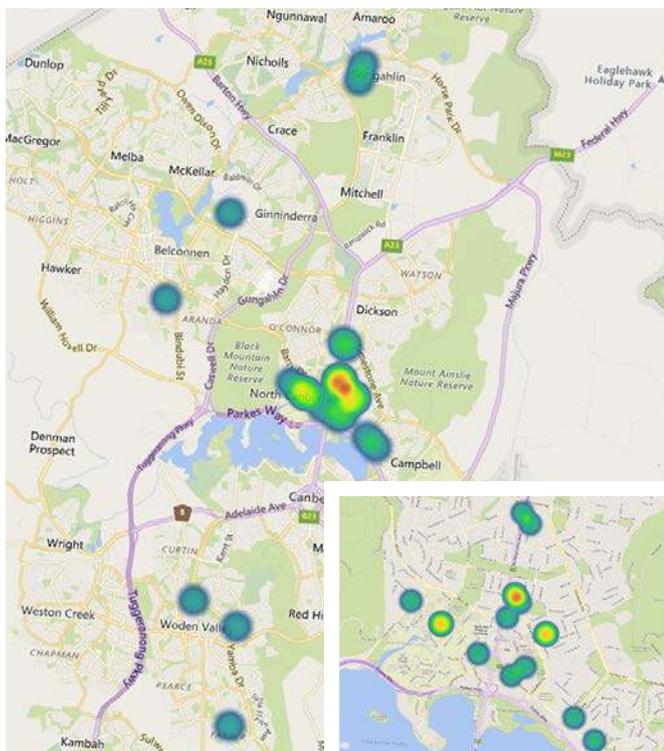
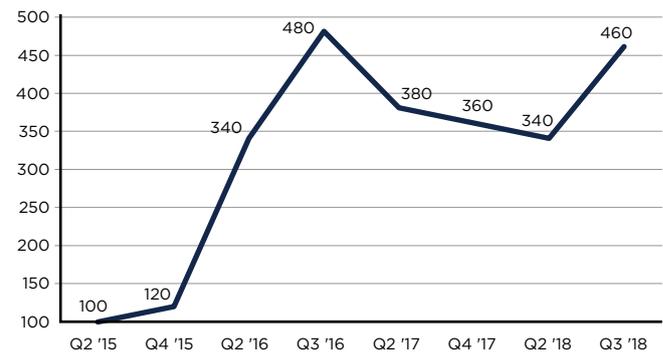


LEGEND

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

BASE = Q2 2015 = 100



CRANE ACTIVITY - CANBERRA

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
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	4.3%
EDUCATION	2	11.8%	0	0	0	2	8.7%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	0	0.0%	0	0	0	0	0.0%
MIXED USE	1	5.9%	1	-1	0	1	4.3%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	14	82.4%	12	-7	5	19	82.6%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	17	100.0%	14	-8	6	23	100.0%

CENTRAL COAST

In its inaugural entry to the RLB Crane Index®, the Central Coast sees 18 cranes within the region.

The Central Coast representing the region around Gosford and Terrigal, between Sydney and Newcastle, was previously included within the Sydney crane count. As the region is becoming a key growth area within New South Wales, it was determined to analyse the crane movements independently from Sydney. Three cranes that were included in the last Sydney count have been included within the inaugural Central Coast Index for this publication.

Residential projects dominated the skyline of the Central Coast with 89% of total Central Coast cranes.

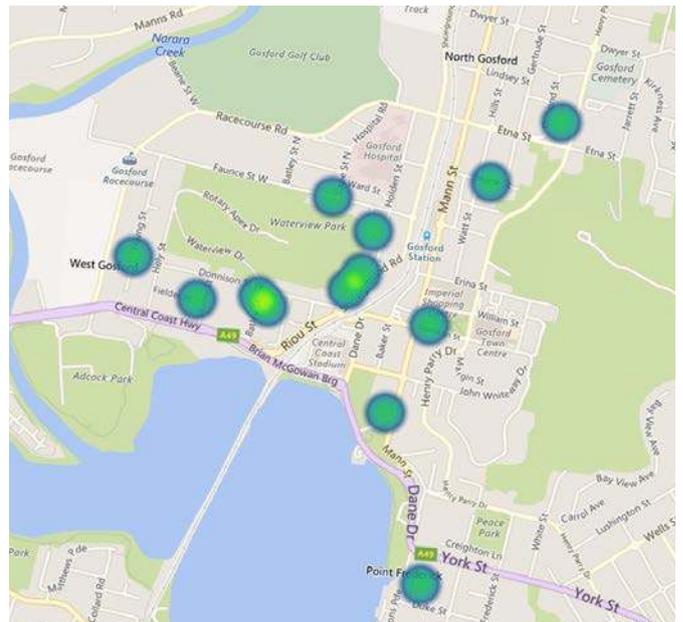
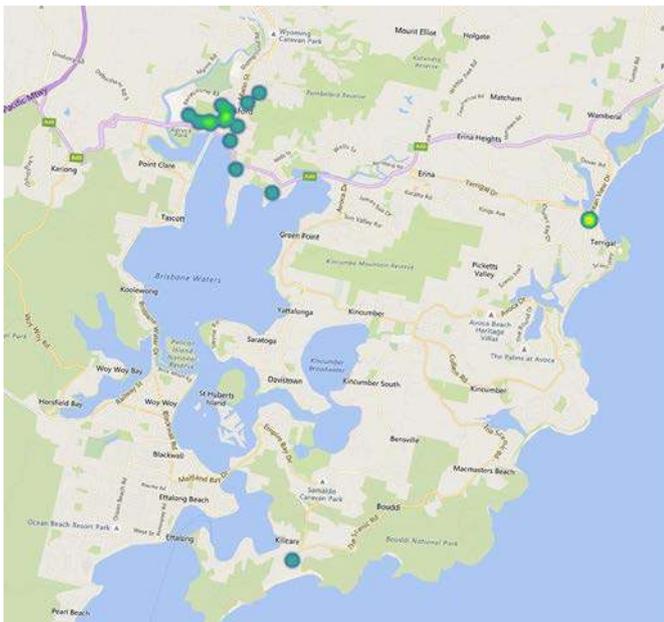
In Gosford 13 cranes were seen on residential projects at: Lynne Avenue, Mann Street, Faunce Street West, Hargraves Street, Kendall Street (2), Donnison Street West, Batley Street, Wilhelmina Street, George Street, Fielders Lane, Beane Street and Ormond Street.

