

### Q1 2020 RLB CRANE INDEX® HIGHLIGHTS:

- Total cranes across Australia now number 722, down 35 or 5%
- Record number of non-residential cranes across Australia, the Non-Residential Index has reached 207, the highest value since commencement.
- Residential Index records second consecutive fall for the first time
- Brisbane, Canberra, Gold Coast, Newcastle & Perth see higher crane numbers.
- Sydney drops by 20 cranes, Melbourne by 17
- COVID-19 pandemic impact will be felt in next edition of the index. The implications as to delays in the commencement of proposed projects may be known by the next edition of the index in Q3 2020

### Q1 2020 RLB CRANE INDEX® SUMMARY:

#### CITIES

ADELAIDE	↑
BRISBANE	↑
CANBERRA	↑
CENTRAL COAST	↑
DARWIN	↑
GOLD COAST	↑
HOBART	↑
MELBOURNE	↑
NEWCASTLE	↑
PERTH	↑
SUNSHINE COAST	↑
SYDNEY	↑
WOLLONGONG	↑

#### KEY SECTORS

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

#### LEGEND



INCREASE  
IN NUMBER  
OF CRANES



DECREASE  
IN NUMBER  
OF CRANES



CRANE  
NUMBERS  
STEADY

## AUSTRALIA

The last six months has seen a shift between the sectors of the RLB Crane Index®. The non-residential index has recorded its highest value since the introduction of the index in Q3 2012. A record 238 non-residential cranes now can be seen across the country adding important assets for all Australians in the commercial, education, health and infrastructure sectors.

Total cranes in Australia now number 722, down 35 cranes, or 5%, from 757 in Q3 2019, our last edition. Residential cranes had the largest fall with 37. Residential cranes now account for 66% of all cranes observed, down from a record high of 86% in Q3 2017.

Building work done across the country was down by 4% for 2019 in Chain Volume Measures (CVM). Residential activity fell by 8% and non-residential was up by 5%. These results reflect the movements in the current crane index numbers. The stronger non-residential sector activity has been driven by the health, education and commercial sectors.

Both Melbourne and Sydney saw falls in crane numbers but in different sectors. Melbourne suffered falls in residential cranes but Sydney saw falls in both commercial and education cranes.

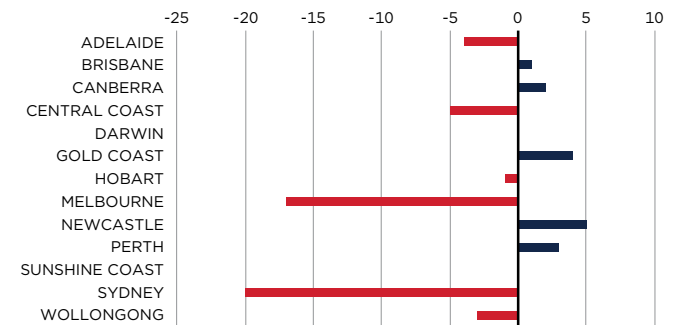
Five cities observed more cranes on the horizon and six had lower numbers. Two city's crane numbers remained the same.

With over 304 new cranes and 418 cranes remaining on projects from Q3 2019, a strong flow of activity still exists within the industry.

The current uncertainties surrounding the COVID-19 pandemic will impact the industry over the remainder of 2020. As cranes only operate when construction sites are operating, any disruption to the current workforce potentially will have a detrimental impact on future crane activity.

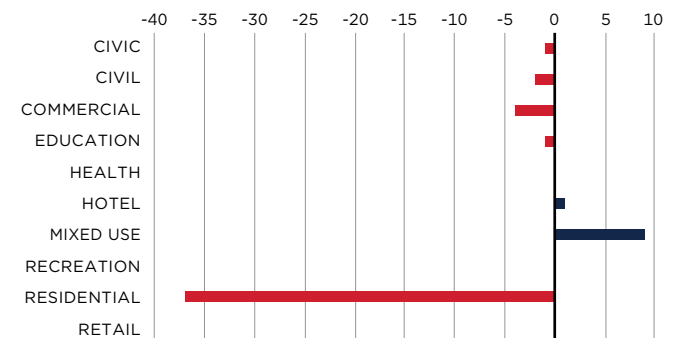
### AUSTRALIA NET CRANE MOVEMENT BY CITY

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 2019	%	+	-	NET	Q1 2020	%
ADELAIDE	19	2.5%	3	-7	-4	15	2.1%
BRISBANE	57	7.5%	34	-33	1	58	8.0%
CANBERRA	25	3.3%	10	-8	2	27	3.7%
CENTRAL COAST	14	1.8%	2	-7	-5	9	1.2%
DARWIN	1	0.1%	0	0	0	1	0.1%
GOLD COAST	29	3.8%	20	-16	4	33	4.6%
HOBART	5	0.7%	0	-1	-1	4	0.6%
MELBOURNE	213	28.1%	71	-88	-17	196	27.1%
NEWCASTLE	12	1.6%	7	-2	5	17	2.4%
PERTH	34	4.5%	21	-18	3	37	5.1%
SUNSHINE COAST	11	1.5%	7	-7	0	11	1.5%
SYDNEY	319	42.1%	127	-147	-20	299	41.4%
WOOLONGONG	18	2.4%	2	-5	-3	15	2.1%
<b>TOTAL</b>	<b>757</b>	<b>100.0%</b>	<b>304</b>	<b>-339</b>	<b>-35</b>	<b>722</b>	<b>100.0%</b>

### CRANE ACTIVITY - AUSTRALIA BY SECTOR

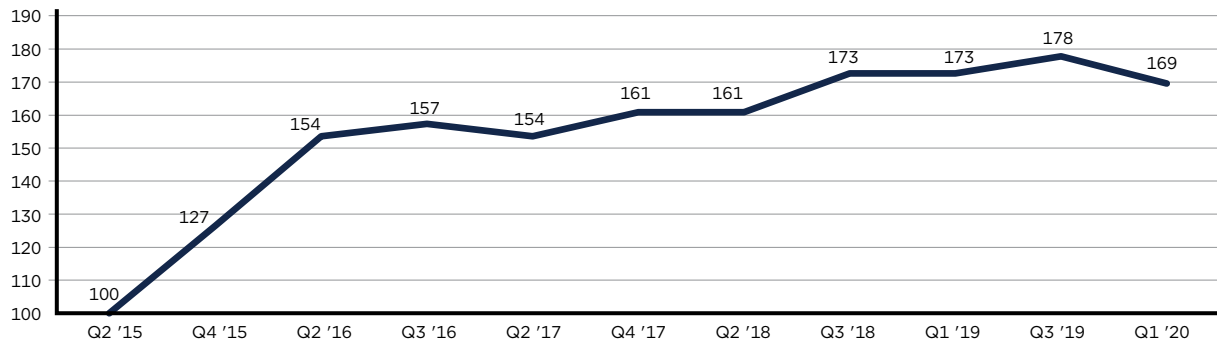
	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
CIVIC	4	0.5%	2	-3	-1	3	0.4%
CIVIL	37	4.9%	13	-15	-2	35	4.8%
COMMERCIAL	82	10.8%	24	-28	-4	78	10.8%
EDUCATION	25	3.3%	17	-18	-1	24	3.3%
HEALTH	18	2.4%	8	-8	0	18	2.5%
HOTEL	19	2.5%	7	-6	1	20	2.8%
MIXED USE	44	5.8%	23	-14	9	53	7.3%
RECREATION	2	0.3%	1	-1	0	2	0.3%
RESIDENTIAL	521	68.8%	206	-243	-37	484	67.0%
RETAIL	5	0.7%	3	-3	0	5	0.7%
<b>TOTAL</b>	<b>757</b>	<b>100.0%</b>	<b>304</b>	<b>-339</b>	<b>-35</b>	<b>722</b>	<b>100.0%</b>

## AUSTRALIA

### RLB CRANE INDEX®

The RLB Crane Index® has fallen to an index value of 169 for this edition. This fall represents a drop of 5% from the previous edition.

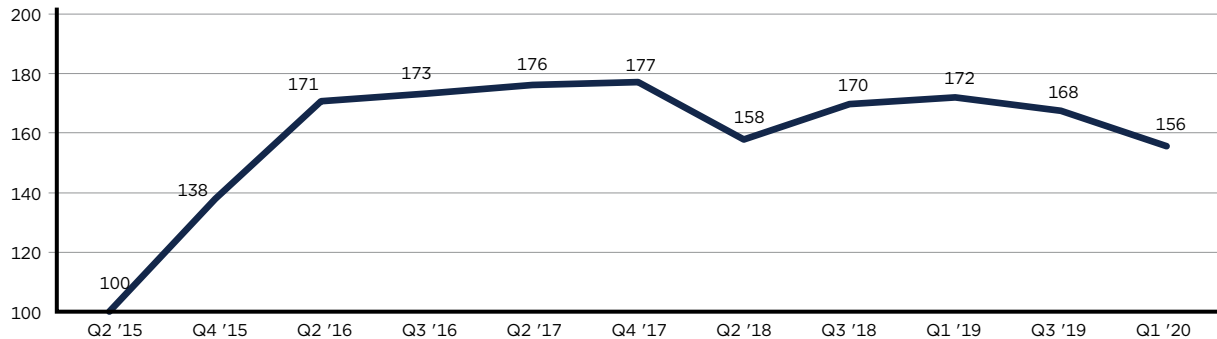
BASE = Q2 2015 = 100



### RESIDENTIAL AUSTRALIAN INDEX

The residential index representing the number of cranes on residential projects across the country fell to a level of 156, down 7%.

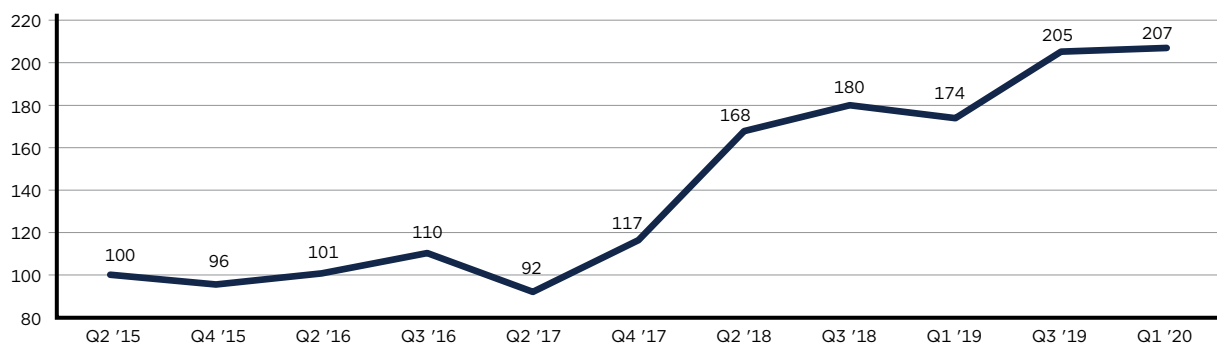
BASE = Q2 2015 = 100



### NON-RESIDENTIAL AUSTRALIAN INDEX

Strong growth in cranes on non-residential projects has seen the Non-Residential Index continues its rise to record levels. The rise of 1% to a new high of 207, represents a gain of 125% since Q2 2017. This significant rise in the value of the Non-Residential index is mainly due to significant increases in civil projects and a number of large mixed use projects underway across the country.

BASE = Q2 2015 = 100



## ADELAIDE

Adelaide's RLB Crane Index® fell from the last edition's record high of 317 to 250, a fall of 21%. The fall resulted from seven cranes being removed from projects and three new commencements.

Building work done in South Australia for the 2019 calendar year fell 6% from 2018 levels. Total building work done of \$5.9bn, in CVM terms, was the second highest level of activity since 2010, only bettered by the decade high in 2018 of \$6.3bn.

The decline in activity was evident across Adelaide, where cranes numbers fell to 15, down from 19 in Q3 2019. Residential sector cranes fell by three to now number seven.

Cranes were removed from Realm, East End, Adelaidian, Spence on Light and 252 South Terrace. These developments will add important new stock to the apartment supply within the city.

New residential projects commencing include developments on Toms Court and Penney Place.

The crane was removed at the Her Majesties Theatre redevelopment within the civic sector.

Within the commercial sector, both cranes remain on 102 Wakefield Street and Lot 14, North Terrace.

