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Report Date: December 16, 2021 Industry: Real Estate Services

Company: Stock Price: \$18.68

KE Holdings Inc.

Market Cap: \$22.2 billion Ticker:

BEKE US Average Daily Volume (3-month): \$196.6 million

BEKE: Luckin Coffee's for These Closers!

Summary

We are short BEKE because we conclude the Company is engaged in systemic fraud, by our estimate, inflating its new home sales GTV by over ~126% and its commission revenues by approximately ~77–96%. We found massive discrepancies between the transaction volumes, store count and agent count reported to investors and the transaction data from our multi-month data collection program from BEKE's platform. We corroborated these discrepancies by spot-checking our findings through primary due diligence on BEKE's stores, including field interviews and site visits.

BEKE's mantra, oft repeated on Company earnings calls, is "doing the right thing, even if it is difficult." Nothing could seem further from the truth. Put simply, we found massive fraud, including a <u>likely sham acquisition</u> seemingly designed to mask the fraudulent revenues. Our field work found <u>ghost stores</u>, <u>clone stores</u> and undisclosed schemes to inflate revenues by round tripping cash through connected brokerages. Similar to Luckin Coffee, this is a real business with significant amounts of fraud. The following is a road map through BEKE's multivariate fraud.

GTV and **Revenue Inflation**. BEKE claims to operate China's leading integrated housing transaction platform. BEKE's value proposition is built on its claim to have the leading market share, measured by gross transaction value (GTV), in brokered housing transactions in China. The Company claims a market leading GTV in existing and new home sales through its in-house brokerage (Lianjia) and its connected stores. BEKE also claims a GTV growth rate that vastly outperforms the underlying housing market.

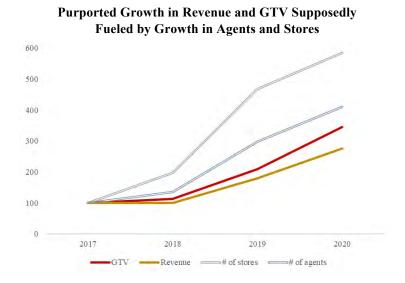
We wrote a program to collect the transaction data on BEKE's platform. This is a similar approach to how we researched JOYY and GOTU. Then we spot-checked the results through field interviews, site visits and physical store checks. The results showed that BEKE, in our opinion, is massively inflating the GTV of new home sales on its platform and the commission revenues derived therefrom. Based on data collected from BEKE's platform over the third quarter and extrapolated from half of the second quarter of 2021, we estimate that BEKE's platform GTV was only RMB 1,177 billion in 2Q-3Q 2021, roughly a ~65% inflation of the claimed GTV over the 2Q-3Q period. In the critical new home sales category, the primary driver of BEKE's revenue, we estimate that BEKE overstated GTV by ~126% in 2Q-3Q 2021.

RMB BN	2Q 21	3Q 21	2Q-3Q 2021
Reported home sales GTV	1,150	788	1,939
Home sales GTV estimate from collected data	656	521	1,177
Inflated %	75%	51%	65%

Our platform data collection showed massive exaggeration of GTV, but even this might understate the magnitude of the deception, as our field work and site visits indicate that the platform contains a significant inflation of stores and agents.

Because BEKE's commission revenue is a function of its GTV, and principally BEKE's new home sales GTV, we conclude from our estimates that BEKE's revenues are significantly inflated even at BEKE's reported commission rates. However, based on field work and agent interviews, we believe that BEKE's real commission rates are lower than claimed. We estimate that <u>BEKE's revenues are inflated by approximately ~77–96%</u>. We also found evidence that the Company is round-tripping cash to franchised brokerages in order to artificially inflate commission revenues.

<u>Ghost Stores</u>: Field Work Shows Fake Stores on BEKE's Platform. The graph below uses BEKE's reported numbers to show the relationship between stores and agents on the platform on one hand, and the resulting reported revenue on the other. It is clear that the number of agents and stores drives revenue. However, we conclude that far fewer stores and agents use the platform (or even exist) than BEKE claims.



Our data collection of BEKE's platform indicates that the reported total store count at the end of 2Q was inflated at least 23%. However, this likely understates the true extent of the deception.