Two cranes were erected at Terrigal Drive in Terrigal and one crane was erected at Anthony Crescent in Killcare.

One crane remained on site for the commercial project at Mann Street, and one crane was erected for the health project at Railway Parade.

CRANE ACTIVITY - CENTRAL COAST

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	1	33.3%	0	0	0	1	5.6%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	0	0.0%	1	0	1	1	5.6%
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	2	66.7%	15	-1	14	16	88.9%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	3	100.0%	16	-1	15	18	100.0%



DARWIN

For the fourth consecutive edition, there are no cranes installed on developments in Darwin's CBD and environs at the moment.

Northern Territory's construction work done decreased for its third consecutive financial year. Residential work done fell 8.7%, non-residential work fell 16.6% and engineering work fell 1.9% for FY 2018.

OVERALL STATUS



LEGEND



INCREASE
IN NUMBER
OF CRANES



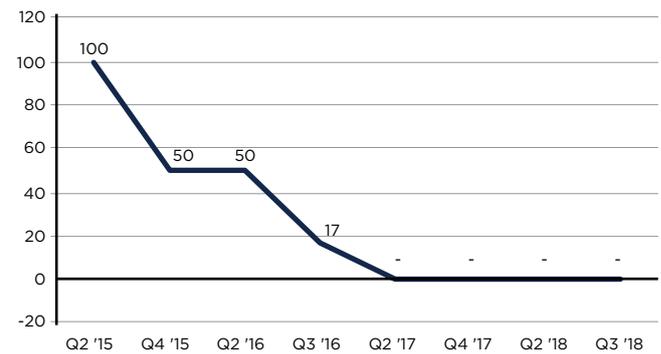
DECREASE
IN NUMBER
OF CRANES



CRANE
NUMBERS
STEADY

RLB CRANE INDEX® - DARWIN

BASE = Q2 2015 = 100



CRANE ACTIVITY - DARWIN

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
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%
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%	0	0	0	0	0.0%
RETAIL	0	0.0%	0	0	0	0	0.0%
TOTAL	0	0.0%	0	0	0	0	0.0%

GOLD COAST

The Gold Coast RLB Crane Index® is recovering from the post Commonwealth Games boost, rising to a value of 160. A total of 24 cranes now dot the skyline, with eight cranes removed and nine cranes added since our last count.

The residential sector continues to dominate the skyline accounting for 96% of all Gold Coast cranes. New residential cranes were added at John Francis Drive in Carrara, Jefferson in Palm Beach, Bay Grand Apartments in Tweed Heads, Miami Apartments in Miami, Otto in Mermaid Beach, Peninsular Residences and La Riviere on Cannes in Surfers Paradise, and Meron Street in Southport.

One crane was removed from the Jewel Residences in Surfers Paradise, bringing the project crane count to four.

Cranes that were removed from residential projects included: Boardwalk in Burleigh Heads, Arvia in Coolangatta, Miami Ice and Miami One in Miami, IVY 95 in Broadbeach and Elysium in Mermaid Beach.

One crane was erected for the Japara Care Home in Robina, increasing the mixed-use sector count to one.

The Westfield Coomera project saw the removal of one retail crane.

KEY SECTORS

- MIXED USE
- RESIDENTIAL
- RETAIL

OVERALL STATUS

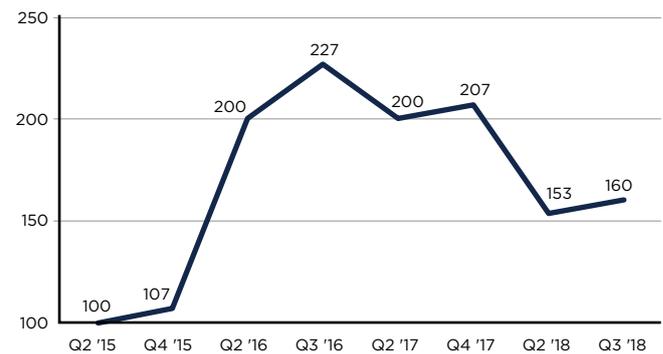


LEGEND

- INCREASE IN NUMBER OF CRANES
- DECREASE IN NUMBER OF CRANES
- CRANE NUMBERS STEADY

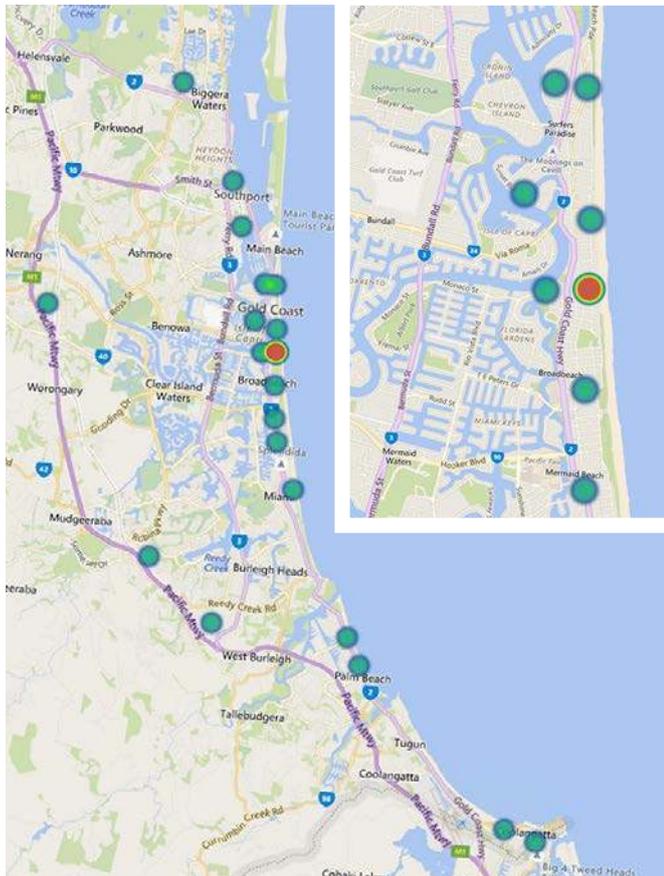
RLB CRANE INDEX® - GOLD COAST

BASE = Q2 2015 = 100



CRANE ACTIVITY - GOLD COAST

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
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%
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%	1	0	1	1	4.2%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	22	95.7%	8	-7	1	23	95.8%
RETAIL	1	4.3%	0	-1	-1	0	0.0%
TOTAL	23	100.0%	9	-8	1	24	100.0%



HOBART

Hobart's fifth RLB Crane Index® has fallen 20%, to 100.

