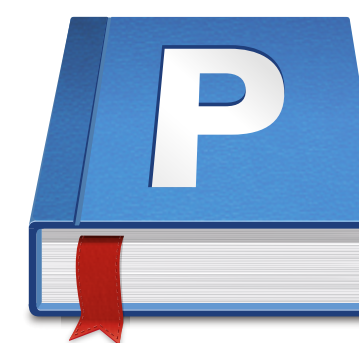


# Global Parking Index 2019



**Parkopedia**  
Helping You Park

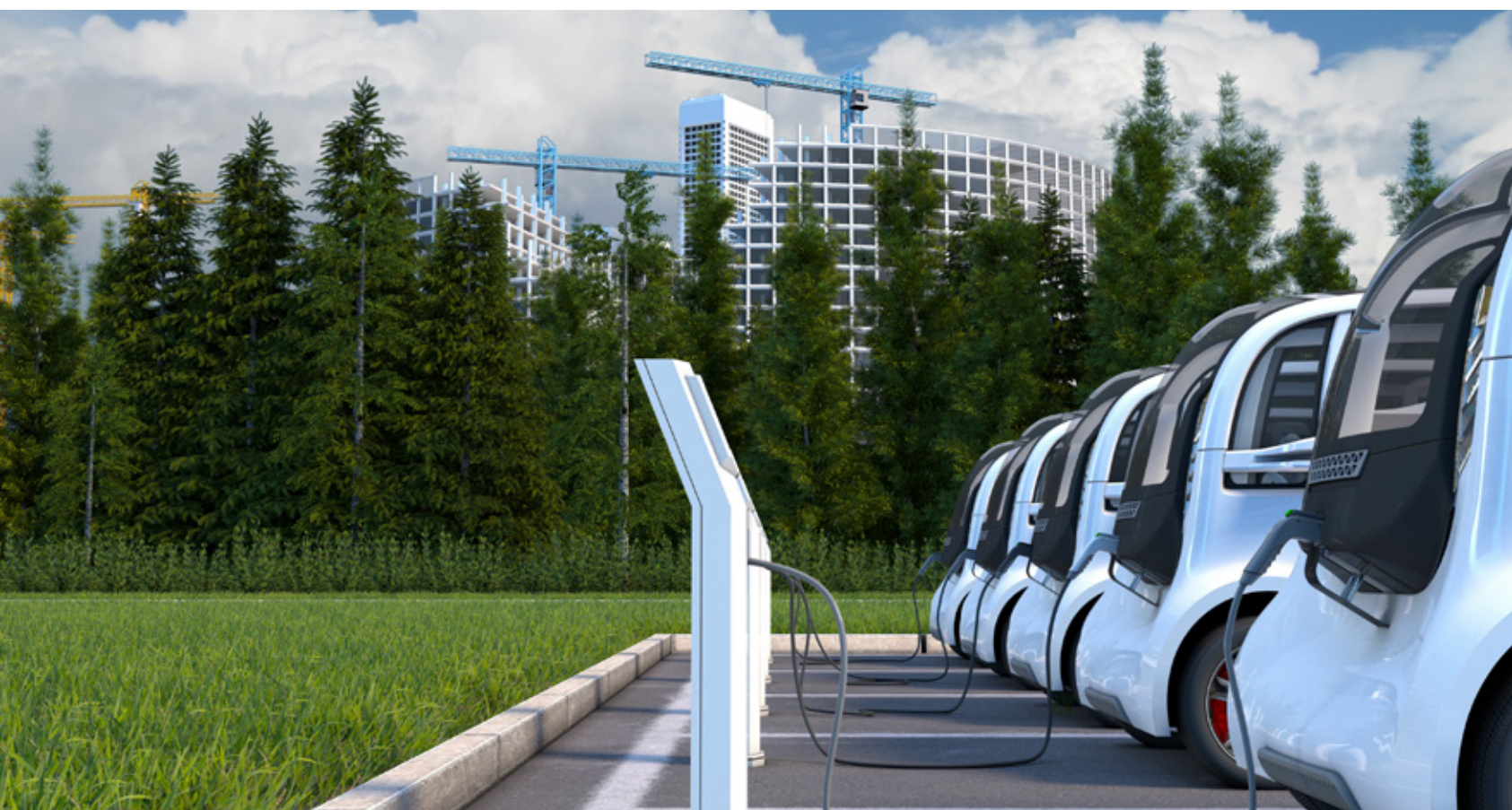
# Contents



<b>1.0 Executive Summary</b>	<b>03</b>	<b>5.0 Monthly Pricing</b>	<b>26</b>	6.2.6 Milan	50
<b>2.0 Methodology</b>	<b>05</b>	<b>5.1 Monthly Off-Street</b>		6.2.7 Moscow	51
<b>3.0 Two Hour Pricing</b>	<b>07</b>	5.1.1 Most Expensive Cities (USD)	27	6.2.8 Munich	52
<b>3.1 2-hour Off-Street</b>		5.1.2 Top 5 Cities per Region (USD)	28	6.2.9 Paris	53
3.1.1 Most Expensive Cities (USD)	08	5.1.3 Most Expensive Cities (PPP)	29	6.2.10 Stockholm	54
3.1.2 Top 5 Cities by Region (USD)	09	5.1.4 Most Expensive Countries (USD)	30	<b>6.3 Asia-Pacific</b>	
3.1.3 Most Expensive Cities (PPP)	10	5.1.5 Most Expensive Countries (PPP)	31	6.3.1 Hong Kong	55
3.1.4 Most Expensive Countries (USD)	11	5.1.6 Countries with greatest 2-year change	32	6.3.2 Seoul	56
3.1.5 Most Expensive Countries (PPP)	12	<b>6.0 Selected Cities: Price, Density and Estimated Yield</b>	<b>33</b>	6.3.3 Singapore	57
3.1.6 Countries with greatest 2-year change	13	<b>6.1 North America</b>		6.3.4 Sydney	58
<b>3.2 2-hour On-Street</b>		6.1.1 Atlanta	35	6.3.5 Tokyo	59
3.2.1 Most Expensive Cities (USD)	14	6.1.2 Boston	36	<b>7.0 About Parkopedia</b>	<b>60</b>
3.2.2 Top 5 Cities by Region (USD)	15	6.1.3 Chicago	37		
3.2.3 Most Expensive Cities (PPP)	16	6.1.4 Detroit	38		
3.2.4 Most Expensive Countries (USD)	17	6.1.5 Los Angeles	39		
3.2.5 Most Expensive Countries (PPP)	18	6.1.6 Miami	40		
<b>4.0 Daily Pricing</b>	<b>19</b>	6.1.7 New York	41		
<b>4.1 Daily Off-Street</b>		6.1.8 San Francisco	42		
4.1.1 Most Expensive Cities (USD)	20	6.1.9 Seattle	43		
4.1.2 Top 5 Cities per Region (USD)	21	6.1.10 Washington DC	44		
4.1.3 Most Expensive Cities (PPP)	22	<b>6.2 Europe</b>			
4.1.4 Most Expensive Countries (USD)	23	6.2.1 Amsterdam	45		
4.1.5 Most Expensive Countries (PPP)	24	6.2.2 Barcelona	46		
4.1.6 Countries with greatest 2-year change	25	6.2.3 Berlin	47		
		6.2.4 Brussels	48		
		6.2.5 London	49		



# 1.0 Executive Summary



# 1.0 Executive Summary



In 2019, New York defends its reputation as the world's most expensive city for short-term off-street parking, Sydney follows in second place, and the two cities maintain a clear price separation above other cities. As in 2017, London and Tokyo are the only non-US and non-Australian cities to make the top 10 list for 2-hour off-street parking. However, after adjusting the prices for purchasing power parity, a much greater proportion of the top 50 average 2-hour off-street prices come from cities outside of the USA and Australia. Despite this, Australia retains its title as the most expensive country in the world for short-term off-street parking, with the USA remaining in second place.

The most expensive cities for short-term on-street parking globally can be found in Europe. Amsterdam is the only city in the top 50 for both on-street and off-street 2-hour prices where off-street parking is cheaper than for short-term on-street parking. In most other cities, and particularly in Chicago, London, Melbourne, New York, Paris and Sydney, 2-hour off-street parking is more expensive than 2-hour on-street prices. This trend is mirrored at country level in the USA, Australia and New Zealand, where the 2-hour off-street prices are more than 200% higher than the on-street average.

This is reflective of the reluctance of these city governments to raise the highly visible price of on-street parking.

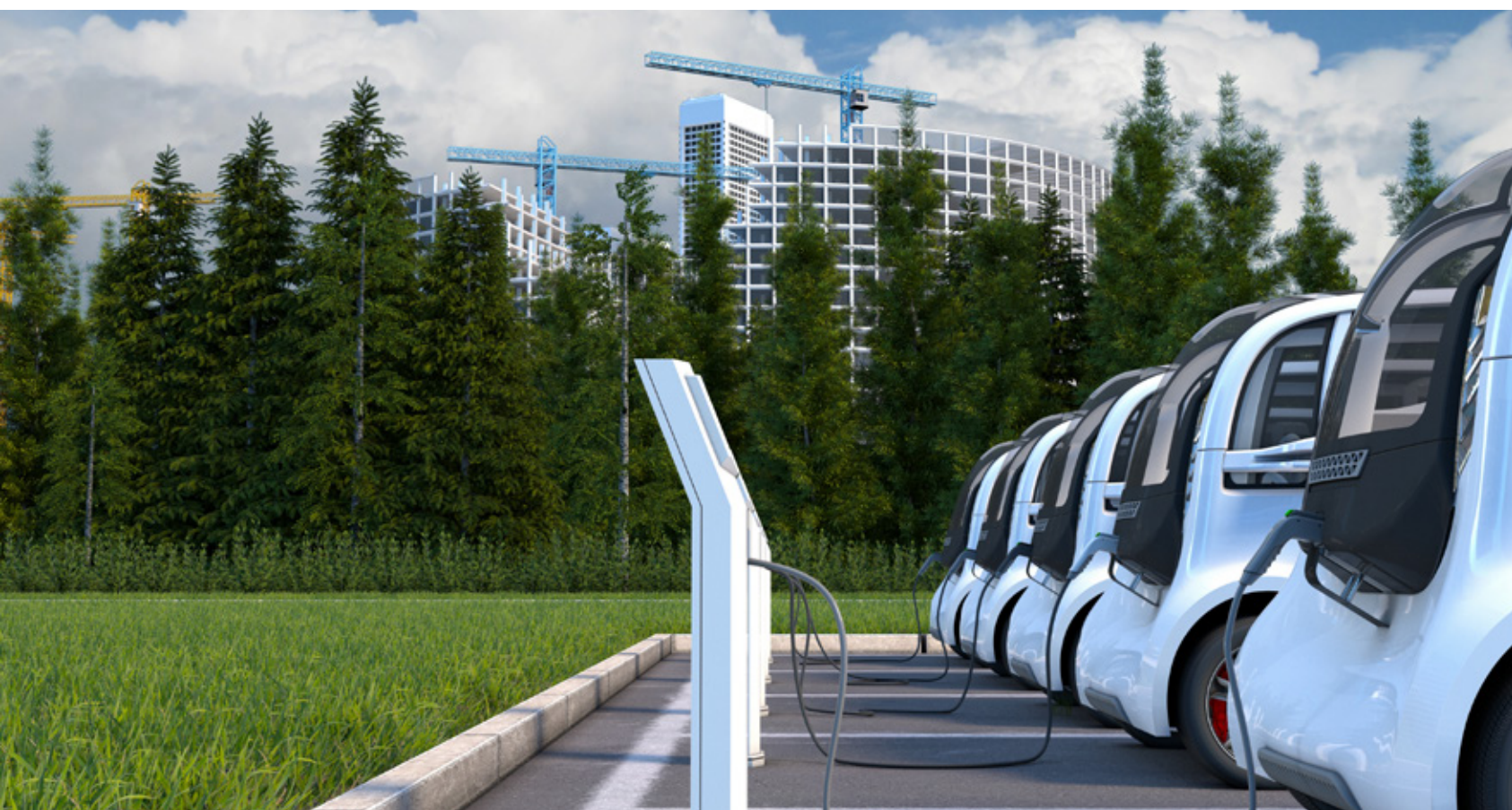
The top 3 cities for daily parking in 2019 have not changed since 2017, with London, New York and Sydney all featuring. Six out of the top 10 cities for daily pricing are from the USA and Australia. Interestingly though, after adjusting for purchasing parity power, Hong Kong, Moscow and Osaka break into the top 15 for daily off-street prices.

London, New York and Zurich retain their accolades for having the world's most expensive monthly parking, although the rates for the top two are nearly double that of Zurich. After purchasing parity power adjustment, Hong Kong moves from fourth to second place in the ranking and Moscow moves up to fourth.

Due to the proliferation of cheap long-term parking in the USA, it features eighth for monthly pricing, despite New York being one of the most expensive cities for parking globally. After adjustment for purchasing power parity, Hong Kong remains the most expensive country for long-term parking, with an average monthly price in real terms almost 55% above the second place country, Russia.



## 2.0 Methodology



# 2.0 Methodology



Prices were calculated as the mean of corresponding parking rates for all publicly available off-street and on-street parking facilities in a city centre, based on Parkopedia's global dataset of 70 million parking spaces across 89 countries:

**2 hour parking:** 2 hour stay on a weekday (1100-1300 on a Wednesday)

**Daily parking:** 8 hour stay on a weekday (0930-1730 on a Wednesday)

**Monthly parking:** Unreserved monthly rate (a space is guaranteed but it is not a dedicated space)

To determine the relative cost of parking in each location, local prices were converted into \$USD using a 3-month average (April-July 2019) currency exchange rate.

To provide a comparison of the cost of parking across the globe, prices have been adjusted based on the theory of purchasing-power-parity (PPP), using the "[Big Mac index](#)" PPP January 2019.

To provide a comparison of price changes compared with [Parkopedia's 2017 Global Parking Index](#), calculations were done in local currency to remove any intervening exchange rate changes, and displayed as a percentage increase/decrease.

Average price is calculated as:

$$\frac{\sum_{i=1}^n Price_i}{n}$$

Average density is calculated as:

$$\frac{\sum_{i=1}^n Spaces_i}{Area\ of\ Hexagon}$$

Average yield is calculated as:

$$\frac{\sum_{i=1}^n (Price_i \times Occupancy_i \times Spaces_i)}{\sum_{i=1}^n Spaces_i}$$

Occupancy levels are based on [Parkopedia's dynamic data](#), a combination of real-time data and sophisticated predictive models to determine parking space availability at any given time.



## 3.0 Two Hour Pricing



# 3.1.1 2-hour Off-Street: Most Expensive Cities (USD)



Rank	Country	City	Average 2-hr price USD	Rank	Country	City	Average 2-hr price USD
1	US	New York	\$34.94	26	JP	Osaka	\$9.09
2	AU	Sydney	\$27.37	27	US	Nashville	\$8.87
3	AU	Brisbane	\$20.55	28	US	Austin	\$8.73
4	US	Chicago	\$20.08	29	US	Jersey City	\$8.52
5	AU	Melbourne	\$19.87	30	US	Oakland	\$8.37
6	US	Boston	\$18.36	31	JP	Yokohama	\$8.32
7	UK	London	\$16.92	32	US	Indianapolis	\$8.06
8	US	Washington DC	\$15.56	33	US	Houston	\$7.94
9	US	Philadelphia	\$14.77	34	NZ	Wellington	\$7.92
10	JP	Tokyo	\$12.09	35	US	Honolulu	\$7.89
11	US	Denver	\$11.87	36	US	New Orleans	\$7.85
12	NL	Amsterdam	\$11.11	37	US	Providence	\$7.85
13	US	Miami	\$11.10	38	KR	Seoul	\$7.80
14	US	San Francisco	\$10.99	39	US	Sacramento	\$7.80
15	US	San Diego	\$10.80	40	US	Pittsburgh	\$7.73
16	US	Baltimore	\$10.45	41	FI	Helsinki	\$7.73
17	FR	Paris	\$10.10	42	US	Portland	\$7.62
18	US	Newark	\$10.10	43	SE	Stockholm	\$7.53
19	NZ	Auckland	\$9.77	44	ES	Barcelona	\$7.37
20	CA	Calgary	\$9.69	45	GR	Athens	\$7.30
21	CA	Montreal	\$9.66	46	NO	Drammen	\$7.26
22	US	Los Angeles	\$9.56	47	US	Minneapolis	\$7.21
23	CA	Toronto	\$9.51	48	US	Bellevue	\$7.15
24	US	Seattle	\$9.34	49	US	San Jose	\$7.12
25	NO	Oslo	\$9.25	50	IT	Milan	\$6.96

In 2019, New York maintains its position as the world's most expensive city for 2-hour parking versus 2017, with a 6% increase in average 2-hour off-street parking prices, from \$32.97 to \$34.94. Sydney remains in second place, and the two cities maintain a clear price separation above other cities.

As in 2017, London and Tokyo are the only non-US and non-Australian cities to make the top 10 list.

Similarly, Germany continues to have relatively cheap parking and once again, the most expensive German city is Munich which ranked 88th globally, with an average cost of \$5.51, or 84% below comparable pricing in New York City.



# 3.1.2 2-hour Off-Street: Top 5 Cities by Region (USD)



# 3.1.3 2-hour Off-Street: Most Expensive Cities (PPP)



Rank	Country	City	Average 2-hr price PPP	PPP impact on ranking vs USD ranking	Rank	Country	City	Average 2-hr price PPP	PPP impact on ranking vs USD ranking
1	AU	Sydney	\$36.66	+ 1	26	US	San Diego	\$10.80	- 11
2	US	New York	\$34.94	- 1	27	NZ	Wellington	\$10.73	+ 7
3	AU	Brisbane	\$27.53	No Change	28	CA	Toronto	\$10.73	- 5
4	AU	Melbourne	\$26.61	+ 1	29	US	Baltimore	\$10.45	- 13
5	UK	London	\$23.19	+ 2	30	JP	Kawasaki	\$10.18	+ 37
6	US	Chicago	\$20.08	- 2	31	JP	Sapporo	\$10.17	+ 37
7	JP	Tokyo	\$19.35	+ 3	32	US	Newark	\$10.10	- 14
8	US	Boston	\$18.36	- 2	33	FI	Helsinki	\$9.67	+ 8
9	US	Washington DC	\$15.56	- 1	34	JP	Saitama	\$9.64	+ 41
10	CN	Hong Kong	\$14.91	+ 46	35	JP	Kobe	\$9.58	+ 42
11	US	Philadelphia	\$14.77	- 2	36	US	Los Angeles	\$9.56	- 14
12	JP	Osaka	\$14.55	+ 14	37	US	Seattle	\$9.34	- 13
13	NL	Amsterdam	\$13.09	- 1	38	JP	Nagoya	\$9.29	+ 43
14	JP	Yokohama	\$13.32	+ 17	39	ES	Barcelona	\$9.21	+ 5
15	NZ	Auckland	\$13.25	+ 4	40	GR	Athens	\$9.13	+ 5
16	FR	Paris	\$12.64	+ 1	41	US	Nashville	\$8.87	- 14
17	RU	Moscow	\$12.46	+ 112	42	US	Austin	\$8.73	- 14
18	US	Denver	\$11.87	- 7	43	IT	Milan	\$8.71	+ 7
19	KR	Seoul	\$11.70	+ 19	44	AT	Vienna	\$8.64	+ 10
20	JP	Kyoto	\$11.13	+ 31	45	NO	Drammen	\$8.58	+ 1
21	US	Miami	\$11.10	- 8	46	AU	Adelaide	\$8.58	+ 19
22	US	San Francisco	\$10.99	- 8	47	US	Jersey City	\$8.52	- 18
23	NO	Oslo	\$10.94	+ 2	48	NL	Utrecht	\$8.49	+ 10
24	CA	Calgary	\$10.94	- 4	49	US	Oakland	\$8.37	- 19
25	CA	Montreal	\$10.90	- 4	50	ES	Madrid	\$8.33	+ 9

Adjusting the pricing for purchasing power parity has the effect of re-ordering the top 2 cities, Sydney and New York.

Additionally, a much greater proportion of the top 50 cities come from outside of the USA and Australia, showing the relative expense of parking in those cities and minimising the impact of currency exchange rates.

Notable cities which have moved significantly up the rankings (more than 10 places) include Hong Kong, Moscow, Seoul and several Japanese cities (Yokohama, Kyoto, Sapporo, Kawasaki, Saitama, Kobe, Nagoya). As a result, the majority of those cities which have moved down in ranking are from North America.

# 3.1.4 2-hour Off-Street: Most Expensive Countries (USD)



Rank	Country	Average 2-hr price USD	2019 vs 2017 % change (local currency)	Rank	Country	Average 2-hr price USD	2019 vs 2017 % change (local currency)
1	Australia	\$15.65	8.50%	26	France	\$3.61	1.41%
2	United States	\$9.68	7.28%	27	Belgium	\$3.28	2.63%
3	New Zealand	\$8.16	15.28%	28	Brazil	\$3.22	2.71%
4	Japan	\$7.54	8.03%	29	Portugal	\$3.06	1.50%
5	Hong Kong SAR	\$6.74	10.97%	30	Sweden	\$3.05	11.92%
6	Norway	\$6.61	11.42%	31	Germany	\$2.76	6.23%
7	Netherlands	\$6.60	8.69%	32	Argentina	\$2.51	99.85%
8	Canada	\$6.17	9.28%	33	Slovakia	\$2.45	15.82%
9	Monaco	\$5.93	n/a	34	Colombia	\$2.42	24.95%
10	Austria	\$5.70	1.26%	35	Hungary	\$2.40	11.13%
11	Ireland	\$5.47	7.99%	36	Singapore	\$2.15	9.76%
12	Greece	\$5.14	2.31%	37	Mexico	\$2.02	9.42%
13	Spain	\$5.02	2.56%	38	Peru	\$1.99	n/a
14	South Korea	\$4.99	4.82%	39	Slovenia	\$1.99	1.73%
15	Denmark	\$4.89	12.03%	40	Ecuador	\$1.91	n/a
16	Uruguay	\$4.58	6.97%	41	United Arab Emirates	\$1.83	54.17%
17	Chile	\$4.52	34.40%	42	Bulgaria	\$1.82	6.69%
18	Switzerland	\$4.50	4.48%	43	Czech Republic	\$1.81	10.34%
19	Israel	\$4.34	n/a	44	Turkey	\$1.74	10.71%
20	Russia	\$4.14	8.38%	45	Malaysia	\$1.68	16.76%
21	Luxembourg	\$4.08	n/a	46	Croatia	\$1.65	51.95%
22	United Kingdom	\$3.90	8.62%	47	Poland	\$1.65	1.56%
23	Finland	\$3.88	13.37%	48	Romania	\$1.56	7.91%
24	Italy	\$3.69	5.13%	49	Serbia	\$1.42	12.01%
25	Estonia	\$3.64	12.60%	50	Lithuania	\$1.23	10.60%

In 2019, Australia retains its title as the most expensive country in the world for short-term parking, with the USA remaining in second place.

Australian prices have not increased as much as in New Zealand, which is reflected in New Zealand's move from fourth in 2017 to third in 2019, pushing Japan down one place.

It should be noted that the high % increase for Argentina versus 2017 pricing reflects the high levels of inflation.

# 3.1.5 2-hour Off-Street: Most Expensive Countries (PPP)



Rank	Country	Average 2-hr price PPP	PPP impact on ranking vs USD ranking	Rank	Country	Average 2-hr price PPP	PPP impact on ranking vs USD ranking
1	Australia	\$20.96	No change	26	Malaysia	\$4.53	+ 19
2	Hong Kong SAR	\$14.76	+ 3	27	France	\$4.51	- 1
3	Japan	\$12.07	+ 1	28	Mexico	\$4.45	+ 9
4	Russia	\$11.72	+ 16	29	Hungary	\$4.41	+ 6
5	New Zealand	\$11.06	- 2	30	Turkey	\$4.19	+ 14
6	United States	\$9.68	- 4	31	Brazil	\$4.11	- 3
7	Netherlands	\$8.25	No change	32	Belgium	\$4.11	- 5
8	Norway	\$7.82	- 2	33	Romania	\$4.06	+ 15
9	South Korea	\$7.49	+ 5	34	Switzerland	\$3.96	- 16
10	Monaco	\$7.42	- 1	35	Colombia	\$3.84	- 1
11	Austria	\$7.13	- 1	36	Portugal	\$3.83	- 7
12	Canada	\$6.96	- 4	37	Peru	\$3.61	+ 1
13	Ireland	\$6.85	- 2	38	Germany	\$3.45	- 7
14	Chile	\$6.78	+ 3	39	Poland	\$3.34	+ 8
15	Greece	\$6.43	- 3	40	Sweden	\$3.24	- 10
16	Spain	\$6.28	- 3	41	Slovakia	\$3.06	- 8
17	Denmark	\$6.21	- 2	42	Singapore	\$2.90	- 6
18	Uruguay	\$5.63	- 2	43	Croatia	\$2.84	+ 3
19	United Kingdom	\$5.35	+ 3	44	Czech Republic	\$2.79	- 1
20	Israel	\$5.25	- 1	45	United Arab Emirates	\$2.62	- 4
21	Argentina	\$5.23	+ 11	46	Slovenia	\$2.48	- 7
22	Luxembourg	\$5.10	- 1	47	Ecuador	\$1.91	- 7
23	Finland	\$4.85	No change	48	South Africa	\$1.69	+ 4
24	Italy	\$4.61	No change	49	Lithuania	\$1.54	+ 1
25	Estonia	\$4.55	No change	50	India	\$0.18	+ 3

When adjusting the pricing to account for purchasing power parity, the biggest upward impact can be seen in Russia (+16 places), Malaysia (+19 places), Turkey (+14 places), and Romania (+15 places), which all have a Big-Mac index of well over 100%.

Switzerland sees a significant drop in ranking by 16 places, due to a negative adjustment under PPP.

Other drops in ranking are due to relative ranking placement, as opposed to negative adjustments under the Big-Mac Index.

# 3.1.6 2-hour Off-Street: Countries with greatest 2-year change



Rank	Country	2019 vs 2017 % price change (local currency)	Rank	Country	2019 vs 2017 % price change (local currency)
1	Argentina	99.85%	25	United Kingdom	8.62%
2	United Arab Emirates	54.17%	26	Austria	8.50%
3	Croatia	51.95%	27	Russia	8.38%
4	Chile	34.40%	28	Japan	8.03%
5	Colombia	24.95%	29	Ireland	7.99%
6	Malaysia	16.76%	30	Romania	7.91%
7	Slovakia	15.82%	31	United States	7.28%
8	New Zealand	15.28%	32	Uruguay	6.97%
9	Finland	13.37%	33	Bulgaria	6.69%
10	Estonia	12.60%	34	Germany	6.23%
11	South Africa	12.22%	35	Italy	5.13%
12	Denmark	12.03%	36	South Korea	4.82%
13	Serbia	12.01%	37	Switzerland	4.48%
14	Sweden	11.92%	38	Latvia	3.64%
15	Norway	11.42%	39	Brazil	2.71%
16	Hungary	11.13%	40	Belgium	2.63%
17	Hong Kong SAR	10.97%	41	Spain	2.56%
18	Turkey	10.71%	42	Greece	2.31%
19	Lithuania	10.60%	43	North Macedonia	2.09%
20	Czech Republic	10.34%	44	Slovenia	1.73%
21	Singapore	9.76%	45	Poland	1.56%
22	Mexico	9.42%	46	Portugal	1.50%
23	Canada	9.28%	47	France	1.41%
24	Netherlands	8.69%	48	Austria	1.26%

The high percentage increase for Argentina 2-hour off-street parking prices versus 2017 prices reflects the high levels of annual inflation that Argentina has experienced, though it still ranks at 32nd based on USD and 21st when adjusted for purchasing power parity.

Parking in the UAE and Croatia is still cheap at \$1.83/\$2.62 with PPP adjustment and \$1.65/\$2.84 respectively, but relatively small adjustments since 2017 in monetary terms have resulted in percentage increases in excess of 50%.

Increases of parking rates below inflation can be seen in particular in countries hit by the Euro debt crisis such as Greece, Spain, Portugal, but also in Austria and France.

# 3.2.1 2-hour On-Street: Most Expensive Cities (USD)



Rank	Country	City	Average 2-hr price USD	Rank	Country	City	Average 2-hr price USD
1	NL	Amsterdam	\$14.61	26	AT	Vienna	\$4.72
2	UK	London	\$11.51	27	ES	Madrid	\$4.63
3	FR	Paris	\$7.63	28	UK	Oxford	\$4.36
4	UK	Edinburgh	\$7.30	29	US	Washington DC	\$4.33
5	NL	Utrecht	\$7.27	30	US	Miami Beach	\$4.25
6	NO	Trondheim	\$7.11	31	CA	Montréal	\$4.23
7	AU	Sydney	\$7.01	32	IT	Milan	\$4.22
8	FI	Helsinki	\$6.99	33	FR	Bordeaux	\$4.21
9	US	New York	\$6.90	34	UK	Southampton	\$4.19
10	NO	Oslo	\$6.67	35	NZ	Christchurch	\$4.04
11	RU	Moscow	\$6.37	36	UK	Bristol	\$4.02
12	US	Seattle	\$6.30	37	US	Salt Lake City	\$4.00
13	UK	Manchester	\$6.07	38	DK	Copenhagen	\$3.99
14	NO	Kristiansand	\$6.05	39	US	Los Angeles	\$3.96
15	FR	Lyon	\$5.88	40	IT	Genoa	\$3.96
16	ES	Barcelona	\$5.87	41	US	Pittsburgh	\$3.94
17	US	New Orleans	\$5.58	42	UK	Bath	\$3.93
18	US	Chicago	\$5.52	43	AT	Graz	\$3.93
19	DE	Cologne	\$5.49	44	FI	Turku	\$3.92
20	AU	Melbourne	\$5.17	45	CA	Toronto	\$3.91
21	AU	Perth	\$5.07	46	NZ	Wellington	\$3.90
22	FR	Rennes	\$5.04	47	CA	Vancouver	\$3.89
23	NL	Rotterdam	\$5.03	48	US	Miami	\$3.85
24	UK	Glasgow	\$4.85	49	US	Atlanta	\$3.84
25	DE	Dusseldorf	\$4.80	50	ES	Terrassa	\$3.80

The most expensive cities for short-term on-street parking globally can be found in Europe. Amsterdam, which has a stated policy of making the city-centre increasingly car-free, is the only city in the top 50 for both on-street and off-street 2-hour prices where off-street parking is cheaper than on-street (-24%).

In most other cities, off-street parking is more expensive than on-street. In particular, New York (+406%), Chicago (+264%), London (+47%), Melbourne (+284%), Sydney (+290%) and Paris (+32%) all have a significantly higher overall cost of parking off-street.

Outside of Australia and New Zealand, Asia-Pacific cities do not feature in the top 50 list, due to the lack of on-street parking.

# 3.2.2 2-hour On-Street: Top 5 Cities by Region (USD)



# 3.2.3 2-hour On-Street: Most Expensive Cities (PPP)



Rank	Country	City	Average 2-hr price PPP	PPP impact on ranking vs USD ranking	Rank	Country	City	Average 2-hr price PPP	PPP impact on ranking vs USD ranking
1	NL	Amsterdam	\$18.28	No Change	26	ES	Madrid	\$5.80	+ 1
2	RU	Moscow	\$18.04	+ 9	27	UK	Southampton	\$5.74	+ 7
3	UK	London	\$15.77	- 1	28	US	New Orleans	\$5.58	- 11
4	UK	Edinburgh	\$10.00	No Change	29	US	Chicago	\$5.52	- 11
5	FR	Paris	\$9.54	- 2	30	UK	Bristol	\$5.51	+ 6
6	AU	Sydney	\$9.39	+ 1	31	NZ	Christchurch	\$5.47	+ 4
7	NL	Utrecht	\$9.09	- 2	32	UK	Bath	\$5.39	+ 10
8	FI	Helsinki	\$8.74	No Change	33	NZ	Wellington	\$5.29	+ 13
9	NO	Trondheim	\$8.41	- 3	34	IT	Milan	\$5.28	- 2
10	UK	Manchester	\$8.32	+ 3	35	FR	Bordeaux	\$5.27	- 2
11	NO	Oslo	\$7.88	- 1	36	DK	Copenhagen	\$5.07	+ 2
12	FR	Lyon	\$7.36	+ 3	37	CZ	České Budějovice	\$4.99	+ 33
13	ES	Barcelona	\$7.34	+3	38	IT	Genoa	\$4.95	+ 2
14	NO	Kristiansand	\$7.15	No Change	39	AT	Graz	\$4.92	+ 4
15	AU	Melbourne	\$6.92	+ 5	40	UK	Liverpool	\$4.91	+ 14
16	US	New York	\$6.90	- 7	41	FI	Turku	\$4.90	+ 3
17	DE	Cologne	\$6.87	+ 2	42	HU	Debrecen	\$4.87	+ 66
18	AU	Perth	\$6.79	+ 3	43	UK	Belfast	\$4.81	+ 15
19	UK	Glasgow	\$6.65	+ 5	44	CA	Montréal	\$4.78	- 13
20	FR	Rennes	\$6.30	+ 2	45	ES	Terrassa	\$4.75	+ 5
21	US	Seattle	\$6.30	- 9	46	HU	Budapest	\$4.73	+ 69
22	NL	Rotterdam	\$6.29	+ 1	47	HU	Szeged	\$4.59	+ 75
23	DE	Dusseldorf	\$6.00	+ 2	48	IT	Bologna	\$4.49	+ 4
24	UK	Oxford	\$5.98	+ 4	49	NL	Eindhoven	\$4.48	+ 4
25	AT	Vienna	\$5.90	+ 1	50	CA	Toronto	\$4.41	- 5

When prices are adjusted for purchasing power parity, Moscow becomes the second most expensive city for short-term on-street parking, leapfrogging nine places in the ranking.

Additionally, there are new entries in the bottom half of the list, where the adjustment results in a significant uplift on prices for cities in the Czech Republic, Hungary and France.



# 3.2.4 2-hour On-Street: Most Expensive Countries (USD)



Rank	Country	Average 2-hour price USD	Rank	Country	Average 2-hour price USD
1	Netherlands	\$6.94	22	Germany	\$2.40
2	Norway	\$6.53	23	Croatia	\$2.30
3	Finland	\$5.69	24	Slovakia	\$2.14
4	France	\$5.07	25	South Korea	\$2.03
5	United Kingdom	\$4.69	26	Estonia	\$2.02
6	Russia	\$4.55	27	Greece	\$2.02
7	Austria	\$4.35	28	Singapore	\$1.93
8	Australia	\$4.27	29	Czech Republic	\$1.85
9	Spain	\$3.54	30	Bulgaria	\$1.84
10	Canada	\$3.50	31	Lithuania	\$1.79
11	Denmark	\$3.49	32	Poland	\$1.63
12	Israel	\$3.14	33	Turkey	\$1.47
13	Belgium	\$2.90	34	Slovenia	\$1.27
14	United States	\$2.78	35	United Arab Emirates	\$1.22
15	Luxembourg	\$2.73	36	Iceland	\$1.12
16	Italy	\$2.65	37	Montenegro	\$0.94
17	Sweden	\$2.61	38	Mexico	\$0.84
18	New Zealand	\$2.58	39	Serbia	\$0.81
19	Brazil	\$2.49	40	Ukraine	\$0.65
20	Hungary	\$2.49	41	Romania	\$0.57
21	Switzerland	\$2.44			

With the exception of Norway, the top 6 countries in this list have more expensive short-term on-street parking compared with off-street prices (between 4.9% more expensive in The Netherlands and 31.8% more expensive in Finland).

The relatively high on-street prices are a reflection of local government policies to make selected city-centres car-free by raising on-street parking prices and removing parking bays, as well as the overall high per capita income in these countries.

Relatively higher on-street prices in France (38.5%) compared to off-street prices are now becoming effective, as the recent changes in enforcement rules and fines have had a significant impact.