Hotel cranes remain at four with cranes on The Hotel Indigo, the Majestic Hotel, Student accommodation at 124 Waymouth Street and Sofitel Luminesque Hotel on Currie Street.

### KEY SECTORS

- CIVIC 
- COMMERCIAL 
- HOTEL 
- MIXED USE 
- RESIDENTIAL 

### OVERALL STATUS

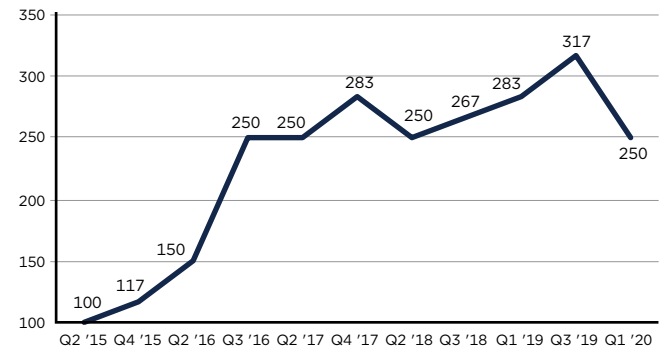


### LEGEND

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

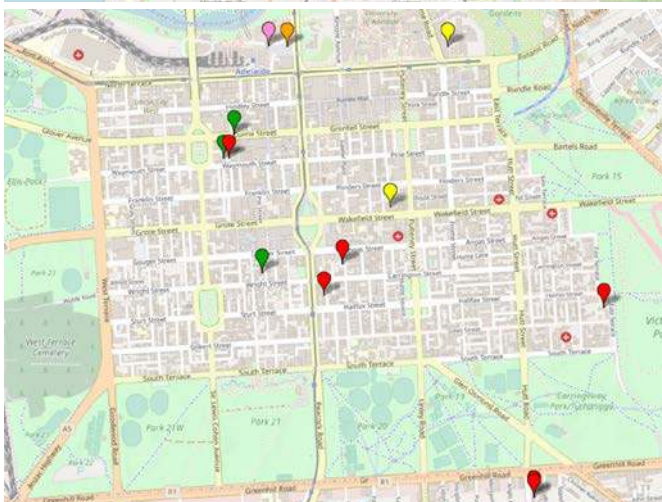
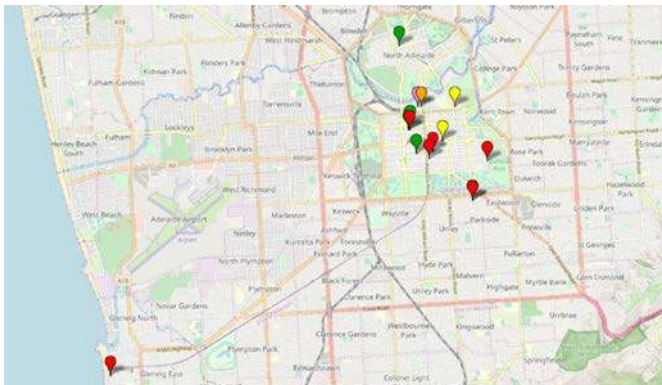
### RLB CRANE INDEX® - ADELAIDE

BASE = Q2 2015 = 100



### CRANE ACTIVITY - ADELAIDE

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
CIVIC	1	5.3%	1	-1	0	1	6.7%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	2	10.5%	0	0	0	2	13.3%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	4	21.1%	0	0	0	4	26.7%
MIXED USE	2	10.5%	0	-1	-1	1	6.7%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	10	52.6%	2	-5	-3	7	46.7%
RETAIL	0	0.0%	0	0	0	0	0.0%
<b>TOTAL</b>	<b>19</b>	<b>100.0%</b>	<b>3</b>	<b>-7</b>	<b>-4</b>	<b>15</b>	<b>100.0%</b>



## BRISBANE

Even though small, the Q1 2020 RLB Crane Index® for Brisbane has seen only the fourth rise in the index since Q2 2015. This edition sees an increase of one crane across Brisbane reflecting 58 cranes across the city. Since our last count 34 cranes were added and 33 were removed.

Queensland's building volumes fell by 6% in CVM terms. The residential sector fell by 8%, and the non-residential sector fell by 1%. This represents the third year of decline since the highs of 2015.

Two projects in Brisbane account for 30% of all cranes erected in Brisbane. The Queens Wharf and Cross River Rail projects have a combined 17 cranes assisting construction of these significant assets for the city.

The multi-level residential market continues to see many completions reflecting the volume of developments built over the past five years. Crane levels on residential developments now number 20, down from the high in Q4 2015 of 94.

Residential cranes now account for 34% of all Brisbane cranes which is down from 47% in Q3 2019. Eighteen residential cranes were removed from projects and eleven were added.

The civil, education and mixed use sectors recorded increases of nine cranes partly offsetting the fall in residential numbers.

### KEY SECTORS

CIVIL	↑
COMMERCIAL	↓
EDUCATION	↑
HEALTH	↑
HOTEL	↓
MIXED USE	↑
RESIDENTIAL	↑

### OVERALL STATUS

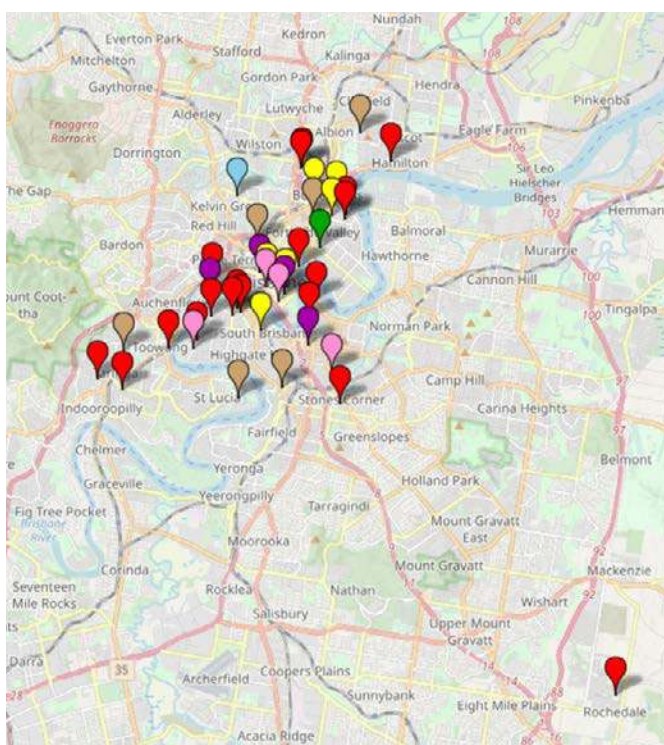
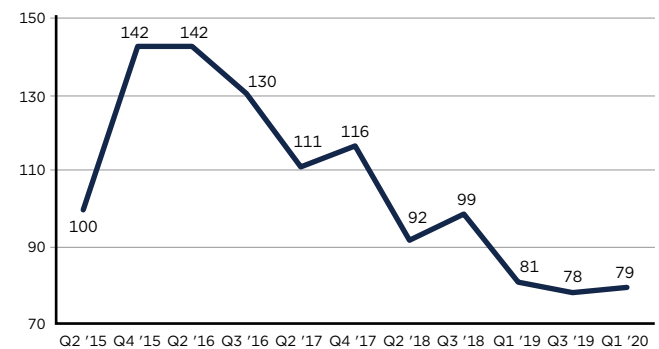


### LEGEND

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

BASE = Q2 2015 = 100



### CRANE ACTIVITY - BRISBANE

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	5	8.8%	8	-5	3	8	13.8%
COMMERCIAL	8	14.0%	3	-3	0	8	13.8%
EDUCATION	5	8.8%	5	-3	2	7	12.1%
HEALTH	2	3.5%	0	-1	-1	1	1.7%
HOTEL	1	1.8%	0	0	0	1	1.7%
MIXED USE	9	15.8%	7	-3	4	13	22.4%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	27	47.4%	11	-18	-7	20	34.5%
RETAIL	0	0.0%	0	0	0	0	0.0%
<b>TOTAL</b>	<b>57</b>	<b>100.0%</b>	<b>34</b>	<b>-33</b>	<b>1</b>	<b>58</b>	<b>100.0%</b>

## BRISBANE

Across Brisbane, crane numbers were similar to Q3 2019 levels.

### CRANE ACTIVITY - BRISBANE REGIONS

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
INNER BRISBANE	38	66.70%	19	-18	1	39	67.20%
EAST	1	1.80%	0	-1	-1	0	0.00%
NORTH	11	19.30%	6	-8	-2	9	15.50%
SOUTH	1	1.80%	3	-1	2	3	5.20%
WEST	6	10.50%	6	-5	1	7	12.10%
<b>TOTAL</b>	<b>57</b>	<b>100.00%</b>	<b>34</b>	<b>-33</b>	<b>1</b>	<b>58</b>	<b>100.00%</b>

Inner Brisbane still has the majority of cranes across Brisbane, maintaining its 67% level. Nineteen cranes were erected and 18 removed, an increase of one crane.

The iconic Queens Wharf development now has ten cranes across the many fronts being worked on at present, up from the previous count of four.

The Cross River Rail development has seven cranes installed three sites at Roma Street, Albert Street and at Leopold Street in Woolloongabba.

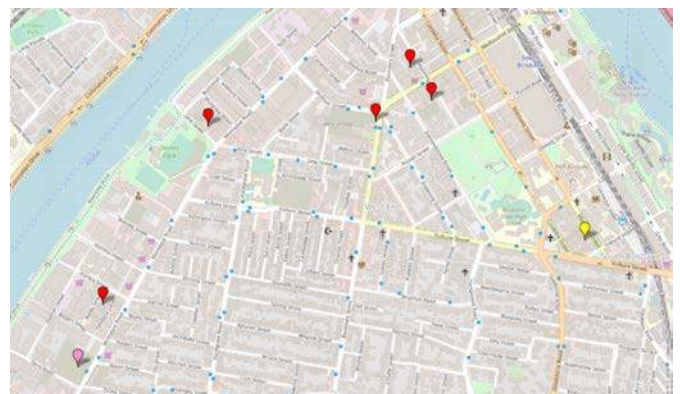
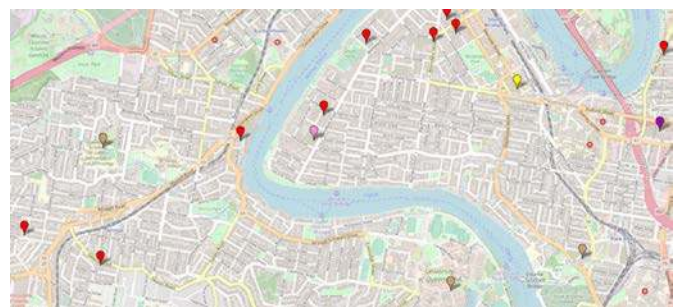
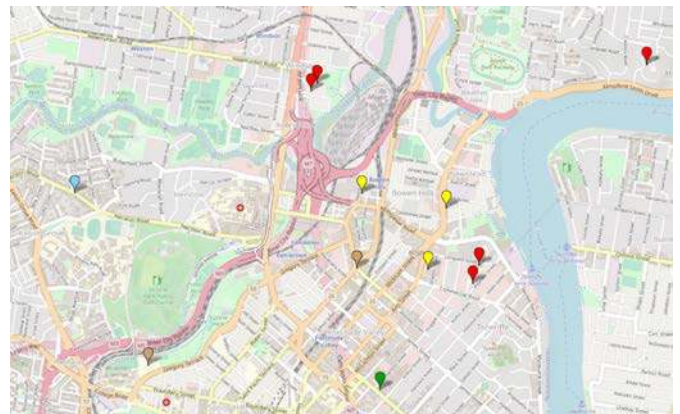
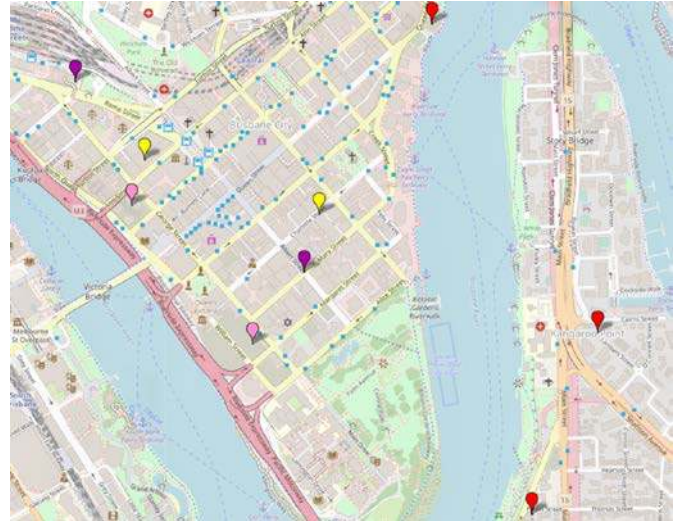
Developments with more than two cranes include West Village, which saw one crane removed but still has two cranes working, Midtown Centre, Suncorp HQ and Cbus Property's residential development.