There were no cranes added to sites, however one crane was removed from the Myer redevelopment in Murray Street.

Tasmania's construction work done for FY 2018 saw a slight decline of 2.4% from FY 2017. While residential work rose 14.2%, with increases in both new houses and apartments, non-residential work and engineering work fell 11.2% and 6.7% respectively.

Within the health sector, two cranes remained on site for the Hobart Hospital.

Parliament Square and Hobart Academy of Performing Arts projects both had one crane on site.

KEY SECTORS

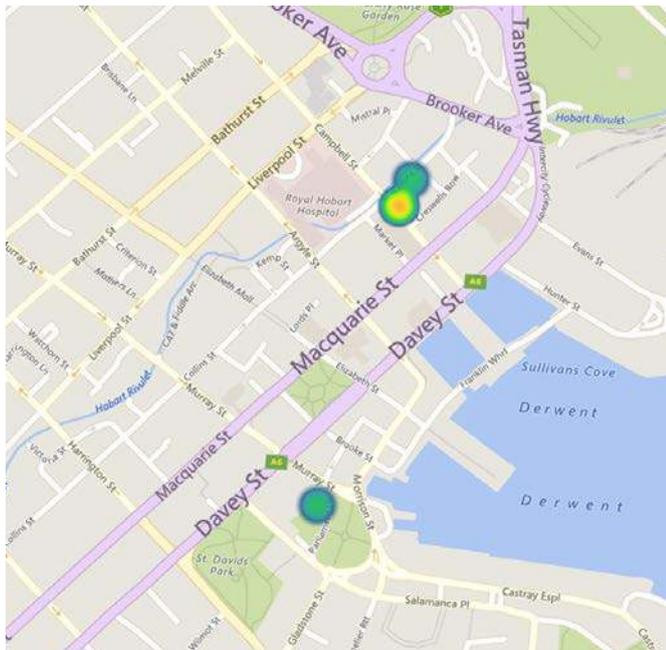
CIVIC	
HEALTH	
MIXED USE	
RETAIL	

OVERALL STATUS



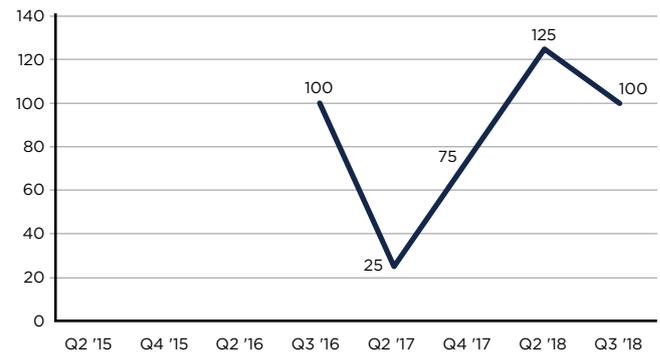
LEGEND

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

BASE = Q3 2016 = 100



CRANE ACTIVITY - HOBART

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CIVIC	1	20.0%	0	0	0	1	25.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	0	0.0%	0	0	0	0	0.0%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	2	40.0%	0	0	0	2	50.0%
HOTEL	0	0.0%	0	0	0	0	0.0%
MIXED USE	1	20.0%	0	0	0	1	25.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	0	0.0%	0	0	0	0	0.0%
RETAIL	1	20.0%	0	-1	-1	0	0.0%
TOTAL	5	100.0%	0	-1	-1	4	100.0%

MELBOURNE

Melbourne's RLB Crane Index® reached a record high for this edition, rising 22%. Melbourne's crane count is up 35, bringing the total number of cranes observed to 192. 125 cranes were added and 90 were removed in the past six months.

This rise in crane numbers mirrors the current strength of the industry. Construction work done was up 14.1% for FY 2018 with all sectors recording increases. Residential building work was up 2.5%, non-residential work was up 19.6% and engineering construction was up 30.9%.

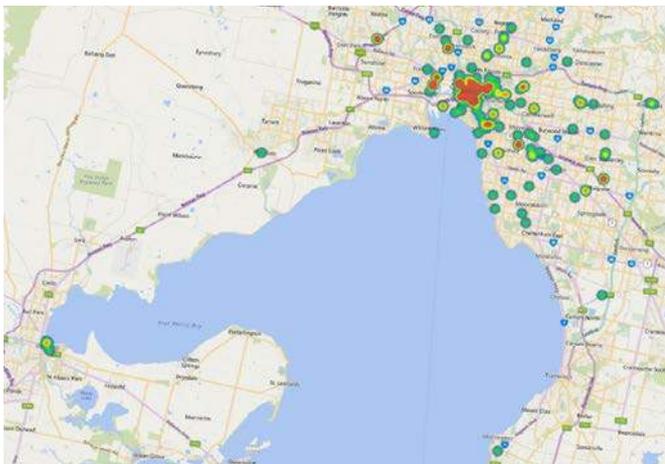
This surge in crane numbers has been a direct result of significant investment by the government in road and rail infrastructure. Thirteen new cranes were added to civil projects around Melbourne, these include: the Melbourne Metro Tunnel works in West Melbourne (6) and Melbourne CBD (1), the West Gate Tunnel Project in Footscray (5) and Patterson River Crossing in Patterson River (1).

The residential sector saw an increase of seven cranes, with a total of 124 cranes, across 78 suburbs.

The commercial sector saw an increase of three cranes, totaling 23. Additional cranes were added to Wesley Place in Melbourne and Melbourne Square in Southbank, bringing their totals to three, while new cranes were erected at: Botanicka 3 in Burnley, Collins House Melbourne, 276 Flinders Street and 405 Bourke Street in Melbourne and SugarHill Business Park in Yarraville.

Most sectors within Victoria had increases in cranes, with the exception of education and recreation which were unchanged.