Conversely, in Australia, New Zealand, and the USA, the 2-hour off-street prices are more than 200% higher than the off-street average, reflective of the reluctance of city governments to raise the highly visible price of on-street parking.

# 3.2.5 2-hour On-Street: Most Expensive Countries (PPP)



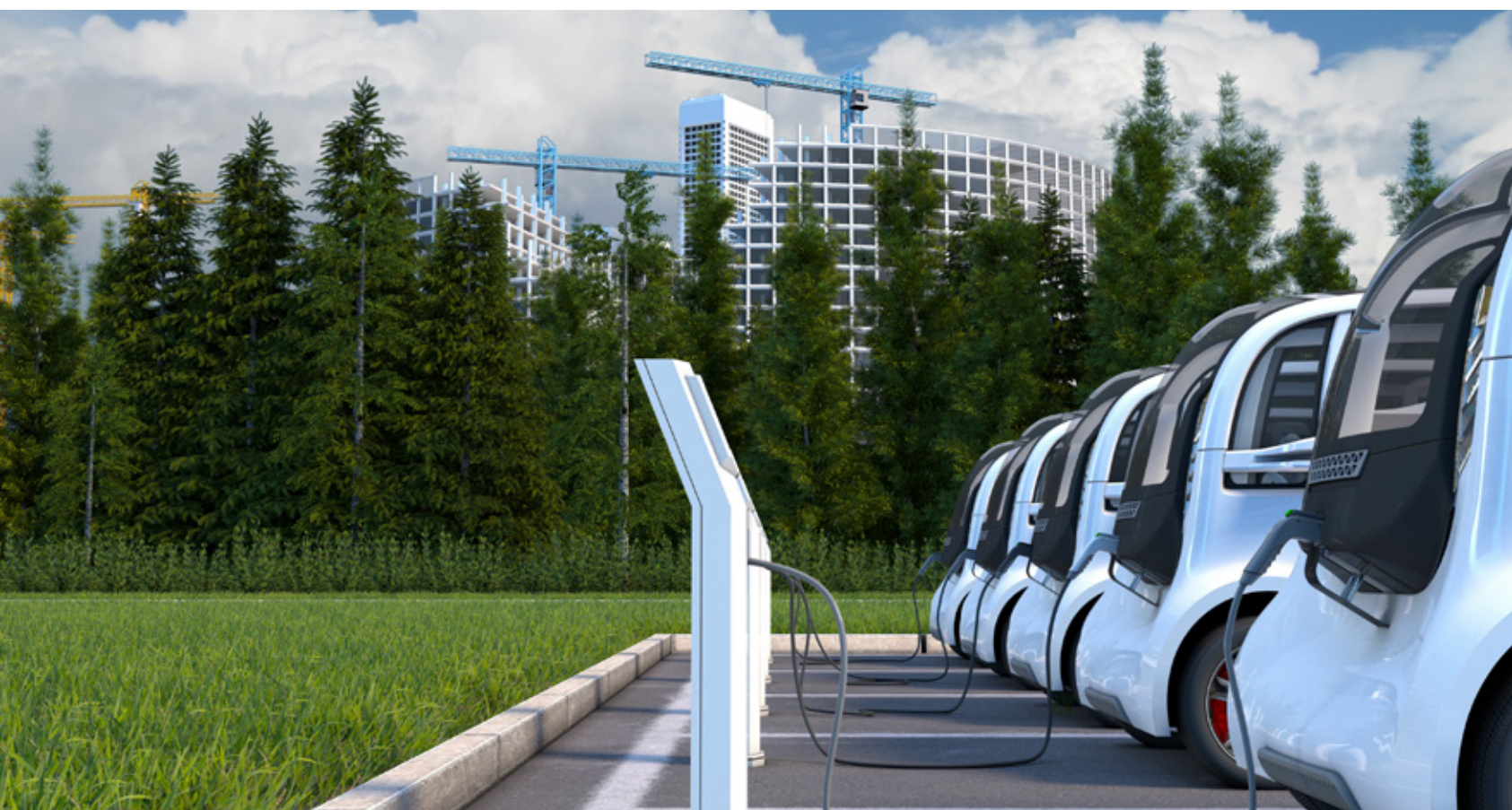
Rank	Country	Average 2-hr price PPP	PPP impact on ranking vs USD ranking	Rank	Country	Average 2-hr price PPP	PPP impact on ranking vs USD ranking
1	Russia	\$12.89	+ 5	20	Poland	\$3.30	+ 12
2	Netherlands	\$8.69	- 1	21	Brazil	\$3.18	- 2
3	Norway	\$7.72	- 1	22	South Korea	\$3.05	+ 3
4	Finland	\$7.12	- 1	23	Germany	\$3.01	- 1
5	United Kingdom	\$6.43	No change	24	Czech Republic	\$2.86	+ 5
6	France	\$6.34	- 2	25	United States	\$2.78	- 11
7	Australia	\$5.72	+ 1	26	Sweden	\$2.78	- 9
8	Austria	\$5.44	- 1	27	Slovakia	\$2.68	- 3
9	Hungary	\$4.57	+ 11	28	Singapore	\$2.60	No change
10	Denmark	\$4.43	+ 1	29	Estonia	\$2.53	- 3
11	Spain	\$4.43	- 2	30	Greece	\$2.52	- 3
12	Croatia	\$3.96	+ 11	31	Lithuania	\$2.24	No change
13	Canada	\$3.94	- 3	32	Switzerland	\$2.15	- 11
14	Israel	\$3.80	- 2	33	Mexico	\$1.84	+ 5
15	Belgium	\$3.63	- 2	34	United Arab Emirates	\$1.74	+ 1
16	Turkey	\$3.53	+ 17	35	Ukraine	\$1.72	+ 5
17	New Zealand	\$3.50	+ 1	36	Slovenia	\$1.58	- 2
18	Luxembourg	\$3.42	- 3	37	Romania	\$1.49	+ 4
19	Italy	\$3.31	- 3	38	Montenegro	\$1.17	- 1

Adjusting the 2-hour on-street average prices to account for purchasing power parity makes on-street parking relatively more expensive in countries with undervalued currencies.

This effect is notable in the significant ranking increases for Russia, Hungary, Croatia, Turkey and Poland.



## 4.0 Daily Pricing



# 4.1.1 Daily Off-Street: Most Expensive Cities (USD)



Rank	Country	City	Average daily price USD	Rank	Country	City	Average daily price USD
1	UK	London	\$45.95	26	NL	Utrecht	\$23.46
2	US	New York	\$44.98	27	US	Philadelphia	\$23.36
3	AU	Sydney	\$44.39	28	IT	Milan	\$23.22
4	NL	Amsterdam	\$39.63	29	US	Seattle	\$22.67
5	AU	Melbourne	\$35.52	30	NO	Trondheim	\$22.44
6	AU	Brisbane	\$35.36	31	US	Washington DC	\$22.37
7	FR	Paris	\$33.87	32	UK	Edinburgh	\$21.77
8	NO	Oslo	\$31.77	33	NO	Tromsø	\$21.73
9	US	Boston	\$30.47	34	JP	Osaka	\$21.68
10	US	Chicago	\$30.19	35	AT	Graz	\$21.62
11	JP	Tokyo	\$27.92	36	DK	Aarhus	\$21.41
12	ES	Barcelona	\$27.86	37	SE	Stockholm	\$21.30
13	CH	Zurich	\$27.04	38	IE	Dublin	\$21.20
14	FR	Lyon	\$26.48	39	DE	Munich	\$20.41
15	FI	Helsinki	\$26.39	40	US	Los Angeles	\$20.39
16	AT	Vienna	\$26.18	41	NO	Bergen	\$20.27
17	ES	Madrid	\$26.03	42	US	Detroit	\$19.76
18	KR	Seoul	\$25.55	43	IT	Naples	\$19.64
19	NL	The Hague	\$25.29	44	BE	Antwerp	\$19.60
20	US	Honolulu	\$25.16	45	NZ	Wellington	\$19.32
21	CN	Hong Kong	\$24.88	46	NL	Rotterdam	\$19.21
22	US	San Francisco	\$24.80	47	US	San Diego	\$19.15
23	NO	Drammen	\$24.71	48	UK	Leeds	\$19.08
24	CH	Geneva	\$24.34	49	NO	Fredrikstad	\$19.07
25	US	Miami	\$23.70	50	IT	Florence	\$19.04

Of the top 10 cities for daily pricing, six are based in the USA and Australia, maintaining the trend seen in 2-hour off-street pricing.

The top 3 cities for daily parking in 2019 remain as per the 2017 list, though Sydney drops to 3rd position, moving London and New York up one place each.

Whilst London ranks seventh for 2-hour off-street parking, it moves up to the top spot for daily parking prices.

# 4.1.2 Daily Off-Street: Top 5 Cities per Region (USD)



# 4.1.3 Daily Off-Street: Most Expensive Cities (PPP)



Rank	Country	City	Average daily price PPP	PPP impact on ranking vs USD ranking	Rank	Country	City	Average daily price PPP	PPP impact on ranking vs USD ranking
1	UK	London	\$62.98	No Change	26	DK	Aarhus	\$27.21	+ 10
2	AU	Sydney	\$59.46	+ 1	27	AT	Graz	\$27.05	+ 8
3	CN	Hong Kong	\$54.53	+ 18	28	JP	Kyoto	\$27.01	+ 45
4	NL	Amsterdam	\$49.58	No Change	29	NO	Trondheim	\$26.53	+ 1
5	AU	Melbourne	\$47.58	No Change	30	IE	Dublin	\$26.53	+ 8
6	AU	Brisbane	\$47.37	No Change	31	NZ	Wellington	\$26.19	+ 14
7	RU	Moscow	\$46.87	+ 69	32	UK	Leeds	\$26.15	+ 16
8	US	New York	\$44.98	- 6	33	JP	Sapporo	\$25.59	+ 49
9	JP	Tokyo	\$44.70	+ 2	34	DE	Munich	\$25.53	+ 5
10	FR	Paris	\$42.37	- 3	35	NZ	Auckland	\$25.23	+ 22
11	KR	Seoul	\$38.35	+ 7	36	US	Honolulu	\$25.16	- 16
12	NO	Oslo	\$37.56	- 4	37	US	San Francisco	\$24.80	- 15
13	ES	Barcelona	\$34.85	- 1	38	IT	Naples	\$24.56	+ 5
14	JP	Osaka	\$34.70	+ 20	39	BE	Antwerp	\$24.52	+ 5
15	FR	Lyon	\$33.13	- 1	40	NL	Rotterdam	\$24.03	+ 6
16	FI	Helsinki	\$33.01	- 1	41	NO	Bergen	\$23.96	No Change
17	AT	Vienna	\$32.76	- 1	42	JP	Kobe	\$23.94	+ 52
18	ES	Madrid	\$32.57	- 1	43	CH	Zurich	\$23.82	- 30
19	NL	The Hague	\$31.63	No Change	44	IT	Florence	\$23.81	+ 6
20	US	Boston	\$30.47	- 11	45	FR	Marseille	\$23.80	+ 6
21	US	Chicago	\$30.19	- 11	46	ES	Valencia	\$23.73	+ 6
22	JP	Yokohama	\$29.81	+ 34	47	US	Miami	\$23.70	- 22
23	NL	Utrecht	\$29.35	+ 3	48	DE	Frankfurt am Main	\$23.46	+ 6
24	NO	Drammen	\$29.21	- 1	49	US	Philadelphia	\$23.36	- 22
25	IT	Milan	\$29.05	+ 3	50	AT	Linz	\$23.35	+ 5

After adjusting for purchasing parity power, Hong Kong, Moscow and Osaka are amongst the cities showing a significant increase in ranking to break into the top 15, which was also the case in 2017 for PPP adjustment.

# 4.1.4 Daily Off-Street: Most Expensive Countries (USD)



Rank	Country	Average daily price USD	2019 vs 2017 % change (local currency)	Rank	Country	Average daily price USD	2019 vs 2017 % change (local currency)
1	Australia	\$29.71	6.63%	26	Sweden	\$10.86	9.38%
2	Switzerland	\$25.55	-1.33%	27	Greece	\$10.72	1.28%
3	Hong Kong SAR	\$24.69	9.19%	28	Slovakia	\$10.43	22.14%
4	Monaco	\$24.25	n/a	29	Hungary	\$9.45	10.14%
5	Norway	\$24.11	6.41%	30	Belgium	\$9.21	9.68%
6	Netherlands	\$22.85	8.90%	31	Estonia	\$9.20	5.69%
7	Austria	\$22.10	-0.29%	32	Germany	\$9.01	4.81%
8	Denmark	\$20.91	10.21%	33	Singapore	\$8.72	9.93%
9	Spain	\$20.08	1.29%	34	Brazil	\$8.07	-4.33%
10	Japan	\$17.93	n/a	35	Peru	\$7.96	n/a
11	United States	\$17.63	8.07%	36	United Arab Emirates	\$7.89	46.73%
12	Ireland	\$17.54	8.84%	37	Czech Republic	\$7.80	9.27%
13	South Korea	\$17.14	5.06%	38	Ecuador	\$7.50	n/a
14	Luxembourg	\$16.70	n/a	39	Mexico	\$7.29	6.68%
15	New Zealand	\$16.35	15.50%	40	Slovenia	\$7.19	-1.22%
16	Russia	\$15.18	1.57%	41	Colombia	\$7.07	-3.27%
17	Chile	\$13.55	26.82%	42	Bulgaria	\$7.05	17.69%
18	Uruguay	\$13.14	-16.70%	43	Croatia	\$7.03	14.09%
19	France	\$12.91	-0.16%	44	Serbia	\$6.81	30.82%
20	Finland	\$12.64	14.77%	45	Poland	\$6.64	1.65%
21	United Kingdom	\$12.42	8.09%	46	Romania	\$6.04	7.09%
22	Italy	\$12.40	3.42%	47	Lithuania	\$5.71	9.51%
23	Portugal	\$12.28	3.71%	48	Malaysia	\$5.67	14.15%
24	Israel	\$12.03	n/a	49	Argentina	\$4.96	100.06%
25	Canada	\$11.97	8.19%	50	North Macedonia	\$3.84	1.82%

As with 2-hour parking, Australia is also the most expensive country globally for daily parking, retaining that title from 2017, although prices have not increased as much as in Hong Kong, which moves into third place.

Switzerland moves from 10th to 2nd place in the rankings compared with 2017, largely due to the strength of the Swiss Franc.

Despite London being the most expensive city for daily parking, the rest of the UK is much more affordable, resulting in the UK ranking at 21 in the list. This pattern is also reflected in New York which is the world's second most expensive city, versus the whole of the US, which features at number 11 on the daily list.

Germany comes in at number 32 in 2019 for daily parking prices with an average cost of \$9.01, reflecting the relatively cheap cost of parking in Germany.

# 4.1.5 Daily Off-Street: Most Expensive Countries (PPP)



Rank	Country	Average daily price PPP	PPP impact on ranking vs USD ranking	Rank	Country	Average daily price PPP	PPP impact on ranking vs USD ranking
1	Hong Kong SAR	\$54.11	+ 2	26	Portugal	\$15.37	- 3
2	Russia	\$43.01	+ 14	27	Malaysia	\$15.26	+ 21
3	Australia	\$39.80	- 2	28	Israel	\$14.54	- 4
4	Monaco	\$30.34	No change	29	Peru	\$14.42	+ 6
5	Japan	\$28.71	+ 5	30	Canada	\$13.50	- 5
6	Netherlands	\$28.59	No change	31	Poland	\$13.44	+ 14
7	Norway	\$28.50	- 2	32	Greece	\$13.42	- 5
8	Austria	\$27.65	- 1	33	Slovakia	\$13.04	- 5
9	Denmark	\$26.58	- 1	34	Croatia	\$12.09	+ 9
10	South Korea	\$25.72	+ 3	35	Czech Republic	\$12.02	+ 2
11	Spain	\$25.12	- 2	36	Singapore	\$11.78	- 3
12	Switzerland	\$22.51	- 10	37	Sweden	\$11.58	- 11
13	New Zealand	\$22.16	+ 2	38	Belgium	\$11.52	- 8
14	Ireland	\$21.95	- 2	39	Estonia	\$11.51	- 8
15	Luxembourg	\$20.89	- 1	40	Germany	\$11.27	- 8
16	Chile	\$20.31	+ 1	41	United Arab Emirates	\$11.27	- 5
17	United States	\$17.63	- 6	42	Colombia	\$11.21	- 1
18	Hungary	\$17.37	+ 11	43	Argentina	\$10.34	+ 6
19	United Kingdom	\$17.02	+ 2	44	Brazil	\$10.31	- 10
20	Uruguay	\$16.17	- 2	45	Slovenia	\$9.00	- 5
21	France	\$16.16	- 2	46	Ecuador	\$7.50	- 8
22	Mexico	\$16.03	+ 17	47	Lithuania	\$7.14	No change
23	Finland	\$15.81	- 3	48	Turkey	\$7.12	+ 3
24	Romania	\$15.73	+ 22	49	South Africa	\$6.83	+ 3
25	Italy	\$15.51	- 3	50	India	\$0.85	+ 3

When adjusting for purchasing power parity, Hong Kong and Australia switch places in the ranking, and Russia enters the top 10 at number 2.

Switzerland drops from second to 12th rank, the US from 11th to 17th.



# 4.1.6 Daily Off-Street: Countries with greatest 2-year change



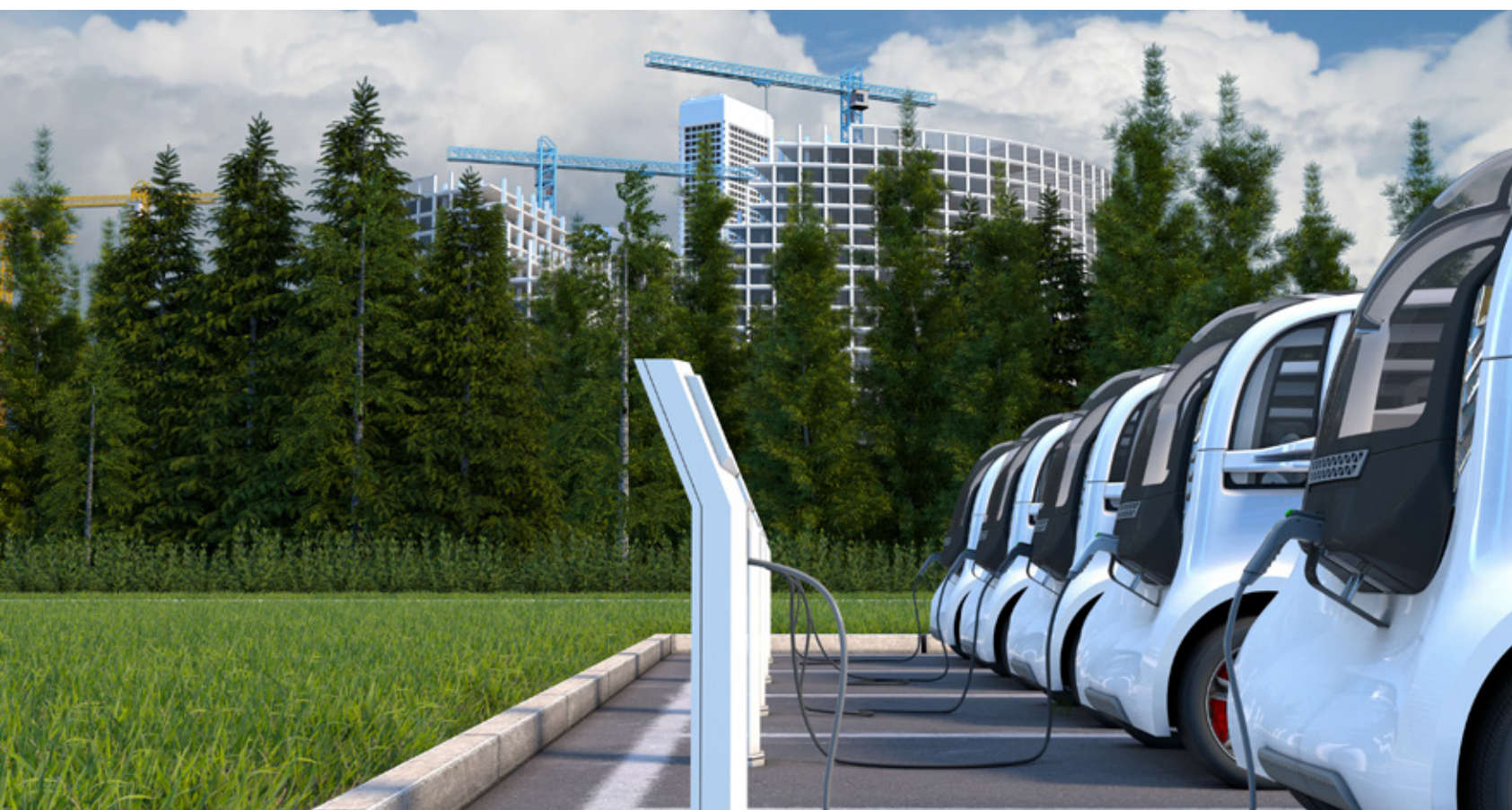
Rank	Country	2019 vs 2017 % price change (local currency)	Rank	Country	2019 vs 2017 % price change (local currency)
1	Argentina	100.06%	25	Romania	7.09%
2	United Arab Emirates	46.73%	26	Mexico	6.68%
3	Serbia	30.82%	27	Australia	6.63%
4	Chile	26.82%	28	Norway	6.41%
5	Slovakia	22.14%	29	Latvia	5.94%
6	Bulgaria	17.69%	30	Estonia	5.69%
7	New Zealand	15.50%	31	South Korea	5.06%
8	Finland	14.77%	32	Germany	4.81%
9	Malaysia	14.15%	33	South Africa	3.75%
10	Croatia	14.09%	34	Portugal	3.71%
11	Denmark	10.21%	35	Italy	3.42%
12	Hungary	10.14%	36	North Macedonia	1.82%
13	Singapore	9.93%	37	Poland	1.65%
14	Turkey	9.84%	38	Russia	1.57%
15	Belgium	9.68%	39	Spain	1.29%
16	Lithuania	9.51%	40	Greece	1.28%
17	Sweden	9.38%	41	France	-0.16%
18	Czech Republic	9.27%	42	Austria	-0.29%
19	Hong Kong SAR	9.19%	43	Slovenia	-1.22%
20	Netherlands	8.90%	44	Switzerland	-1.33%
21	Ireland	8.84%	45	Colombia	-3.27%
22	Canada	8.19%	46	Brazil	-4.33%
23	United Kingdom	8.09%	47	Uruguay	-16.70%
24	United States	8.07%			

Argentina versus 2017 pricing reflects the high levels of annual inflation that Argentina has experienced, though it still ranks at 49th for daily parking in USD and 43rd when adjusted for purchasing power parity.

Increases of parking rates below inflation can be seen in particular in countries hit by the Euro debt crisis such as Austria, Greece, France, Spain and Portugal.



## 5.0 Monthly Pricing



# 5.1.1 Monthly Off-Street: Most Expensive Cities (USD)



Rank	Country	City	Average monthly price USD	Rank	Country	City	Average monthly price USD
1	UK	London	\$674.94	26	US	Pittsburgh	\$204.84
2	US	New York	\$641.79	27	JP	Osaka	\$203.75
3	CH	Zurich	\$359.57	28	NL	Rotterdam	\$202.77
4	CN	Hong Kong	\$339.84	29	IT	Rome	\$201.21
5	US	Boston	\$337.14	30	BE	Brussels	\$201.17
6	UK	Leeds	\$322.70	31	SE	Stockholm	\$199.37
7	JP	Tokyo	\$312.94	32	US	Providence	\$198.09
8	NO	Trondheim	\$305.05	33	SK	Bratislava	\$197.39
9	NL	Amsterdam	\$298.28	34	IT	Milan	\$195.82
10	US	San Francisco	\$296.90	35	CA	Toronto	\$192.36
11	US	Jersey City	\$286.99	36	US	Portland	\$191.53
12	UK	Bristol	\$279.23	37	FR	Nantes	\$191.07
13	US	Washington DC	\$273.35	38	DE	Frankfurt am Main	\$187.59
14	JP	Kobe	\$265.87	39	NO	Oslo	\$186.07
15	UK	Glasgow	\$265.62	40	RU	Moscow	\$184.49
16	US	Philadelphia	\$258.46	41	US	Bellevue	\$183.83
17	NL	Utrecht	\$243.75	42	UK	Liverpool	\$183.27
18	US	Chicago	\$241.62	43	AT	Vienna	\$183.04
19	AU	Brisbane	\$237.63	44	IT	Bologna	\$182.46
20	US	Seattle	\$230.96	45	US	Berkeley	\$179.50
21	UK	Sheffield	\$224.91	46	AU	Canberra	\$179.30
22	FR	Paris	\$221.96	47	DE	Hamburg	\$176.75
23	NZ	Auckland	\$219.91	48	SE	Solna	\$173.61
24	JP	Nagoya	\$215.62	49	US	Denver	\$173.22
25	IT	Florence	\$204.89	50	DE	Munich	\$172.66

London, New York and Zurich retain their accolades for having the world's most expensive long-term parking, although the rates for the top two are nearly double that of Zurich.

# 5.1.2 Monthly Off-Street: Top 5 Cities per Region



# 5.1.3 Monthly Off-Street: Most Expensive Cities (PPP)



Rank	Country	City	Average monthly price PPP	PPP impact on ranking vs USD ranking	Rank	Country	City	Average monthly price PPP	PPP impact on ranking vs USD ranking
1	UK	London	\$925.03	No change	26	IT	Florence	\$256.33	- 1
2	CN	Hong Kong	\$730.86	+ 2	27	US	Philadelphia	\$255.48	- 11
3	US	New York	\$642.84	- 1	28	NL	Rotterdam	\$253.67	No change
4	RU	Moscow	\$522.49	+ 36	29	IT	Rome	\$251.84	No change
5	JP	Tokyo	\$500.93	+ 2	30	BE	Brussels	\$251.67	No change
6	UK	Leeds	\$442.27	No change	31	JP	Fukuoka	\$247.22	+ 32
7	JP	Kobe	\$425.58	+ 7	32	SK	Bratislava	\$246.94	+ 1
8	UK	Bristol	\$382.70	+ 4	33	IT	Milan	\$243.19	+ 1
9	NL	Amsterdam	\$373.16	No change	34	US	Chicago	\$241.62	- 16
10	UK	Glasgow	\$364.04	+ 5	35	AU	Canberra	\$240.20	+ 11
11	NO	Trondheim	\$360.64	- 3	36	FR	Nantes	\$239.03	+ 1
12	JP	Nagoya	\$345.14	+ 12	37	JP	Kawasaki	\$237.28	+ 44
13	US	Boston	\$337.14	- 8	38	DE	Frankfurt am Main	\$234.68	No change
14	RU	St. Petersburg	\$329.47	+ 109	39	CZ	Prague	\$233.10	+ 33
15	JP	Osaka	\$326.14	+ 12	40	JP	Kyoto	\$232.87	+ 36
16	AU	Brisbane	\$318.34	+ 3	41	US	Seattle	\$230.96	- 21
17	CH	Zurich	\$316.72	- 14	42	AT	Vienna	\$228.99	+ 1
18	UK	Sheffield	\$308.25	+ 3	43	IT	Bologna	\$228.27	+ 1
19	NL	Utrecht	\$304.94	- 2	44	NO	Oslo	\$221.41	- 5
20	NZ	Auckland	\$298.10	+ 3	45	DE	Hamburg	\$221.12	+ 2
21	US	San Francisco	\$296.90	- 11	46	FI	Helsinki	\$217.47	+ 5
22	US	Jersey City	\$286.99	- 11	47	KR	Seoul	\$215.67	+ 30
23	FR	Paris	\$277.68	- 1	48	CA	Toronto	\$213.07	- 13
24	US	Washington DC	\$271.72	- 11	49	IT	Genoa	\$212.48	+ 3
25	UK	Liverpool	\$258.85	+ 17	50	SE	Stockholm	\$212.45	- 19

After purchasing parity power adjustment, Hong Kong moves from fourth to second in the ranking, though London remains in top spot.

As with daily prices, the impact on monthly parking prices is significant for Russian and Japanese cities, with Moscow entering the top 5 after PPP adjustment.

# 5.1.4 Monthly Off-Street: Most Expensive Countries (USD)



Rank	Country	Average monthly price USD	2019 vs 2017 % change (local currency)	Rank	Country	Average monthly price USD	2019 vs 2017 % change (local currency)
1	Hong Kong SAR	\$339.84	11.18%	26	Hungary	\$106.60	16.01%
2	Netherlands	\$327.91	10.10%	27	Canada	\$106.17	4.13%
3	Switzerland	\$311.72	-0.05%	28	Bulgaria	\$101.67	6.15%
4	Australia	\$257.86	2.99%	29	South Korea	\$98.72	1.12%
5	United Kingdom	\$254.48	1.40%	30	Serbia	\$92.52	29.50%
6	New Zealand	\$219.91	3.48%	31	Uruguay	\$92.47	n/a
7	Norway	\$215.92	12.22%	32	Estonia	\$91.18	8.75%
8	United States	\$213.04	8.01%	33	United Arab Emirates	\$86.23	n/a
9	Israel	\$202.62	n/a	34	Singapore	\$82.99	n/a
10	Japan	\$183.31	0.00%	35	Slovenia	\$78.35	-1.08%
11	Austria	\$182.48	3.63%	36	Romania	\$73.98	3.24%
12	Russia	\$171.45	2.21%	37	Ireland	\$73.51	9.22%
13	Italy	\$165.61	4.69%	38	Lithuania	\$68.20	7.41%
14	Denmark	\$163.48	12.55%	39	Croatia	\$67.60	0.00%
15	Sweden	\$162.45	7.75%	40	Poland	\$64.31	2.74%
16	Slovakia	\$159.39	8.42%	41	Mexico	\$62.13	18.98%
17	France	\$157.07	5.22%	42	Brazil	\$55.35	4.75%
18	Spain	\$141.48	3.23%	43	Colombia	\$51.23	12.38%
19	Chile	\$141.08	0.00%	44	Argentina	\$47.72	67.83%
20	Finland	\$128.82	9.85%	45	Turkey	\$45.78	30.13%
21	Germany	\$121.29	10.50%	46	Ecuador	\$45.71	n/a
22	Portugal	\$120.91	-0.97%	47	South Africa	\$42.88	n/a
23	Czech Republic	\$116.20	9.91%	48	North Macedonia	\$35.99	3.69%
24	Belgium	\$115.54	8.58%	49	Malaysia	\$35.08	n/a
25	Greece	\$108.18	3.12%				

Hong Kong moves into top position, shifting Switzerland, which was previously the world's most expensive country for long-term parking, into third place.

Due to the proliferation of cheap long-term parking in the USA, it features eighth for monthly pricing, despite New York being one of the most expensive cities for parking globally.

# 5.1.5 Monthly Off-Street: Most Expensive Countries (PPP)



Rank	Country	Average monthly price PPP	PPP impact on ranking vs USD ranking	Rank	Country	Average monthly price PPP	PPP impact on ranking vs USD ranking
1	Hong Kong SAR	\$730.86	No change	25	Peru	\$136.56	n/a
2	Russia	\$472.14	+ 8	26	Finland	\$133.14	- 3
3	Australia	\$346.38	No change	27	Greece	\$132.38	- 3
4	United Kingdom	\$345.34	No change	28	Mexico	\$127.88	+ 10
5	New Zealand	\$298.10	No change	29	Belgium	\$125.47	- 3
6	Japan	\$293.44	+ 3	30	Canada	\$122.02	- 8
7	Netherlands	\$270.75	- 1	31	Portugal	\$116.76	- 4
8	Switzerland	\$254.95	- 6	32	United Arab Emirates	\$116.68	+ 2
9	Israel	\$244.90	- 1	33	South Africa	\$113.87	+ 14
10	United States	\$207.76	- 3	34	Uruguay	\$113.78	- 6
11	Austria	\$205.78	No change	35	Singapore	\$113.07	- 2
12	Italy	\$199.84	No change	36	Ireland	\$111.78	- 6
13	Slovakia	\$199.41	No change	37	Poland	\$110.21	+ 4
14	Romania	\$192.57	+ 22	38	Turkey	\$110.16	+ 7
15	France	\$189.82	+ 1	39	Estonia	\$105.09	- 7
16	Norway	\$187.39	- 2	40	Croatia	\$104.32	- 3
17	Hungary	\$185.98	+ 8	41	Argentina	\$98.30	+ 3
18	Chile	\$177.80	No change	42	Slovenia	\$98.02	- 7
19	Czech Republic	\$169.52	+ 2	43	Malaysia	\$94.45	+ 6
20	Sweden	\$168.40	- 5	44	Colombia	\$79.37	- 1
21	Spain	\$156.82	- 4	45	Lithuania	\$71.85	- 5
22	Germany	\$143.79	- 3	46	Brazil	\$69.01	- 4
23	Denmark	\$140.97	- 3	47	Ecuador	\$45.71	- 1
24	South Korea	\$137.66	+ 5				

After adjustment for purchasing power parity, Hong Kong remains in the top spot, with an average monthly price in real terms that is almost 55% above the second place country, Russia. The five most expensive countries are consistent in ranking aside from Russia, which moves up from 10th to 2nd position.