In the east, the crane erected at the Clearview Urban Village in Seven Hills was removed, leaving the region with no cranes.

In the north, total crane numbers fell by two to nine. Single cranes were observed at Herston Quarter, Dwell, Le Bain Apartments, Stratton, Subaru Showroom, Gallway Street, St Margaret's new sports precinct and Prospect Terrace.

The new Inner City South State Secondary College has two cranes with a single crane assisting Cello in Greenslopes in the south.

The west saw another increase of one crane for this count. Six cranes were added and five removed. Developments underway include Liveris Academy at UoQ, Aura Milton, Archer Street Development Student Accommodation, Queensland Academy for Science Mathematics and Technology, 71 Swann Road, The Jasmine and Riverwalk Milton.



## CANBERRA

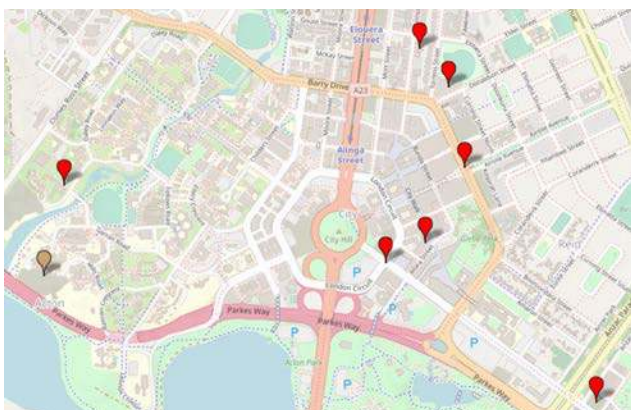
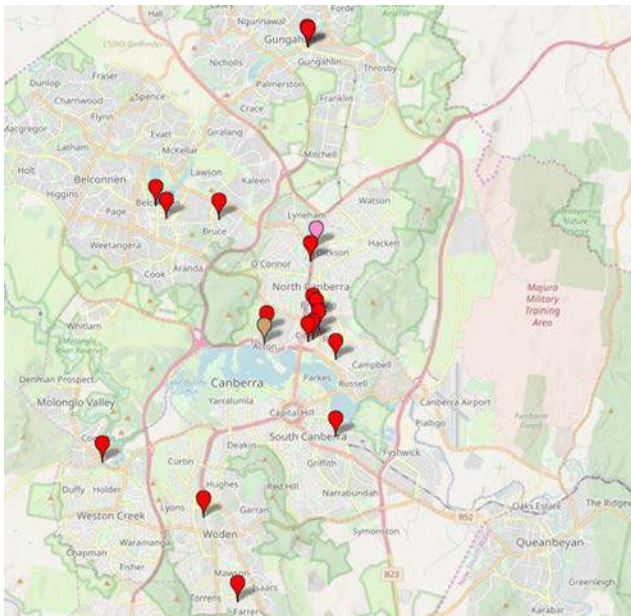
Canberra's RLB Crane Index® rose to 540, the second highest since the commencement of the index.

Ten cranes were erected and eight were removed from projects over the past six months. Twenty seven cranes now can be seen on the skyline in Canberra, up from 25.

Building work done in the Australian Capital Territory fell slightly by 2% in 2019 from 2018 levels. Residential activity was up 6% but offset by a drop in non-residential work of 16%.

The rise in residential work done is reflected in the rise of cranes within the sector as 25 cranes or 93% of all cranes observed were on residential sites.

Residential developments include: ANU Student Accommodation 8 (Acton), Cirrus (Belconnen), High Society (Belconnen), Branx (Braddon), The Grounds (Braddon), Wish (Bruce), Campbell 5, Constitution Place, Park Avenue (City) Farrer Village Jade (Gungahlin), Lumi (Gungahlin), Atria (Kingston), Embark on Northbourne, Metropal (Reid) and Grand Central Towers (Woden)



### KEY SECTORS

- COMMERCIAL
- EDUCATION
- HOTEL
- MIXED USE
- RESIDENTIAL

### OVERALL STATUS

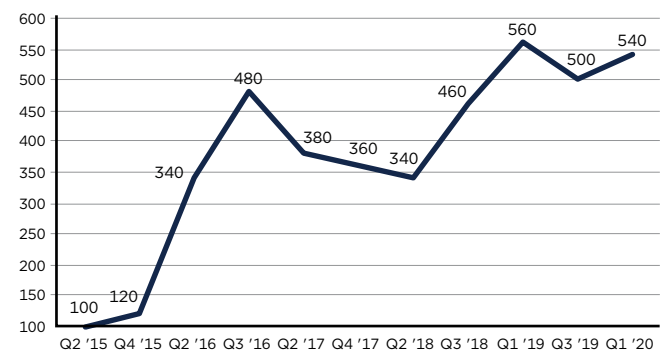


### LEGEND

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

### RLB CRANE INDEX® - CANBERRA

BASE = Q2 2015 = 100



### CRANE ACTIVITY - CANBERRA

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	1	4.0%	0	-1	-1	0	0.0%
EDUCATION	2	8.0%	0	-1	-1	1	3.7%
HEALTH	0	0.0%	0	0	0	0	0.0%
HOTEL	1	4.0%	0	-1	-1	0	0.0%
MIXED USE	1	4.0%	0	0	0	1	3.7%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	20	80.0%	10	-5	5	25	92.6%
RETAIL	0	0.0%	0	0	0	0	0.0%
<b>TOTAL</b>	<b>25</b>	<b>100.0%</b>	<b>10</b>	<b>-8</b>	<b>2</b>	<b>27</b>	<b>100.0%</b>

## CENTRAL COAST

The RLB Crane Index® for the Central Coast fell by 36% to 50 for this edition. The lowest result since the Central Coast was included as a separate region in Q3 2018.



Only two cranes commenced and seven removals were recorded. Cranes now number nine across the region.

The residential sector accounts for 100% of all cranes.

Cranes were observed in Gosford at Mann Street, Ormond Street, Holden Street and Hargreaves Street.

Other cranes included developments on Range Road in North Gosford and Albany Street in Point Fredrick.

### KEY SECTORS

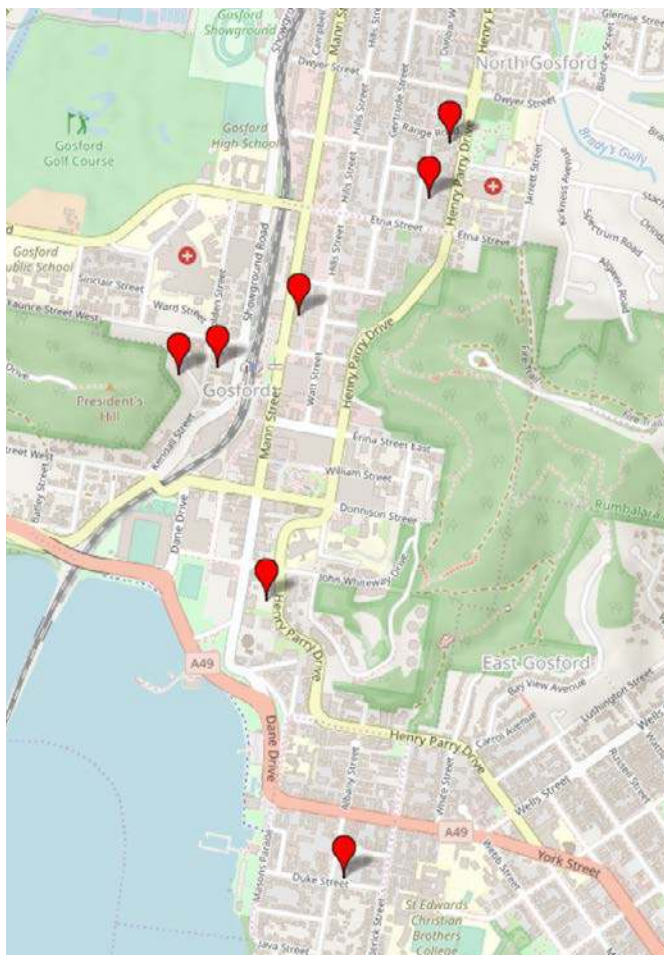
- EDUCATION 
- RESIDENTIAL 

### OVERALL STATUS



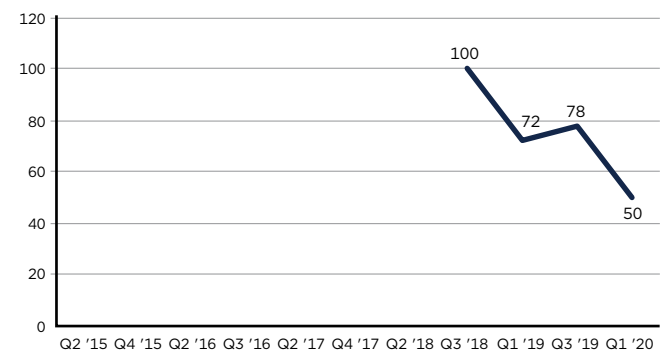
### LEGEND

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



### RLB CRANE INDEX® - CENTRAL COAST

BASE = Q2 2018 = 100



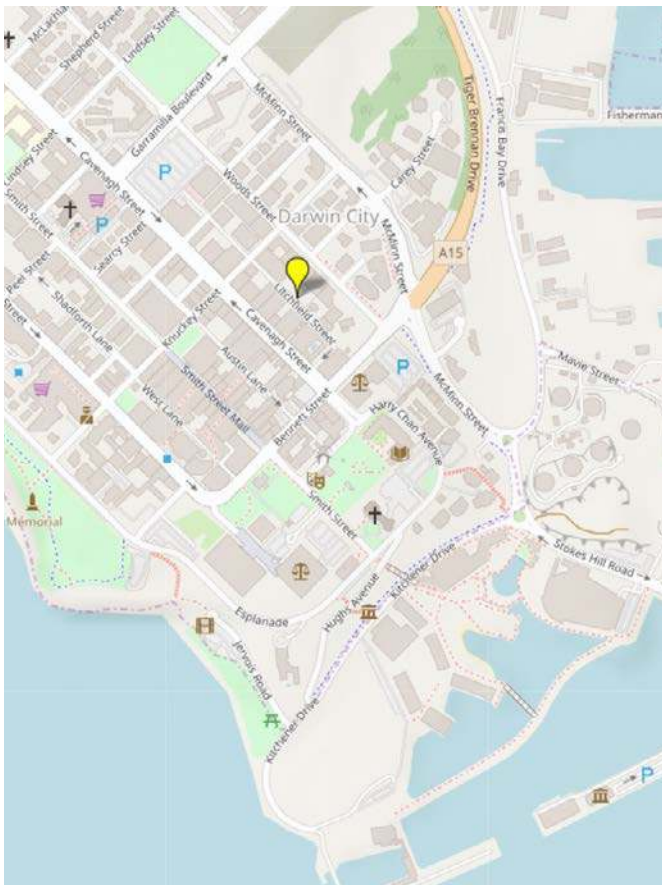
### CRANE ACTIVITY - CENTRAL COAST

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
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	1	7.1%	0	-1	-1	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	13	92.9%	2	-6	-4	9	100.0%
RETAIL	0	0.0%	0	0	0	0	0.0%
<b>TOTAL</b>	<b>14</b>	<b>100.0%</b>	<b>2</b>	<b>-7</b>	<b>-5</b>	<b>9</b>	<b>100.0%</b>



## DARWIN

Darwin continues to have a tower crane at the CBD's newest commercial precinct - Mandunda Place, a nine storey addition to the commercial office sector in the Territory which will be fully leased to the NT Government.