Across Melbourne, the CBD and surrounds have 82 (43%) cranes, eastern suburbs 33 (17%), Geelong 4 (2%), the north 24 (13%), the south 34 (18%) and west 15 (8%).



KEY SECTORS

CIVIC	↑
CIVIL	↑
COMMERCIAL	↑
EDUCATION	↑
HEALTH	↑
HOTEL	↑
MIXED USE	↑
RESIDENTIAL	↑
RETAIL	↑

OVERALL STATUS

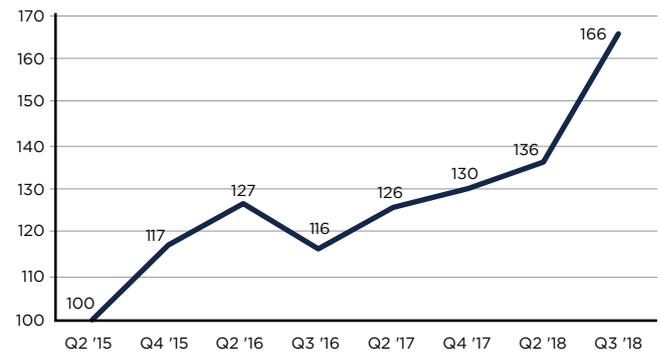


LEGEND

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

BASE = Q2 2015 = 100



CRANE ACTIVITY - MELBOURNE

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CIVIC	1	0.6%	1	0	1	2	1.0%
CIVIL	0	0.0%	13	0	13	13	6.8%
COMMERCIAL	20	12.7%	8	-5	3	23	12.0%
EDUCATION	2	1.3%	2	-2	0	2	1.0%
HEALTH	2	1.3%	7	0	7	9	4.7%
HOTEL	2	1.3%	4	-1	3	5	2.6%
MIXED USE	12	7.6%	6	-6	0	12	6.3%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	117	74.5%	82	-75	7	124	64.6%
RETAIL	1	0.6%	2	-1	1	2	1.0%
TOTAL	157	100.0%	125	-90	35	192	100.0%

CRANE ACTIVITY - MELBOURNE REGIONS

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CBD & SURROUNDS	56	35.7%	44	-18	26	82	42.7%
EAST	31	19.7%	26	-24	2	33	17.2%
GEELONG	2	1.3%	3	-1	2	4	2.1%
NORTH	41	26.1%	12	-29	-17	24	12.5%
SOUTH	17	10.8%	28	-11	17	34	17.7%
WEST	10	6.4%	12	-7	5	15	7.8%
TOTAL	157	100.0%	125	-90	35	192	100.0%

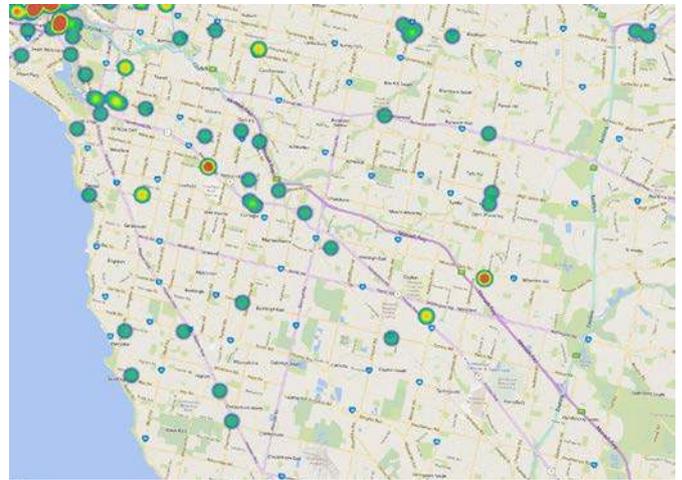
MELBOURNE

Since the last edition, there have been movements of cranes away from the north and towards the south, while the CBD and surrounds increased by 26 cranes. Residential cranes were the main driver of the shift, with the north decreasing by 13 residential cranes while the south increased by 15 highlighting the number of projects completed in the north and new projects commencing in the south.

The CBD saw 44 cranes erected and 18 removed. The residential sector increased by ten cranes followed by the civil sector with seven cranes. The CBD civil crane count increased from zero to seven, all attributed to the Melbourne Metro Tunnel works in West Melbourne and Melbourne CBD.

Within the CBD residential sector, three additional cranes were added to Melbourne Quarter in Docklands and one additional crane was added to Aurora in Melbourne. Premier Tower, Union Tower, Melbourne Grand and 380 Melbourne in the CBD and Melbourne Village, in West Melbourne each saw the addition of two residential cranes.

The east saw their crane levels increase by two, to 33. The health sector saw the largest increase in cranes, with three new cranes erected at the former Brandon Park Secondary School in Wheelers Hill for a retirement village and one crane at both Cabrini Hospital in Malvern and the Melbourne Clinic extension in Richmond. One new crane was sighted at Deakin University Exercise and Sports Science Building in Burwood. New cranes were erected at Quest Burwood and the new Chadstone Hotel, increasing the hotel count to two.

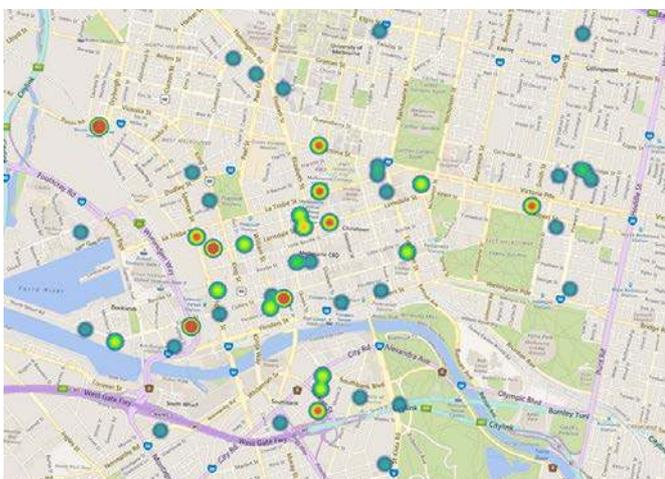


Geelong's crane count saw a rise from two to four, driven by an increase in residential cranes, with the addition of one crane at Miramar and one at G1 Apartments. One new crane was erected within the civic sector, at GPAC. One crane was removed from Worksafe, while one remained on site for NDIA HQ, lowering the commercial count to one.