Field work and site visits to the stores on the platform show a pattern of ghost stores among brokerages that are listed by BEKE as "active" on its platform, and yet were shut down or nonexistent when visited. Accordingly, we believe that BEKE operates far fewer brokerages than even the count on its platform shows.

One example is the Zhonghuan store at Nanchang Ershishanzhong, which was shown to be 'active' on its platform, with close to 100 properties listed for sale from that brokerage. But when our investigator visited the address for the store from its SAIC registration, they found a derelict and abandoned store front located in a former gate guard's room.

Ershishanzhong Store Registered Address



Source: Screenshot of SAIC Registration Displayed on BEKE's Platform and MW Investigator's Photo

In another example in Sanhe Langfang, we found two separate active stores on the platform at the exact same location. Upon visiting the store, the agent confirmed to our investigator that the two stores had been folded in to one, despite both appearing as two separate and distinct brokerages on BEKE's platform.

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Only one Lianjia Store was found following the directions

Source: Site Visits: Langfang Tianyangcheng branches No. 2 and 15 are the same store

Where we should have found two stores, we only found one. And this was far from the only instance in which site visits and field work uncovered one store masquerading as two or more stores on the platform.

Of the 51 Lianjia stores we should have found in Langfang, **19 were ghost stores**. In this city alone, site visits and field work indicate that BEKE overstated the store count by 59%. We believe that Langfang is representative of the Company's web of lies, and that such **ghost stores are endemic**.

We even found a pattern of **clone stores**, in which multiple stores appear on BEKE's platform with the same or similar location. Field work indicates that despite the appearance of multiple active stores, often only one exists in practice. This pattern of clone stores is powerful evidence supporting our conclusion that there are far fewer stores than appear on BEKE's platform, meaning that BEKE's exaggeration of its store count to investors is likely far more egregious than even the platform data suggests.

Sham Acquisition. One of the hallmarks of US-listed Chinese companies that have collapsed amid evidence of fraud is the use of sham transactions to funnel shareholder money and burn off non-existent cash balances. Typically, the company overstates the value of an acquired asset, sometimes secretly purchased from proxies connected to insiders. Here we found an example that we think is textbook. SAIC data show that BEKE routed part of an acquisition through a straw buyer controlled by likely proxies, ¹ a trick we have seen many times among US-listed Chinese companies to inflate the purchase price of the asset.

Even Agent Count Overstated.

BEKE's is a multivariate fraud, with layers of deception metastasizing throughout its business and representations to investors. Our data collection of BEKE's platform indicates that the agent count BEKE reported in its IPO prospectus, secondary offering, and other financial reports is substantially inflated. But much like the store count, field work and independent evidence from government real estate registries suggest that the agent count is even more exaggerated than appears at first.

For example, in BEKE's primary market, Shanghai, it claims to have 21,000 agents. But SAIC data for its three Shanghai brokerage subsidiaries show only 9,998 employees, **indicating that BEKE is significantly inflating its agent count**. We see the same pattern when we compare BEKE's disclosures with independent records from the Company's other key market, Beijing.

BEKE has made it clear that GTV and revenues are a function of the number of agents it employs, meaning that such agent overstatement tracks closely with other independent data points showing GTV and revenue exaggeration.

Ultimately, we think BEKE is defrauding the capital markets by exaggerating its GTV, new home sales, revenues, agents, and stores.

Data Collected from BEKE's Platform Indicates Massive New Home GTV and Revenue Fabrication

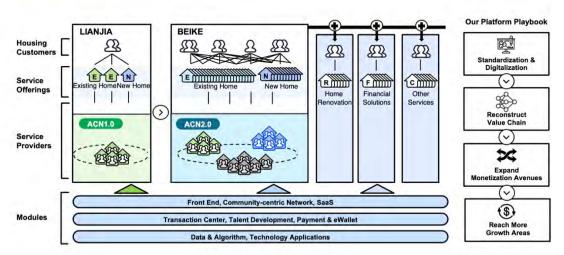
We wrote a program to collect the transaction data on BEKE's platform and spot-checked the results with public record searches, field interviews, site visits, and physical store checks. (See Appendix I for a description of the methodology of collection and estimation.) We conclude that BEKE is massively inflating the GTV of new and existing home sales on its platform and the commission revenues derived therefrom. Our estimate from the data collected from BEKE's platform indicates that that BEKE's platform GTV was only RMB 1,177 billion in 2Q-3Q 2021, roughly a ~65% inflation of the claimed GTV over that six-month period. In the critical new home sales category, the primary driver of revenues, we estimate that BEKE overstated GTV by ~126% in 2Q-3Q 2021.