### KEY SECTORS

COMMERCIAL



### OVERALL STATUS



### LEGEND



INCREASE  
IN NUMBER  
OF CRANES



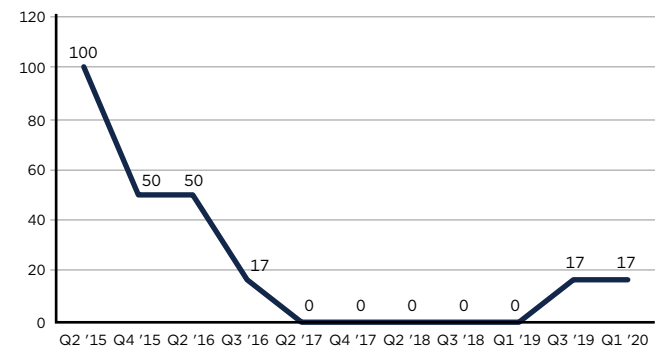
DECREASE  
IN NUMBER  
OF CRANES



CRANE  
NUMBERS  
STEADY

### RLB CRANE INDEX® - DARWIN

BASE = Q2 2015 = 100



### CRANE ACTIVITY - DARWIN

	OPENING COUNT Q3 2019	%	MOVEMENT + -	NET	CLOSING COUNT Q1 2020	%
CIVIC	0	0%	0	0	0	0.0%
CIVIL	0	0%	0	0	0	0.0%
COMMERCIAL	1	100%	0	0	1	100.0%
EDUCATION	0	0%	0	0	0	0.0%
HEALTH	0	0%	0	0	0	0.0%
HOTEL	0	0%	0	0	0	0.0%
MIXED USE	0	0%	0	0	0	0.0%
RECREATION	0	0%	0	0	0	0.0%
RESIDENTIAL	0	0%	0	0	0	0.0%
RETAIL	0	0%	0	0	0	0.0%
<b>TOTAL</b>	<b>1</b>	<b>100.0%</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>100.0%</b>

## GOLD COAST

The Gold Coast RLB Crane Index® recorded a rise from 193 to 220, a lift of 14%. Twenty cranes were added and 16 were removed bringing the coast's total to 33.

The residential sector accounts for 73% of all Gold Coast cranes, falling slightly from the previous edition.

The residential sector saw 14 new cranes placed on sites and 15 removed, bringing the sector count to 24, down from 25 at Q3 2019.

Residential cranes include Labrador Apartments (Biggera Waters), Opus Broadbeach, DGC Stage 1, Encore Broadbeach (Broadbeach), Norfolk (Burleigh Heads), Maya (Coolangatta), Grant Avenue Stage 1 (Hope Island), Marine Parade (Labrador), 77 Jefferson, Sakura Apartments (Palm Beach) Cerulean Apartments and Ocean (Surfers Paradise)

Cranes were observed at the terminal expansion at Gold Coast Airport and at four storage facilities in Biggera Waters, Robina and Southport.

Cranes have been removed from Waterpoint (Biggera Waters), Southbreak (Bilinga), Vue Apartments (Broadbeach), GC North Medical Hub (Helensvale), ACQUA, Aleia, Pacific, Periscope, Sable and Sea (Palm Beach) Norman St/North Marine Parade (Southport), One16 and Serenity (Surfers Paradise) and Evolve (Tweed Heads)

### KEY SECTORS

COMMERCIAL	
HEALTH	
HOTEL	
MIXED USE	
RESIDENTIAL	

### OVERALL STATUS

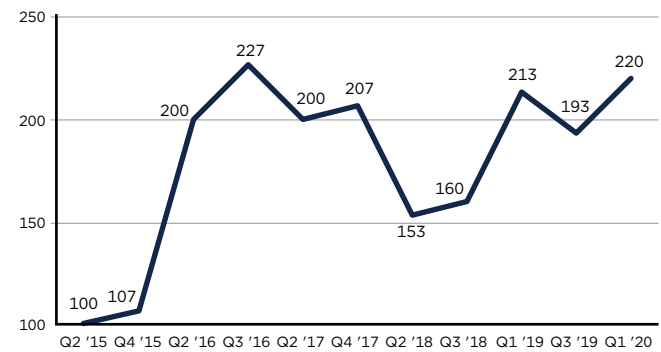


### LEGEND

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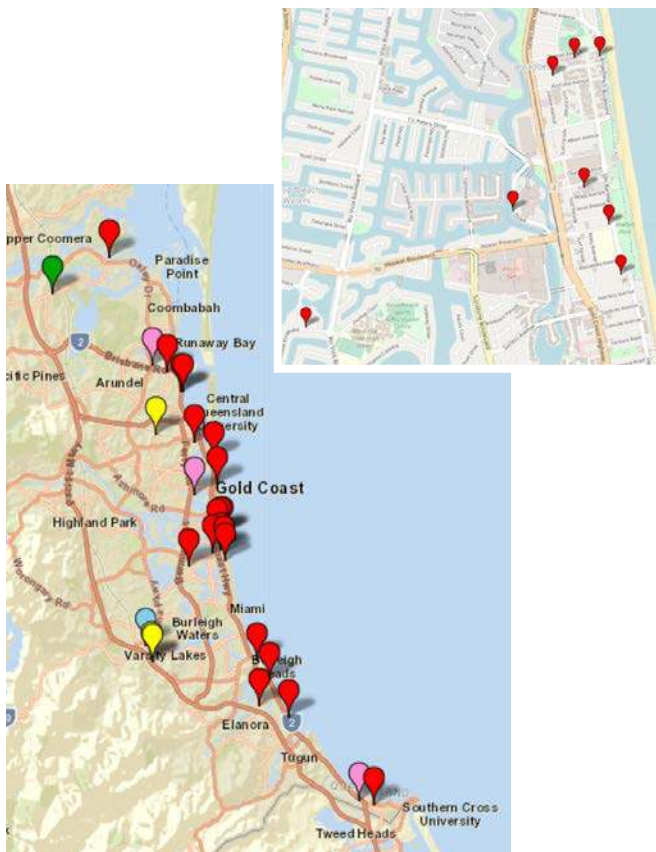
### RLB CRANE INDEX® - GOLD COAST

BASE = Q2 2015 = 100



### CRANE ACTIVITY - GOLD COAST

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	0	0.0%	3	0	3	3	9.1%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	2	6.9%	0	-1	-1	1	3.0%
HOTEL	1	3.4%	0	0	0	1	3.0%
MIXED USE	1	3.4%	3	0	3	4	12.1%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	25	86.2%	14	-15	-1	24	72.7%
RETAIL	0	0.0%	0	0	0	0	0.0%
<b>TOTAL</b>	<b>29</b>	<b>100.0%</b>	<b>20</b>	<b>-16</b>	<b>4</b>	<b>33</b>	<b>100.0%</b>



## HOBART

Hobart's RLB Crane Index® fell from 125 to 100 for this edition. One crane was removed bringing the city's total to four.

One crane was removed from the Hyatt development on Elizabeth Street.

Cranes remain at Parliament Square, the Vibe Hotel, The Commons and UTAS's Student Accommodation project

### KEY SECTORS

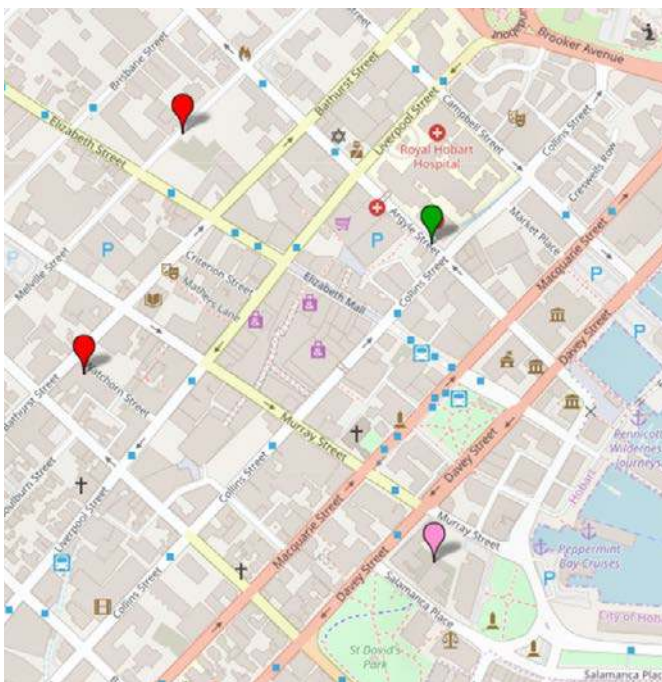
HOTEL	
MIXED USE	
RESIDENTIAL	

### OVERALL STATUS



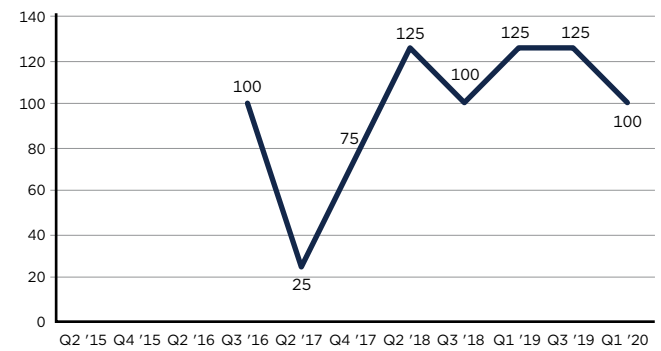
### LEGEND

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

BASE = Q3 2016 = 100



### CRANE ACTIVITY - HOBART

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
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	2	40.0%	0	-1	-1	1	25.0%
MIXED USE	1	20.0%	0	0	0	1	25.0%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	2	40.0%	0	0	0	2	50.0%
RETAIL	0	0.0%	0	0	0	0	0.0%
<b>TOTAL</b>	<b>5</b>	<b>100.0%</b>	<b>0</b>	<b>-1</b>	<b>-1</b>	<b>4</b>	<b>100.0%</b>

## MELBOURNE

Melbourne recorded an 8% fall in the Q1 2020 RLB Crane Index®. The index now stands at 169, down from the high of 191 in Q1 2019.

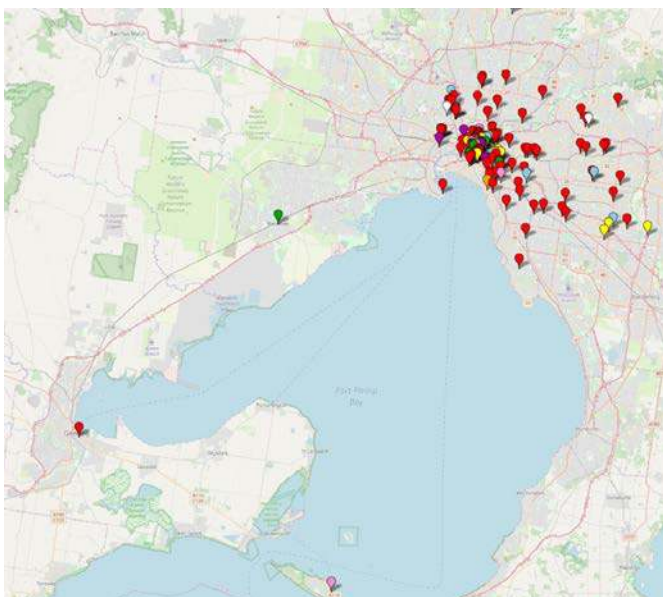
Across Melbourne 71 cranes were added to projects and 88 were removed, bringing current crane numbers to 196 down from the record 222 cranes achieved twelve months ago.

Even with a drop in crane numbers the volume of building work done in Victoria continued at record levels for 2019 on a CVM basis. Total building work done was \$38.6bn for the twelve months of 2019, slightly up from the volumes reported in 2018. While residential slipped slightly by 0.5%, non-residential activity rose by 1.1%

The dip in crane numbers over the past six to twelve months has been led by a drop off in residential cranes. Over the past twelve months, Melbourne's cranes have fallen by a total of 24 cranes, or almost 20%. Non-residential cranes have remained steady over the last twelve months with a small increase of four.

The residential sector still continues to dominate, albeit with a smaller proportion, the Melbourne skyline with 122 cranes across 44 suburbs in the Melbourne region. The inner Melbourne region contains 46% of all cranes in Melbourne and 57% of all residential cranes.

The civil sector continues to grow with activity centred on the Metro Tunnel, North East Link, Western Distributor and level crossing removal projects. Long term crawler cranes are being used to assist in the construction of Tunnel Boring Machine launch and retrieval sites, together with associated infrastructure and in ground services diversions. There are currently 10 cranes assisting these projects.