The north saw the completion of several residential projects, resulting in a fall in residential cranes of 13 and driving the overall crane count in the north down by 17. The fall in residential cranes was driven by the removal of four cranes from Mason SQ in Moonee Ponds and two cranes from Arden Gardens in North Melbourne, Albert Street in Brunswick, and Infinity Student Housing in Carlton.

The south's crane count doubled, totalling 34. New residential cranes drove the increase with 24 erected and nine removed. New residential cranes were sighted at Caulfield Village Precinct in Caulfield (3), The Mark in Elsternwick (2) and PM Port Melbourne (2). Two cranes were erected at M-City in Clayton. One crane was added to Patterson River Crossing in Patterson River, as part of the government's level crossing removal initiative, increasing the civil count to one.

The west saw a 50% increase in cranes, driven by five new cranes in the civil sector, increasing the overall count to 15. Five cranes were erected for the West Gate Tunnel project in Footscray. The commercial and health sectors saw increases with one new crane at SugarHill Business Park in Yarraville and one additional crane at Joan Kirner Hospital in St Albans. The residential sector saw six cranes removed from projects, which included: Victoria Square and The Hugo in Footscray, Summus and Marque in Maribyrnong, The Mill in Newport and Frankie in Yarraville.



NEWCASTLE

Newcastle's Index reached a new peak with a value of 150. Twelve cranes now highlight the skyline around Newcastle, up from eleven, six months earlier.

Three cranes were installed and two were removed.

Residential cranes represent 67% of all cranes. Two cranes remain at Verve apartments and single cranes remain at Herald Apartments, Parque Apartments, Westend and Cascades Senior Living.

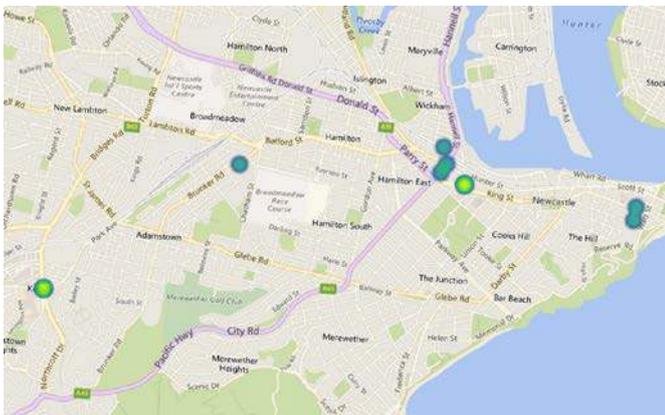
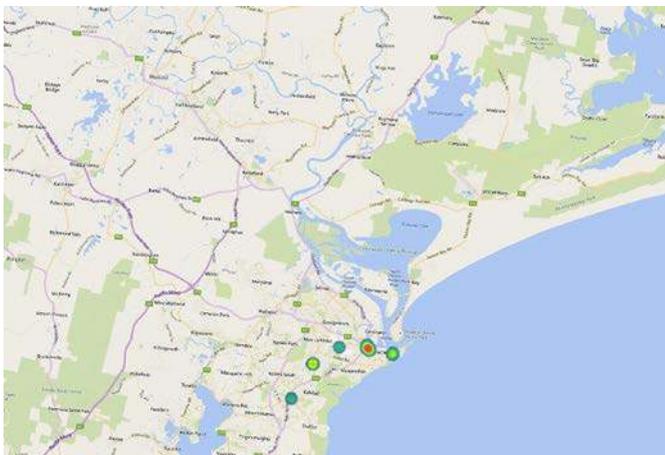
Two new residential cranes were recorded at Centrale Apartments and Highpoint Apartments.

The retail sector saw a decline, with the removal of the single crane at Stockland, while two cranes remain at Westfield Kotara.

The hotel sector saw one crane removed at Holiday Inn Express.

One crane was erected for RSL Lifecare within the health sector.

The commercial sector was unchanged, with one crane remaining at Stewart Avenue.



KEY SECTORS

COMMERCIAL	
HEALTH	
HOTEL	
RESIDENTIAL	
RETAIL	

OVERALL STATUS

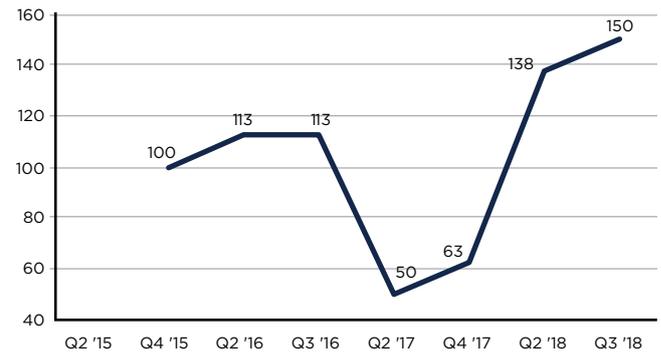


LEGEND

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

BASE = Q4 2015 = 100



CRANE ACTIVITY - NEWCASTLE

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	1	9.1%	0	0	0	1	8.3%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	0	0.0%	1	0	1	1	8.3%
HOTEL	1	9.1%	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	6	54.5%	2	0	2	8	66.7%
RETAIL	3	27.3%	0	-1	-1	2	16.7%
TOTAL	11	100.0%	3	-2	1	12	100.0%

PERTH

Perth's RLB Crane Index® continues to rise, increasing 12%, to 86. 37 cranes now dot the Perth skyline, up from 33 in the previous edition.

Construction work done results for FY 2018 mirror the positive movement of Perth's crane index. After a dip in FY 2017, Western Australian construction work done bounced back in FY 2018, up 17.8%. Engineering work and non-residential building work were up 28.2% and 2.1% respectively, while residential building work dropped 8.8%.

Cranes within the residential sector are continuing to rise, now totalling 26 or 70% of total Perth cranes. Three cranes remain at NV Apartments in the CBD, while two new cranes were added to both Botanical Apartments in Subiaco and Precinct on Canning in Mount Pleasant.

One crane was removed from Cirque in Mount Pleasant, with one crane remaining.

New residential cranes were sighted at Risley Street in Booragoon, 9 Tully and Skye One Seven in East Perth, Stirling Street in Perth, Azure in Rockingham and Victoria Quarter in Victoria Park.