BEKE's foundational claim to investors is that it operates China's leading integrated housing transaction platform for the sale of new and existing homes. BEKE claims that its "platform playbook" enables the digitization of housing transactions through its agent cooperation network (ACN), a SAAS residential real estate platform that captures online and offline sales transactions for new and existing homes in China by Company owned Lianjia brokerages and connected stores.³

¹ SAIC data is from QiChaCha.

² Our program captured the transaction data on BEKE's platform from May 25 to October 22, 2021. Please see Appendix I for data collection methodology.

³ BEKE, F-1 Prospectus and 2020 Annual Report



Source: BEKE August 2021 investor presentation⁴

BEKE's platform primarily generates revenues through commissions from the sale of new and existing homes through two networks of real estate brokerages: 1) Company-owned Lianjia stores, and 2) brokerages that are supposedly not owned by the Company but sell homes through BEKE's platform (e.g. Deyou and other brokerage brands).

BEKE claims that as its market share of home transactions through its platform grows, this ballooning GTV will produce network effects allowing BEKE greater pricing power for fees and commissions. Management referred to such network effects as creating a "self-reinforcing virtual cycle of efficiency and stack scalability..." which further enhances the appeal of the platform. Thus, most analysts cite GTV as the primary driver of BEKE's prospects and its stock price.

To assess the authenticity of BEKE's reported GTV and associated commission revenues, we wrote a program to collect the publicly available booking data on BEKE's platform. Details of its methodology are in **Appendix I**.

The program begins with the Find Agent function in the app. After finding the agents, it collects the stores with which they are affiliated and the store information. Then it collects the transaction information and other transaction details that are included in its code. The BEKE's platform contains at least 15 collectable data points, including the total number of new and existing home sales on the platform. The Lianjia and Deyou agents with whom we spoke also confirmed that the transactions posted on the external network match up with sales transactions on their internal network. We collected and analyzed code and detailed transaction data accessible via BEKE's external platform from May through mid-November 2021, enabling us to compare BEKE's claimed GTV over that period to the GTV evidenced by the data on BEKE's platform.

To verify that our collected data was comprehensive, we compared the key metrics from the data we collected from the platform with BEKE's SEC disclosures. BEKE reported connecting with 278 real estate brokerage brands other than Lianjia. In our July data collection, we identified 310 brands. BEKE stated that its Lianjia stores operate in 29 cities in China. Our collected data captured Lianjia brokerage transaction data in 29 cities. BEKE reported that its

⁴ https://s25.q4cdn.com/166451781/files/doc financials/2021/q2/BEKE-2Q21-Investor-Presentation.pdf

⁵ BEKE, Q1 2021 Earnings Call, May 19, 2021.

⁶ The main differences between the internal and external platform data displayed was that the externally displayed data did not show buyer and seller information and the transaction postings would be delayed by about two weeks to prevent outside buyers or agents from trying to interfere with the transaction, i.e. poach sales.

⁷ BEKE 2020 20-F, p.60

⁸ BEKE 2020 20-F, p.60

platform includes connected brokerages in "more than 100 economically vibrant cities in China." We collected transaction data from connected and franchise stores with agents for 142 cities, including Beijing and Shanghai.

BEKE claimed that the GTV on its platform from home sales was RMB 1,150 billion and RMB 788 billion in 2Q 2021 and 3Q 2021, respectively. However, the data collected from BEKE's platform implies 3Q platform GTV of RMB 521 billion, compared to a reported RMB 788 billion, a ~51% overstatement. Adjusting for the partial Q2 data, using company favorable assumptions yielded an estimated ~75% overstatement. Our combined estimate for Q2-Q3 is that BEKE inflated its reported platform GTV by **roughly** ~65%.