### KEY SECTORS

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

### OVERALL STATUS

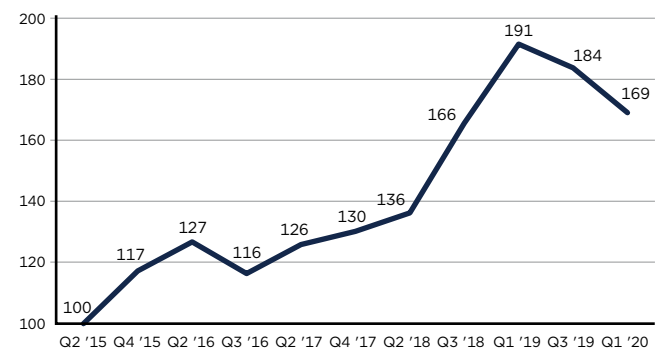


### LEGEND

↑	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	
	Q3 2019	%	+	-	NET	Q1 2020	%
CIVIC	3	1.4%	1	-2	-1	2	1.0%
CIVIL	13	6.1%	1	-3	-2	11	5.6%
COMMERCIAL	21	9.9%	8	-8	0	21	10.7%
EDUCATION	2	0.9%	3	-2	1	3	1.5%
HEALTH	5	2.3%	5	-1	4	9	4.6%
HOTEL	3	1.4%	6	-1	5	8	4.1%
MIXED USE	17	8.0%	7	-7	0	17	8.7%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	149	70.0%	37	-64	-27	122	62.2%
RETAIL	0	0.0%	3	0	3	3	1.5%
<b>TOTAL</b>	<b>213</b>	<b>100.0%</b>	<b>71</b>	<b>-88</b>	<b>-17</b>	<b>196</b>	<b>100.0%</b>

## MELBOURNE

The commercial sector has maintained consistent crane numbers across Melbourne numbering in the mid 20's for the past four editions. Currently there are 25 cranes on commercial sites at Gwnee Street, Seek HQ and Church St (Cremorne), Poly centre (Docklands), 55 Collins Street, Vicpol 2, 405 Bourke Street and Wesley Place (CBD), Wellington Road and Nexus Corporate Park (Mulgrave), Wangaratta Street (Richmond), Caribbean Park (Scoresby), Market Lane and Moray Street (South Melbourne).

Within the education sector, two developments have three cranes erected. The new Victoria University CBD campus development and Australian Catholic University's new St Teresa of Kolkata building.

The health sector saw a jump of four cranes to reach nine in total. New projects include aged care facilities in Burwood (Ryman), Essendon and Wheelers Hill. Cranes currently are continuing on projects at the Eye and Ear, Northern and Goulburn Valley Hospitals and mecware's development in Malvern.

New hotel projects have elevated the sector's crane numbers by five to a total of nine. New hotel developments include: Holiday Inn Express and Hotel Causeway (Melbourne), Mojo Hotel (South Yarra) Marriott Courtyard and Oakwood (Southbank) and Holiday Inn (Werribee).

The growth of the mixed use/ other sector has seen a number of new developments that combine hotel/ retail, residential and commercial spaces within the building. This growing sector currently has 17 cranes. Projects include

- Sapphire by The Gardens / Shangri la Hotel
- Melbourne Connect
- West Side Place
- Collins Arch
- QVM Residences
- Continental Hotel, Sorrento
- 484 - 486 Mt Alexander Road
- West Side Place Stage 2

### CRANE ACTIVITY - MELBOURNE REGIONS

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
CBD & SURROUNDS	128	60.1%	38	-50	-12	116	59.2%
EAST	16	7.5%	13	-8	5	21	10.7%
GEELONG	4	1.9%	0	-3	-3	1	0.5%
NORTH	19	8.9%	10	-9	1	20	10.2%
SOUTH	36	16.9%	5	-15	-10	26	13.3%
WEST	10	4.7%	5	-3	2	12	6.1%
<b>TOTAL</b>	<b>213</b>	<b>100.0%</b>	<b>71</b>	<b>-88</b>	<b>-17</b>	<b>196</b>	<b>100.0%</b>

Across the city, crane increases were seen in the east, north and west. Inner Melbourne which accounted for 60% of all cranes in the last index, dropped to 59% while cranes in the east rose from 8% to 11% due to Ryman's healthcare project commencing. The completion of GPAC, Miramaar and Deakin projects has seen a drop in Geelong cranes to one. Within the south, major project completions have seen crane numbers fall by ten from 36 to 26.

INNER MELBOURNE	Q3 2019	Q1 2020
CIVIC	2	2
CIVIL	11	9
COMMERCIAL	21	17
EDUCATION	0	3
HEALTH	2	2
HOTEL	3	7
MIXED USE	7	14
RECREATION	0	0
RESIDENTIAL	82	62
RETAIL	0	0
<b>TOTAL</b>	<b>128</b>	<b>116</b>

Total cranes within the inner suburbs of Melbourne fell by 12 cranes. The drop was driven by an increase in residential completions. Completed residential projects accounted for the removal of 35 cranes across the region. Only 15 new cranes commenced on new residential developments. These include Scape Lincoln Square (Carlton), Cambridge St (Collingwood), Yarra's Edge (Dockland), Scape Franklin St and Optimus (Melbourne) Twenty Two Courtney (North Melbourne), Victoriana on Queens Road, Habitus (South Melbourne), Wilson Street and Anderson Street (South Yarra), Southbank Place and Palladium (Southbank) and Ink (St Kilda).

Education, hotel and mixed use crane number growth provided an offset to the residential fall.

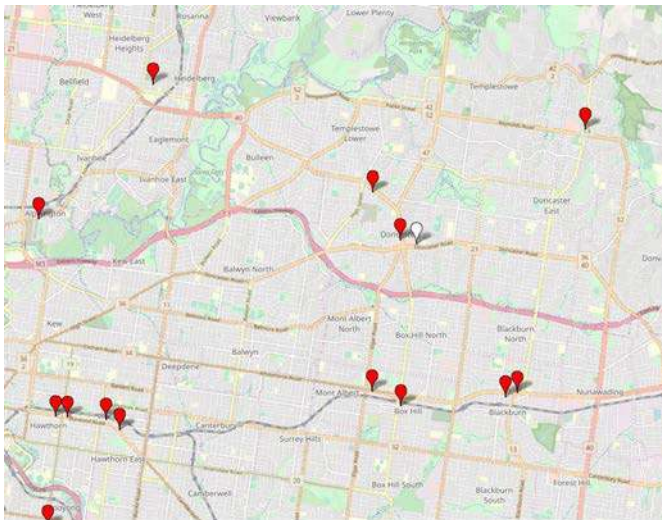


## MELBOURNE

EAST	Q3 2019	Q1 2020
CIVIC	0	0
CIVIL	0	0
COMMERCIAL	0	1
EDUCATION	1	0
HEALTH	0	2
HOTEL	0	0
MIXED USE	0	0
RECREATION	0	0
RESIDENTIAL	15	16
RETAIL	0	2
<b>TOTAL</b>	<b>16</b>	<b>21</b>

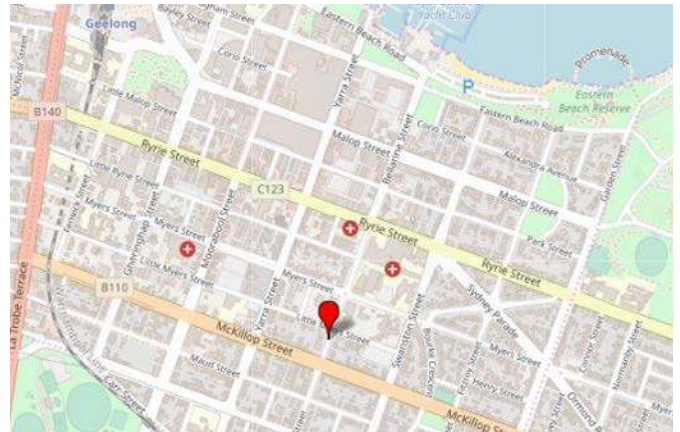
The east saw 13 new cranes and eight removals increasing their total numbers to 21 from 16. Health and retail sectors each saw two additional cranes with one additional crane on commercial and residential projects.

Residential projects account for 76% of total cranes in east.



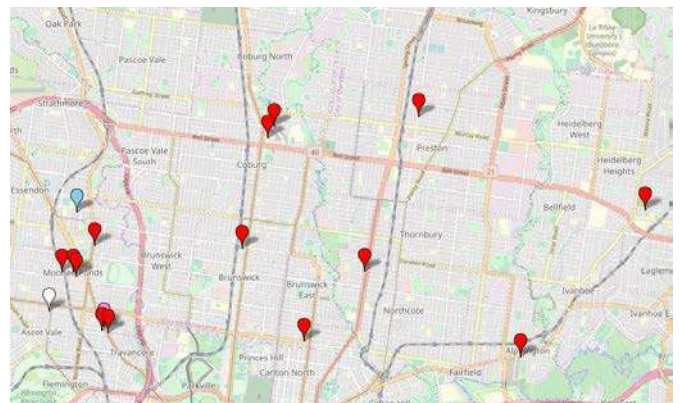
GEELONG	Q3 2019	Q1 2020
CIVIC	1	0
CIVIL	0	0
COMMERCIAL	0	0
EDUCATION	1	0
HEALTH	0	0
HOTEL	0	0
MIXED USE	0	0
RECREATION	0	0
RESIDENTIAL	2	1
RETAIL	0	0
<b>TOTAL</b>	<b>4</b>	<b>1</b>

Since Q3 2018, Geelong has had four cranes in the sky but with the completion of GPAC, Miramarr apartments and student accommodation at Deakin University there is only one crane remaining at G1 Apartments.



NORTH	Q3 2019	Q1 2020
CIVIC	0	0
CIVIL	0	0
COMMERCIAL	0	0
EDUCATION	0	0
HEALTH	2	3
HOTEL	0	0
MIXED USE	2	1
RECREATION	0	0
RESIDENTIAL	15	15
RETAIL	0	1
<b>TOTAL</b>	<b>19</b>	<b>20</b>

The north maintained their crane numbers to reach 20 this edition, up from 19 six months ago. Residential cranes fell with increases in retail and health cranes. New cranes were seen at Essendon aged care in health and at the Ascot theatre redevelopment for retail.



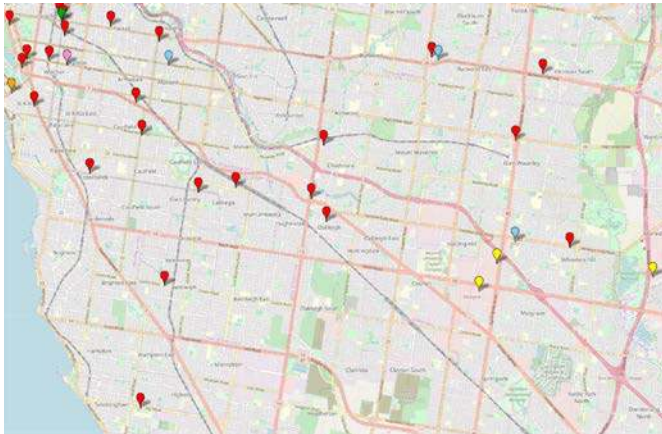
## MELBOURNE

SOUTH	Q3 2019	Q1 2020
CIVIC	0	0
CIVIL	0	0
COMMERCIAL	3	3
EDUCATION	0	0
HEALTH	1	2
HOTEL	0	0
MIXED USE	4	2
RECREATION	0	0
RESIDENTIAL	23	19
RETAIL	5	0
<b>TOTAL</b>	<b>36</b>	<b>26</b>

WEST	Q3 2019	Q1 2020
CIVIC	0	0
CIVIL	2	2
COMMERCIAL	0	0
EDUCATION	0	0
HEALTH	0	0
HOTEL	0	1
MIXED USE	0	0
RECREATION	0	0
RESIDENTIAL	8	9
RETAIL	0	0
<b>TOTAL</b>	<b>10</b>	<b>12</b>

The south saw a drop of 10 cranes within the region. The majority were in the residential sector where eleven cranes were removed from developments nearing completion in Caulfield (1), Carnegie (2), East Bentleigh (3), Murrumbeena (1), Oakleigh (1), Prahran (2) and Toorak (1). Three new residential cranes were erected at Armidale, Chadstone and Malvern. M-City the mixed use development in Clayton removed its last crane, two editions ago this site had six cranes.