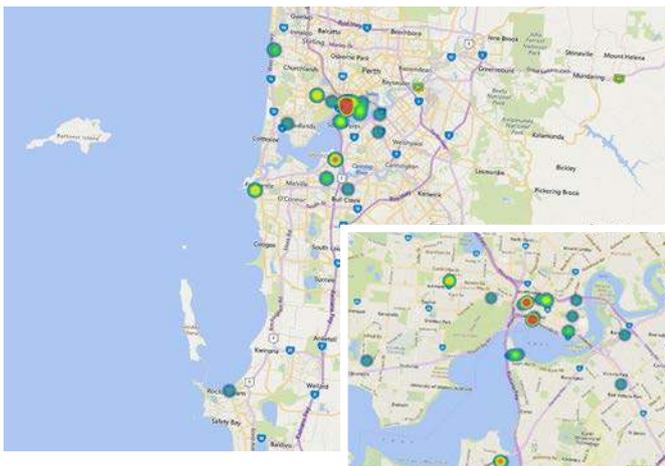
Cranes at Primewest in Joondalup and Regis Nedlands Village in Nedlands were removed, lowering the commercial and health sector counts to zero.

The hotel sector saw a decline of one crane, falling to four. Cranes were removed from the Quest in Midland, QT Hotel in Perth and Double Tree Hilton in Northbridge, while one crane was erected for both the Mantra Hotel in Perth and Ibis Styles Hotel in East Perth.

Four cranes remained on site at Elizabeth Quays in Perth, while one crane was removed at Queen Victoria Street in Fremantle, lowering the mixed-use count to four.

Two cranes were erected for Kings Square in Fremantle, lifting the retail count to two.

One crane remains at the Museum in Northbridge keeping the civic crane count at one.



KEY SECTORS

CIVIC	
COMMERCIAL	
HEALTH	
HOTEL	
MIXED USE	
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® - PERTH

BASE = Q2 2015 = 100



CRANE ACTIVITY - PERTH

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CIVIC	1	3.0%	0	0	0	1	2.7%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	1	3.0%	0	-1	-1	0	0.0%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	1	3.0%	0	-1	-1	0	0.0%
HOTEL	5	15.2%	2	-3	-1	4	10.8%
MIXED USE	5	15.2%	0	-1	-1	4	10.8%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	20	60.6%	11	-5	6	26	70.3%
RETAIL	0	0.0%	2	0	2	2	5.4%
TOTAL	33	100.0%	15	-11	4	37	100.0%

SUNSHINE COAST

After making their debut in the previous edition, the Sunshine Coast RLB Crane Index® has increased 60% to 160. Eleven cranes were erected, with five removed, increasing the count across the region to 16.

Residential cranes now account for 75% of total Sunshine Coast cranes. One crane was added to the Cosmopolitan in Cotton Tree, increasing the project crane count to two. New cranes were erected at Lang Court and Drift in Coolum, The Avenue and Alpha / New Haven in Maroochydore, 116 Alex in Alexandra Headland, Allure in Mooloolaba, The Hedge in Kawana and Solis in Kings Beach.

The mixed-use sector saw the addition of one crane for the Sports Hub in Birtinya.

The retail sector remained constant at three. Sunshine Plaza in Maroochydore saw the removal of one crane, lowering the project count to two, while one crane was erected for Kawana Shopping World in Kawana.

KEY SECTORS

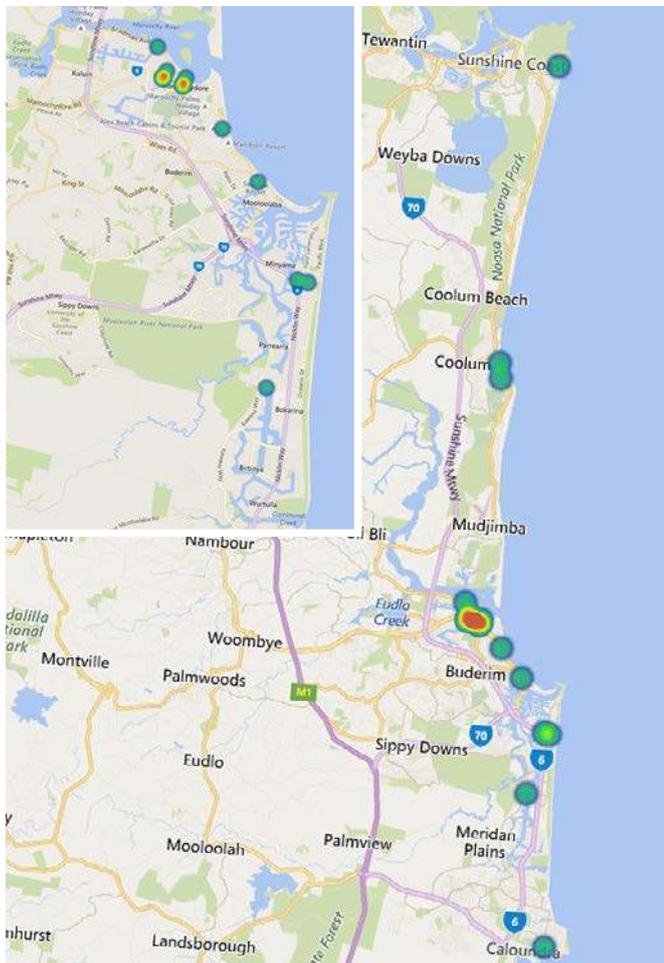
MIXED USE	
RESIDENTIAL	
RETAIL	

OVERALL STATUS



LEGEND

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

BASE = Q2 2018 = 100



CRANE ACTIVITY - SUNSHINE COAST

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
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%
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%	1	0	1	1	6.3%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	7	70.0%	9	-4	5	12	75.0%
RETAIL	3	30.0%	1	-1	0	3	18.8%
TOTAL	10	100.0%	11	-5	6	16	100.0%

SYDNEY

The Sydney RLB Crane Index® saw another decline from its historically high levels recorded in Q4 2017, to 198. While Sydney saw a fall, overall cranes in New South Wales remain stable, with a total of 351 cranes counted for Sydney, Newcastle and Central Coast down from a combined 356 previously.