RMB BN	2Q 21	3Q 21	2Q-3Q 2021
Reported home sales GTV	1,150	788	1,939
Home sales GTV estimate from collected data	656	521	1,177
Inflated %	75%	51%	65%

Source: MW Data Collection

a. New Home Sales GTV Inflated by ~126%

BEKE claims that its GTV from <u>new home sales</u> on its platform was RMB 908 billion in Q2-Q3, 2021.¹⁰ Based on the number of new home sales collected and the average sales price reported by BEKE, we estimate that BEKE's actual GTV from new home sales was only RMB 402 million, **indicating that BEKE likely inflated new home GTV** by at least approximately ~126%.

The methodology for comparing BEKE's claims against the data we collected for new home sales on its platform was straightforward and required few assumptions. We collected data covering late May through mid-November 2021, which gave us the number of new home transactions on the platform during that period for both Lianjia and connected brokerages. We then multiplied this transaction data by the new home prices previously disclosed by BEKE, which given the exaggeration evident throughout BEKE's business, is company favorable.

In its SEC filings, BEKE disclosed the average price per new home transaction on its platform for both Company owned and connected brokerages in 2020. For Lianjia, BEKE disclosed GTV and the number of transactions, which yield an average price of RMB 2.06 million per new home. For the connected brokerages, BEKE numbers equate to an average price of RMB 1.4 million per new home. Independent housing data shows that the price of new homes in China has remained flat from 2020 to 2021. Accordingly, we use the average prices for 2020 reported by BEKE in its SEC filings to estimate the associated Q2 and Q3 2021 GTV from the collected transaction data.

The table below shows the number of new home transactions collected from BEKE's platform for Lianjia stores for two overlapping 76-day windows.¹³

Lianjia-New Home Sales

⁹ BEKE 2020 20-F, p.54

¹⁰ BEKE 6-K, August 12, 2021, November 9, 2021

¹¹ BEKE 2020 20-F, pp. 91, 99

¹² https://www.creprice.cn/

¹³ The data from the BEKE platform is available in 76-day increments.

	May 25, 2021 - Aug 8, 2021			June 30, 2021 - Sep 13, 2021			
Ref.	City		# of transactions	Ref.	City		# of transactions
1	Dalian	大连	1,119	1	Dalian	大连	1,144
2	Shenyang	沈阳	680	2	Shenyang	沈阳	660
3	Jinan	济南	1,082	3	Jinan	济南	782
4	Chengdu	成都	4,180	4	Chengdu	成都	4,240
5	Zhengzhou	郑州	1,046	5	Zhengzhou	郑州	745
6	Changsha	长沙	432	6	Changsha	长沙	339
7	Qingdao	青岛	585	7	Qingdao	青岛	495
8	Foshan	佛山	209	8	Foshan	佛山	181
9	Nanjing	南京	787	9	Nanjing	南京	699
10	Yantai	烟台	522	10	Yantai	烟台	403
11	Guangzhou	广州	659	11	Guangzhou	广州	664
12	Shijiazhuang	石家庄	337	12	Shijiazhuang	石家庄	315
13	Tianjin	天津	808	13	Tianjin	天津	717
14	Hefei	合肥	388	14	Hefei	合肥	348
15	Wuhan	武汉	1,238	15	Wuhan	武汉	1,129
16	Xi'an	西安	614	16	Xi'an	西安	693
17	Hangzhou	杭州	312	17	Hangzhou	杭州	340
18	Wuxi	无锡	159	18	Wuxi	无锡	94
19	Beijing	北京	1,661	19	Beijing	北京	1,379
20	Suzhou	苏州	363	20	Suzhou	苏州	323
21	Shanghai	上海	1,278	21	Shanghai	上海	1,328
22	Langfang	廊坊	97	22	Langfang	廊坊	69
23	Xiamen	厦门	154	23	Xiamen	厦门	108
24	Chongqing	重庆	859	24	Chongqing	重庆	940
25	Dongguan	东莞	68	25	Dongguan	东莞	57
26	Shenzhen	深圳	222	26	Shenzhen	深圳	207
27	Zhongshan	中山	55	27	Zhongshan	中山	61
28	Huizhou	惠州	49	28	Huizhou	惠州	40
29	Haikou	海口	0	29	Haikou	海口	1
Total			19,963	Total			18,501