The west grew its crane numbers by two to reach 12 cranes. Footscray remains a hotspot for the west, with eight cranes along Hopkins Street and surrounding streets.



## NEWCASTLE

Newcastle's RLB Crane Index® increased by 42% to reach 213, the highest recorded. Seven cranes were added with two removals bringing the total count to 17, up from 12 previously.

Net crane numbers rose in the residential (three), health (two) and commercial (one) sectors, while the hotel sector fell by one crane.

There are now ten residential cranes across Newcastle, up from eight in our last edition.

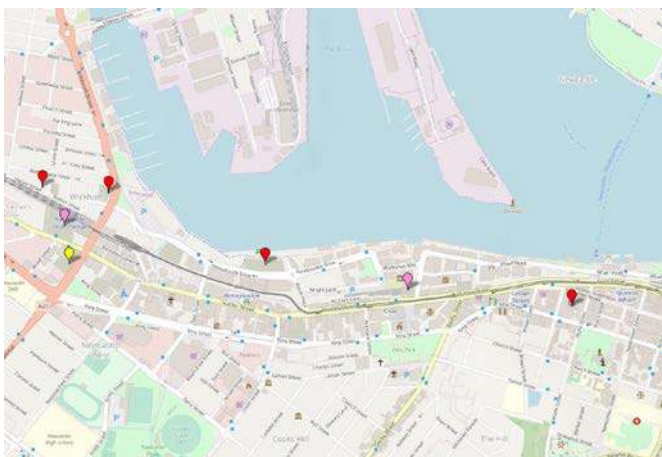
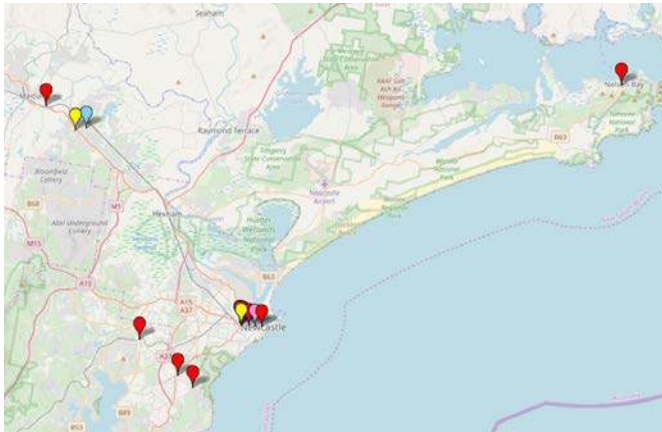
New residential developments commencing include Fettle's (Whitebridge), Ascent (Nelson Bay), Sturt Road (Cardiff) and High Street (Maitland).

Cranes still remain on East End apartments (2), Lume and Highpoint apartments (Newcastle), Eaton and Stella (Wickham).

Cranes continued on the Doma interchange and carpark.

Maitland Hospital saw the erection of two cranes within the health sector.

With the commencement of a crane at Store (Newcastle West) and the continuance of The Mutual in Maitland, the commercial sector has two cranes.



### KEY SECTORS

COMMERCIAL	
HEALTH	
HOTEL	
MIXED USE	
RESIDENTIAL	

### OVERALL STATUS

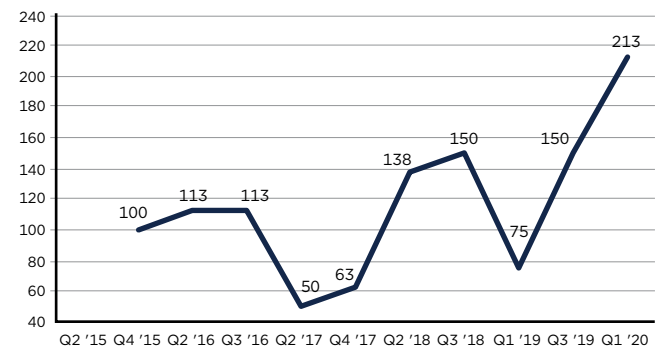


### LEGEND

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

BASE = Q4 2015 = 100



### CRANE ACTIVITY - NEWCASTLE

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	0	0.0%	0	0	0	0	0.0%
COMMERCIAL	1	8.3%	1	0	1	2	11.8%
EDUCATION	0	0.0%	0	0	0	0	0.0%
HEALTH	0	0.0%	2	0	2	2	11.8%
HOTEL	1	8.3%	0	-1	-1	0	0.0%
MIXED USE	3	25.0%	0	0	0	3	17.6%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	7	58.3%	4	-1	3	10	58.8%
RETAIL	0	0.0%	0	0	0	0	0.0%
<b>TOTAL</b>	<b>12</b>	<b>100.0%</b>	<b>7</b>	<b>-2</b>	<b>5</b>	<b>17</b>	<b>100.0%</b>



## PERTH

Perth saw a rise in the RLB Crane Index® of 9% with the index rising to 86. A significant 21 cranes were added in the past six months signifying strength in new commencements. Eighteen cranes were removed across all sectors. Thirty-seven cranes can now be seen across Perth.

Construction work done fell within Western Australia during the twelve months of 2019 with activity down by 17% in the engineering sector, 13% in the residential and 1% in the non-residential sector. The rise in crane numbers, albeit small, may indicate some sectors commencing an upward trend.

Residential cranes saw a fall of four cranes reflecting the falling work done across the state over the year, with the number of cranes falling from 19 to 15. Residential cranes fell to 40% of all cranes across Perth down from 56% six months ago.

Twelve residential cranes were removed from developments at Kintail Rd and Sabina Apartments (Applecross), Marina East (Ascot), in Booragoon and Dalkeith, VUE Tower (East Perth), Aston (Leederville) Precinct on Canning (Mount Pleasant), Compass (North Fremantle), Pinnacle (South Perth) and Camilla (West Perth).

### KEY SECTORS

CIVIL	↕
COMMERCIAL	↕
EDUCATION	↕
HEALTH	↕
HOTEL	↕
MIXED USE	↕
RESIDENTIAL	↕
RETAIL	↕

### OVERALL STATUS

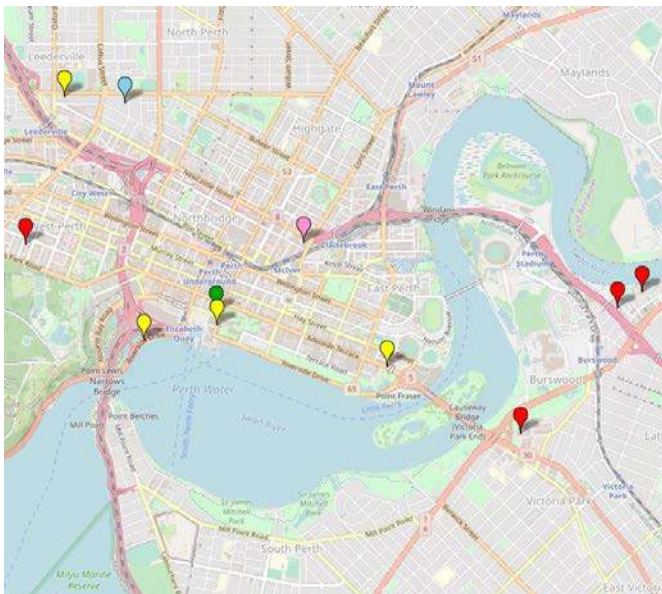
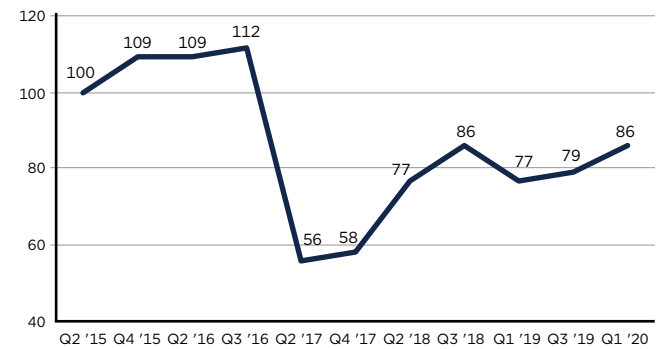


### LEGEND

↕	INCREASE IN NUMBER OF CRANES	↕	DECREASE IN NUMBER OF CRANES	↕	CRANE NUMBERS STEADY
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### RLB CRANE INDEX® - PERTH

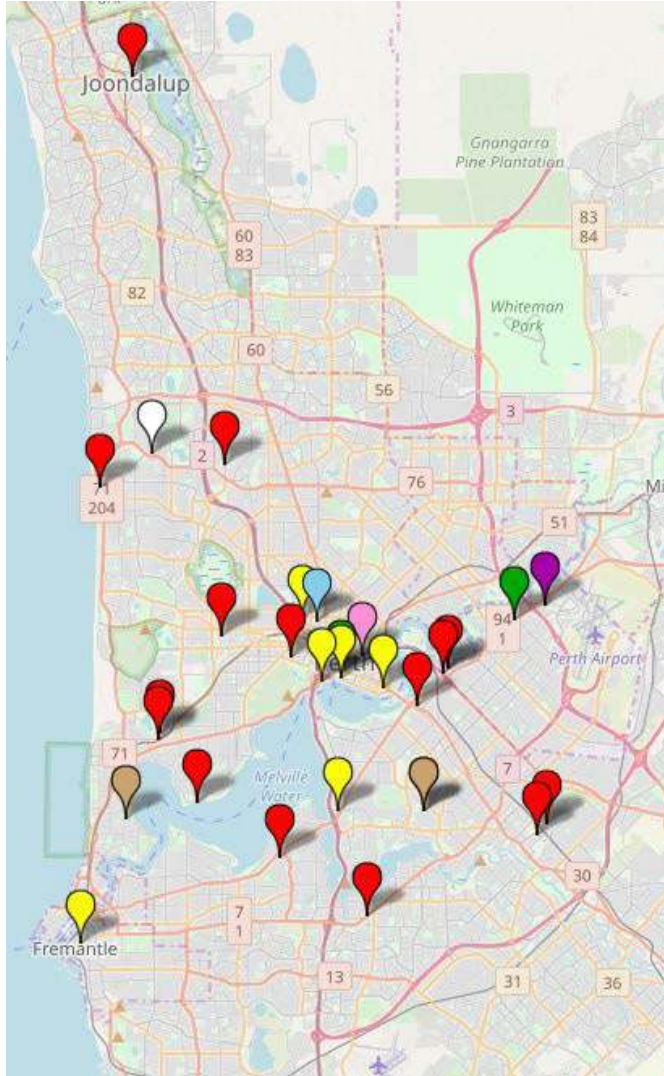
BASE = Q2 2015 = 100



### CRANE ACTIVITY - PERTH

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	1	2.9%	0	0	0	1	2.7%
COMMERCIAL	2	5.9%	4	0	4	6	16.2%
EDUCATION	1	2.9%	8	0	8	9	24.3%
HEALTH	3	8.8%	0	-2	-2	1	2.7%
HOTEL	1	2.9%	1	0	1	2	5.4%
MIXED USE	2	5.9%	0	-1	-1	1	2.7%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	19	55.9%	8	-12	-4	15	40.5%
RETAIL	5	14.7%	0	-3	-3	2	5.4%
<b>TOTAL</b>	<b>34</b>	<b>100.0%</b>	<b>21</b>	<b>-18</b>	<b>3</b>	<b>37</b>	<b>100.0%</b>

## PERTH



New residential developments commencing included RAAFA (Bullcreek), Avery Vista and Velocity (Cannington), Lucent (Claremont), Treehouse (Jolimont), Riverina (Rivervale), Vantage (Rivervale) and La Luna (Stirling).

The first stage of the 20 year Greater Curtain strategy commenced with the addition of seven cranes in the education sector, bringing the total count to nine, almost 25% of all cranes in Perth.

The commercial sector saw the addition of four cranes at Capital Square Tower 2, Elizabeth Quay Lot 2, ABN Group HQ (Leederville) and Paradiso (Como).

## SUNSHINE COAST

The Sunshine Coast RLB Crane Index® maintained its level at 110 for this edition. Seven cranes were erected with seven removed, maintaining the region's crane numbers at 11.