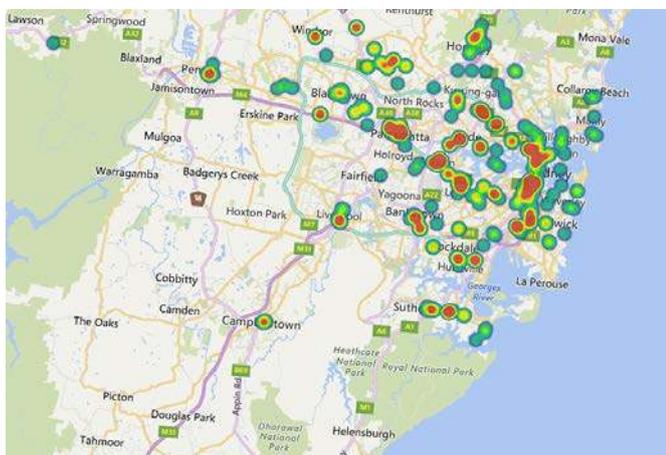
New South Wales' construction work done continues to thrive for FY 2018, growing 13.0% and reaching the highest value in the last ten years. Residential work was up 5.2%, with apartments rising 10.5%. Non-residential and engineering work also rose with 9.0% and 25.4% respectively.

Sydney's count fell by 21 cranes. The Sydney skyline now counts 321 cranes, down from 342 in our previous edition. 191 cranes were erected and 212 were removed for projects completed or nearing completion.

The civil sector saw the largest increase in cranes, up three, to 11. Four civil cranes remained on site in Ashfield and Kingsgrove for the WestConnex project and two cranes remained in Bella Vista for the Sydney Metro Station. Two cranes were removed, one from the Cherrybrook Station project and one from M5 works in St Peters.

New civil cranes were erected at Balmoral Wharf refurbishment, Victoria Cross Station in North Sydney, Martin Place Station in Sydney, NorthConnex in West Pennant Hills and on Pendle Way in Pendle Hill.

The residential sector accounts for 76% of all cranes installed in Sydney and 47% of the national residential crane count. 243 residential cranes in 96 suburbs across Sydney were counted in this edition.



KEY SECTORS

CIVIC	↓
CIVIL	↓
COMMERCIAL	↓
EDUCATION	↓
HEALTH	↓
HOTEL	↑
MIXED USE	↑
RECREATION	↑
RESIDENTIAL	↑
RETAIL	↓

OVERALL STATUS

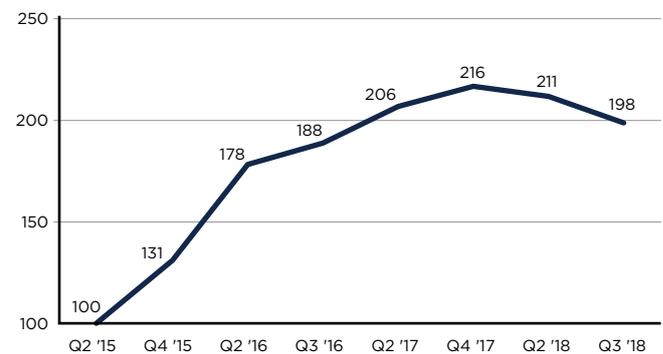


LEGEND

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

BASE = Q2 2015 = 100



CRANE ACTIVITY - SYDNEY

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CIVIC	0	0.0%	1	0	1	1	0.3%
CIVIL	8	2.3%	5	-2	3	11	3.4%
COMMERCIAL	30	8.8%	15	-13	2	32	10.0%
EDUCATION	8	2.3%	4	-4	0	8	2.5%
HEALTH	4	1.2%	3	0	3	7	2.2%
HOTEL	18	5.3%	1	-14	-13	5	1.6%
MIXED USE	15	4.4%	4	-12	-8	7	2.2%
RECREATION	4	1.2%	1	-2	-1	3	0.9%
RESIDENTIAL	251	73.4%	155	-163	-8	243	75.7%
RETAIL	4	1.2%	2	-2	0	4	1.2%
TOTAL	342	100.0%	191	-212	-21	321	100.0%

SYDNEY

Three additional residential cranes were added to Spectrum in Mascot and one to Delhi Road in Ryde, increasing both project counts to four. Four new cranes were sighted at Ovation Quarter in Homebush and three new cranes were added to Lachlan's Line in Macquarie Park, The Retreat in Homebush, Weylond Street in Punchbowl and The Boulevard in Rouse Hill.

The commercial sector saw a rise of two cranes. Four cranes were added to Barangaroo in Sydney, bringing the project count to five and two cranes were added to AirTrunk Sydney Data Centre in Huntingwood. All six cranes at the Mirvac Tech Park development in Eveleigh were removed and the one crane at the BMW/Mini showroom in Rushcutters Bay was removed.

Cranes for the education sector were erected at Parramatta Public School (3) and Redlands School in Cremorne (1). Four cranes were removed from Sydney University's projects in Camperdown and Darlington, Knox Grammer School in Wahroonga and MLC School in Burwood.

Three mixed-use cranes were removed from the Lighthouse in Dee Why, lowering the project count to one and six cranes were removed from Darling Square, bringing the total mixed use count to seven.

Retail cranes were erected at Parramatta Square in Parramatta and Rosenthal Project in Lane Cove, while cranes were removed from Momento in Canterbury and Condamine Street in Manly Vale, maintaining the overall count at four.

The hotel sector saw the largest decline with a decrease of 13 cranes, followed by the residential sector with a decrease of eight cranes.

Across Sydney, the CBD and surrounds have 24 (8%) cranes installed, eastern suburbs 6 (2%), the north 124 (39%), the south 58 (18%), the west 109 (34%).

Since our last index, there has been a significant increase in the number of cranes sighted in the north, with a 32% rise in numbers. The west's crane numbers remained constant at 109, while all other regions experienced decreases.

CRANE ACTIVITY - SYDNEY REGIONS

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q2 2018	%	+	-	NET	Q3 2018	%
CBD & SURROUNDS	34	9.9%	9	-19	-10	24	7.5%
EAST	11	3.2%	4	-9	-5	6	1.9%
NORTH	94	27.5%	80	-50	30	124	38.6%
SOUTH	88	25.7%	31	-61	-30	58	18.1%
WEST	109	31.9%	67	-67	0	109	34.0%
WOLLONGONG	6	1.8%	0	-6	-6	0	0.0%
TOTAL	342	100.0%	191	-212	-21	321	100.0%

After rising in the previous edition, the CBD saw a decline of ten cranes. The mixed-use and residential sectors were the main drivers with declines of five cranes each.