# 5.1.6 Monthly Off-Street: Countries with greatest 2-year change



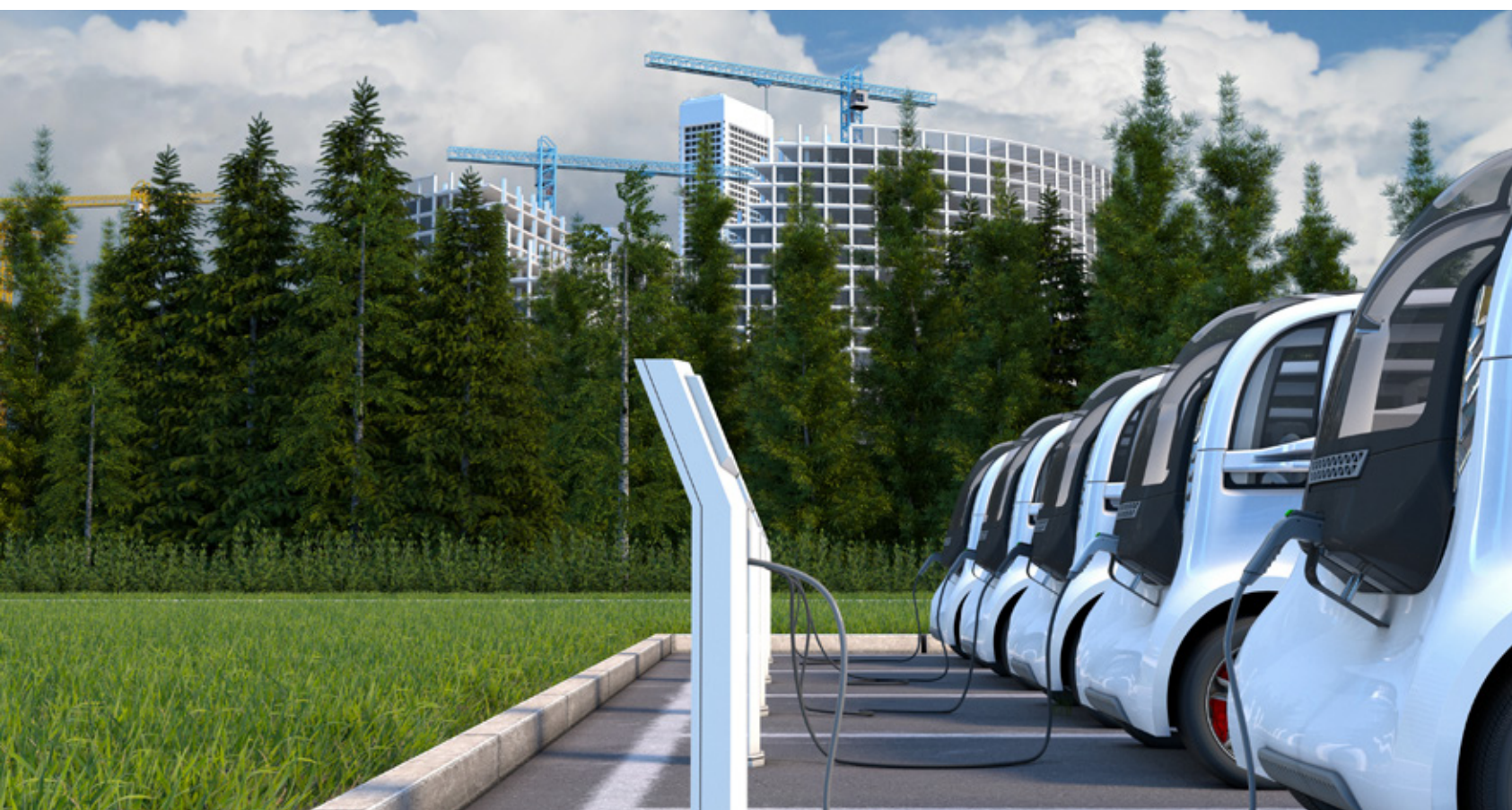
Rank	Country	2019 vs 2017 % price change (local currency)	Rank	Country	2019 vs 2017 % price change (local currency)
1	Argentina	67.83%	21	Bulgaria	6.15%
2	Turkey	30.13%	22	France	5.22%
3	Serbia	29.50%	23	Brazil	4.75%
4	Mexico	18.98%	24	Italy	4.69%
5	Hungary	16.01%	25	Latvia	4.50%
6	Denmark	12.55%	26	Canada	4.13%
7	Colombia	12.38%	27	North Macedonia	3.69%
8	Norway	12.22%	28	Austria	3.63%
9	Hong Kong SAR	11.18%	29	New Zealand	3.48%
10	Germany	10.50%	30	Romania	3.24%
11	Netherlands	10.10%	31	Spain	3.23%
12	Czech Republic	9.91%	32	Greece	3.12%
13	Finland	9.85%	33	Australia	2.99%
14	Ireland	9.22%	34	Poland	2.74%
15	Estonia	8.75%	35	Russia	2.21%
16	Belgium	8.58%	36	United Kingdom	1.40%
17	Slovakia	8.42%	37	South Korea	1.12%
18	United States	8.01%	38	Switzerland	-0.05%
19	Sweden	7.75%	39	Portugal	-0.97%
20	Lithuania	7.41%			

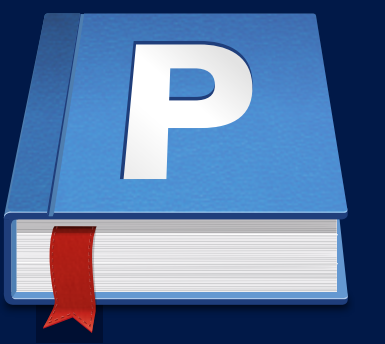
As seen in the 2-hour and daily analysis, Argentina's change versus 2017 pricing reflects the high levels of annual inflation they have experienced. For monthly parking, Argentina ranks at 44th in USD and 41st when adjusted for purchasing power parity.





## 6.0 Selected Cities: Price, Density and Estimated Yield



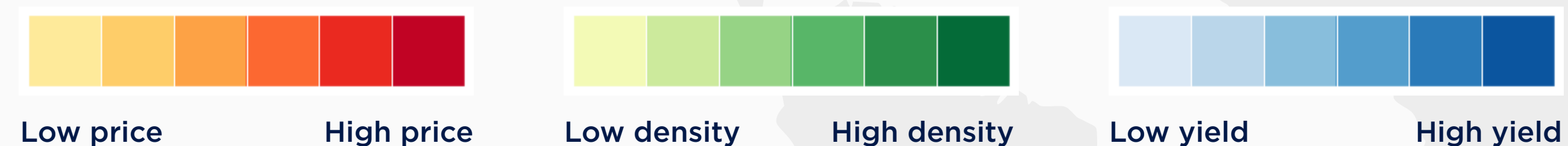


## 6.0 Selected Cities: Price, Density and Estimated Yield

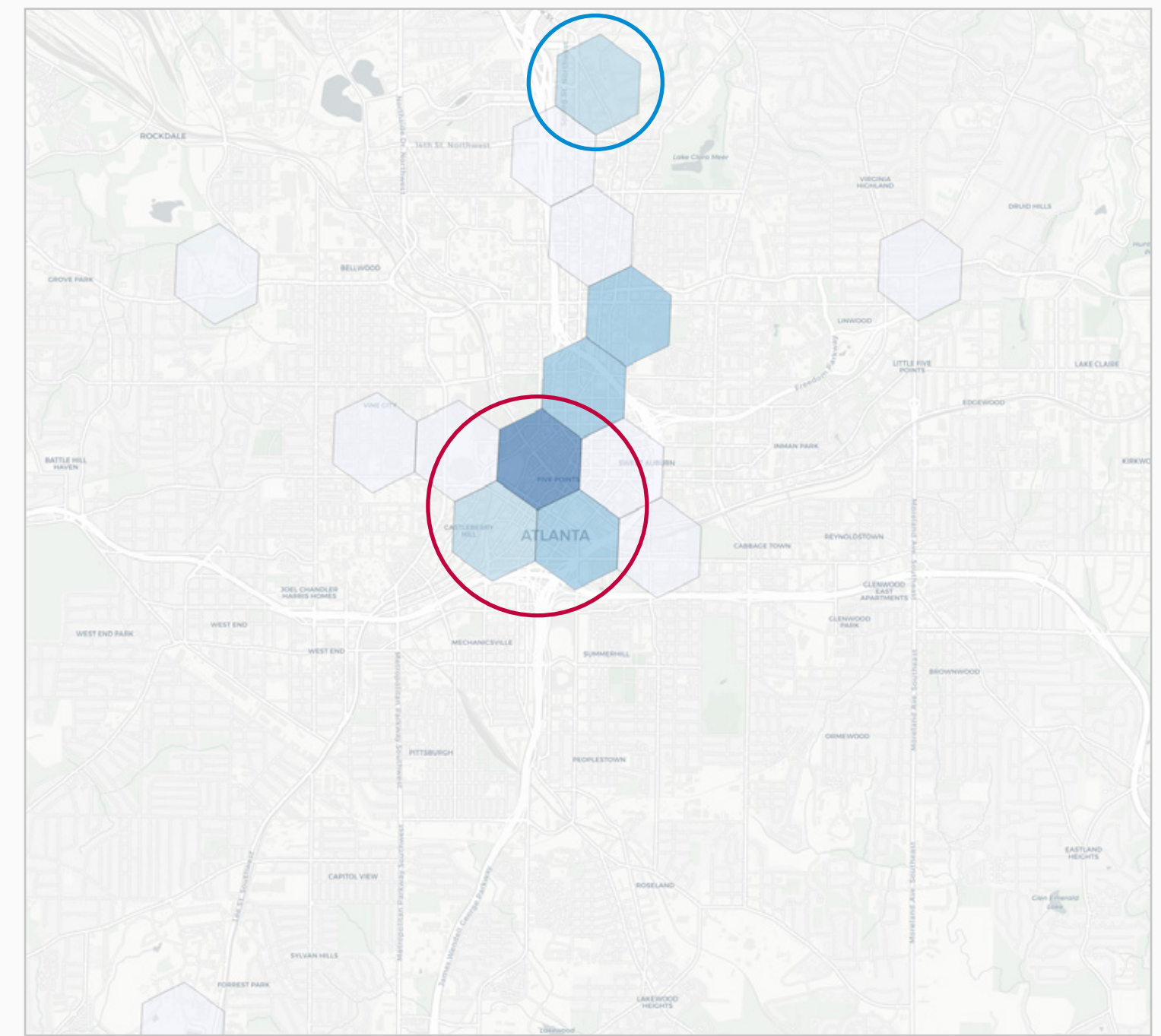
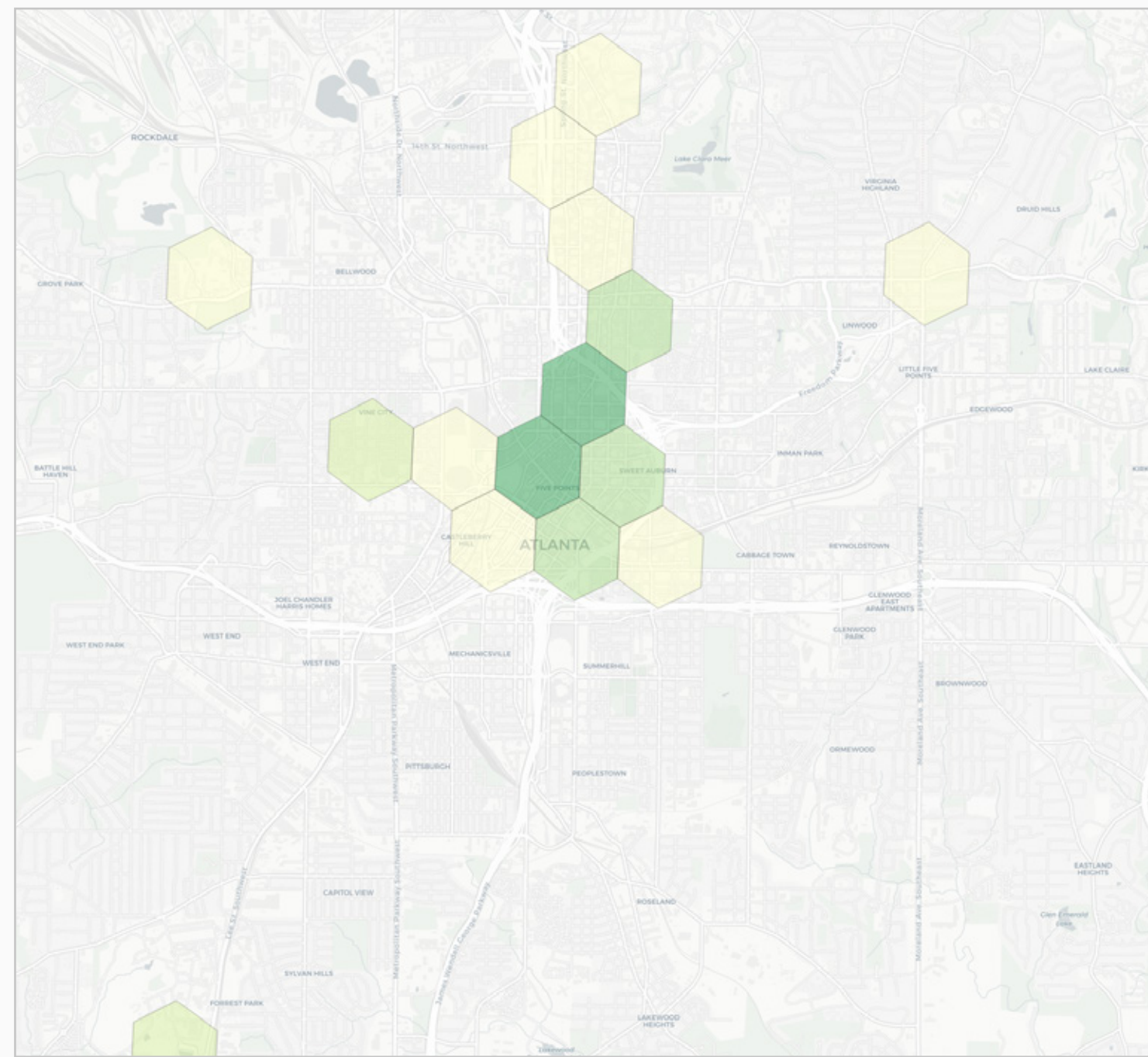
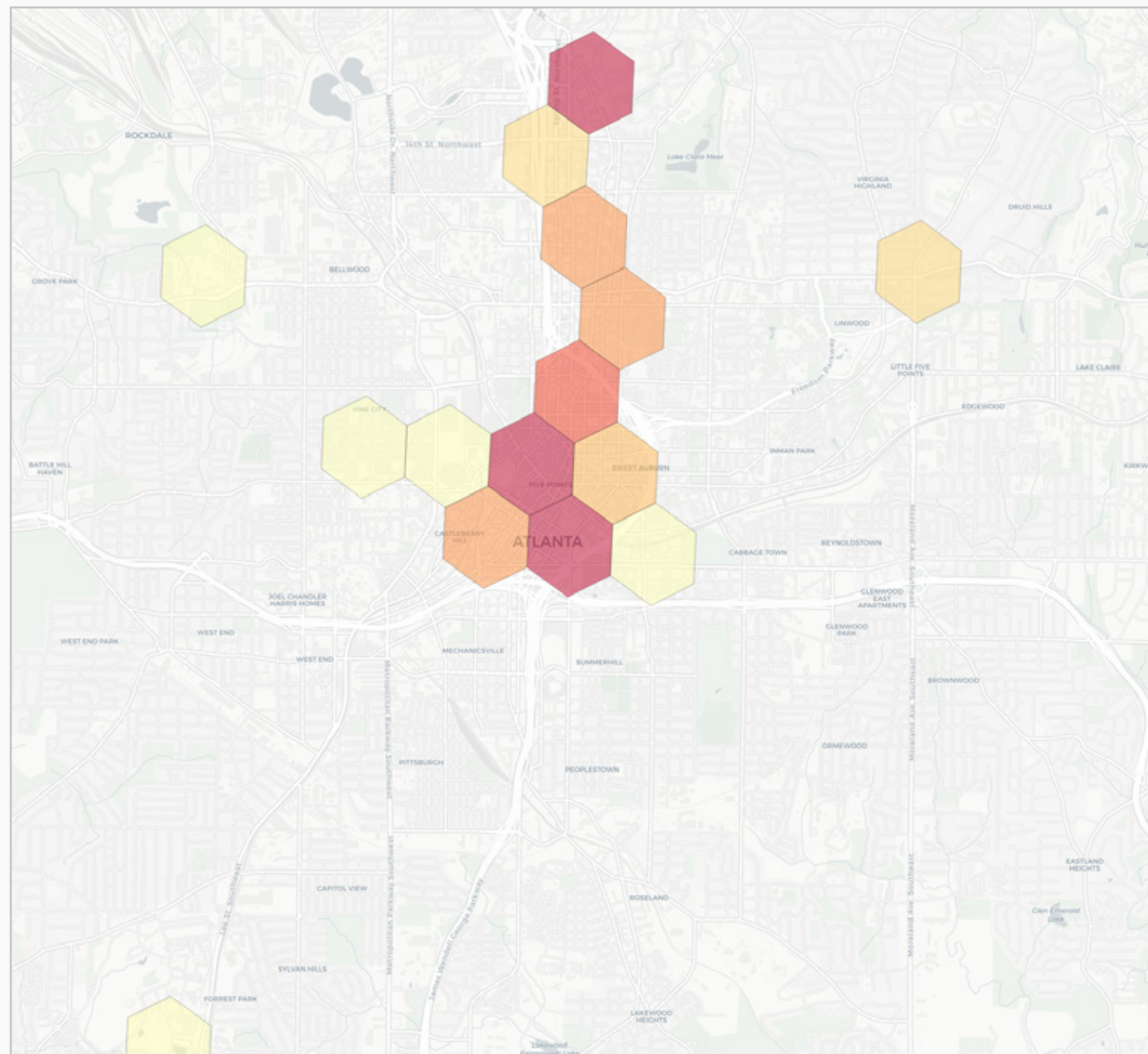
We have analysed the distribution of 2-hour prices and parking space density for selected cities across North America, Europe and Asia-Pacific, to provide a more detailed city-level view of the paid parking environment, and understand how specific Points of Interest might impact pricing and/or parking provision in the surrounding area.

We have also calculated an estimated yield, using the formulae as per the methodology, to give guidance for parking providers, city or private development planners, to help understand possible future opportunities where parking may be over or under-provisioned. The yield is an estimate and does not reflect profitability, as costs may differ widely between cities and within cities, in particular the cost of real estate.

The tone of the hexagons in the heatmaps for each city indicate the relative strength of the feature analysed.






# 6.1.1 North America: Atlanta

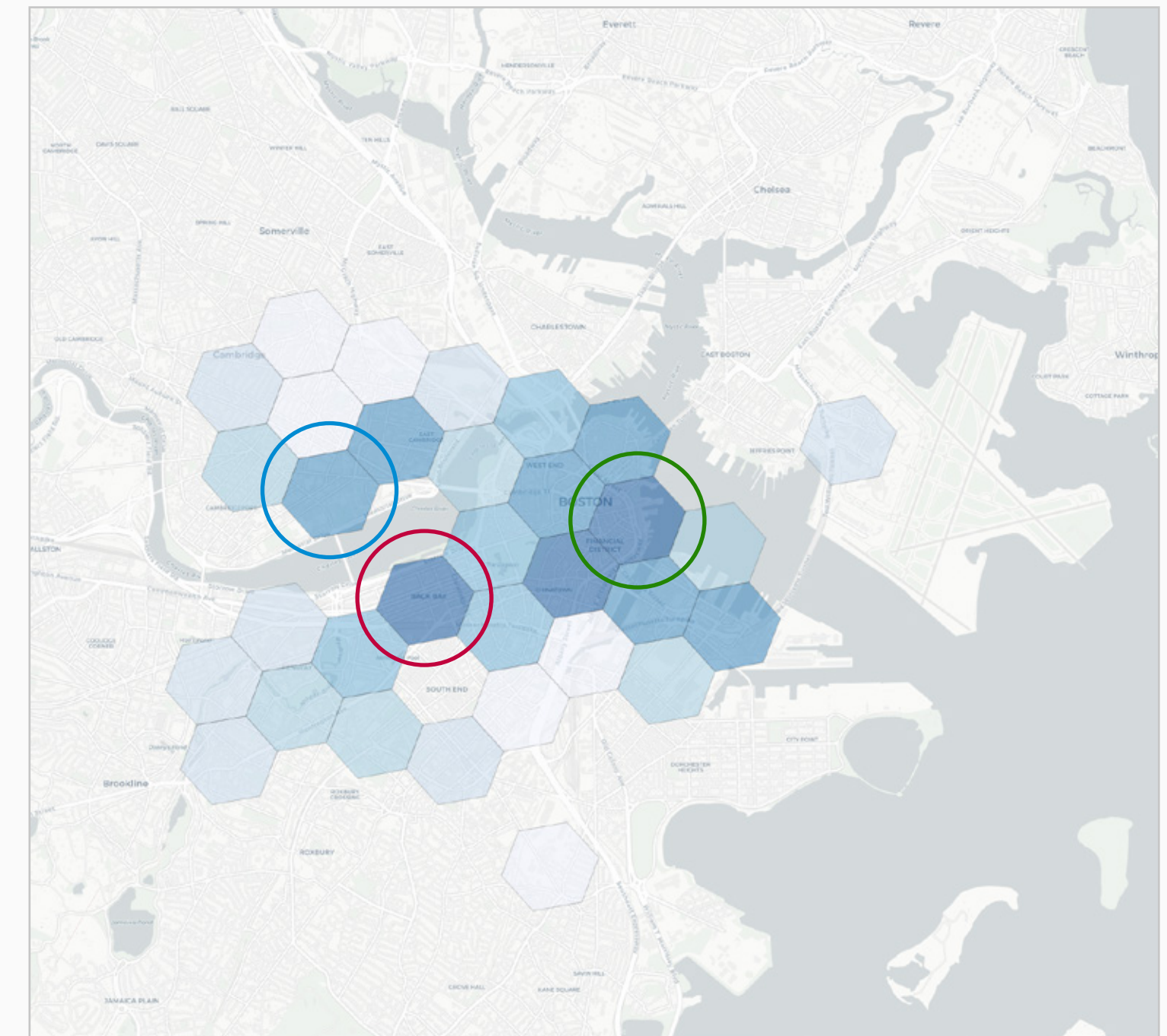
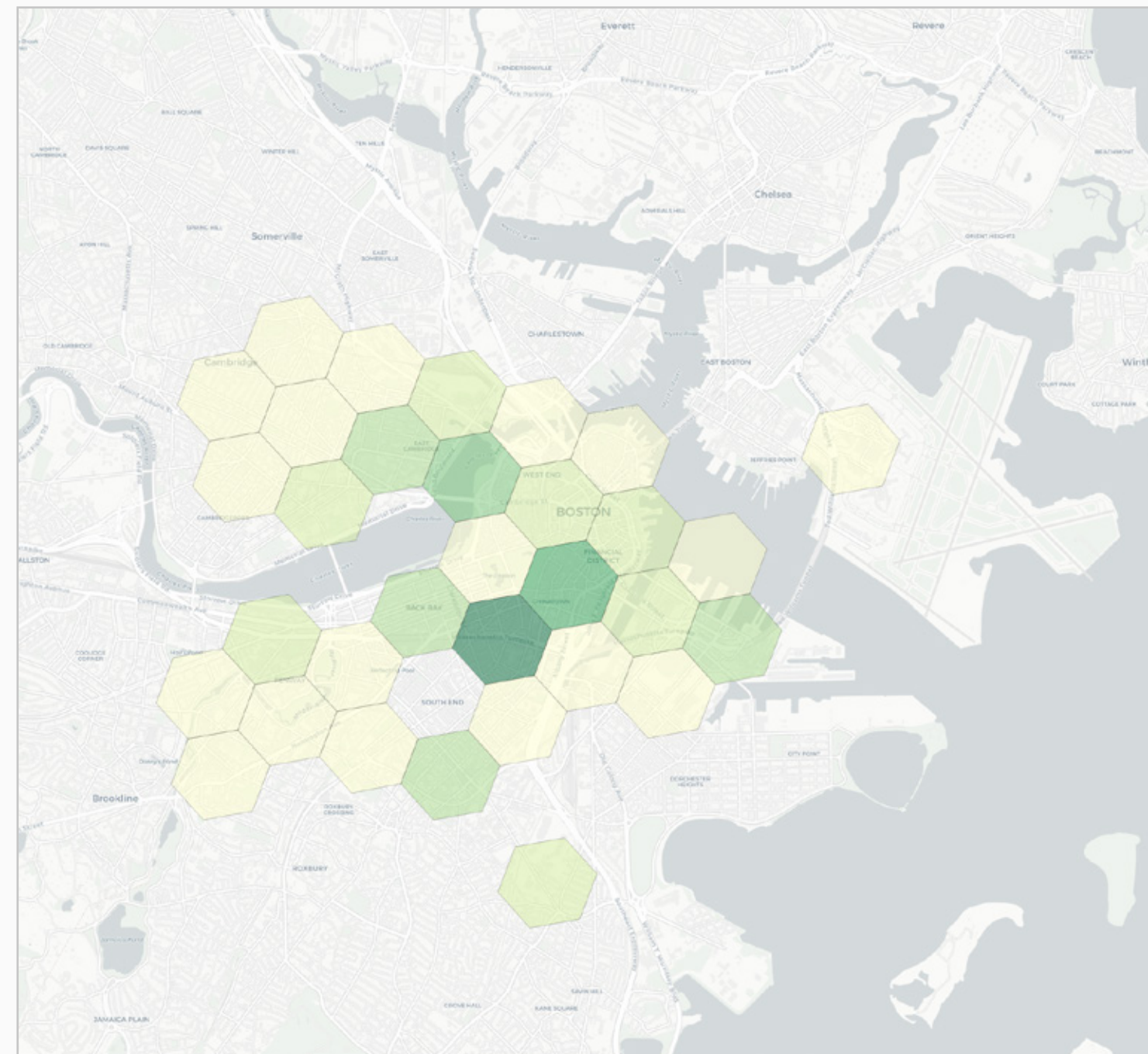
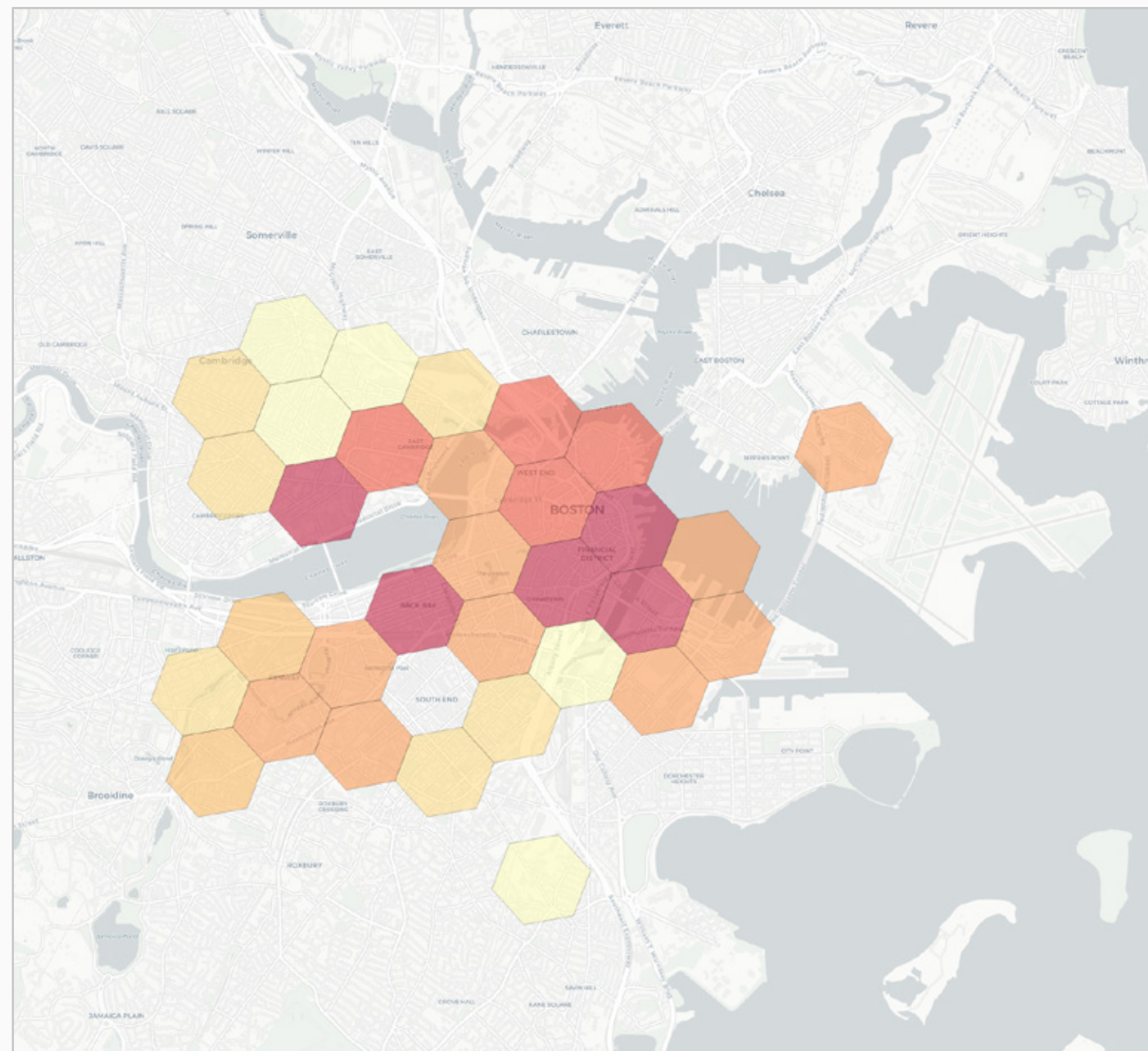


- Potential yield most closely mirrors the pricing distribution, with the highest yield coming from the Downtown area (red circle), which also has the highest density of parking.
- Yield in MidTown (blue circle) is higher than the surrounding area due to the higher prices, driven by shops, restaurants and bars, though it is not at the same level as Downtown Atlanta, due to lower occupancies.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.1.2 North America: Boston

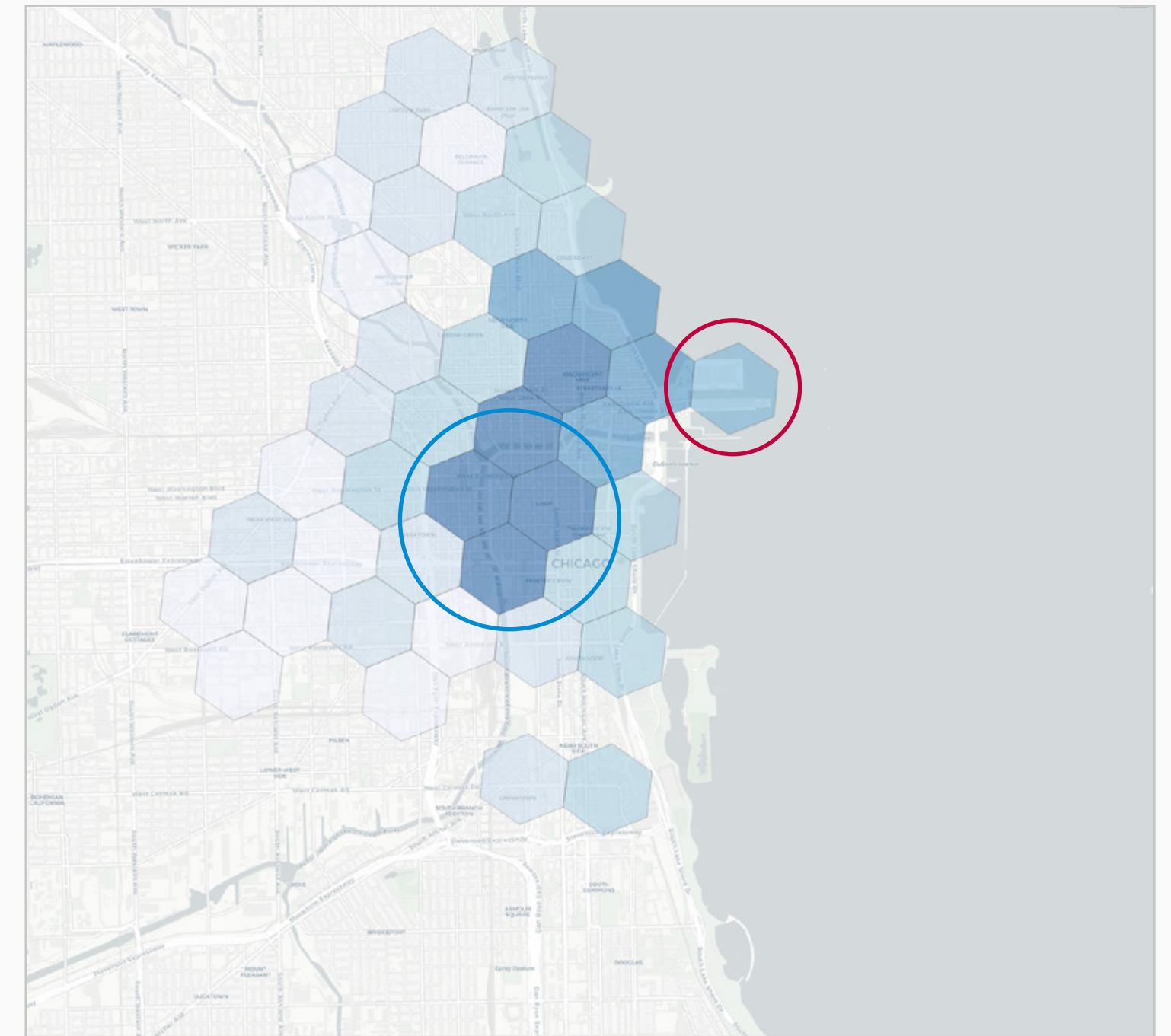
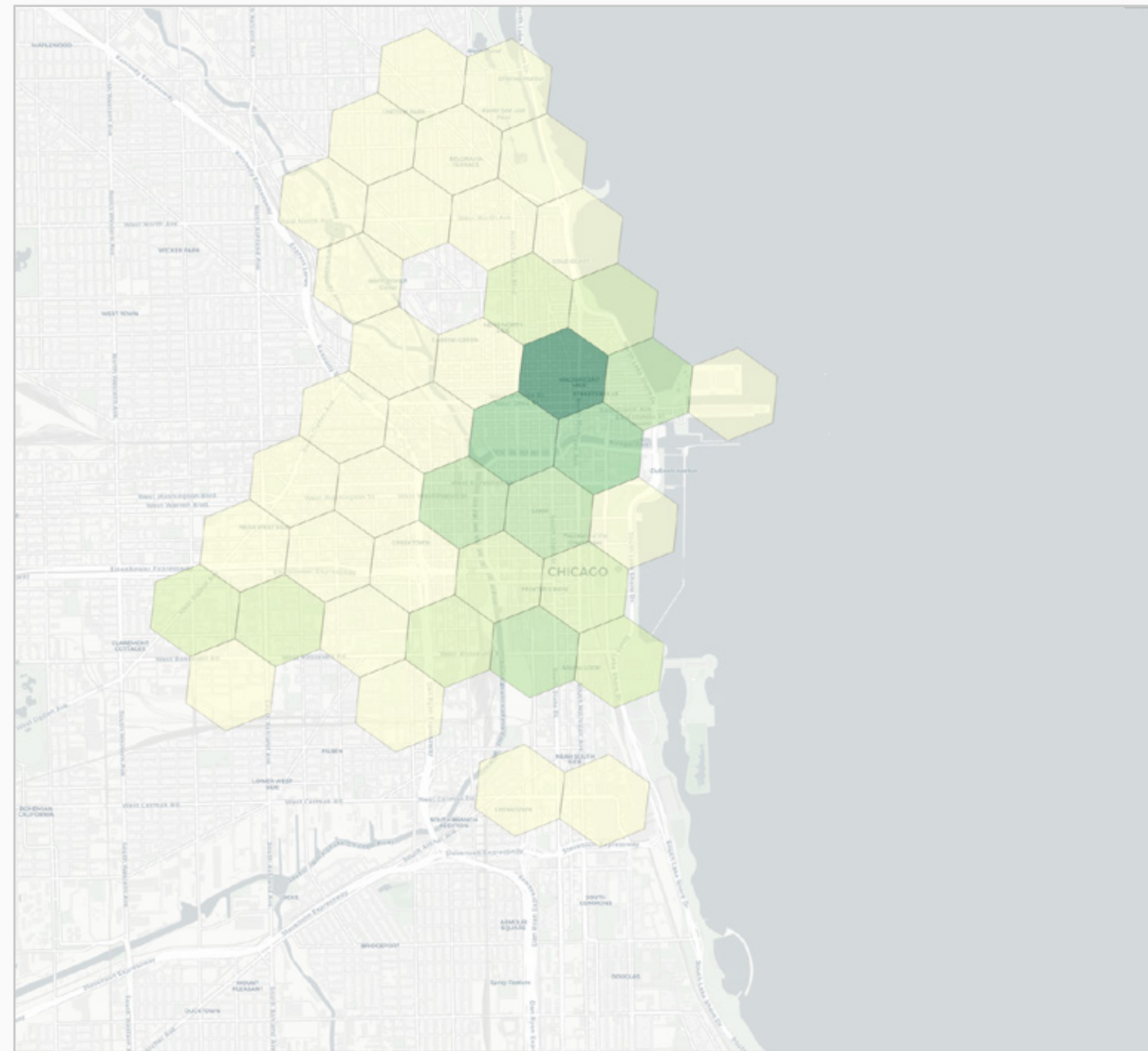
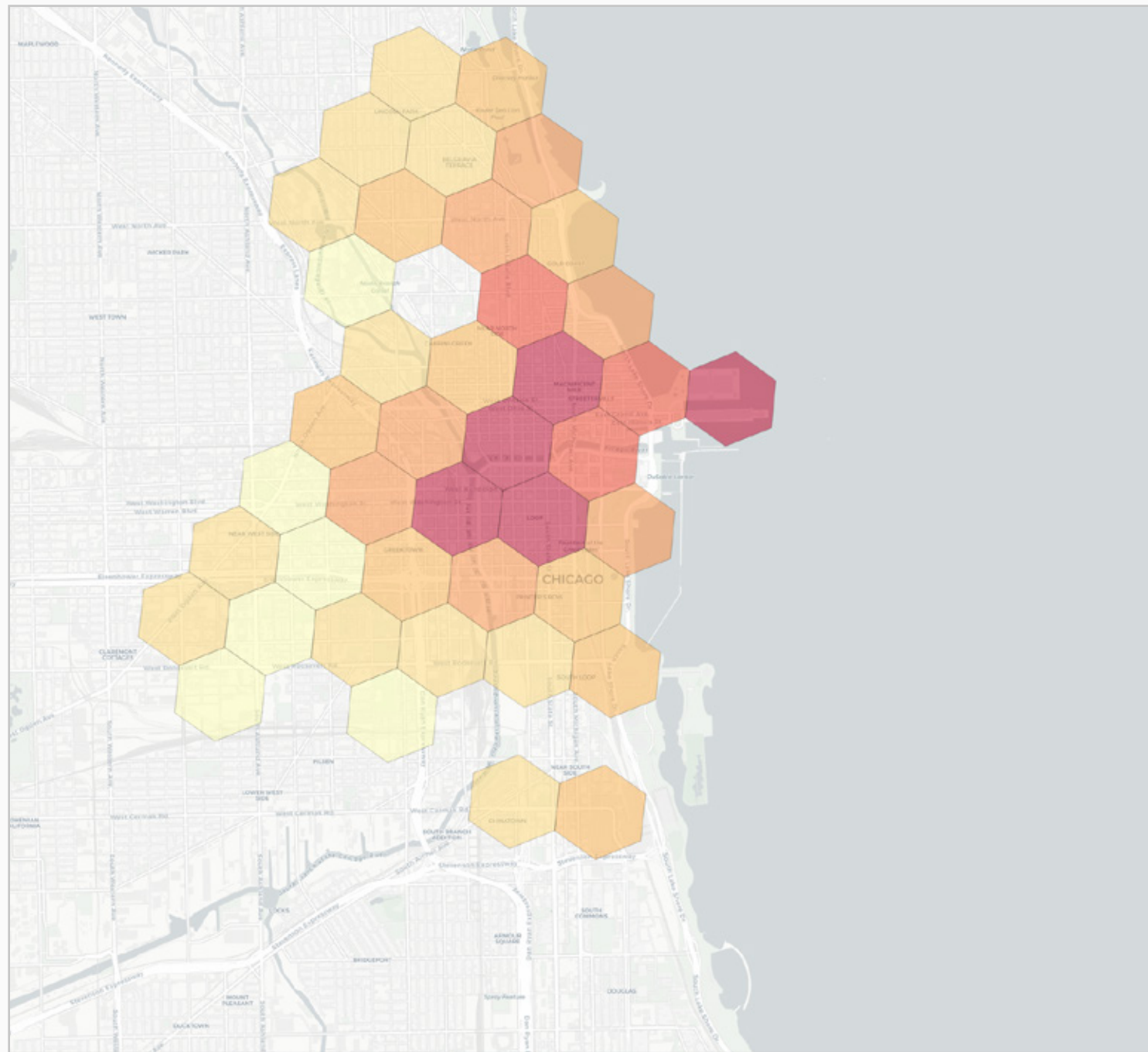