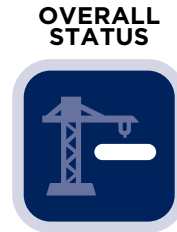
In our last count, all cranes were previously on residential sites across the coast. Cranes were removed from Drift (Coolum), Alpha / New Haven, The Ivy and The Rhythm (Maroochydore) and Allambi Rise and Parkridge (Noosa)

New residential commencements include Beach Life (Alexandra Headland), Wilson Avenue (Dicky Beach), Avalon, Foundation Place and Rise Apartments (Maroochydore) and Aspire (Pelican Waters)

The Mooloolaba Carpark in First Avenue saw one crane commence in the mixed use/other sector.

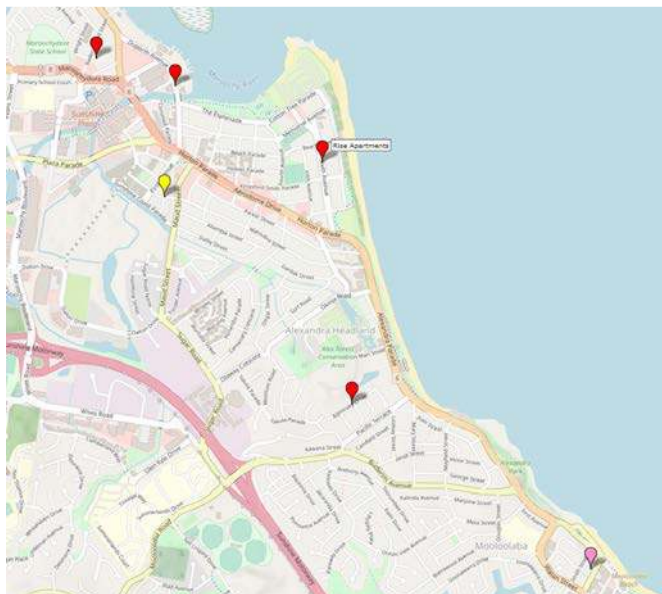
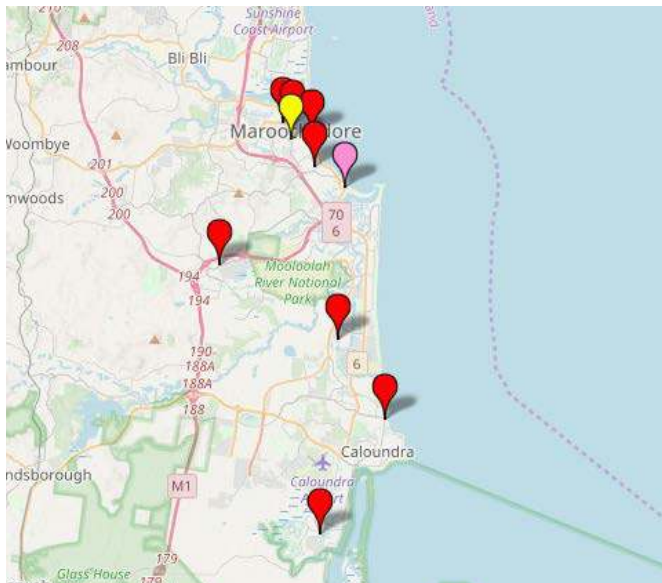
**KEY SECTORS**

COMMERCIAL	
MIXED USE	
RESIDENTIAL	



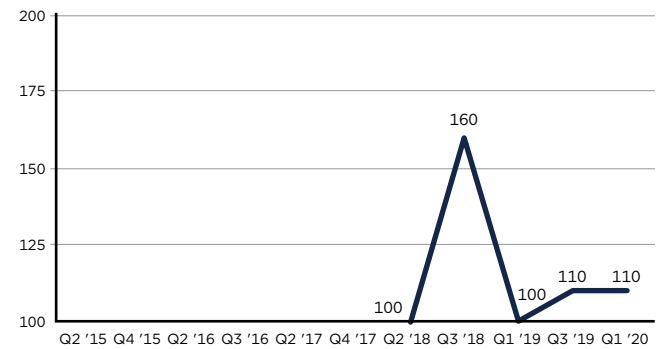
**LEGEND**

	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	
	Q3 2019	%	+	-	NET	Q1 2020	%
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	9.1%
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	9.1%
RECREATION	0	0.0%	0	0	0	0	0.0%
RESIDENTIAL	11	100.0%	5	-7	-2	9	81.8%
RETAIL	0	0.0%	0	0	0	0	0.0%
<b>TOTAL</b>	<b>11</b>	<b>100.0%</b>	<b>7</b>	<b>-7</b>	<b>0</b>	<b>11</b>	<b>100.0%</b>

## SYDNEY

The Sydney RLB Crane Index® recorded a fall from 197 to 185 for this edition. Crane numbers in Sydney declined by 20 cranes, lowering the count to 299 from 319 previously. 127 cranes were added and 147 removed.

The 6% fall in crane numbers, was mirrored in New South Wales' building work done where activity fell by 4% for the twelve months of 2019 in chain volume terms. Residential work decreased by 15% with non-residential work increasing by 18%.

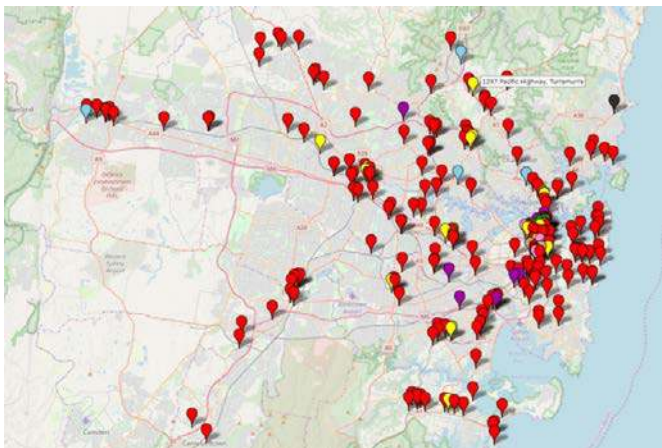
Across Sydney, all sectors saw a reduction in cranes from our previous count with the exception of the residential and mixed use/other sectors where they both recorded small increases of three and four respectively. Residential cranes now represent 79% of all cranes across the city.

Each region's proportion of cranes has seen a shift for this count, from inner and north Sydney to the east and south. Both the east and south have recorded their highest numbers of cranes since the index commenced.

Three new civil cranes were observed at the One Sydney Harbour development which are currently undertaking enabling and civil works, an additional crane was added to West Connex (Arnicliff). Crane removals included sites at Dee Why, Kingsgrove M5 and Parramatta Wharf

The commercial sector fell by 27% where 16 cranes were removed and only 4 new cranes erected. Projects topped out included 60 Martin Place, Kaz Tower and Charles Plaza (CBD), BMW/Mini showroom (Rushcutters Bay), Miller Street (North Sydney) and Ironbark Industrial Estate (Smeaton Grange). Commercial cranes now represent 11% of all cranes across Sydney, down from 14%.

The Health sector fell by one crane with the removal of cranes at St Vincent's Private and Somerset Street private hospital in Kingswood. The only new crane erected was at Hornby Hospital.



### KEY SECTORS

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

### OVERALL STATUS

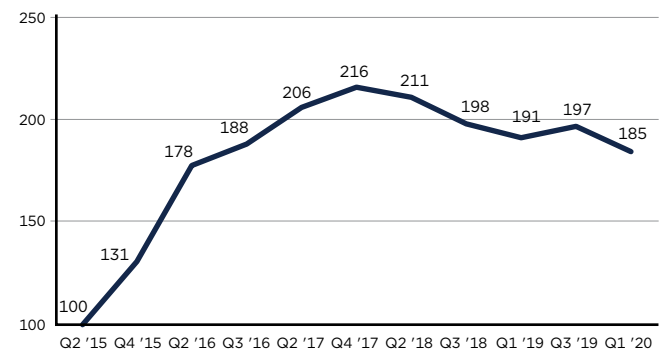


### LEGEND

↑	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	
	Q3 2019	%	+	-	NET	Q1 2020	%
CIVIC	0	0.0%	0	0	0	0	0.0%
CIVIL	18	5.6%	4	-7	-3	15	5.0%
COMMERCIAL	44	13.8%	4	-16	-12	32	10.7%
EDUCATION	12	3.8%	1	-10	-9	3	1.0%
HEALTH	5	1.6%	1	-2	-1	4	1.3%
HOTEL	5	1.6%	0	-2	-2	3	1.0%
MIXED USE	0	0.0%	4	0	4	4	1.3%
RECREATION	2	0.6%	1	-1	0	2	0.7%
RESIDENTIAL	233	73.0%	112	-109	3	236	78.9%
RETAIL	0	0.0%	0	0	0	0	0.0%
<b>TOTAL</b>	<b>319</b>	<b>100.0%</b>	<b>127</b>	<b>-147</b>	<b>-20</b>	<b>299</b>	<b>100.0%</b>

## SYDNEY

The education sector fell by nine cranes bringing the total cranes in the sector to three. Since our last count cranes were removed from Arthur Phillip High School, Chau Chak Wing Museum, Macquarie Uni Clinical Educational Building, North Rocks Public School, Shore College, Susan Wakil Health Building (Stage 1), Ultimo Public School Redevelopment and the Waitara Public School. The only new crane was at the new Inner City High School in Surry Hills.

The hotel sector saw a drop of two cranes. One crane was removed from Star casino and another in Mascot.

Four cranes were added within the mixed use sector at North Sydney, Pyrmont, Redfern and Ultimo

The sector which is the largest user of tower cranes, the residential sector, saw the commencement of 112 new cranes and 109 removed bringing the total count of residential cranes across Sydney to 236.

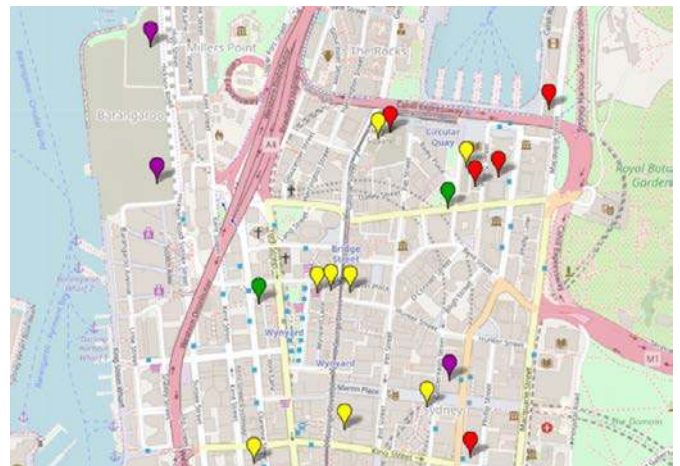
### CRANE ACTIVITY - SYDNEY REGIONS

	OPENING COUNT		MOVEMENT			CLOSING COUNT	
	Q3 2019	%	+	-	NET	Q1 2020	%
INNER SYDNEY	118	37.0%	28	-54	-26	92	30.8%
EAST	28	8.8%	15	-11	4	32	10.7%
NORTH	79	24.8%	22	-39	-17	62	20.7%
SOUTH	33	10.3%	25	-11	14	47	15.7%
WEST	61	19.1%	37	-32	5	66	22.1%
<b>TOTAL</b>	<b>319</b>	<b>100.0%</b>	<b>127</b>	<b>-147</b>	<b>-20</b>	<b>299</b>	<b>100.0%</b>

Across Sydney's five major regions, both inner Sydney and north Sydney recorded crane number falls for Q1 2020 of 26 and 17 respectively. Both regions saw a drop in residential cranes while the south and west regions saw residential cranes increase by 10 and 15.