The main contributors to this decline were Darling Square in Darling Harbour, Ida Apartments in Potts Point and Harris Street in Ultimo, with the removal of six, three and two cranes respectively. Cranes were removed from all hotel projects, bringing the hotel sector to zero. Four cranes were added to the Barangaroo project, bringing the project count to five and pushing the commercial crane total to 17 within the CBD.

The east has dropped almost 50%. The residential sector accounted for this decline. Two residential cranes were added to projects at Bondi Road in Bondi, while one crane was added for Element in Edgecliff and Hampton in Rose Bay. Nine cranes were removed from residential projects at Bondi Junction (2), Paddington (1), Point Piper (1), Rose Bay (1) and Vaucluse (4), bringing the closing crane count in the east to six.

After falling to 94 cranes in the previous edition, the north has bounced back, increasing 32%, to 124 cranes. The north saw 50 cranes removed from sites and 80 cranes added, an increase of 30 cranes. The residential sector drove this increase with 24 additional cranes. New residential cranes were sighted at Lachlan's Line in Macquarie Park (3), The Orchard in Hornsby (2), Park One Sydney in Macquarie Park (2) and The Orchards Norwest (2) and Windsor Road (2) in Baulkham Hills. Two new civil cranes were sighted at the Wharf refurbishment in Balmoral and NorthConnex in West Pennant Hills, pushing the civil crane count to five.

SYDNEY

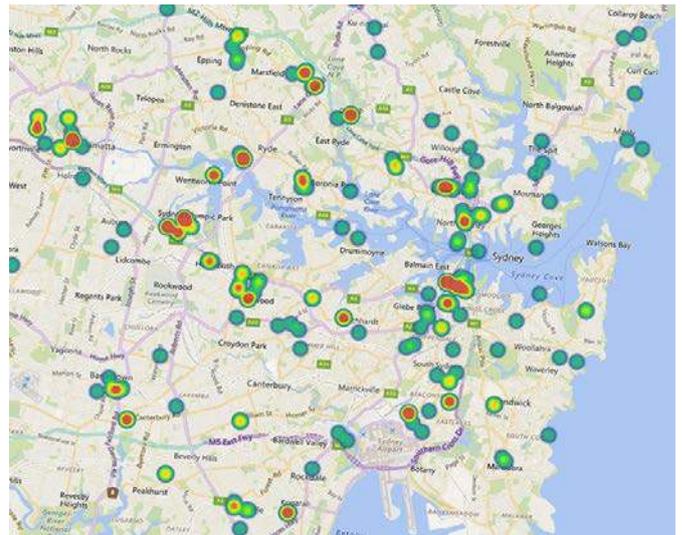
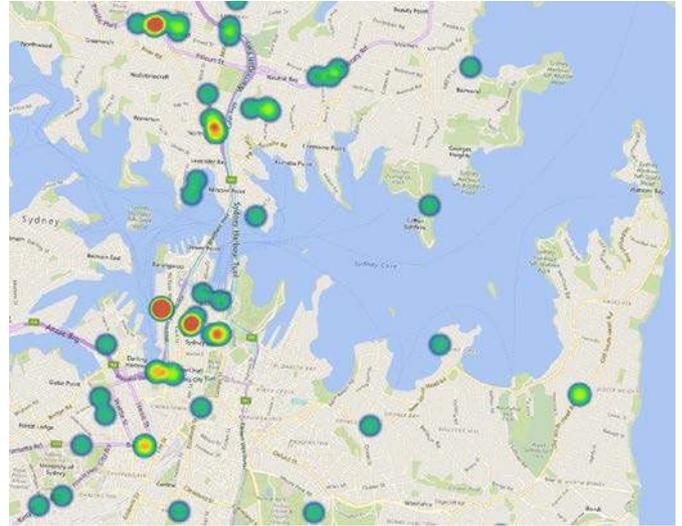
For the commercial sector, cranes were observed in Macquarie Park, Mosman and North Sydney, while one crane was removed from the Pacific Highway in North Sydney, bringing the total commercial count to five.

The south's crane count fell, with a decrease of 30 cranes. All sectors saw declines. The residential sector had the largest fall, with a decrease of ten cranes, followed by the hotel and commercial sectors with decreases of eight and six respectively. These declines were driven by the removal of six cranes from the Infinity in Waterloo, Pagewood Green in Pagewood and the Mirvac Tech Park development in Eveleigh.

The west remained stable at 109 cranes. Decreases were in the residential, recreation and hotel sectors, with six, two and one removals respectively. In contrast, increases were seen in the commercial sector with three cranes, civil and education sector with two cranes each and retail sector with one crane.

The AirTrunk Data Centre in Huntingwood saw the addition of two new cranes, increasing the project count to three and driving the commercial count to eight. The education sector saw three new cranes erected for Parramatta Public School, while one crane was removed from MLC School in Burwood. Civil cranes were sighted for the Nepean redevelopment in Kingswood and Pendle Way in Pendle Hill. Residential projects in the west with new cranes include: Ovation Quarter (4) and The Retreat (3) in Homebush, Weyland Street (3) in Punchbowl and The Boulevard (3) in Rouse Hill.

Wollongong & Southern Highlands saw all six cranes previously sighted on residential projects removed, bringing the regions count to zero.



ABOUT THE RLB CRANE INDEX®

The RLB Crane Index® is published by Rider Levett Bucknall biannually in Australia, New Zealand, USA, Gulf States and Southern 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 Q2 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 Q2 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 Q2 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 Q2 2015, against the count in Q2 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.

HEATMAPS

The RLB Crane Index® hotspot maps offer a pictorial representation of the collected data for each city using a heatmap indicator to indicate the level of crane activity across the respective city. The size of hotspot is relative to the scale of the map and is not an indication of the crane count in that position. The heatmap uses blue to indicate a lower crane activity, and the brighter red insert to indicate higher crane activity.

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

The levels of intensity are calculated on a map by map basis and should not be compared between different cities.

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