- The red circle includes two large shopping malls (Copley Place and the Prudential Centre), where demand is reflected in high prices, moderate provision and high occupancy, resulting in high yields;
- MIT is the location of the blue circle, providing a good yield from moderate provision of spaces and high prices;
- The green circle is Boston's downtown and financial area, where high prices, good provision of spaces and high occupancy lead to high yields.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.1.3 North America: Chicago

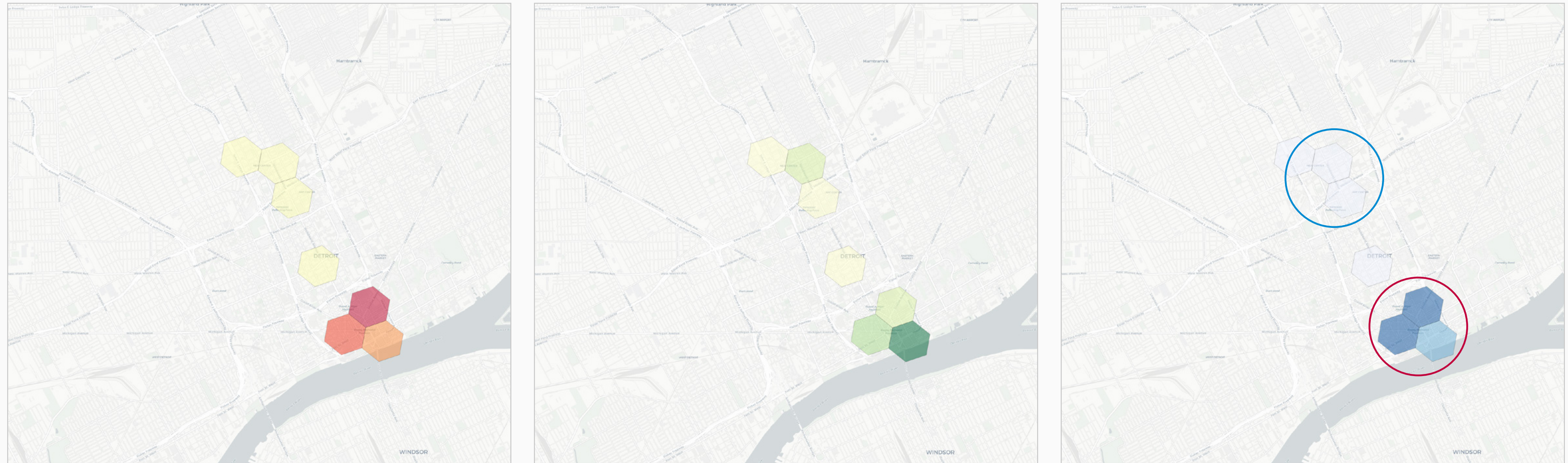


- Navy Pier, a Chicago landmark including the Centennial Wheel, Chicago Children’s Museum, and the Museum of Contemporary Art amongst other attractions, is shown in the red circle. This area has high pricing and good yield, although occupancy is lower than for downtown.
- The downtown and financial district of “The Windy City”, shown in the blue circle, is where high prices and high levels of occupancy deliver the best yield.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.1.4 North America: Detroit

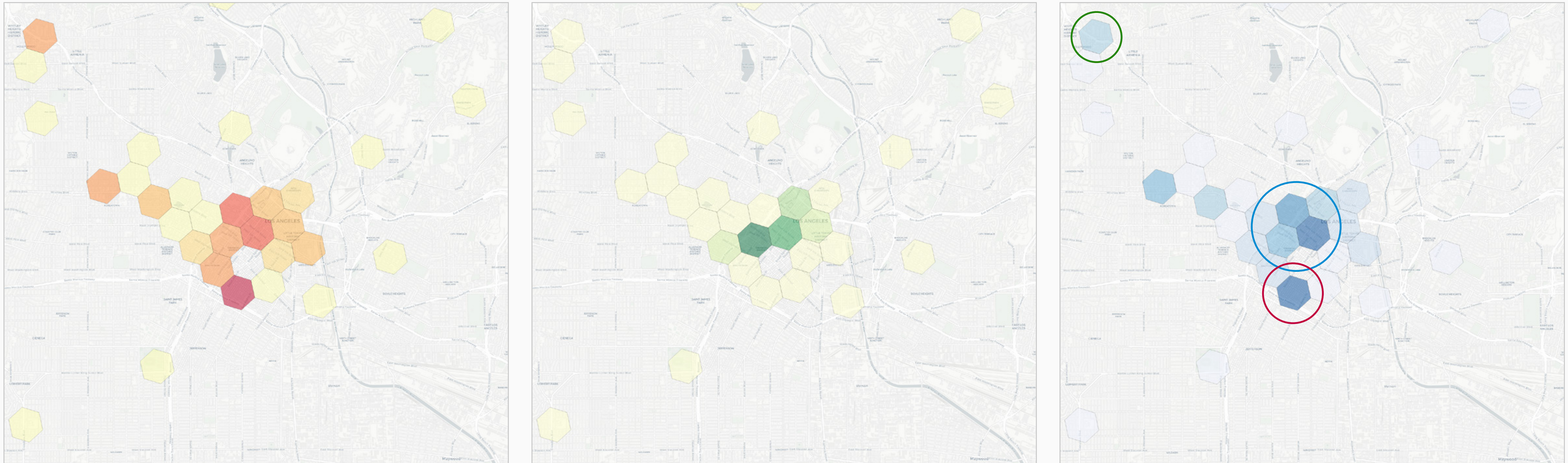


- The downtown and GreekTown areas (red circle) in Detroit have the highest prices, and also the highest occupancy, ensuring a good yield.
- There is moderate provision of off-street parking in the MidTown area (blue circle), where attractions include the Museum of Contemporary Art, the Charles Wright Museum, Michigan Children’s Hospital and Wayne State University.

### Maps Key

-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.1.5 North America: Los Angeles

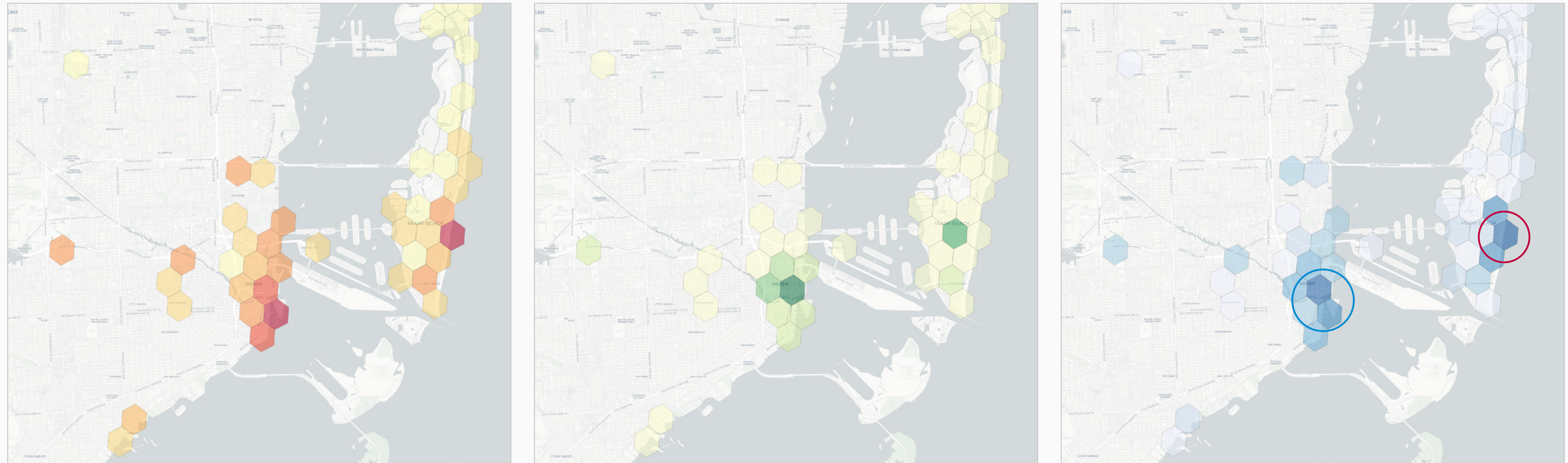


- The Fashion District of Los Angeles (red circle) provides a good yield due to the high prices and high levels of occupancy seen here.
- Numerous five star and boutique hotels, including the Sheraton Grand, Millennium Biltmore, The Los Angeles Athletic Club, etc, are situated in the Wilshire Boulevard/Flower Street area shown in the blue circle, driving up prices, occupancy and yield.
- Hollywood and the Beverly Hills area are shown in the green circle, with moderate prices and occupancy providing a reasonable yield.

### Maps Key

- Average 2-hour off-street price
- Parking provision density
- Estimated yield

# 6.1.6 North America: Miami



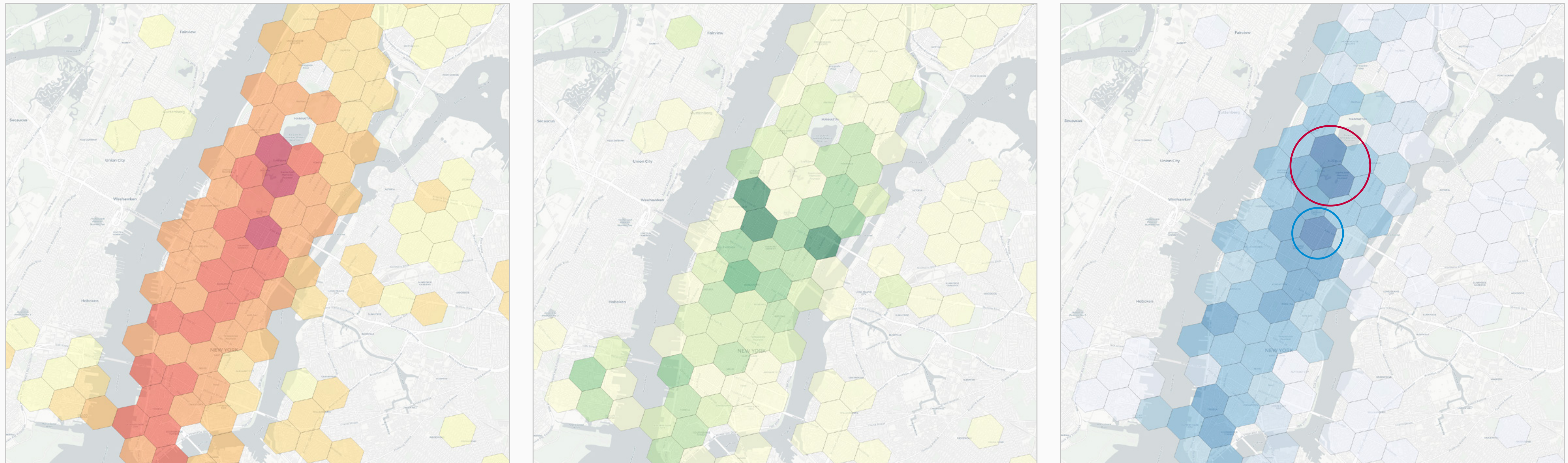
- In Miami Beach, the area shown in the red circle features the top hotels (Ritz-Carlton, Lowes, etc), pushing up prices, occupancy and therefore yield.
- Downtown Miami in the blue circle has the second highest prices, and combined with a high provision of spaces and high levels of occupancy, provides good yields.

### Maps Key

- Average 2-hour off-street price
- Parking provision density
- Estimated yield






# 6.1.7 North America: New York

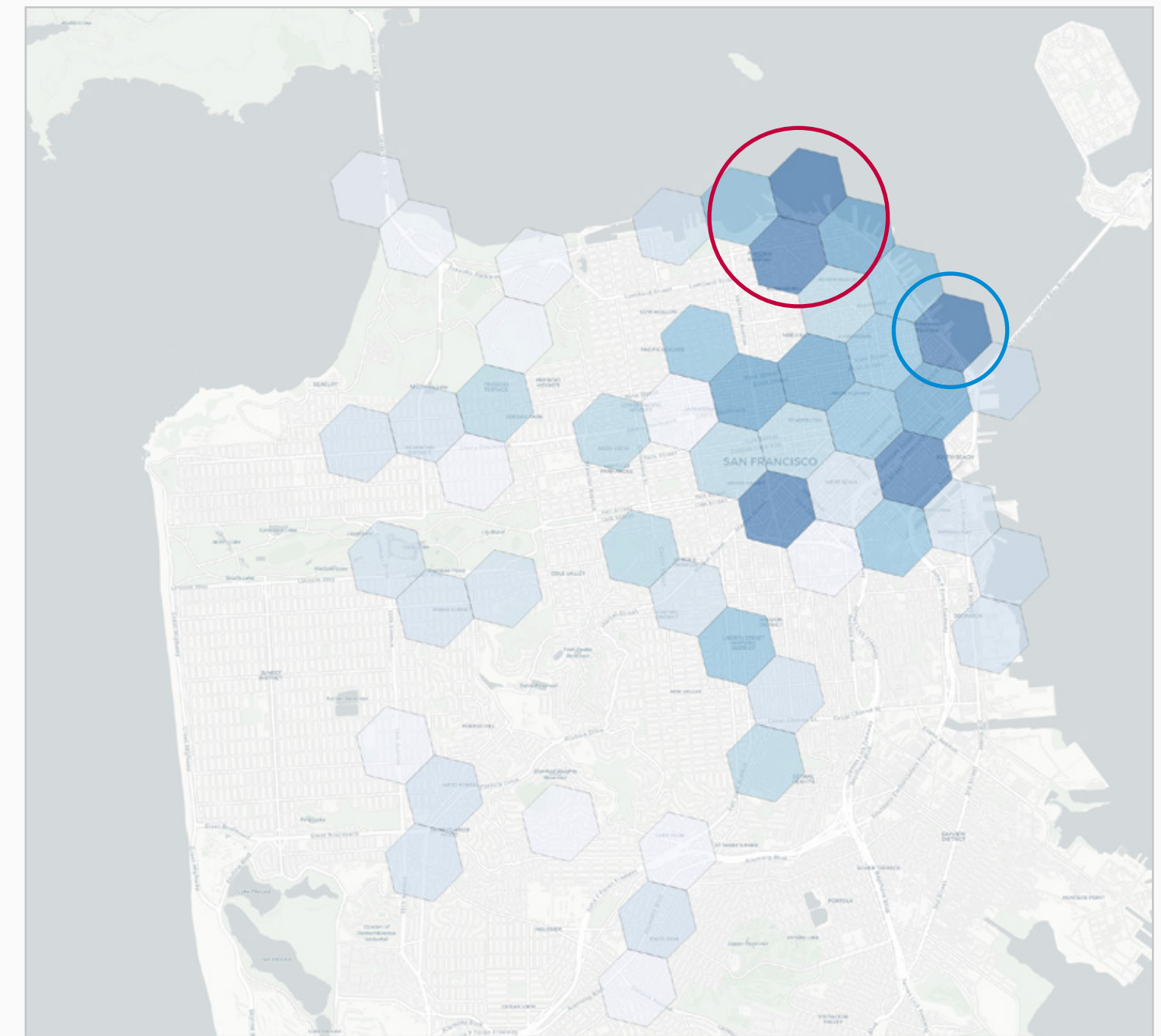
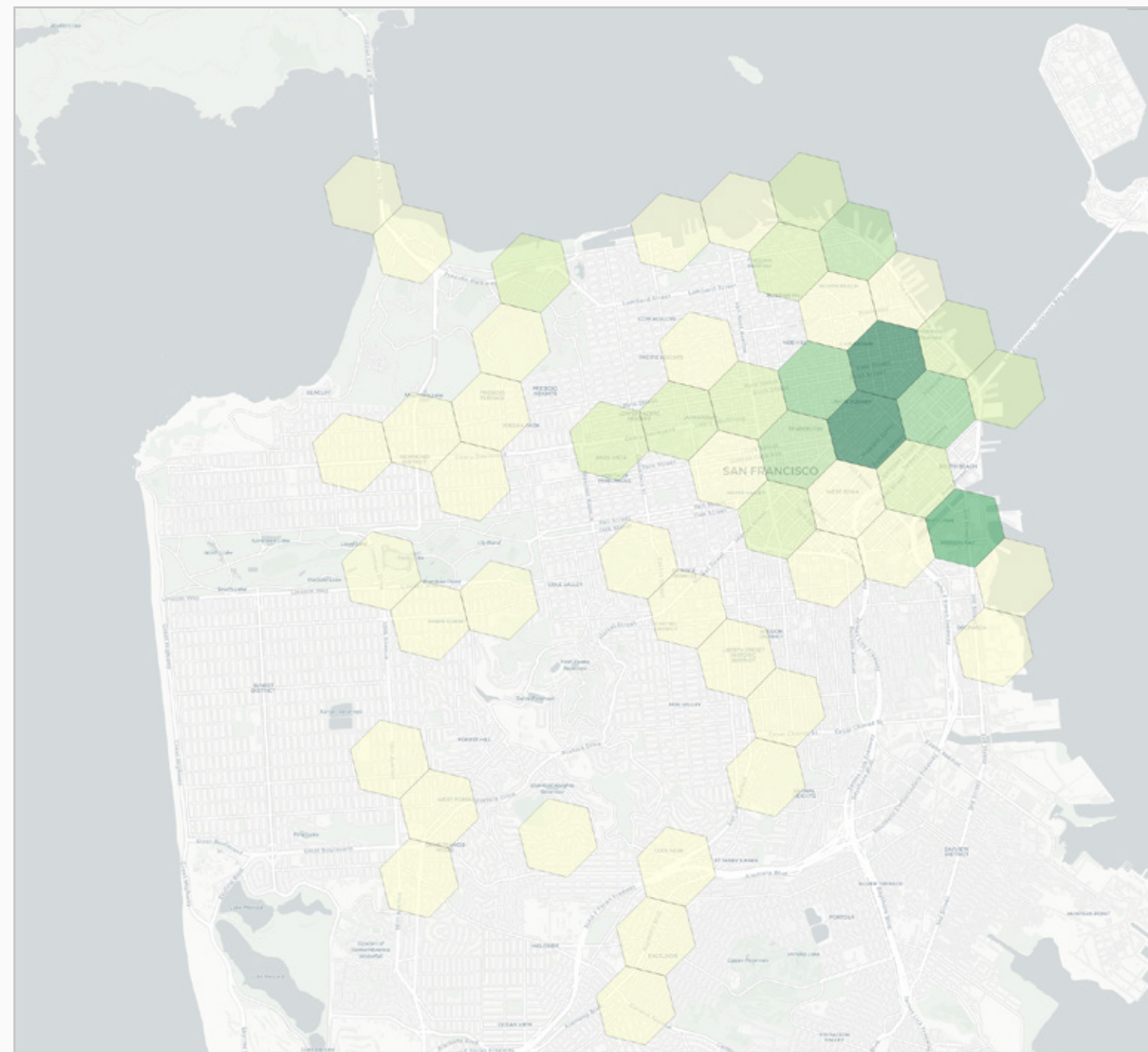
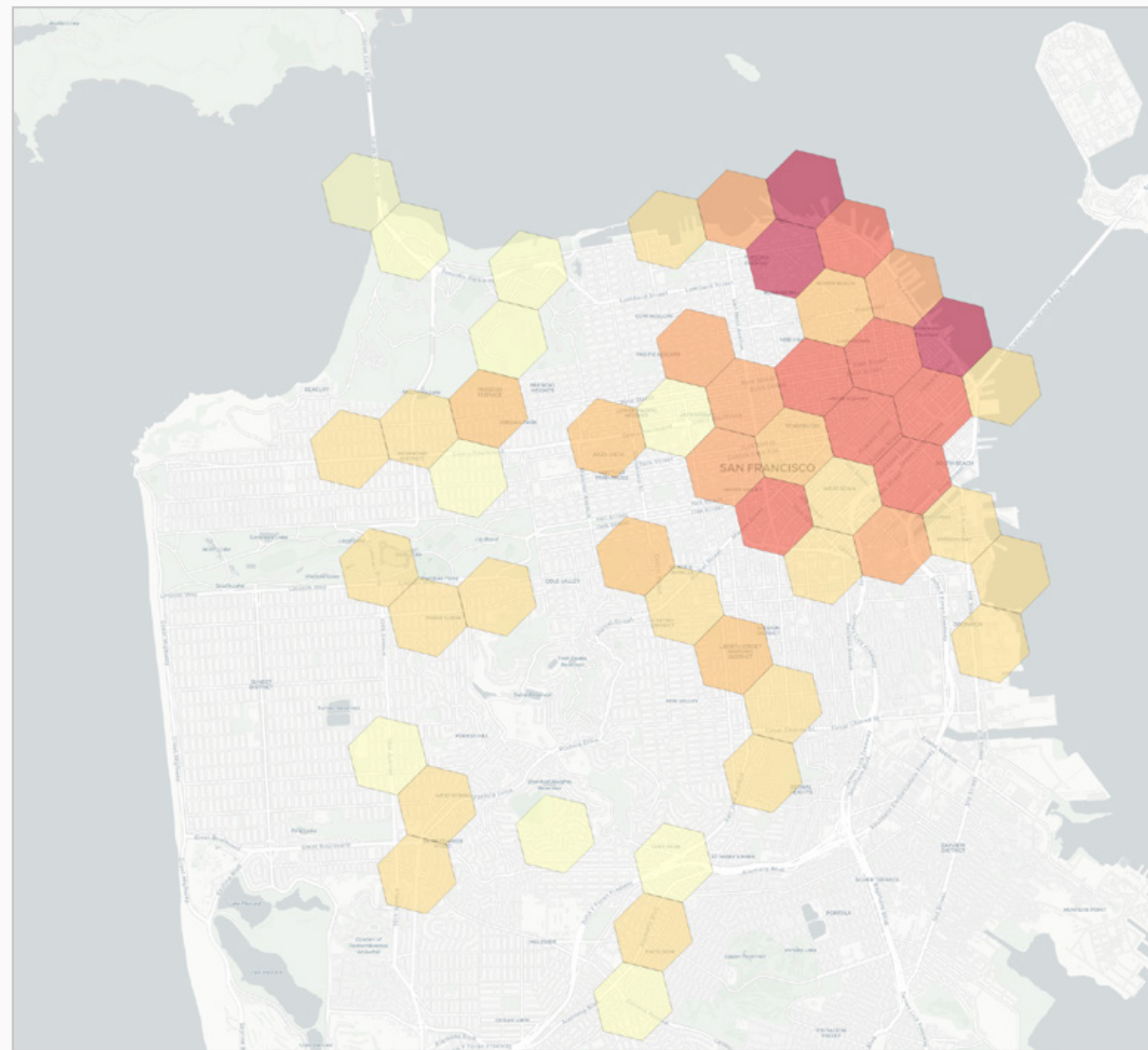


- The area just below Central Park (red circle) features shopping and attractions including Carnegie Hall, the Museum of Modern Art and the Rockefeller centre, where high prices and high levels of demand and occupancy result in the highest yield in the city.
- Midtown Manhattan (blue circle) has many shops, restaurants and bars, which create demand that in turn leads to high prices and high occupancy, resulting in high yield.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.1.8 North America: San Francisco

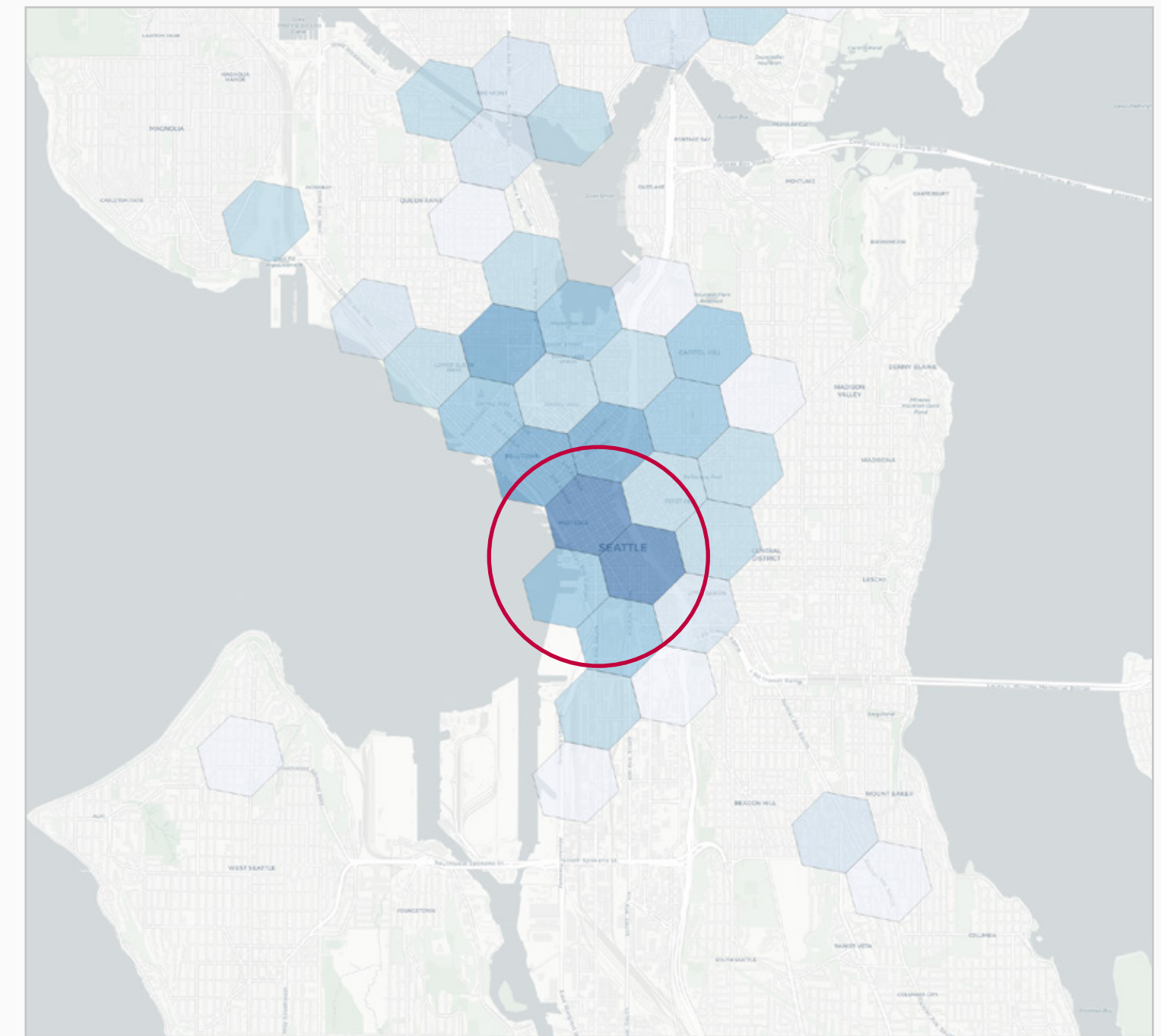
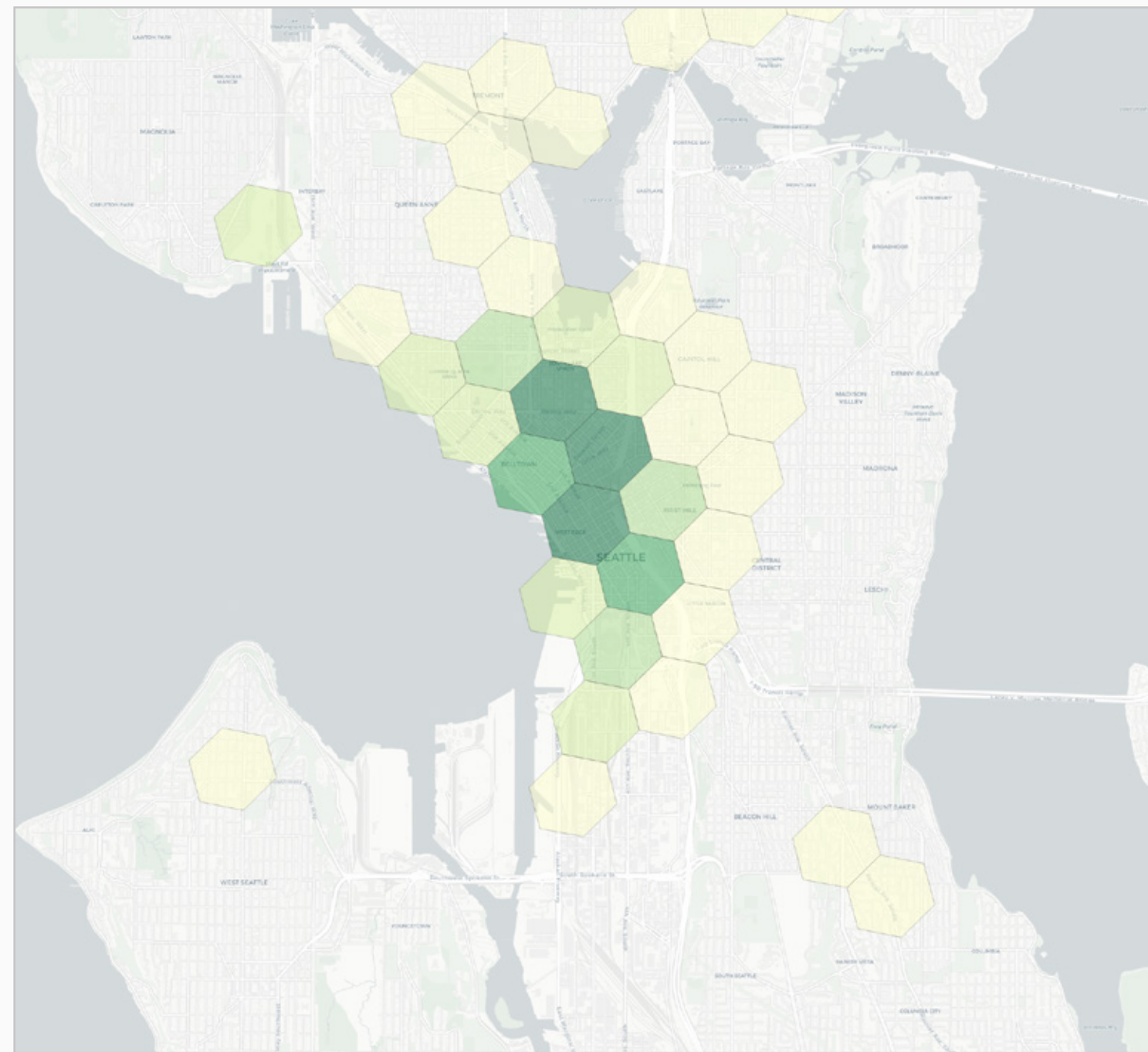
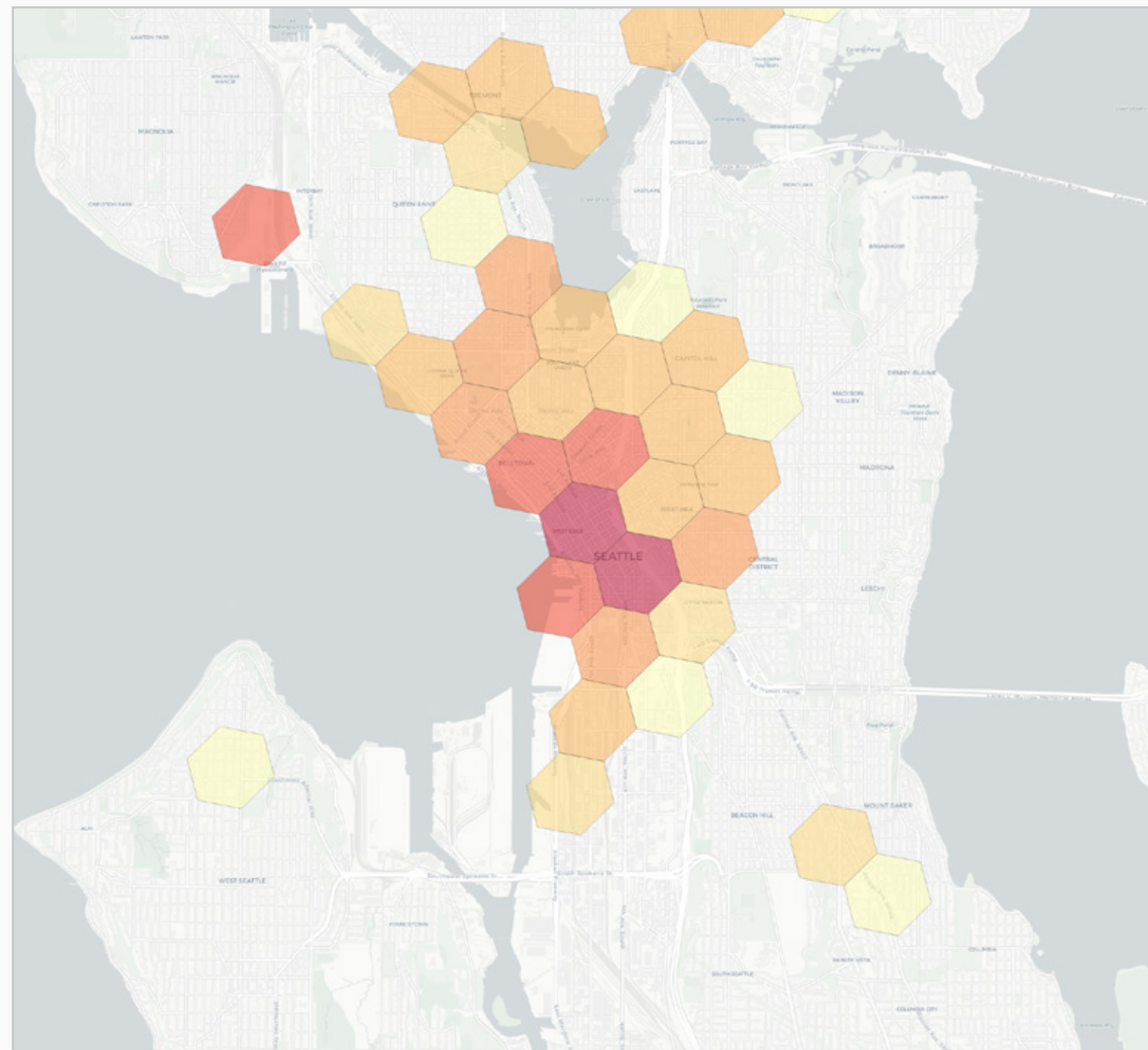