INNER SYDNEY	Q3 2019	Q1 2020
CIVIC	0	0
CIVIL	10	10
COMMERCIAL	24	18
EDUCATION	4	2
HEALTH	1	0
HOTEL	4	3
MIXED USE	0	2
RECREATION	1	1
RESIDENTIAL	74	56
RETAIL	0	0
<b>TOTAL</b>	<b>118</b>	<b>92</b>

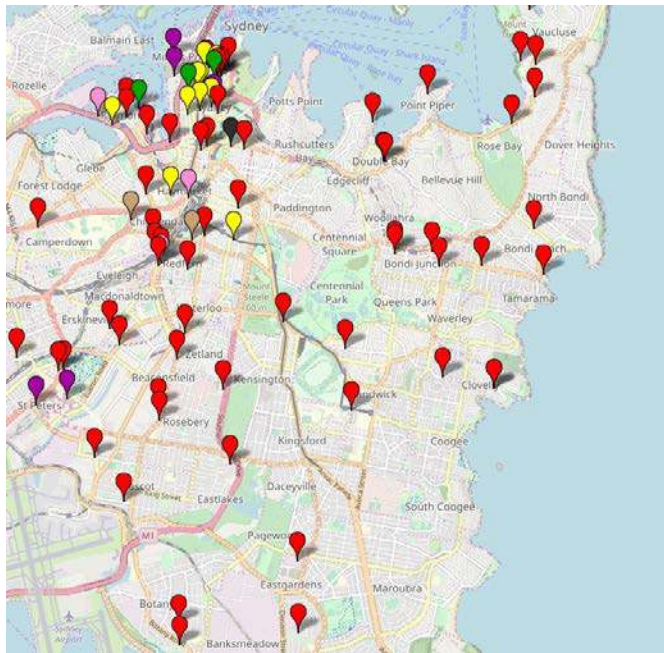
Crane numbers in inner Sydney only saw 28 cranes added and 54 removed for this count, bringing the total to 92. Of the cranes removed, the majority were in the residential and commercial sectors. Thirty eight residential cranes were removed and seven commercial.



## SYDNEY

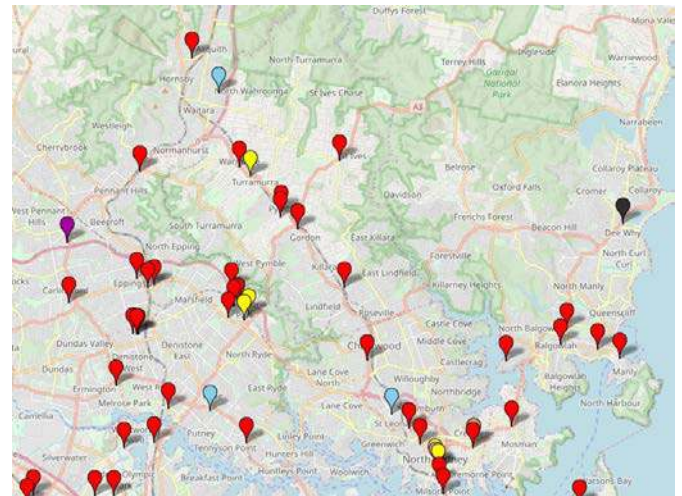
EAST	Q3 2019	Q1 2020
CIVIC	0	0
CIVIL	0	0
COMMERCIAL	0	0
EDUCATION	0	0
HEALTH	0	0
HOTEL	1	0
MIXED USE	0	0
RECREATION	0	0
RESIDENTIAL	27	32
RETAIL	0	0
<b>TOTAL</b>	<b>28</b>	<b>32</b>

The east's crane count rose as a result of stronger residential activity, 15 cranes were added and 10 removed resulting in a growth of five cranes within the region. All cranes within the region are within the residential sector.



NORTH	Q3 2019	Q1 2020
CIVIC	0	0
CIVIL	2	1
COMMERCIAL	9	6
EDUCATION	7	1
HEALTH	2	3
HOTEL	0	0
MIXED USE	0	1
RECREATION	1	1
RESIDENTIAL	58	49
RETAIL	0	0
<b>TOTAL</b>	<b>79</b>	<b>62</b>

Cranes in the north fell by 17 to 62, the lowest number of cranes the north has recorded. Drops in the education and residential sectors contributed to the falling number of cranes. Twenty two cranes commenced on sites and 39 were removed.



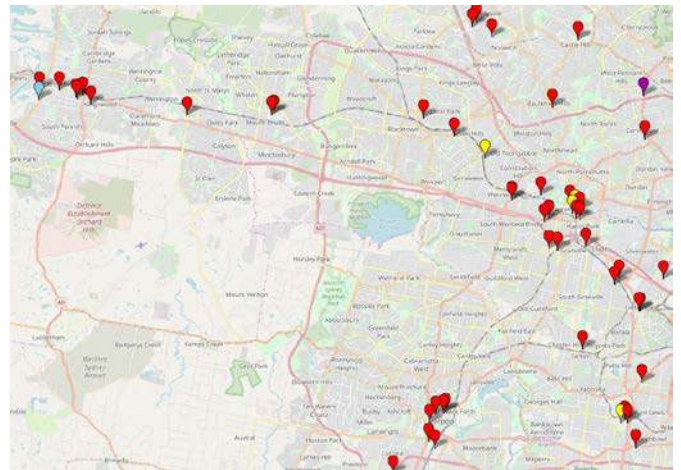
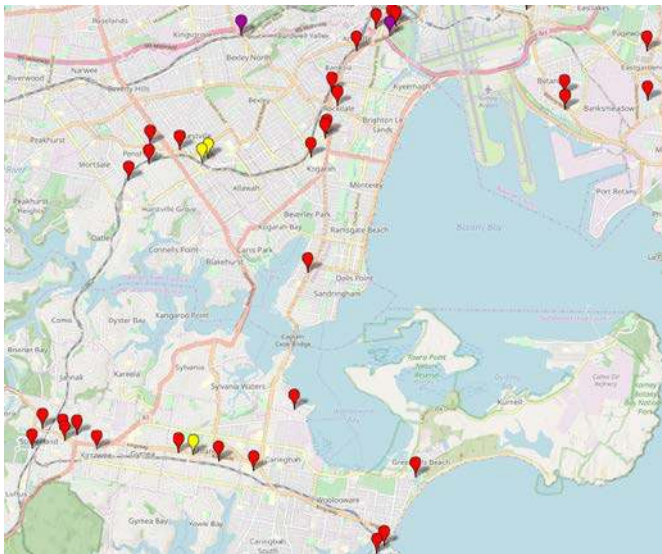
## SYDNEY

SOUTH	Q3 2019	Q1 2020
CIVIC	0	0
CIVIL	3	3
COMMERCIAL	0	3
EDUCATION	0	0
HEALTH	0	0
HOTEL	0	0
MIXED USE	0	1
RECREATION	0	0
RESIDENTIAL	30	40
RETAIL	0	0
<b>TOTAL</b>	<b>33</b>	<b>47</b>

WEST	Q3 2019	Q1 2020
CIVIC	0	0
CIVIL	3	1
COMMERCIAL	11	5
EDUCATION	1	0
HEALTH	2	1
HOTEL	0	0
MIXED USE	0	0
RECREATION	0	0
RESIDENTIAL	44	59
RETAIL	0	0
<b>TOTAL</b>	<b>61</b>	<b>66</b>

Cranes in the south jumped 42% or 14 cranes to reach a new high for the south of 47. Strong growth in residential cranes contributed to the record number. Continued activity along Kingsway is assisting in this growth.

Cranes in the west rose by five cranes for this edition with a strong lift in residential cranes across the region. As non-residential projects were completed, strong commencements within the residential sector offset these removals. A total of 37 new cranes were erected and 32 removed.



## WOLLONGONG

This is Wollongong's second appearance in the RLB Crane Index® with the index falling to 83, representing a loss of three cranes across the city. Two new cranes were placed on sites and five were removed reducing the total region's count to 15.

Cranes were removed from Crownview and the Day Surgery Facility in Urunga Street (Wollongong), the Verge and the Village (Corrimal) and the Molecular & Life Sciences Building (UOW)

New cranes appearing on the skyline are a residential project in Staff Street and a mixed use project in Kenny Street, both in Wollongong.

### KEY SECTORS

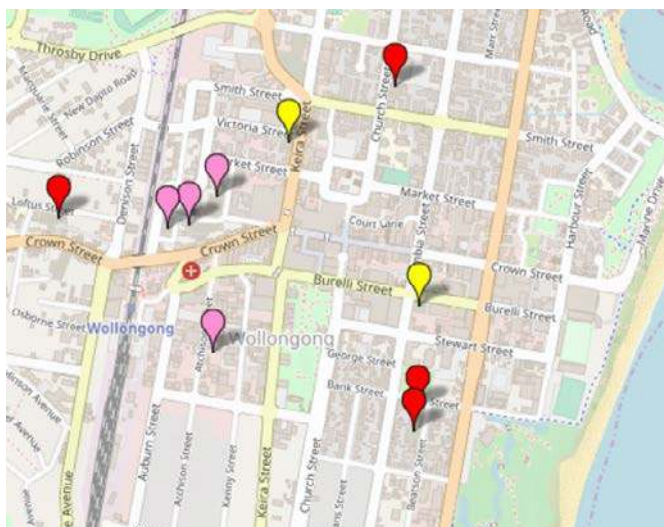
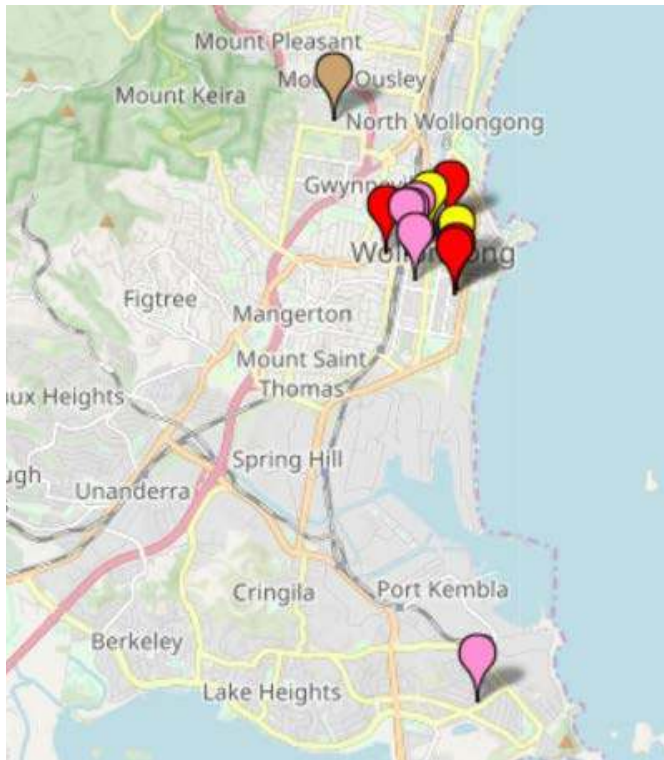
COMMERCIAL	
EDUCATION	
HEALTH	
MIXED USE	
RESIDENTIAL	

### OVERALL STATUS



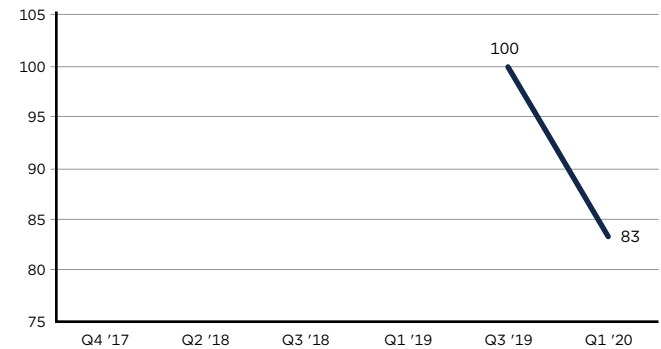
### LEGEND

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

BASE = Q3 2019 = 100



### CRANE ACTIVITY - WOLLONGONG

	OPENING COUNT Q3 2019	%	MOVEMENT + - NET	CLOSING COUNT Q1 2020	%
CIVIC	0	0.0%	0 0 0	0	0.0%
CIVIL	0	0.0%	0 0 0	0	0.0%
COMMERCIAL	2	11.1%	0 0 0	2	13.3%
EDUCATION	2	11.1%	0 -1 -1	1	6.7%
HEALTH	1	5.6%	0 -1 -1	0	0.0%
HOTEL	0	0.0%	0 0 0	0	0.0%
MIXED USE	8	44.4%	1 -2 -1	7	46.7%
RECREATION	0	0.0%	0 0 0	0	0.0%
RESIDENTIAL	5	27.8%	1 -1 0	5	33.3%
RETAIL	0	0.0%	0 0 0	0	0.0%
<b>TOTAL</b>	<b>18</b>	<b>100.0%</b>	<b>2 -5 -3</b>	<b>15</b>	<b>100.0%</b>



## 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).

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

where Crane Index<sub>cp</sub> is the RLB Crane Index<sub>cp</sub> for the current period and Crane Index<sub>pp</sub> is the RLB Crane Index® for the previous period.

## HEATMAPS

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 number 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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