- Fisherman's Wharf is in the red circle, a key San Francisco restaurant and entertainment attraction, and trips to Alcatraz Island depart from here. As such, parking prices are high, providing good yield.
- The Financial District (blue circle) also provides good yield, as it has the highest levels of occupancy for the city.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.1.9 North America: Seattle

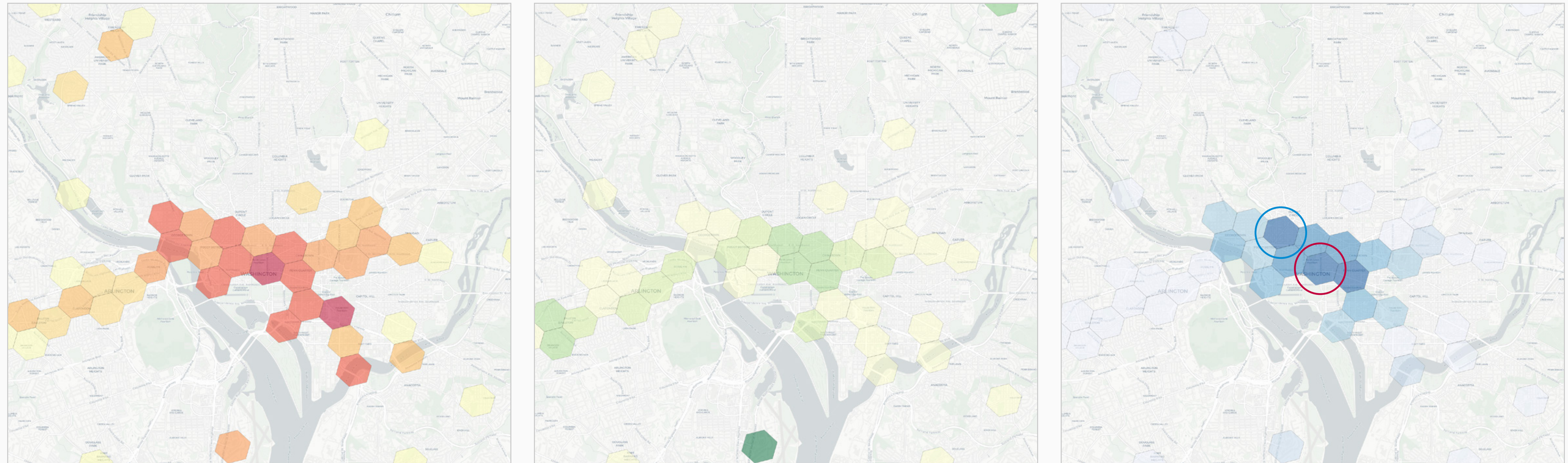


- The downtown area of Seattle, marked in the red circle, has high prices, good provision of parking and high levels of occupancy, resulting in high yield.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.1.10 North America: Washington DC

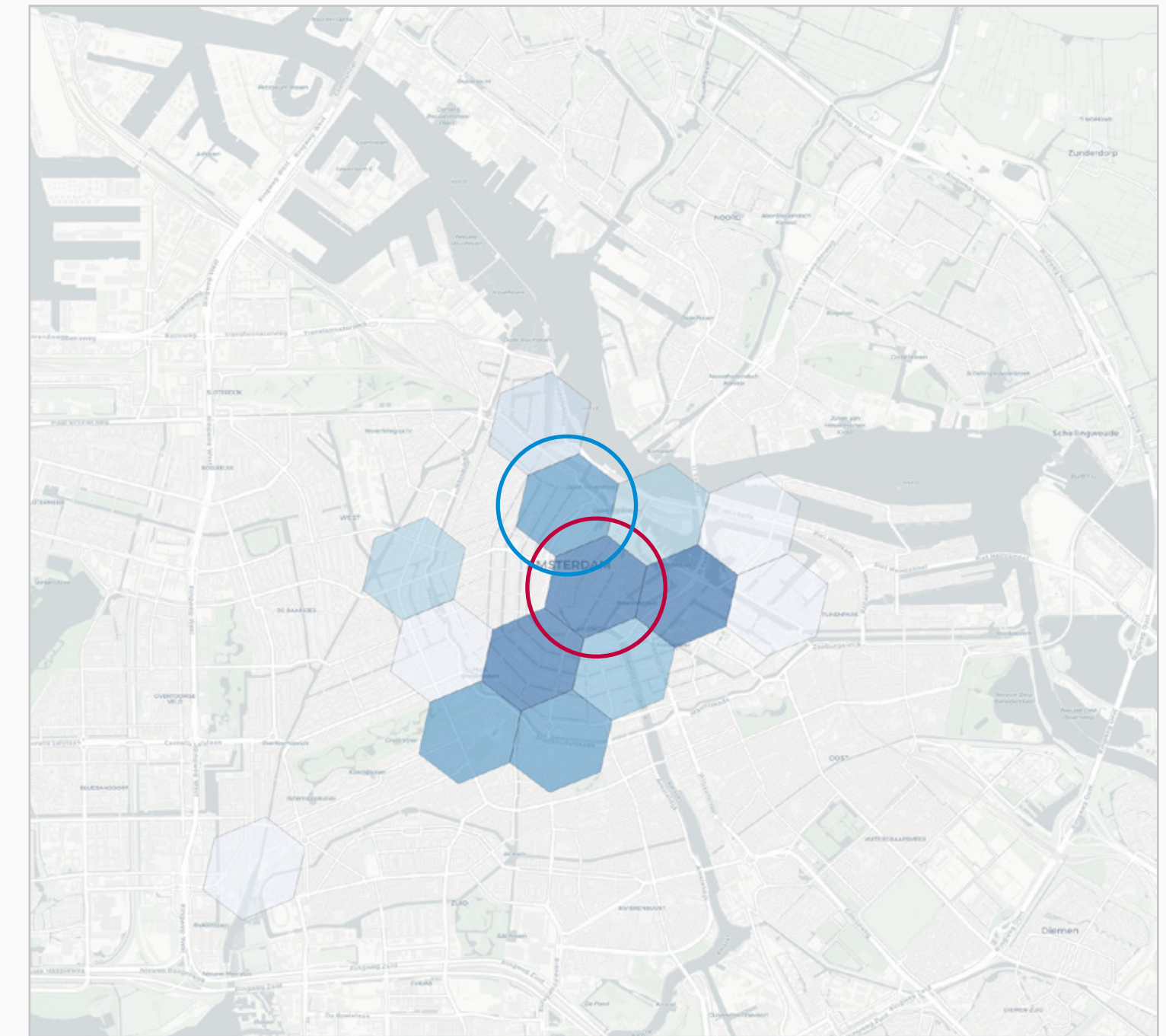
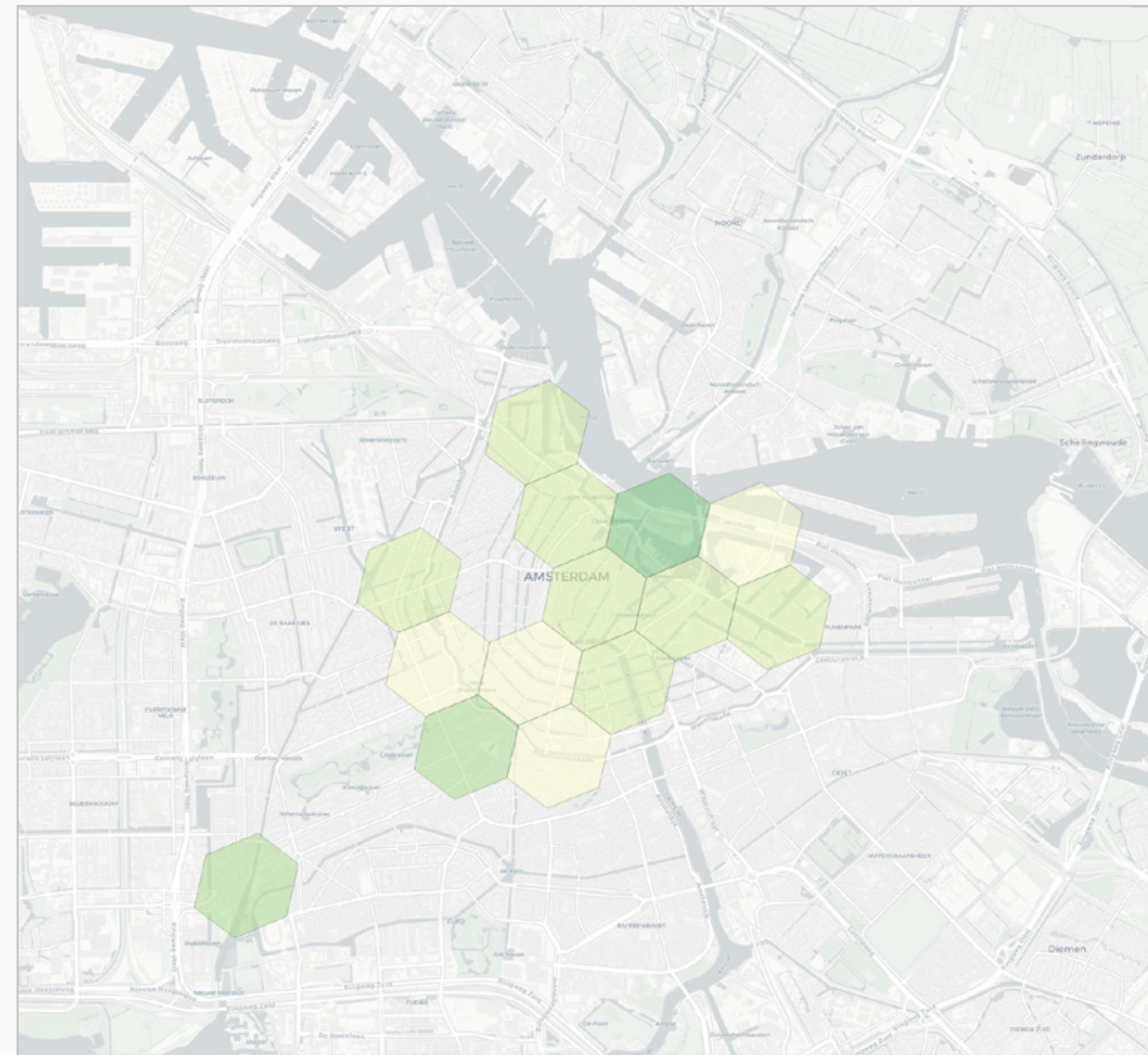
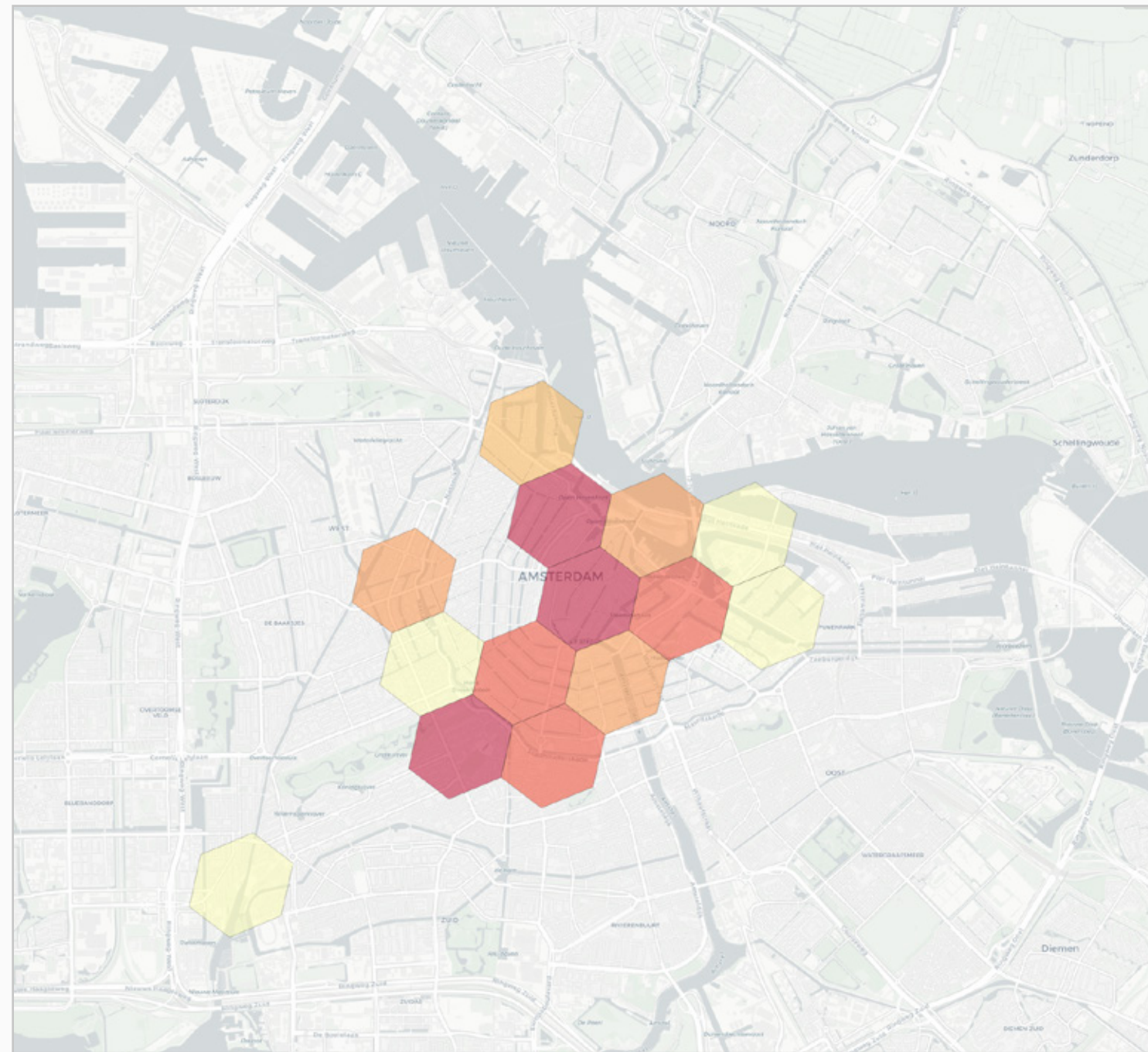


- The best yield in Washington DC comes from the area in the red circle around the White House, Freedom Plaza and Ford's Theatre, which also houses several of the top hotel brands, which helps to drive up pricing and occupancy.
- Good yield also comes from the Downtown/Dupont Circle/Logan Circle area (blue circle), where prices and occupancy are again high, with good provision of parking.

## Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.2.1 Europe: Amsterdam

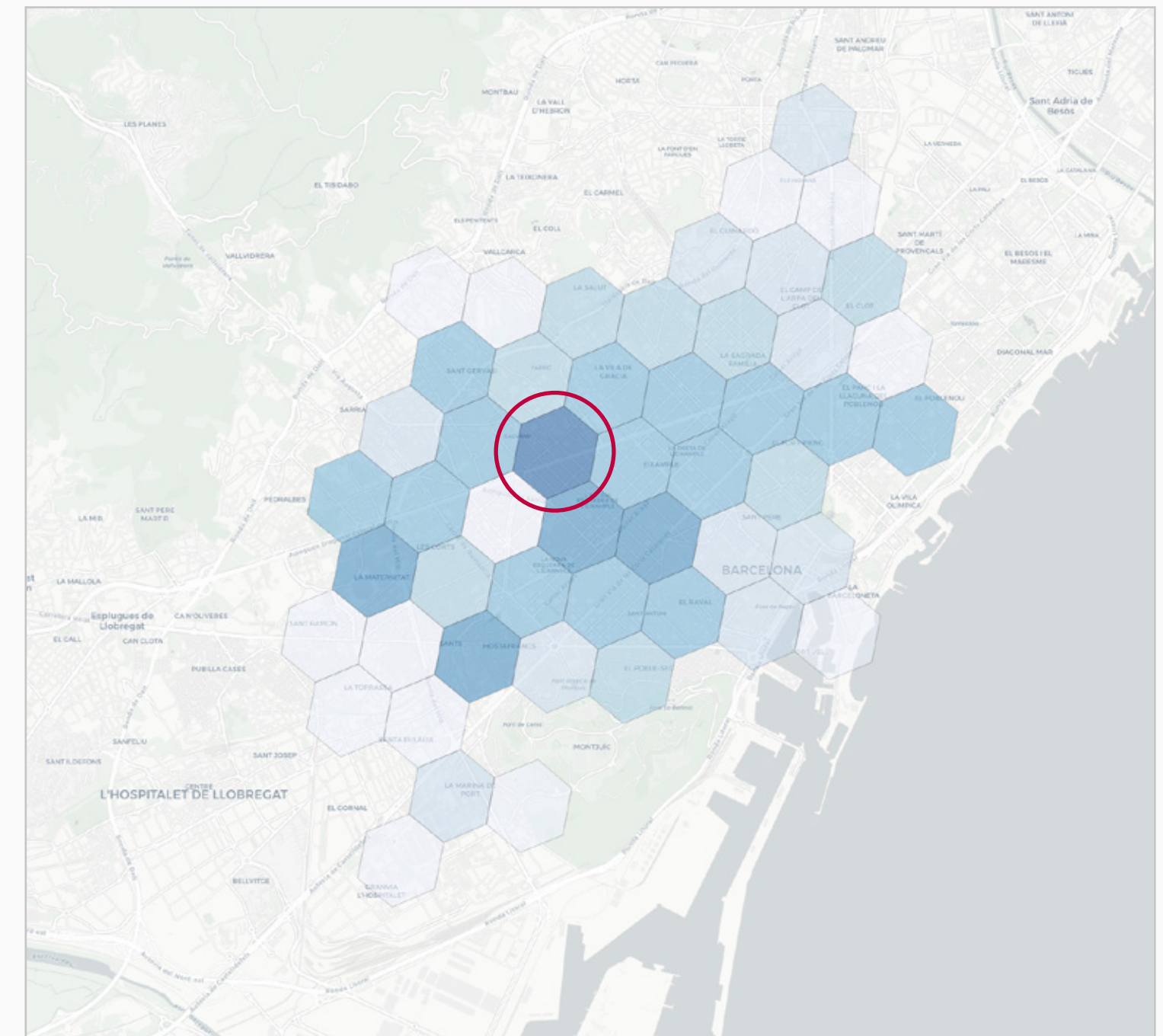
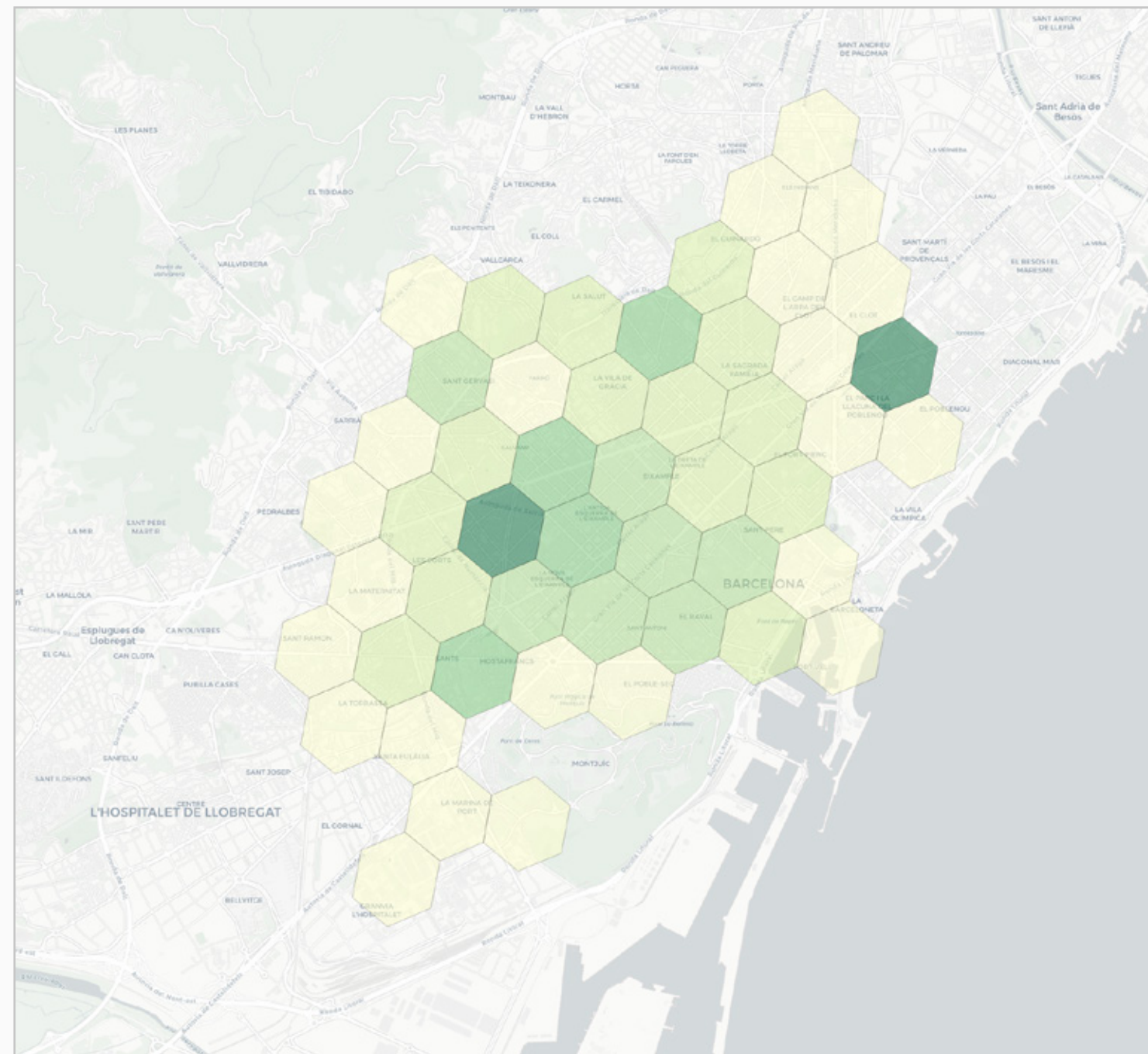
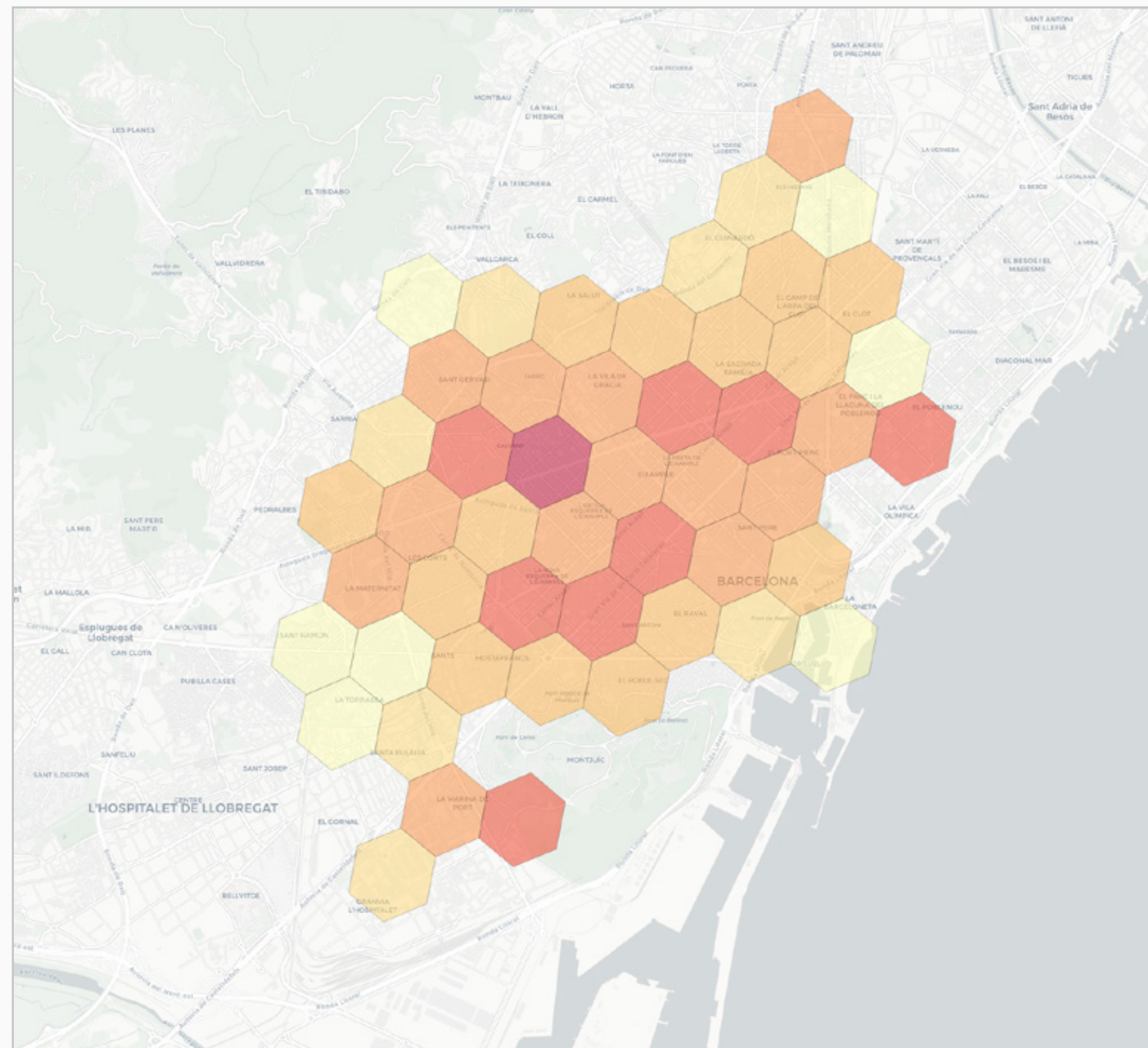


- In the red circle is the downtown area in Amsterdam, and includes the world-famous Flower Market, Anne Frank Museum and the red-light district. With constrained provision of parking, in line with the city policy to reduce the number of cars, prices here are high, leading to relatively high yield.
- Amsterdam Central Station is the dominant feature in the blue circle, as this is also the station where trains from Schiphol airport arrive, resulting in good levels of occupancy and high prices for short-term parking.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.2.2 Europe: Barcelona

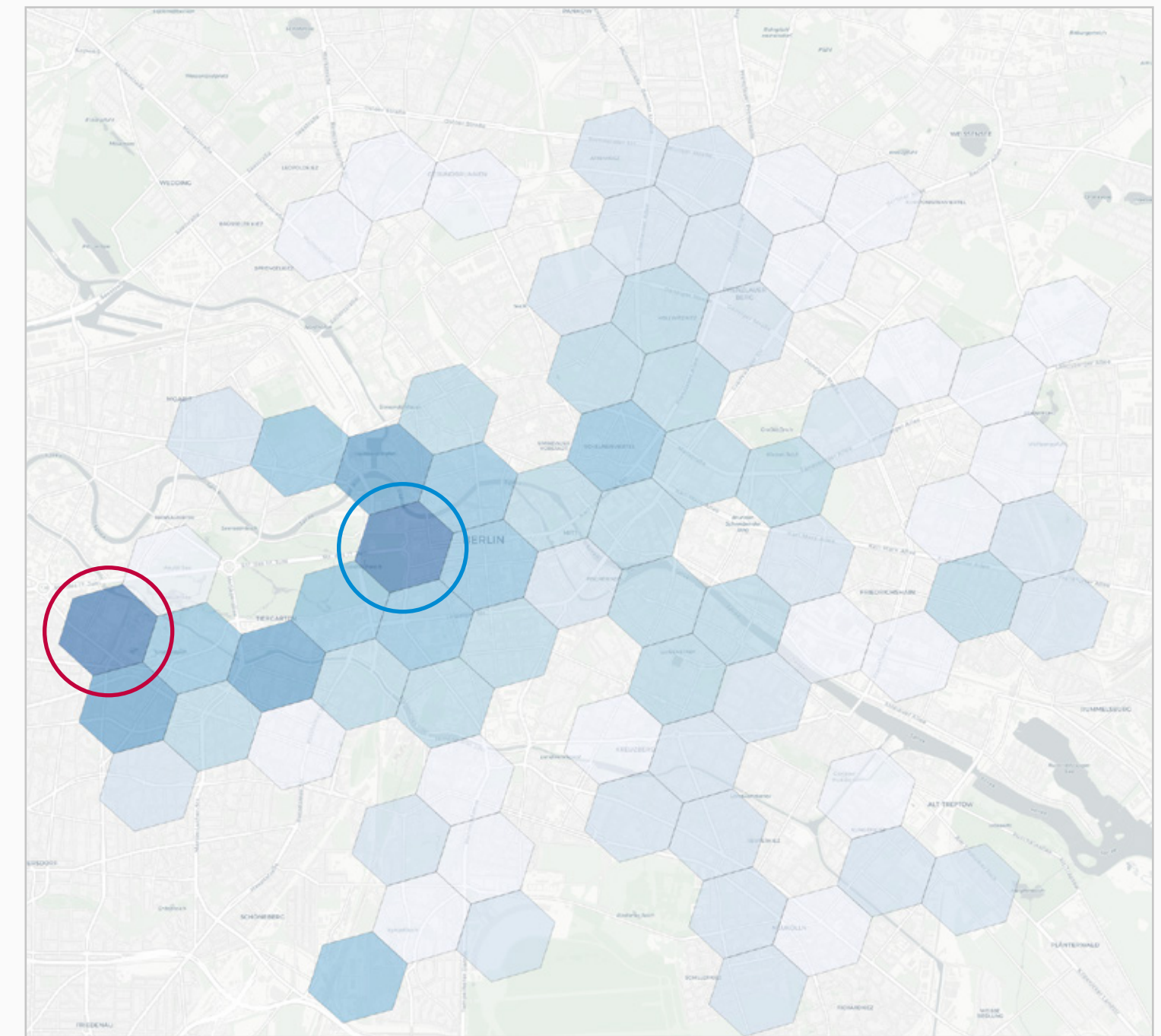
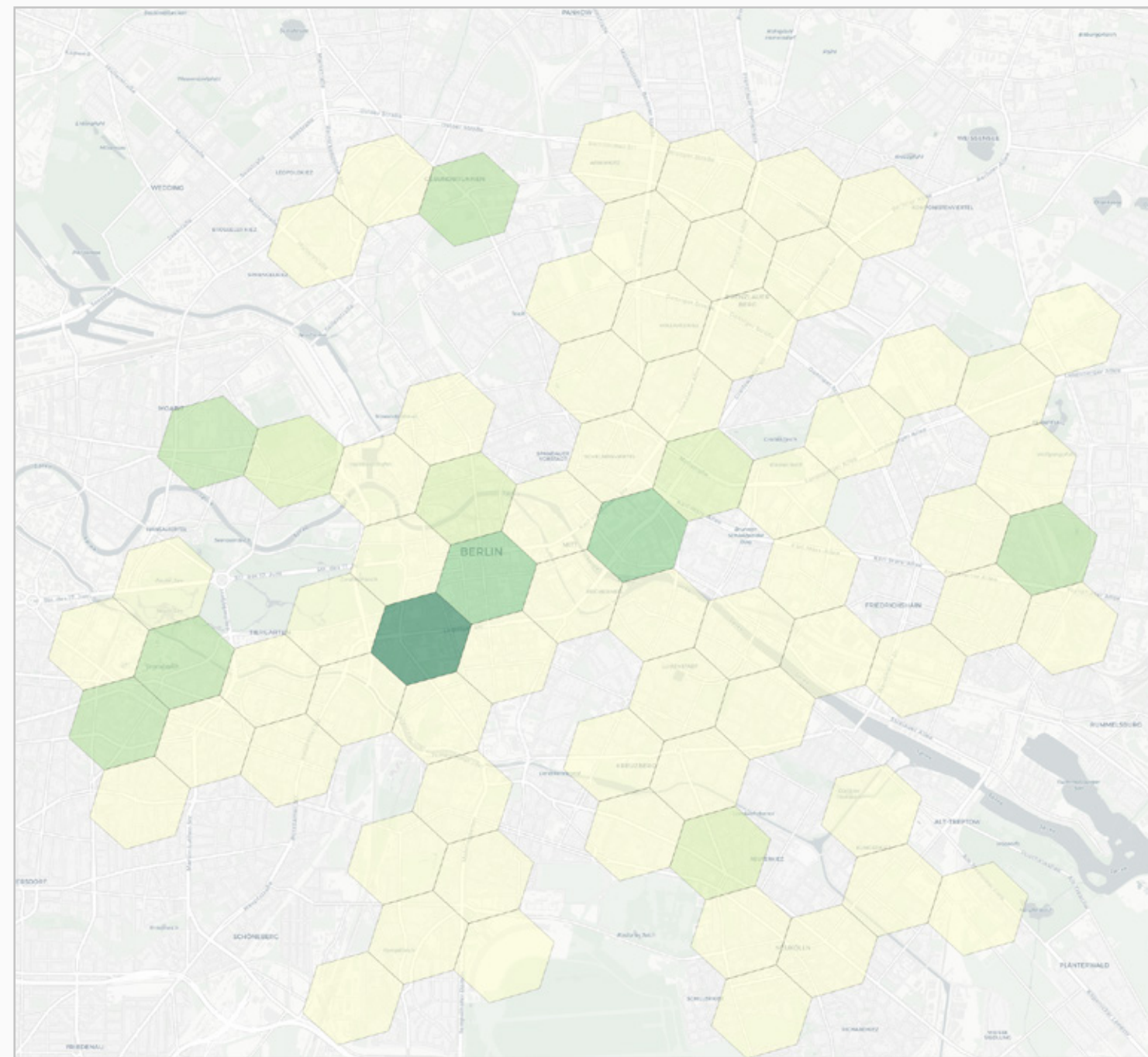
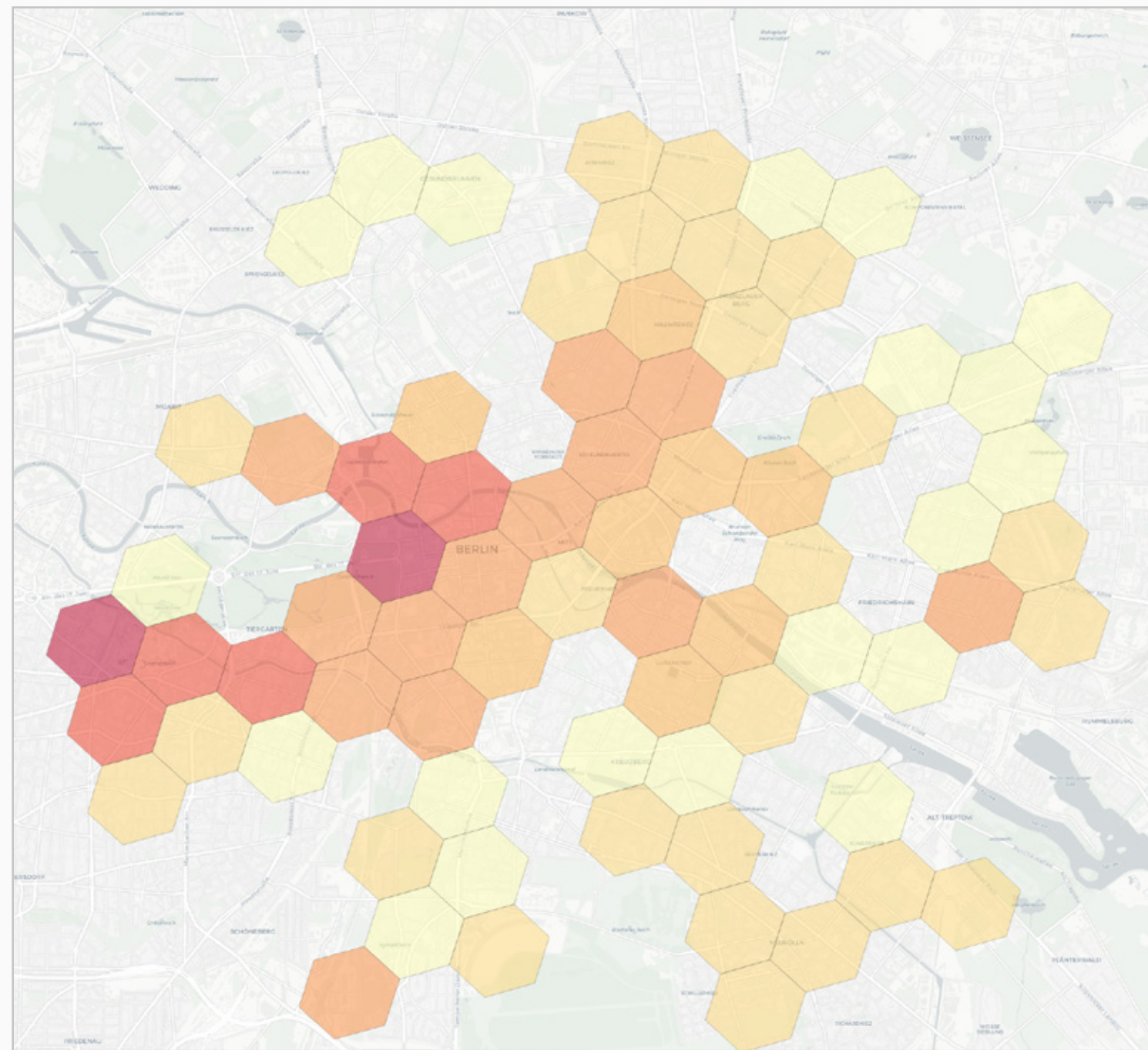


- The district of l'Eixample, in the red circle, includes the main shopping area of Barcelona, resulting in high prices, pressure on parking provision, high levels of occupancy and high yield.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.2.3 Europe: Berlin

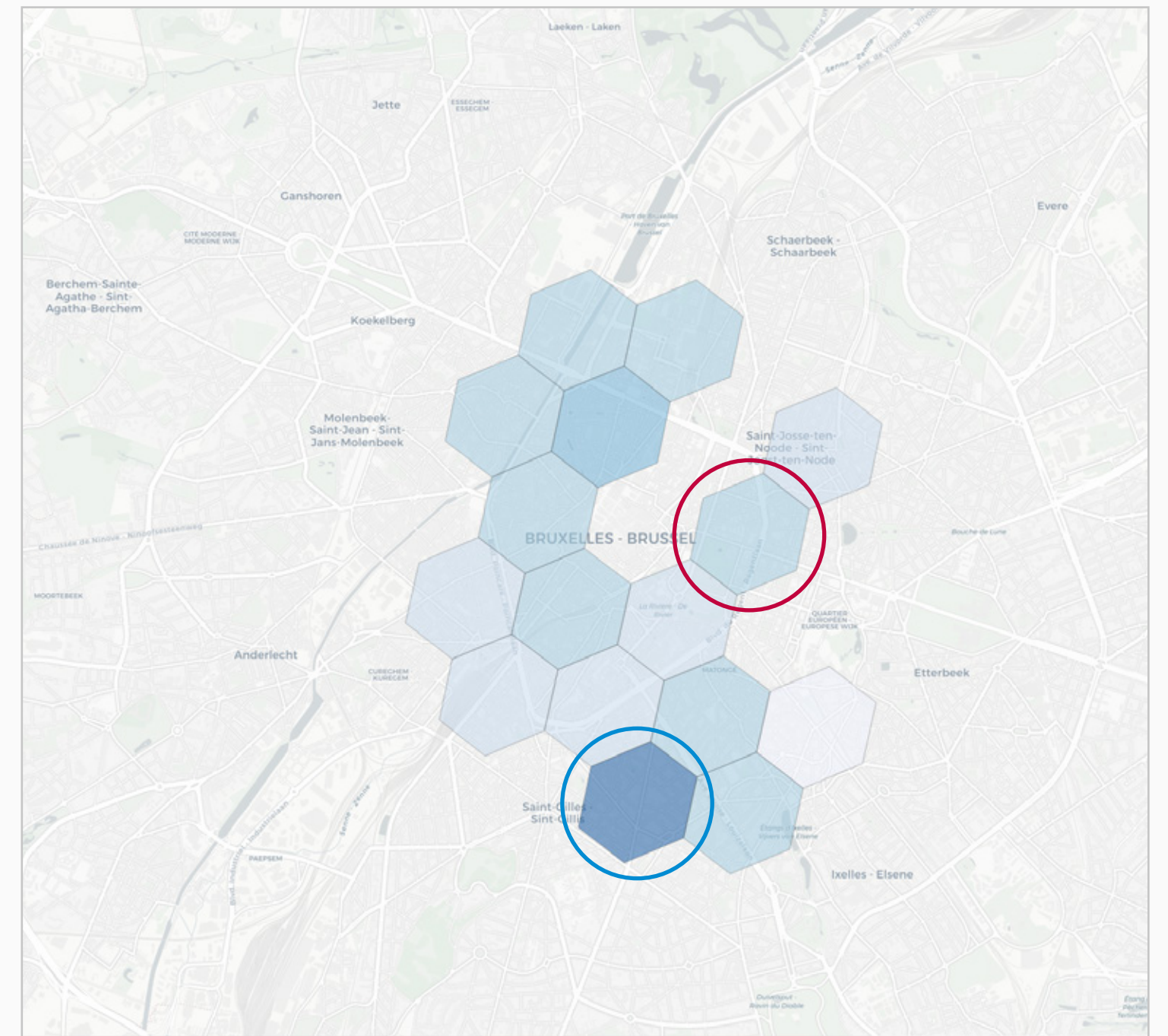
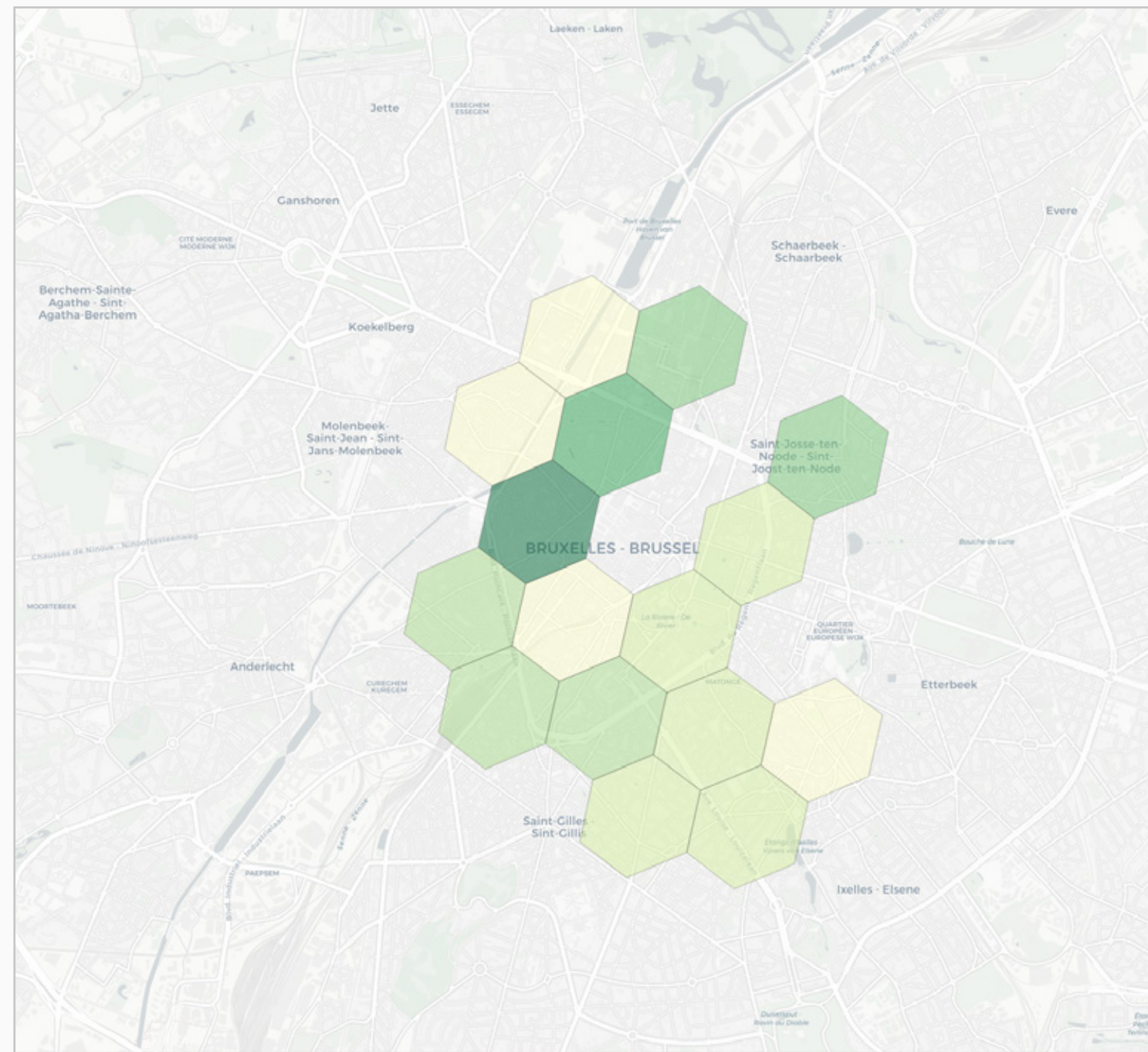
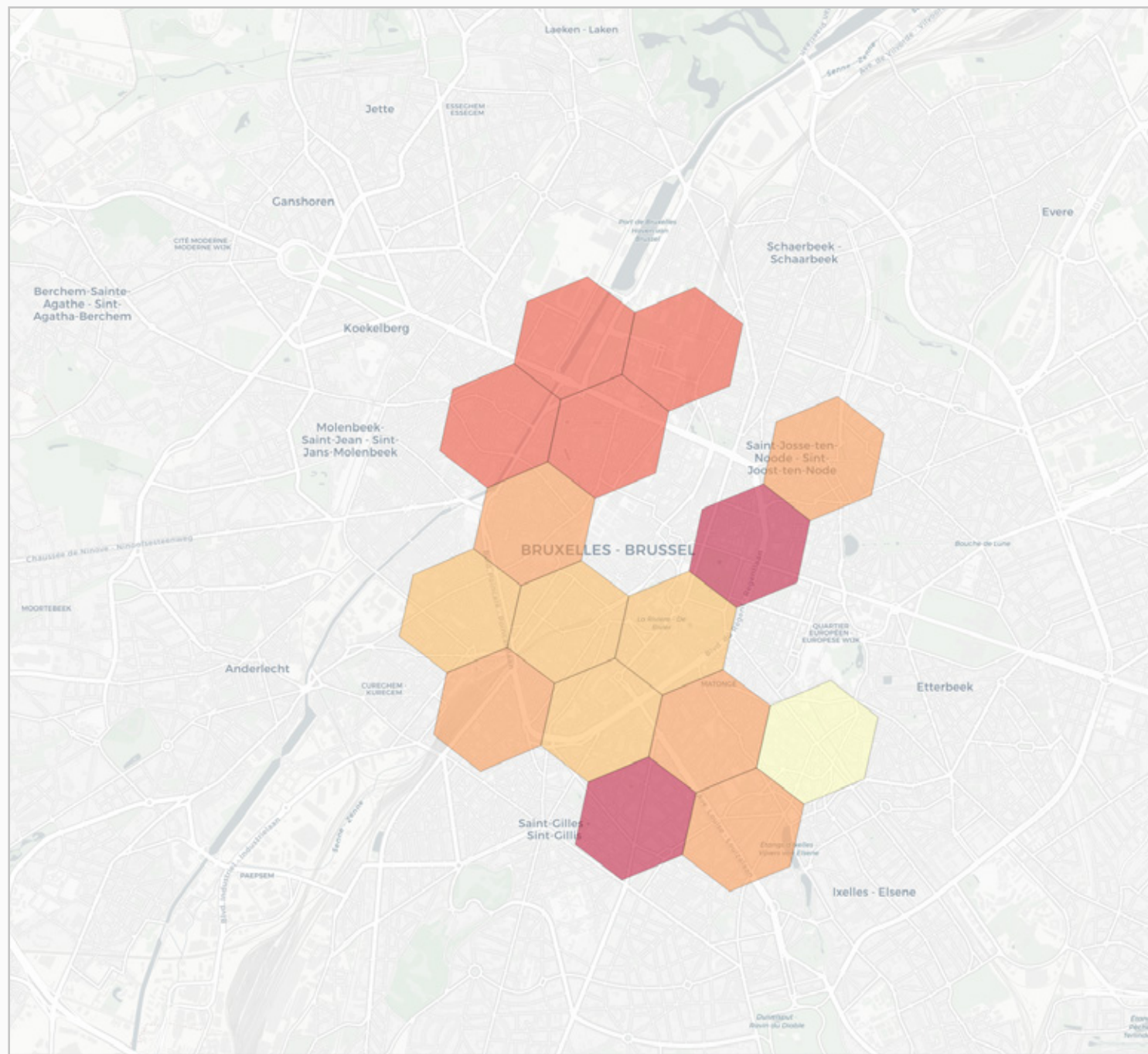


- The area around KaDeWe and Kudamm (red circle), rich in shopping and entertainment, provides a captive market willing to pay higher prices against limited parking provision, resulting in good yield.
- The other area of high yield is in Berlin Mitte, East of the Brandenburg Gate and between Unter den Linden and Leipziger Platz, shown in the blue circle, driven by high prices and high occupancy.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.2.4 Europe: Brussels



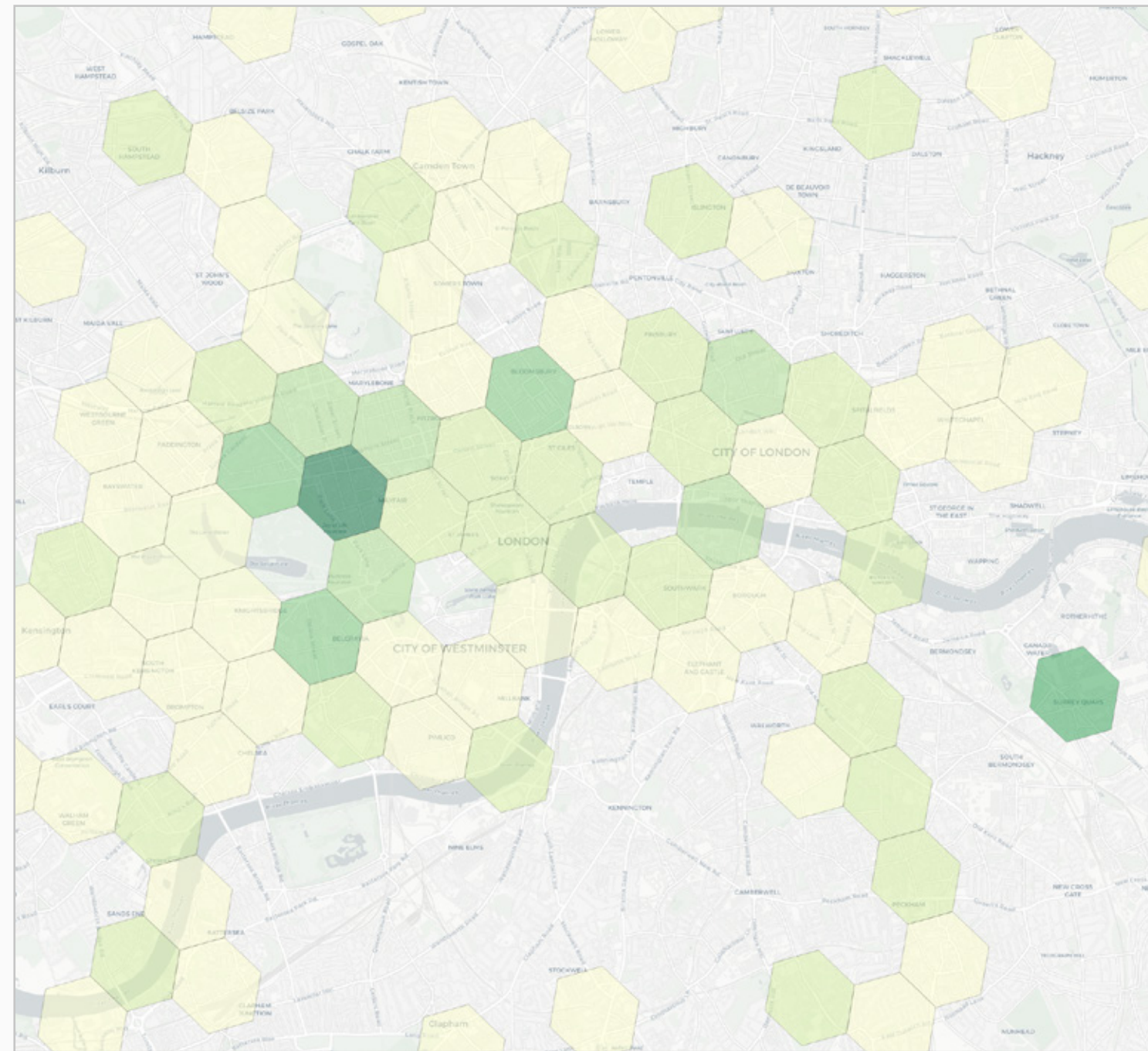
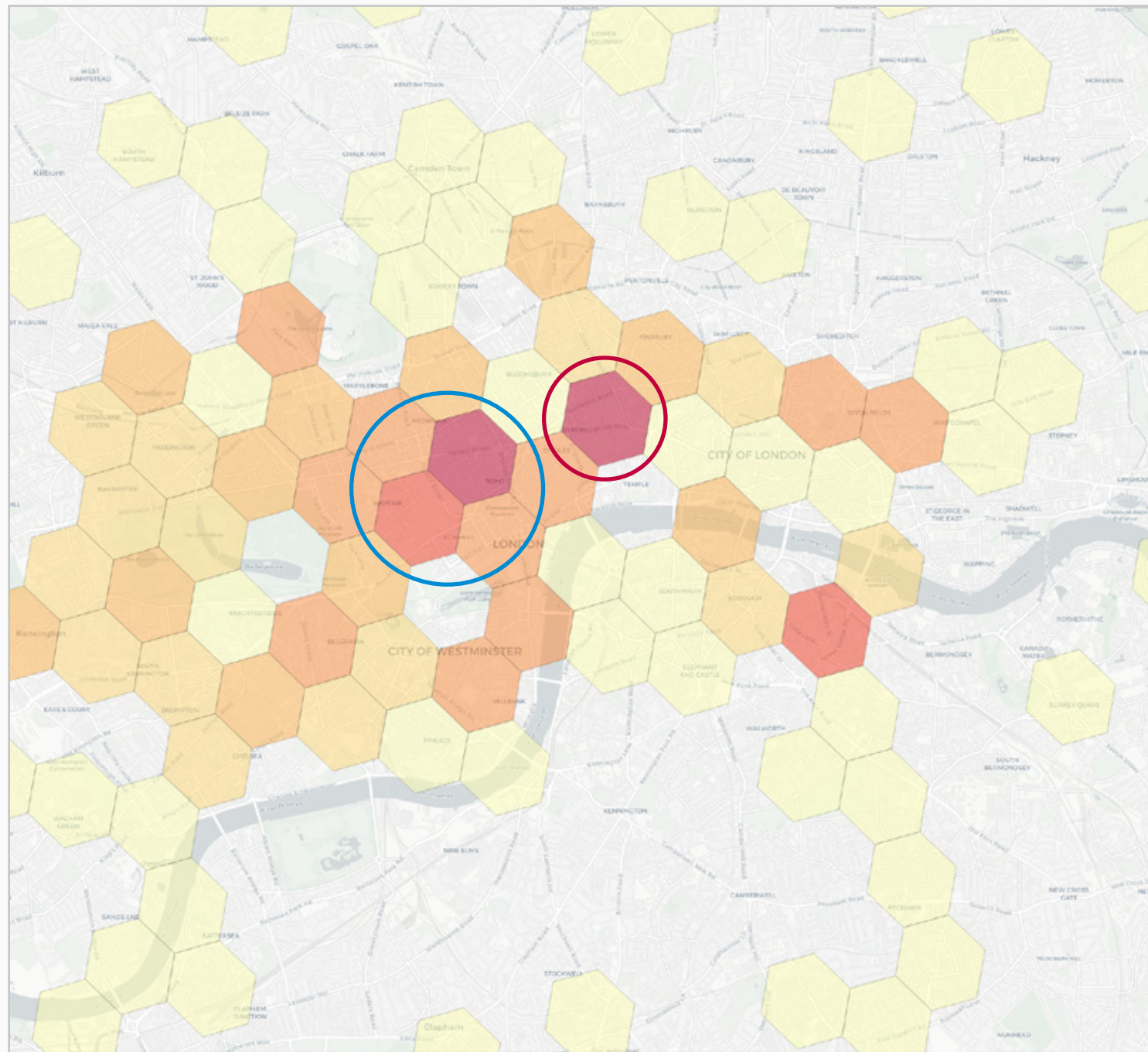
- The high-end shopping area around Avenue Louise (red circle) produces good yield, due to the comparatively high prices.
- High prices around Brussels-Midi station (blue circle), where Eurostar and airport trains arrive, result in good yield.

### Maps Key

-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield





# 6.2.5 Europe: London

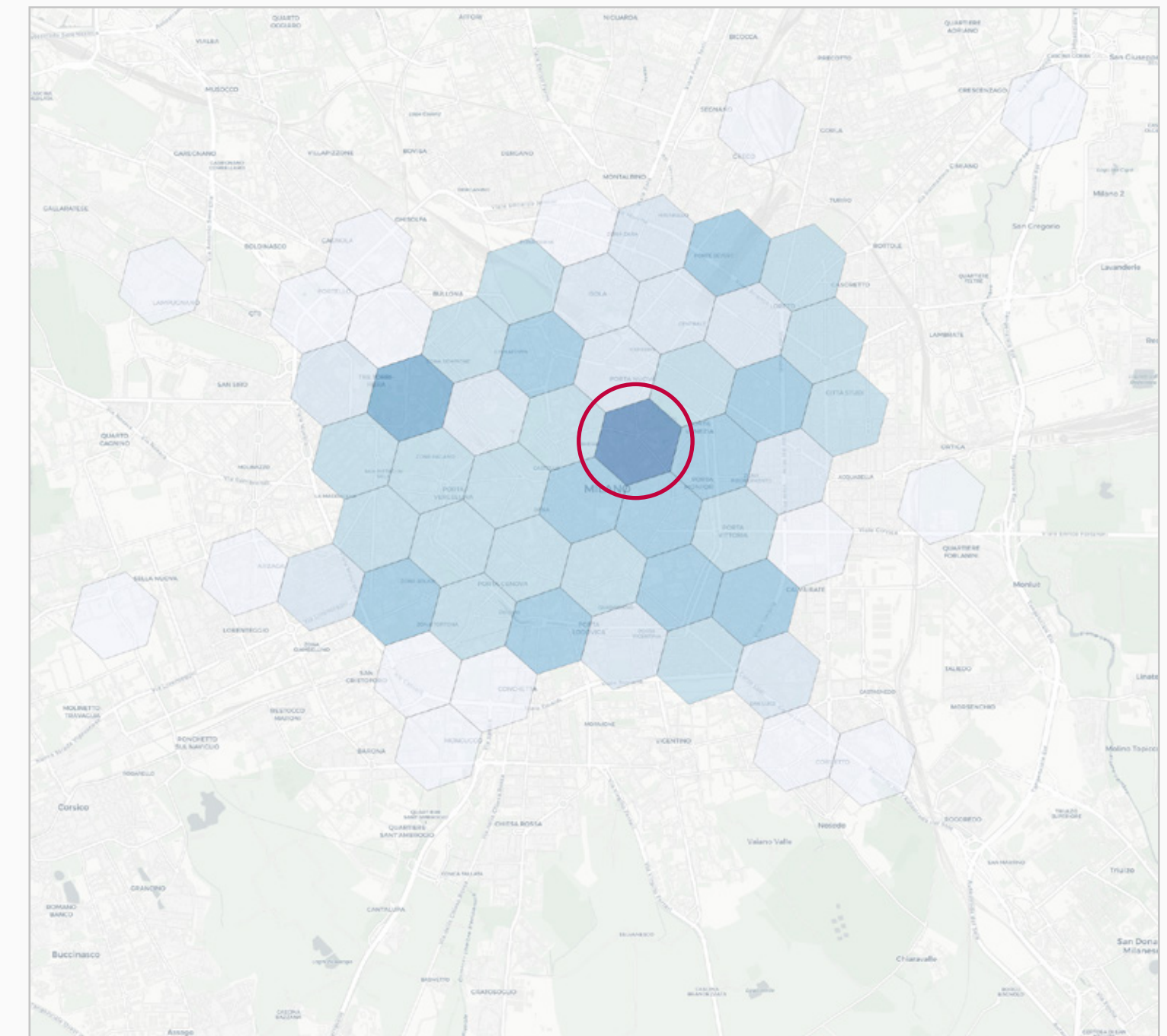
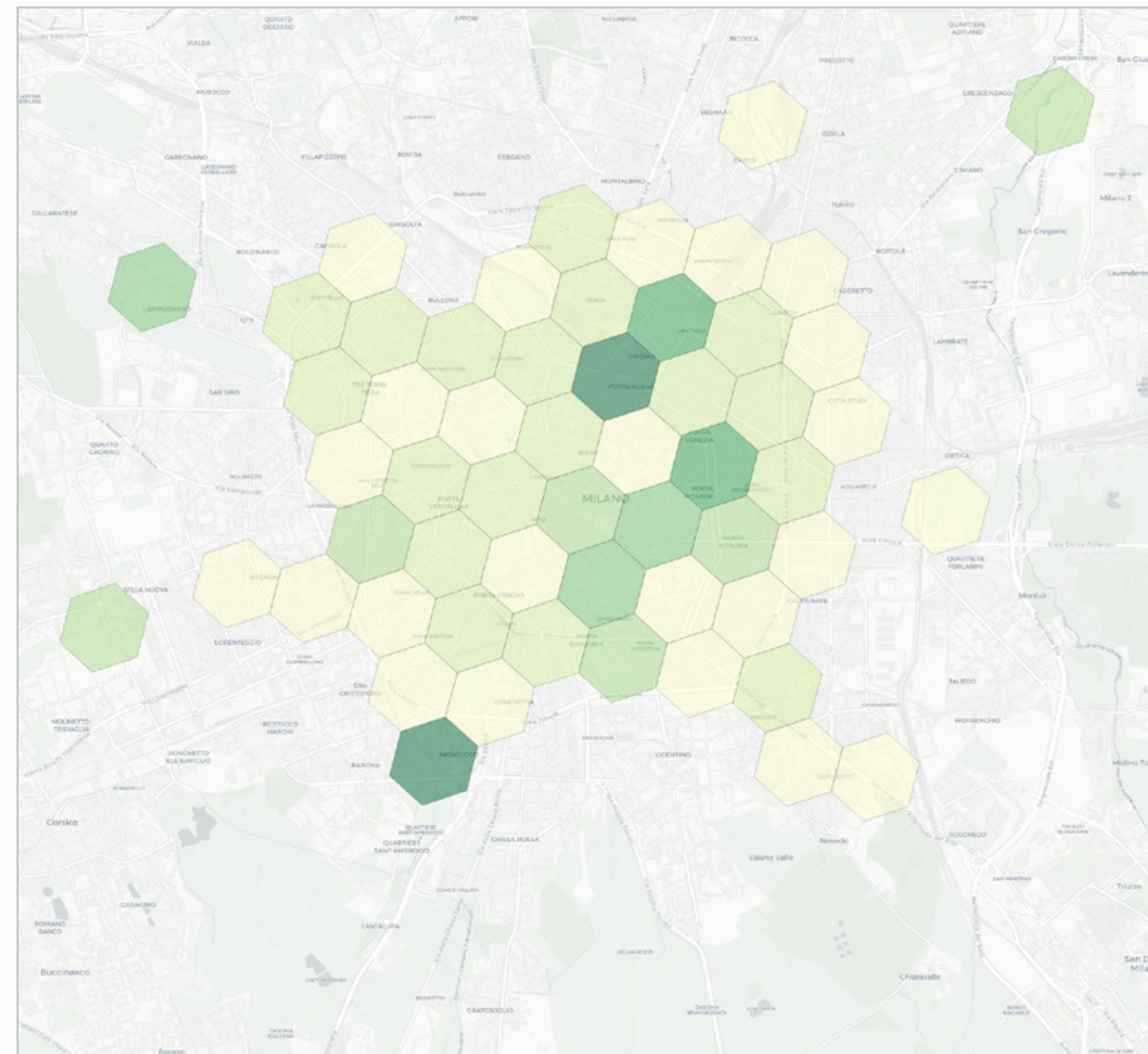
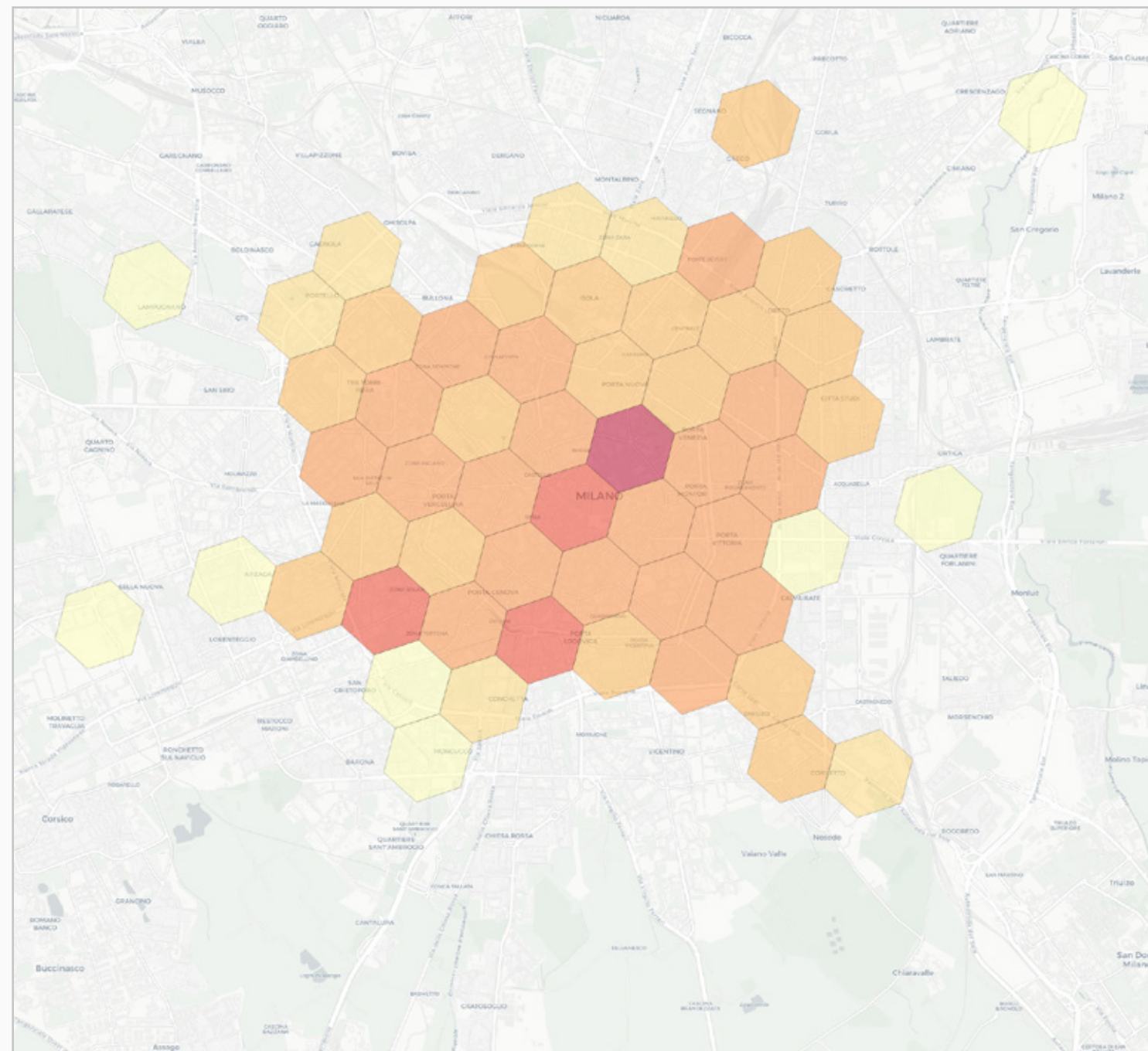


- The financial district of London, around Liverpool Street station and “The City”, is shown in the red circle, resulting in extremely high prices.
- Prices also peak in around the main shopping areas of Oxford Street and Mayfair, which are home to large department stores and high-end shopping, again pushing up prices and making London one of the most expensive cities in which to park.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density

## 6.2.6 Europe: Milan

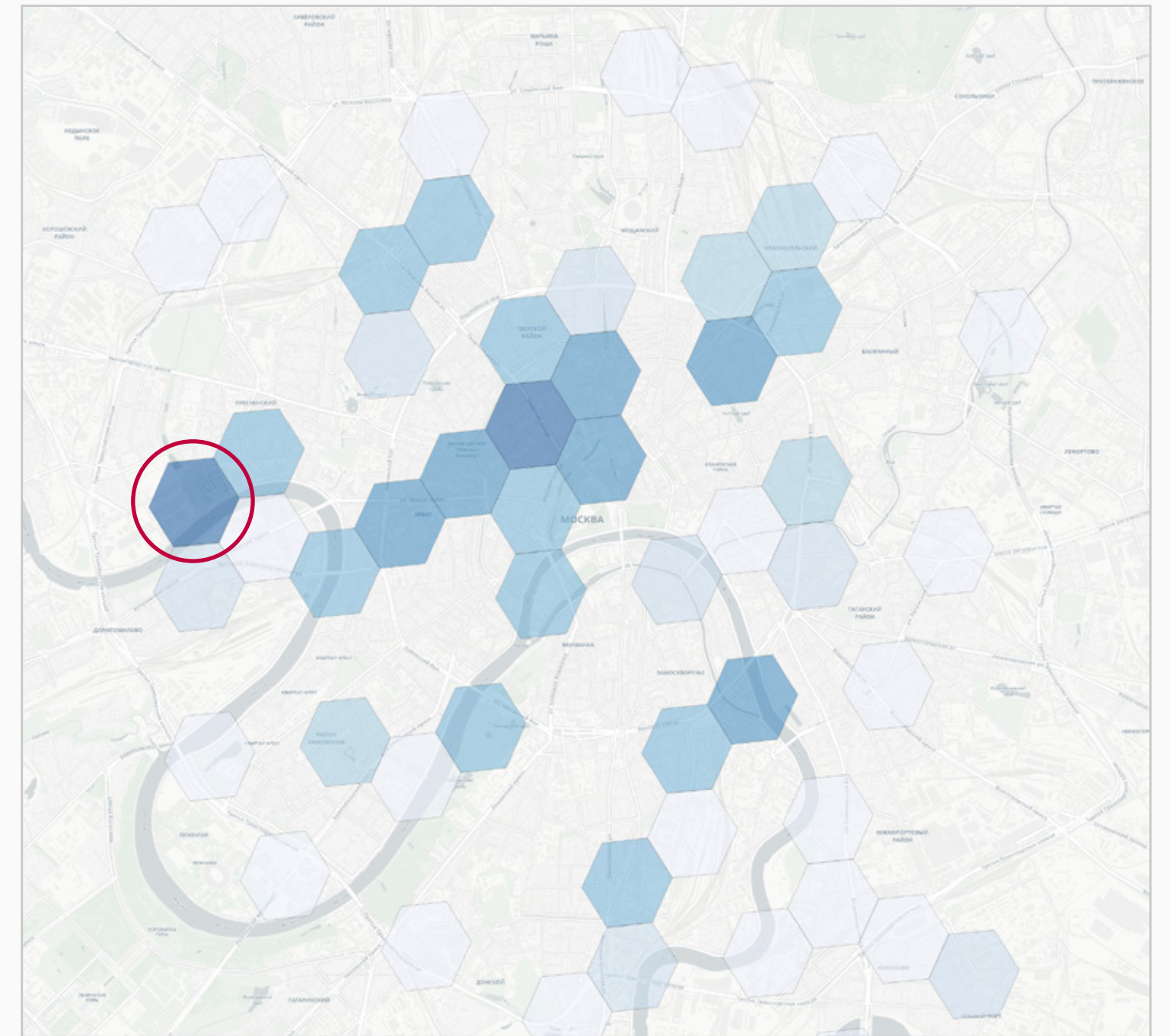
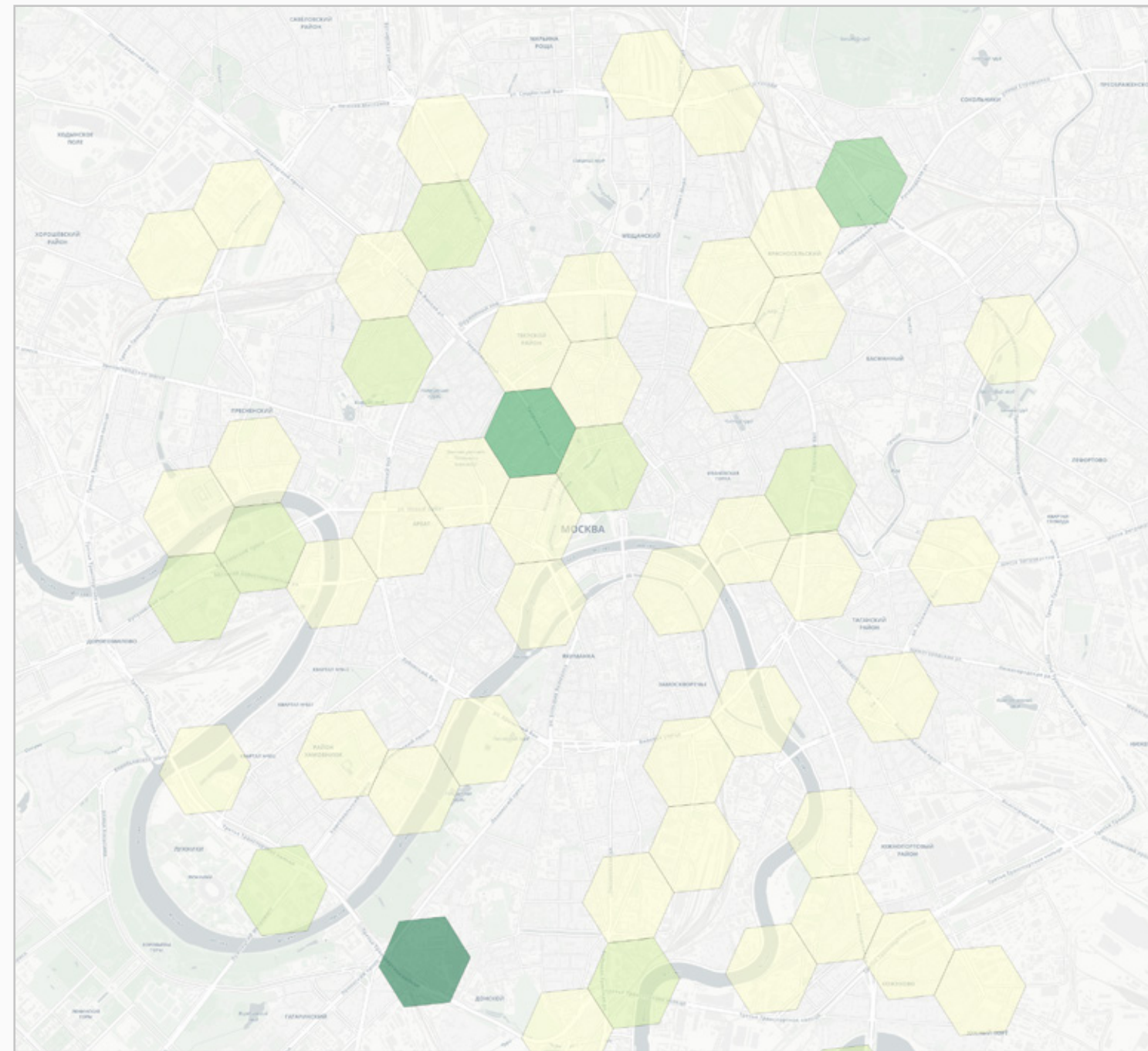
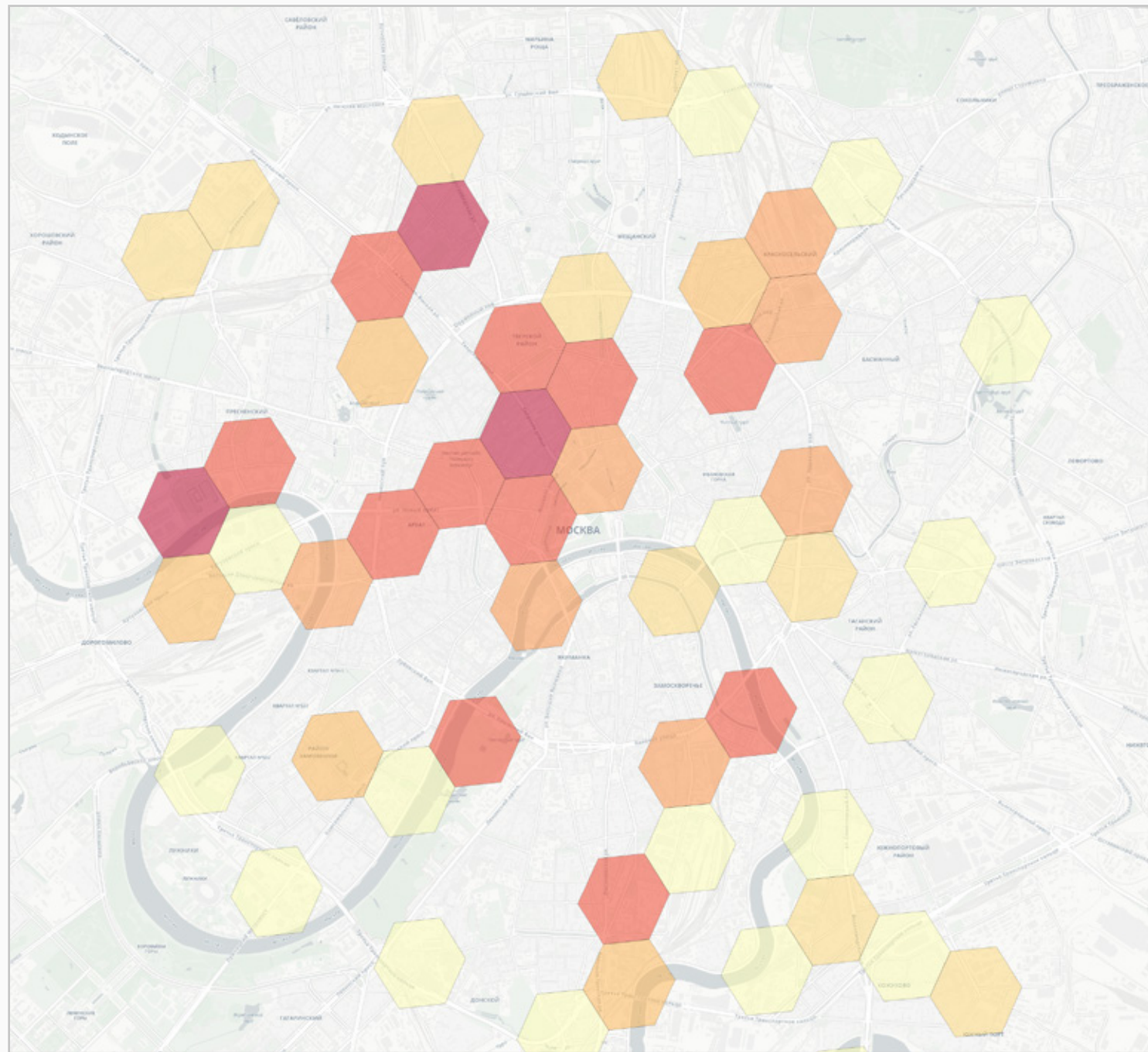


- The best yield in Milan comes from the area around Via Pietro Verri, where the high-end fashion brands including Chanel, Moschino, Tiffany and Saint Laurent, are located, resulting in high prices and occupancy levels.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.2.7 Europe: Moscow

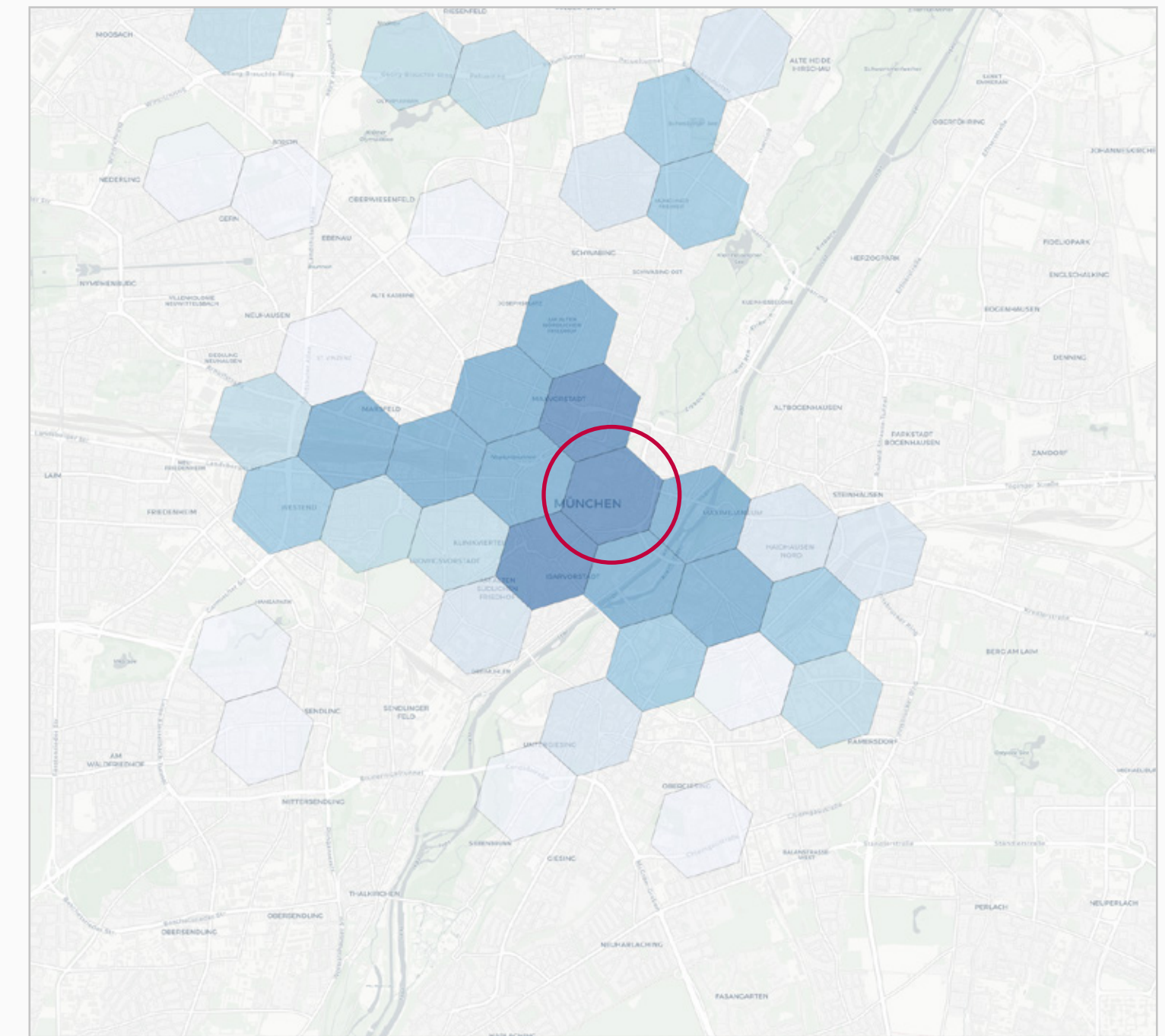
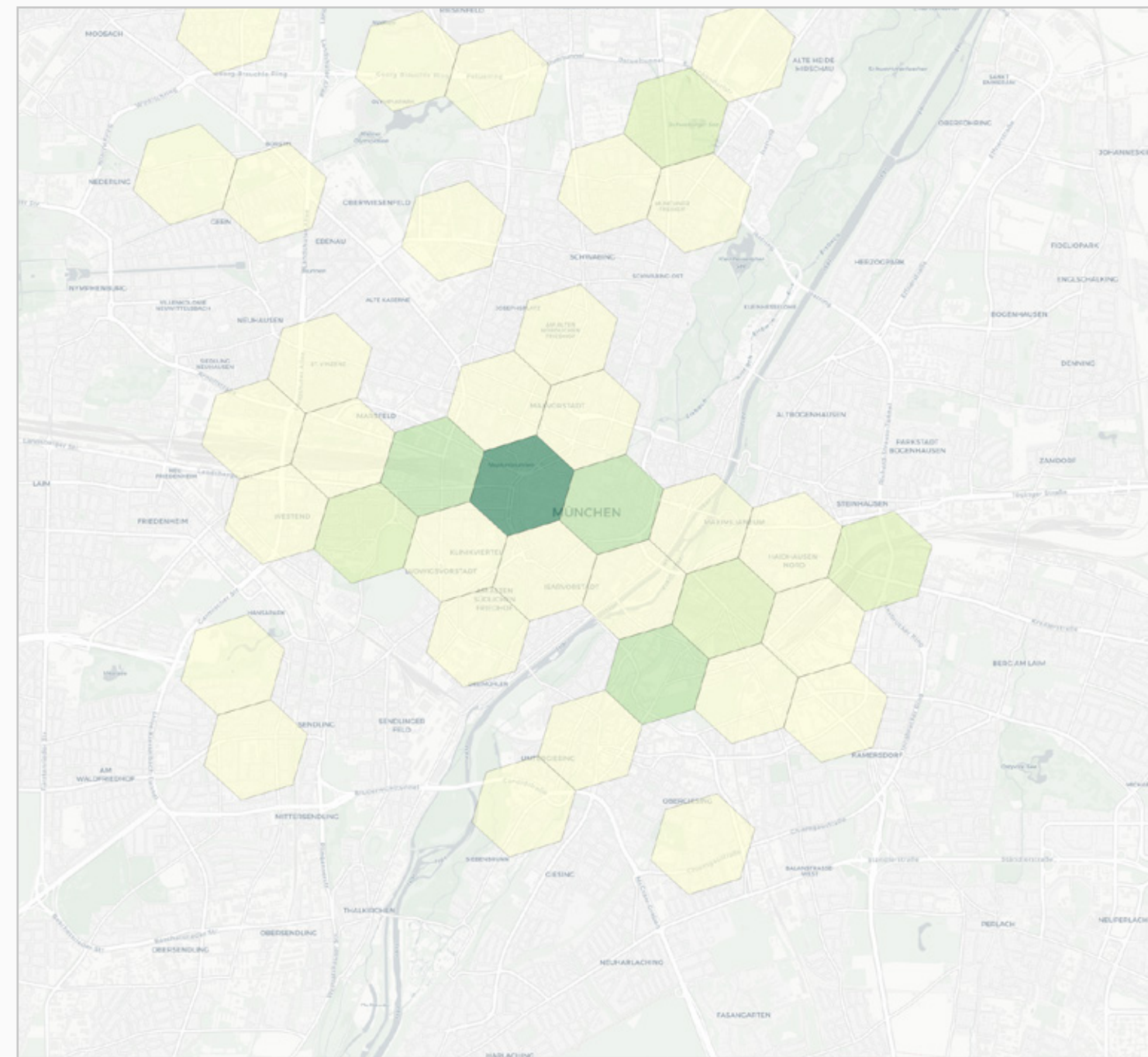
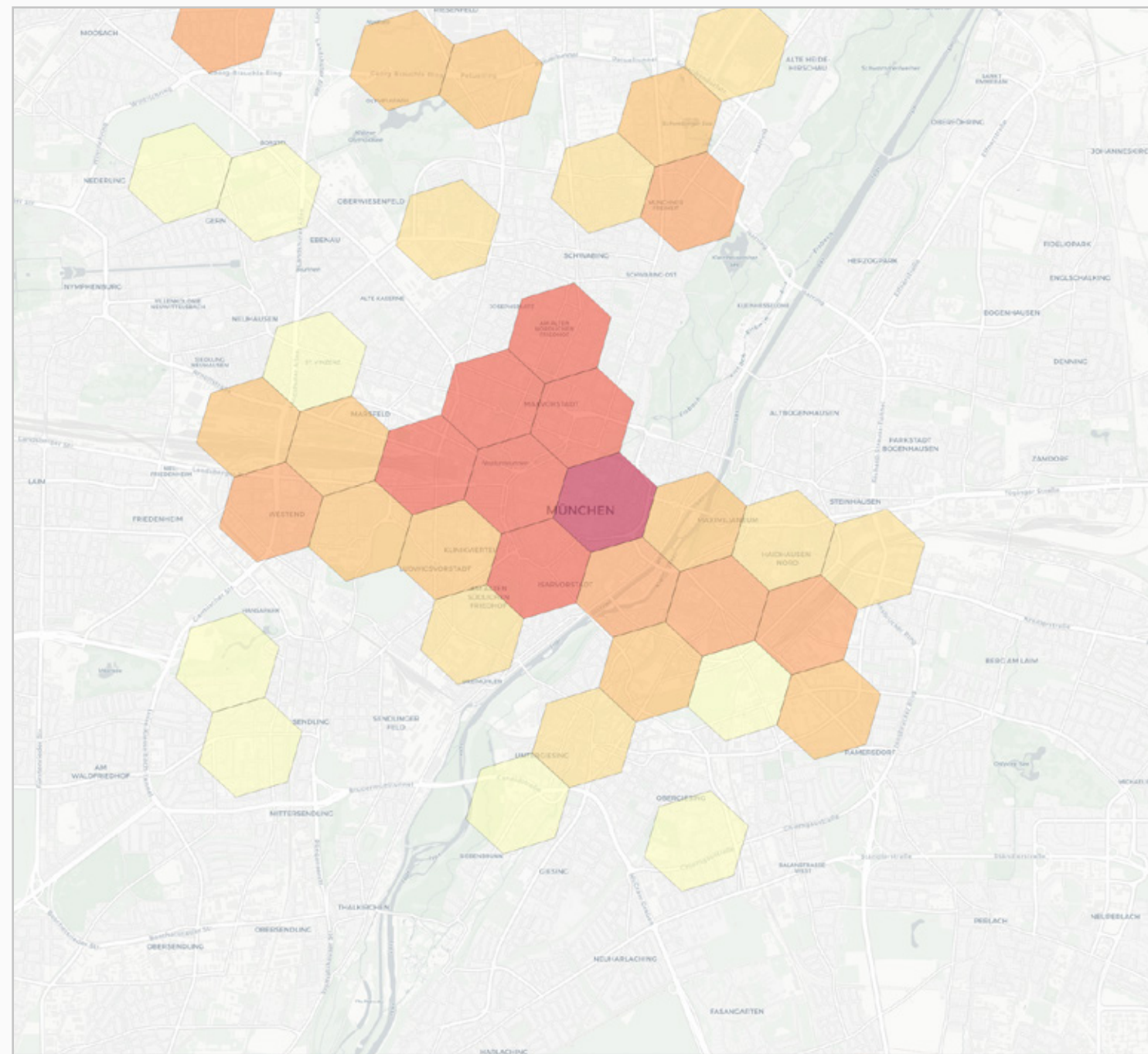


- The area captured within the red circle is the main business area in Moscow, which pushes up the prices, resulting in good yield, despite occupancy levels being slightly lower than other areas of the city.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.2.8 Europe: Munich

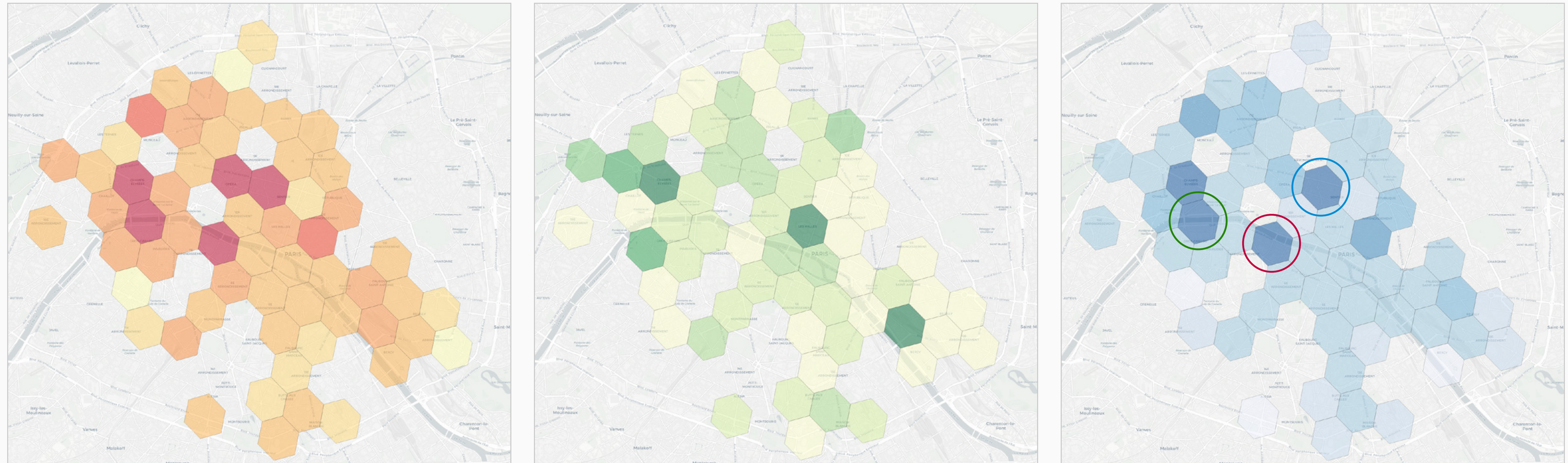


- The highest prices for parking in Munich are around the city centre; although there is slightly lower capacity than neighbouring areas, the yield here is still good.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.2.9 Europe: Paris

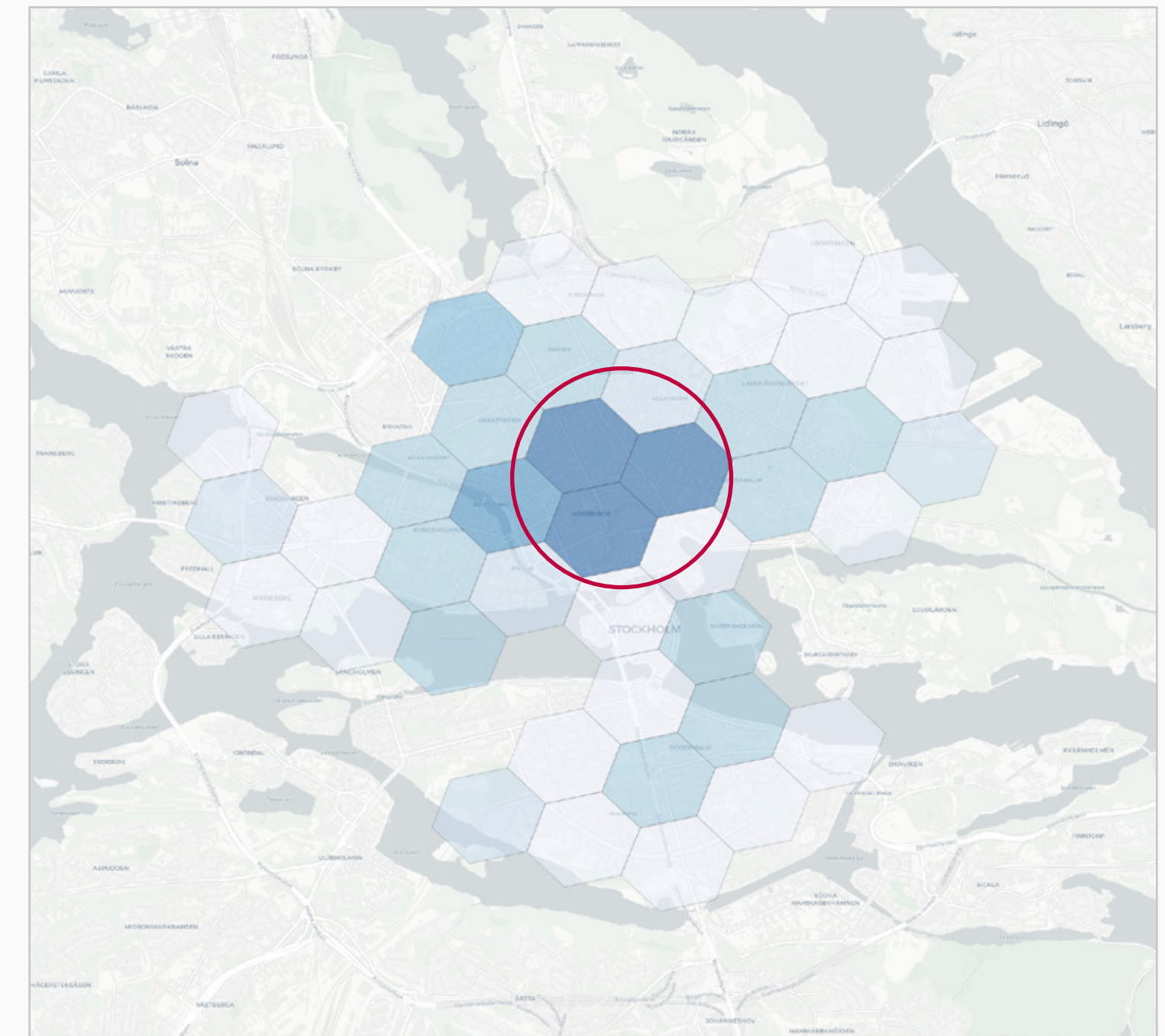
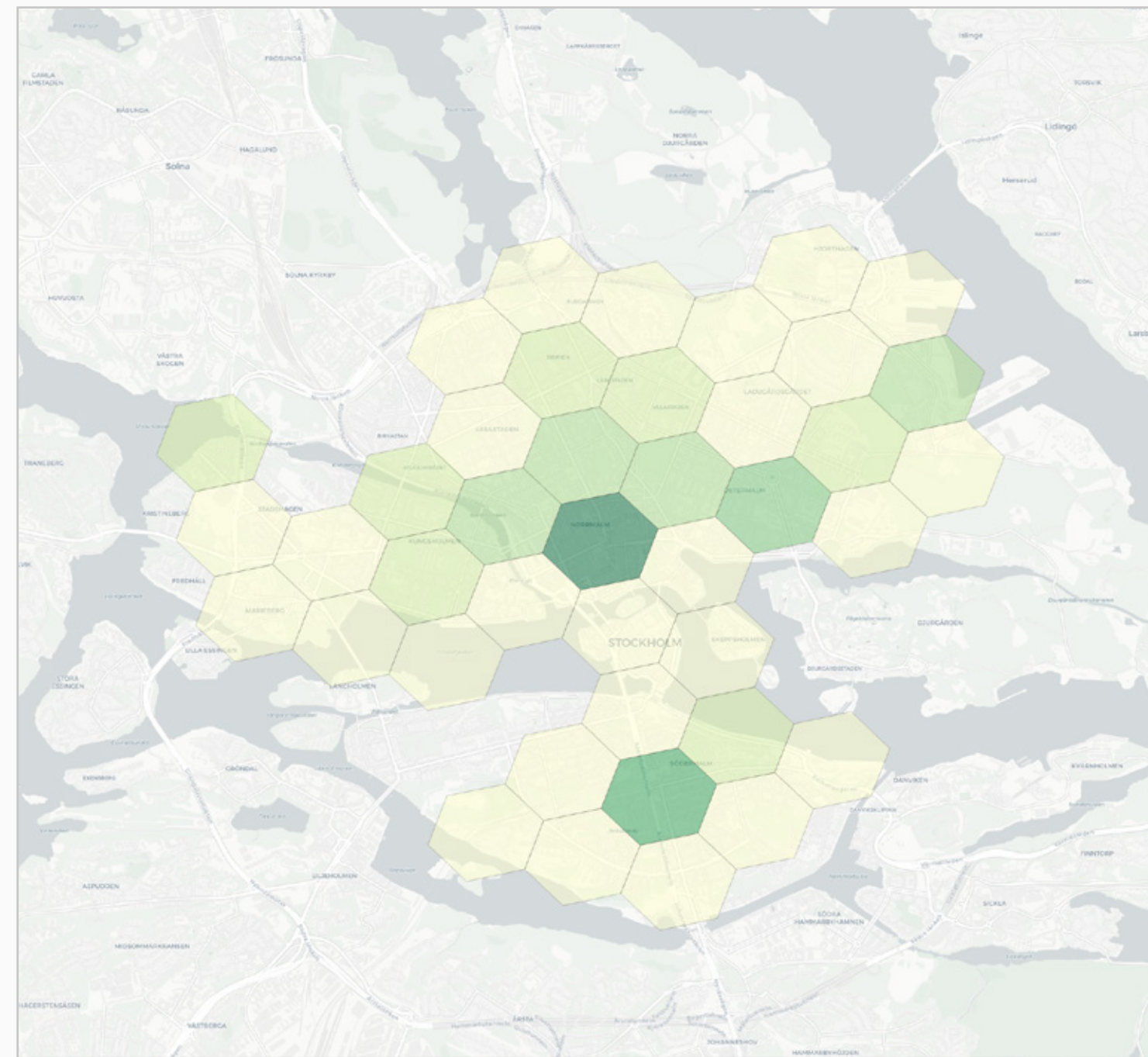
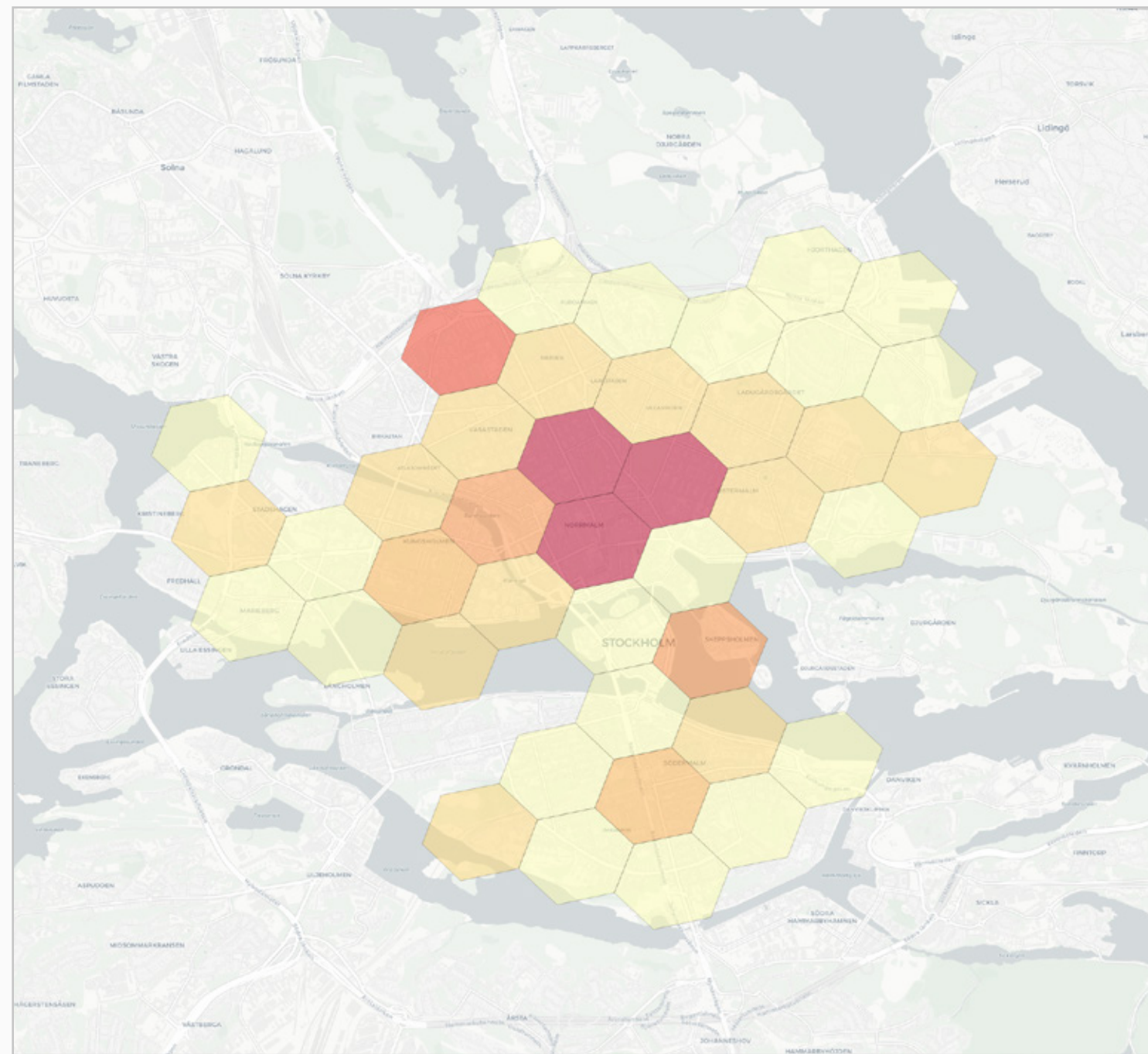


- The area in the red circle covers both the 1st and 7th arrondissement, is close to the Eiffel Tower and includes Invalides, The Louvre museum and the Museum d'Orsay, pushing up prices, demand and therefore yield.
- The area defined in the blue circle is the 10th arrondissement, home to two major train stations, Gare du Nord (Eurostar arrives here), and Gare de l'Est.
- The famous Champs-Elysees in Paris' 8th arrondissement is shown in the green circle, and is home to the high end fashion brands. High levels of occupancy and high parking prices provide good yield.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.2.10 Europe: Stockholm

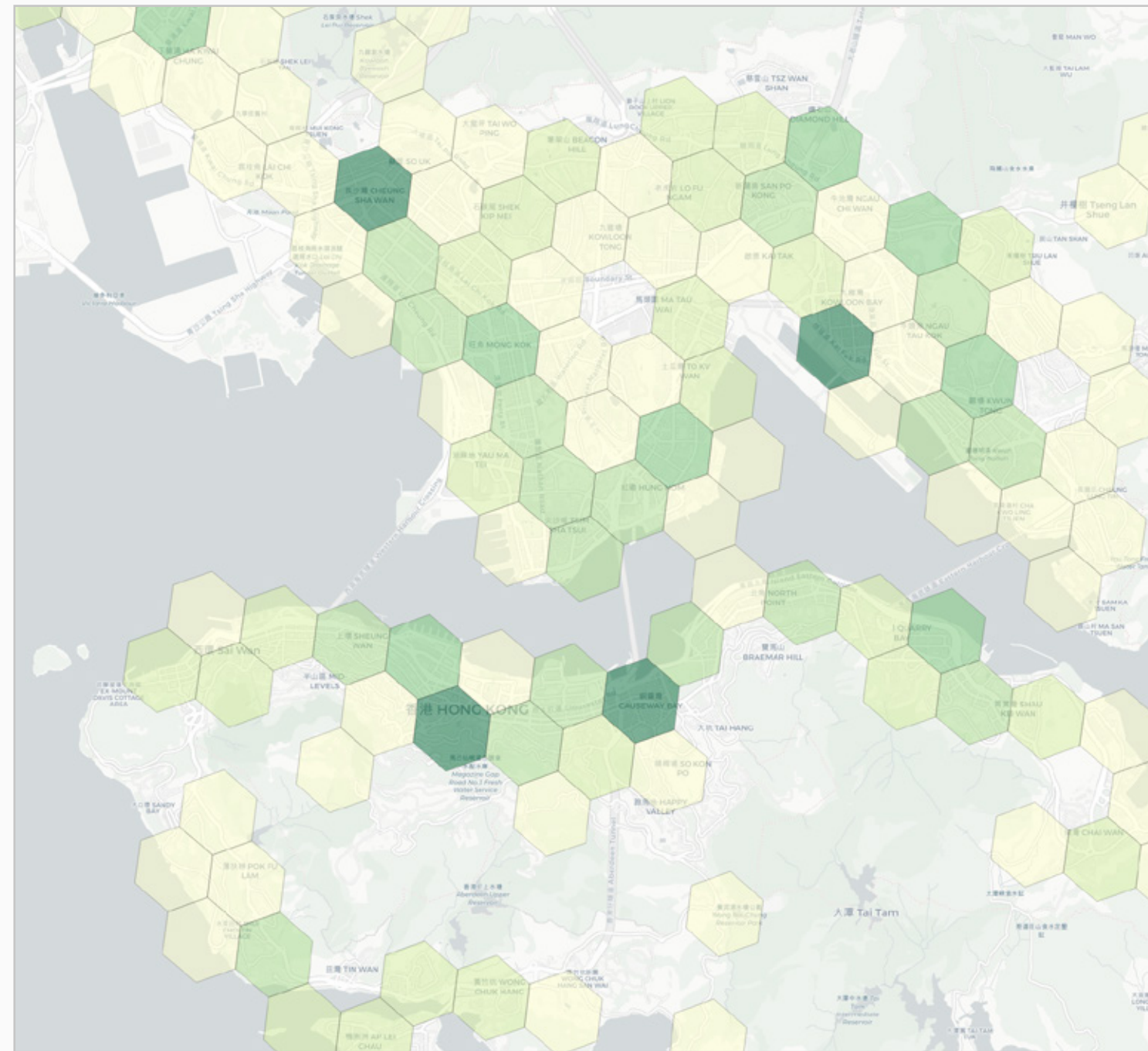
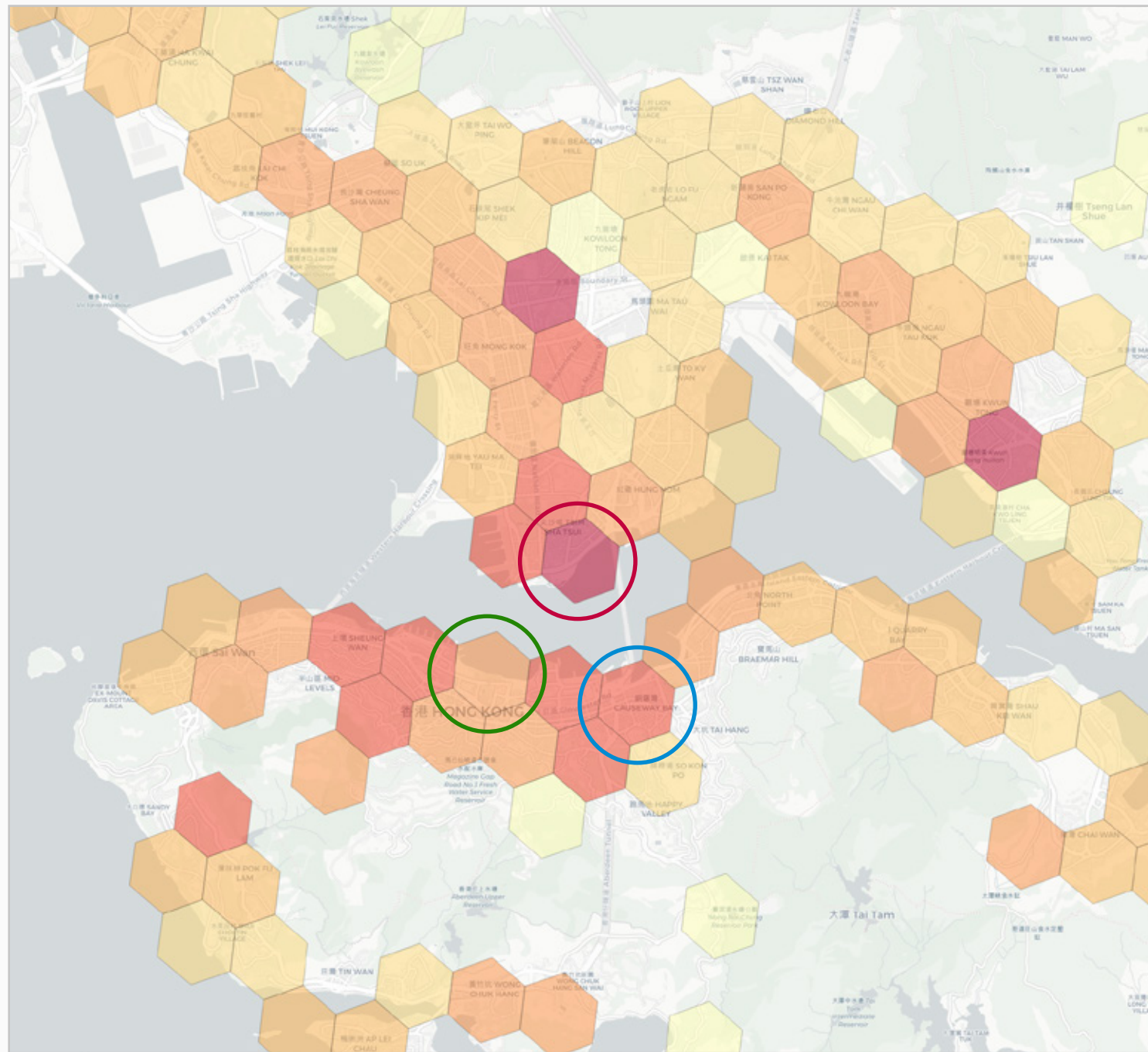


- The city centre is included in the red circle, and is home to main shops, hotels, the central train station, and the city conference centre, all factors which result in high prices, high levels of occupancy and therefore high yield.

### Maps Key



-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

# 6.3.1 Asia-Pacific: Hong Kong

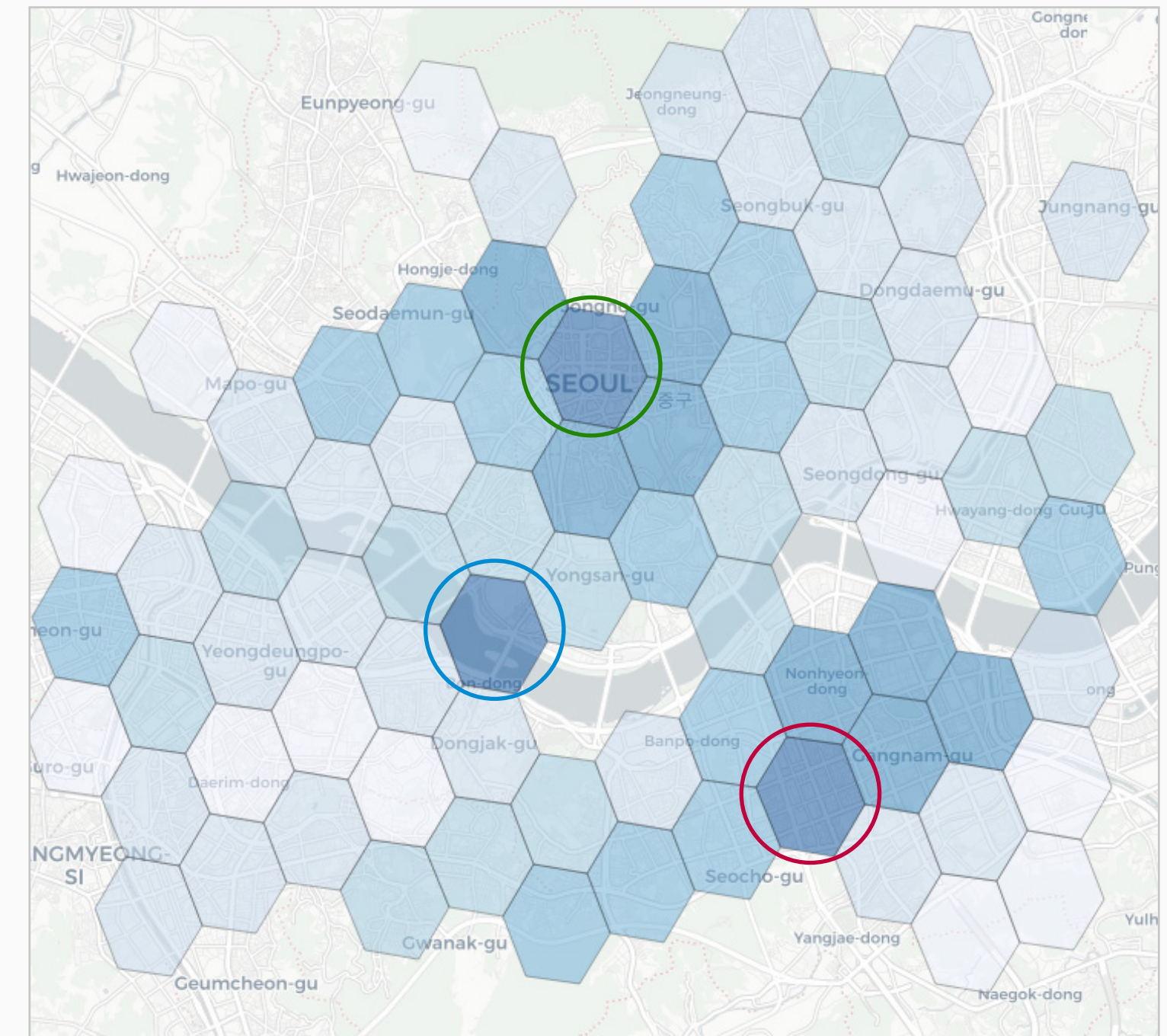
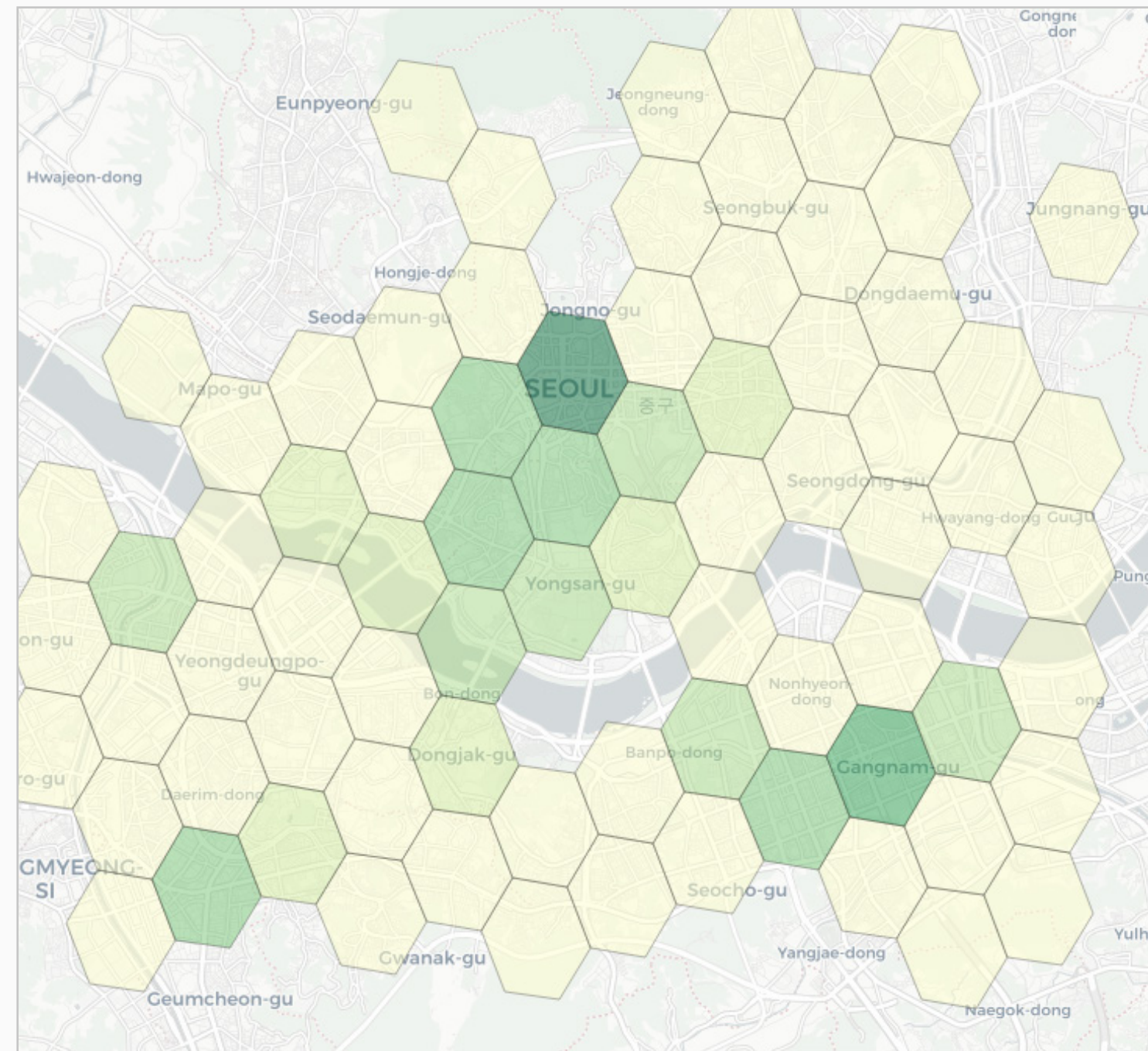
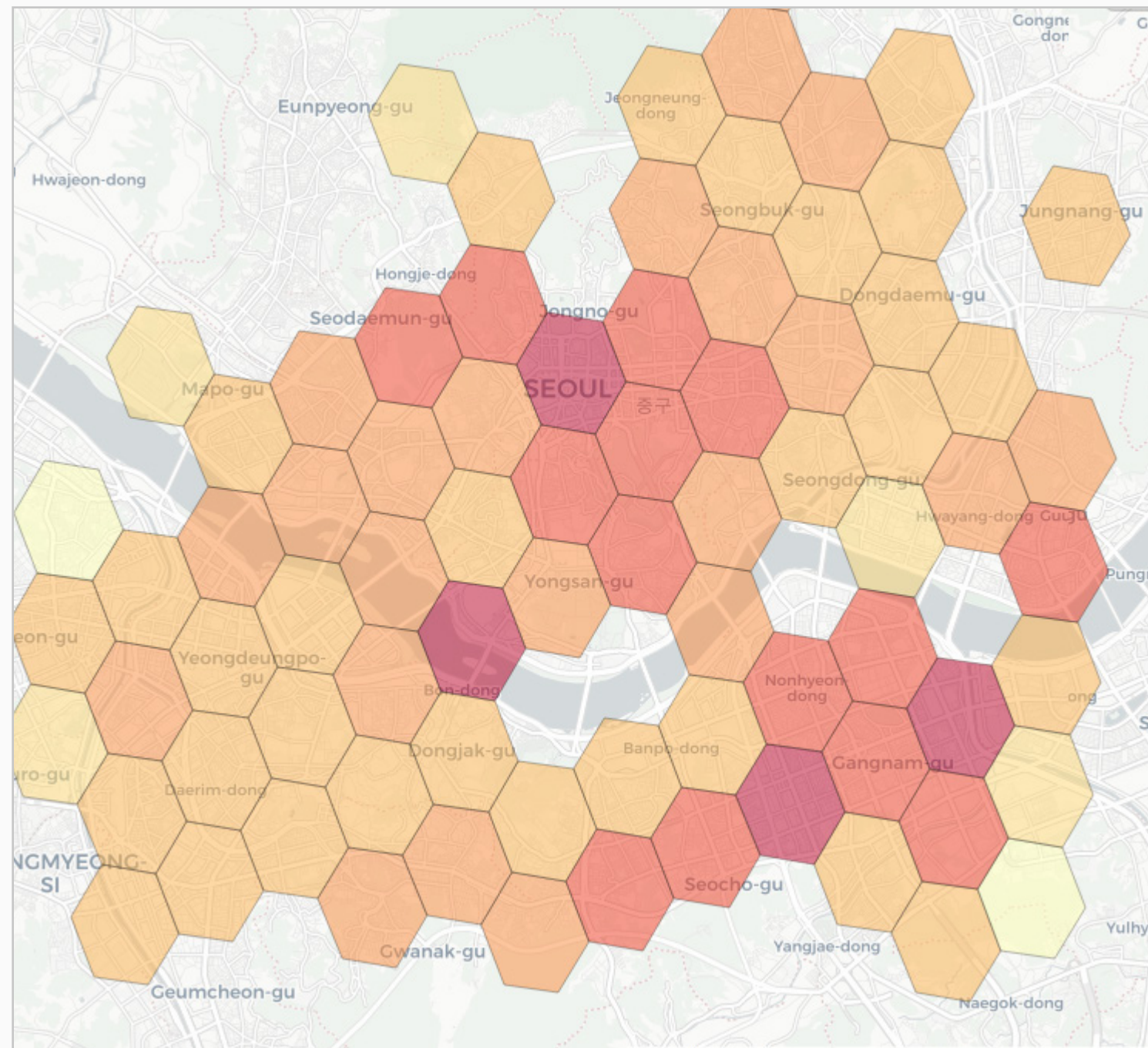


- Tsim Sha Tsui (marked in the red circle) is the southern-most part of Kowloon Island, and is the most popular tourist hub with a host of grand hotels, shopping malls, restaurants and tourist attractions. As a result, the average price of parking in the area is driven up.
- Causeway Bay (marked by the blue circle) on Hong Kong Island is another major tourist hub, again reflected by the relative high parking prices and high density of parking.
- Central Hong Kong (marked in green) is the core financial district, but has a lower density of parking spots compared to the tourist hubs, with fewer shopping malls and tourist spots.

### Maps Key




-  Average 2-hour off-street price
-  Parking provision density

# 6.3.2 Asia-Pacific: Seoul



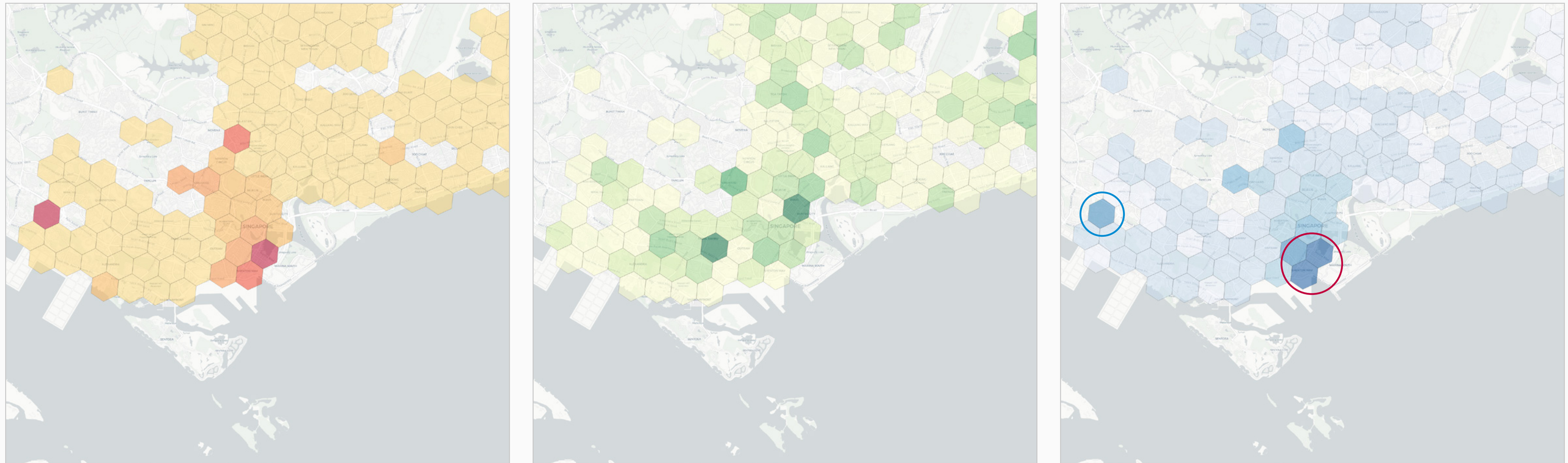
- The Gangnam district (as marked in red) is an area famous for shopping, restaurants and nightlife, and this is reflected in high average prices and high occupancy. This area is therefore one of the highest yielding locations in the city.
- The area of Yongsan (blue circle), is home to one of the biggest shopping malls in Seoul. On average, parking in this area is the most expensive in the city and has a high occupancy level, reflected in the high yield.
- The Jogno-gu district (green circle) houses some of the most iconic palaces in Seoul, including Gyeongbokgung and Chongdeokgung. The area's high yield is driven by high prices, high occupancy, and a high density of parking spaces.

### Maps Key

-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield






# 6.3.3 Asia-Pacific: Singapore

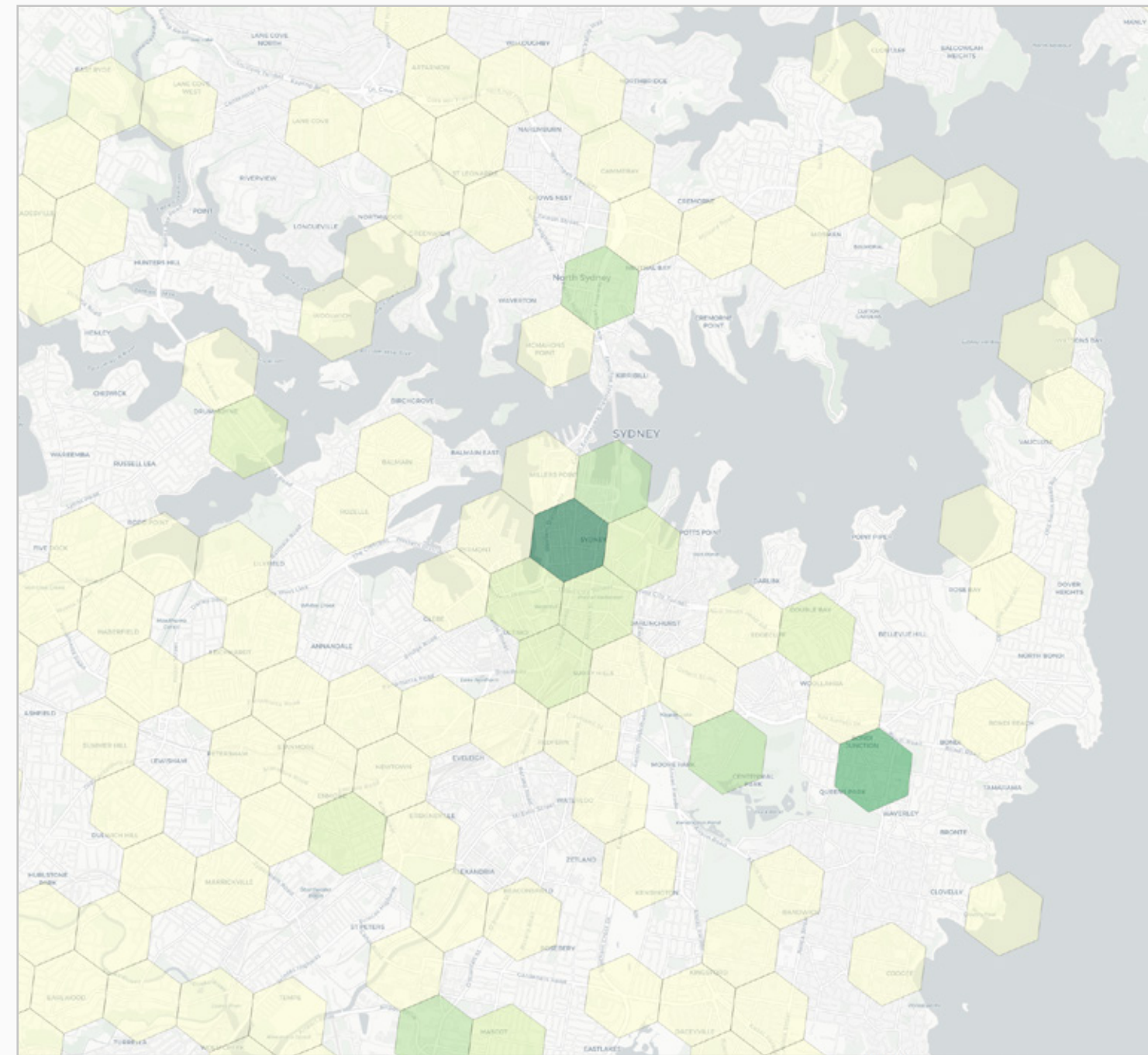
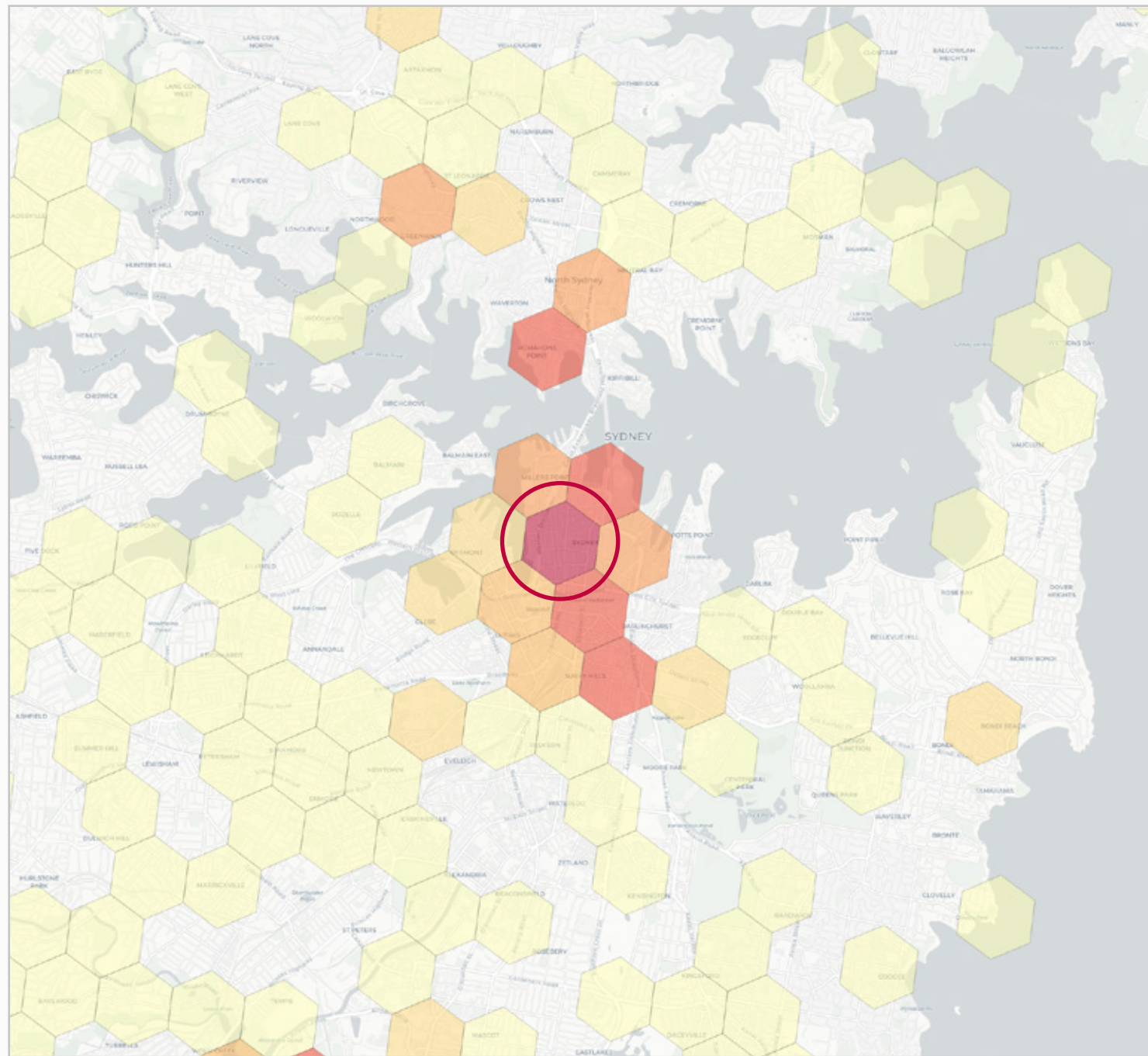


- The main commercial area and financial heart of Singapore (circled in red), features a mixture of expensive integrated resorts, skyscrapers and company headquarters. In addition to high prices, occupancy levels here are amongst the highest in the city, providing a high estimated yield per space.
- The area marked in blue is home to the National University of Singapore. Car parks in this area are amongst the most expensive in the city, despite a medium to low occupancy level.

### Maps Key



-  Average 2-hour off-street price
-  Parking provision density
-  Estimated yield

## 6.3.4 Asia-Pacific: Sydney

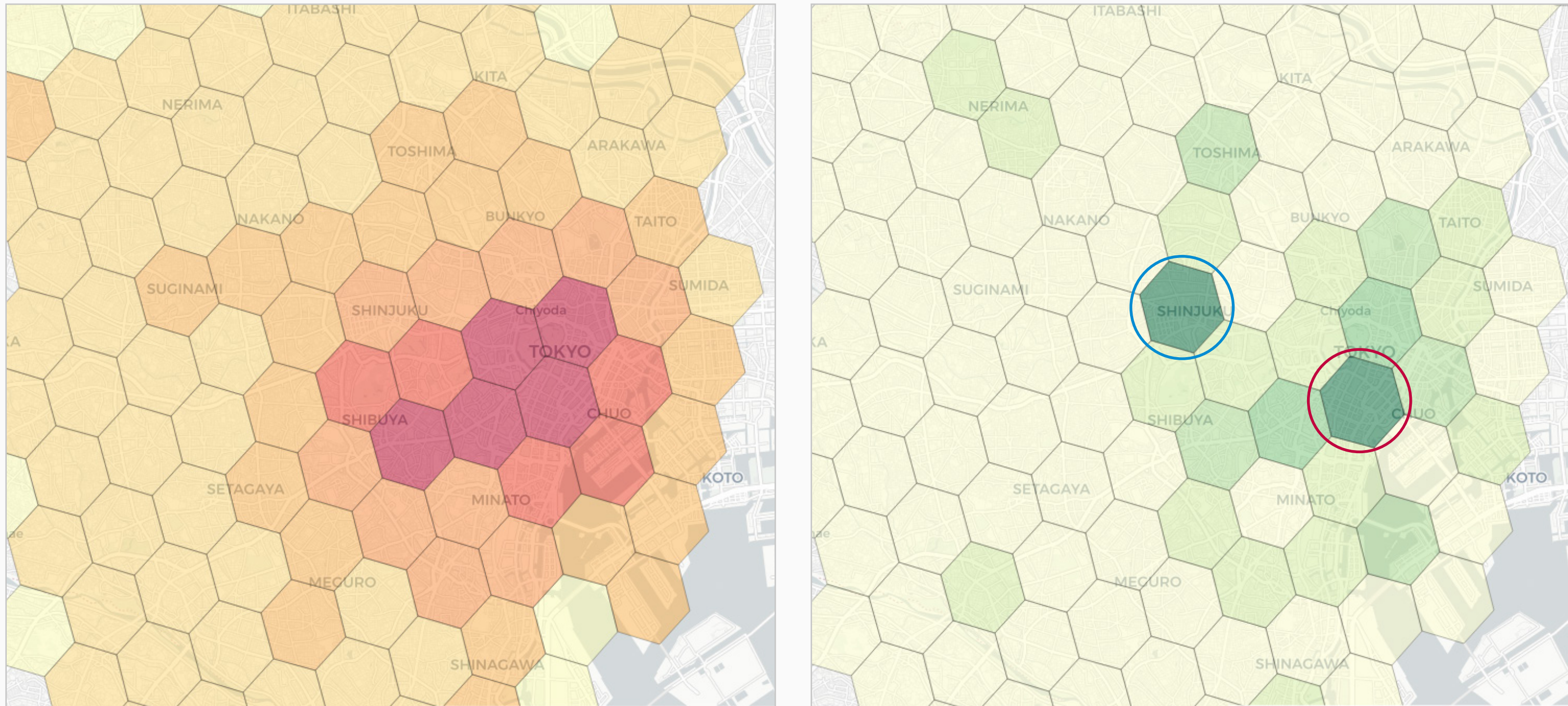


- The area marked with the red circle is Sydney's business and commercial centre, and is also close to the Sydney ferry terminal for services to other bays in the Sydney suburbs. Parking provision in this area is good, but prices are at their highest for the city.

### Maps Key



-  Average 2-hour off-street price
-  Parking provision density

## 6.3.5 Asia-Pacific: Tokyo



- Chuo-ku (marked in red circle) is the city centre of Tokyo and is home to many office buildings, including the headquarters of The Bank of Japan. It is also close to the Tokyo Station, resulting in high pricing and density of car parks within this downtown ward of Tokyo.
- Shinjuku (marked in blue circle) is a combination of commercial centre and tourist hub, with an active nightlife and the Harajuku neighbourhood, famous for its youth culture, fashion stores, bars and restaurants. It has the highest density of parking spaces at a medium price level.

### Maps Key

-  Average 2-hour off-street price
-  Parking provision density



## 7.0 About Parkopedia



# 7.0 About Parkopedia



Parkopedia is the world's leading parking services provider used by millions of drivers and organizations such as Audi, Apple, BMW, Coyote, Daimler (Mercedes-Benz), Ford, Garmin, GM, Jaguar, Peugeot, Sygic, TomTom, Toyota, Volkswagen, Volvo and many others.

Parkopedia is available in 15,000 cities across 89 countries globally, covering over 70 million parking spaces, helping drivers take the pain out of parking. Parkopedia helps drivers find the closest, cheapest or available parking to their destination, pay in selected locations, and navigate directly to the parking space.

Parkopedia is also a founding member of the Autonomous Valet Parking consortium, developing highly detailed parking maps and corresponding algorithms to help self-driving vehicles navigate to an open parking place and park autonomously.

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