Combining the average value per transaction reported by BEKE in its SEC filings with the number of home transactions revealed in our data collection, we estimate that BEKE's GTV from the sale of new homes through both its Lianjia and connected brokerages was only RMB 402 billion in Q2-Q3 2021. **Therefore, based on the collected data we estimate that BEKE inflated GTV by at least ~126% in Q2-Q3 2021**. ¹⁴

 $^{^{14}}$ For details on the methodology, assumptions, data and calculations in the estimates see Appendix I.

The Collected Data Suggest BEKE Grossly Overstates its New Home GTV

	Avg. Price	76 days (Ma	y 25 - Aug 8)	2Q 2021 (91 days)	2Q 2021	2Q 2021
RMB M	per Home	# of new homes	Estimated GTV	Estimated GTV	Reported GTV	Inflated%
New homes - Lianjia	2.06	19,963	41,099	49,211	83,800	70%
New homes - Connected Stores	1.40	93,975	131,668	157,655	414,500	163%
Total		113,938	172,767	206,866	498,300	141%
	Avg. Price	76 days (Jun	30 - Sep 13)	3Q 2021 (92 days)	3Q 2021	3Q 2021
RMB M	per Home	# of new homes	Estimated GTV	Estimated GTV	Reported GTV	Inflated%
New homes - Lianjia	2.06	18,501	38,089	46,108	72,550	57%
New homes - Connected Stores	1.40	87,998	123,293	149,249	337,550	126%
Total		106,499	161,382	195,358	410,100	110%
	Avg. Price	152 (days	2Q-3Q 2021	2Q-3Q 2021	2Q-3Q 2021
RMB M	per Home	# of new homes	Estimated GTV	Estimated GTV	Reported GTV	Inflated%
New homes - Lianjia	2.06	38,464	79,189	95,319	156,350	64%
New homes - Connected Stores	1.40	181,973	254,961	306,904	752,050	145%
Total		220,437	334,150	402,224	908,400	126%

Put simply, data collected over months directly from BEKE's platform strongly indicates that the Company is massively exaggerating new home GTV and revenue from its platform, a pattern we also see when we analyze existing home sales. 15

b. Existing Home Sales GTV Also Significantly Exaggerated

BEKE reported GTV of RMB 1,030 billion from existing home sales in Q2-Q3, 2021. However, our estimate from the data collection from the BEKE platform indicates that the real GTV was only approximately RMB 775 billion in that period, meaning that we estimate a ~33% GTV inflation over Q2-Q3 2021 for existing home transactions.

	2Q 2021		3Q 2021			2Q-3Q 2021			
RMB M	Reported	MW estimate	Inflated%	Reported	MW estimate	Inflated%	Reported	MW estimate	Inflated%
GTV of existing home sales by Lianjia	309,500	216,839	43%	185,300	160,866	15%	494,800	377,706	31%
GTV of existing home sales by connected stores	342,500	232,630	47%	192,900	164,791	17%	535,400	397,421	35%
GTV of existing home sales	652,000	449,469	45%	378,200	325,657	16%	1,030,200	775,126	33%

The methodology for estimating existing home GTV required more assumptions than for new homes. Our estimate of BEKE's GTV exaggeration of existing home transactions would be significantly greater had we not intentionally made so many assumptions in the Company's favor.

Our program collected hundreds of thousands existing home transactions during the period. For many such existing home transactions, prices were also readily available, making price assumptions unnecessary. For other existing home transactions, however, price assumptions were necessary to estimate GTV. In Appendix I, we set forth a detailed explanation of our calculation showing that where assumptions were necessary, we made a point to make such assumptions in favor of the Company.

Despite such conservatism, the data nevertheless shows material exaggeration of GTV when compared with BEKE's claims. On a blended basis, we estimate that BEKE overstated its GTV from new and existing homes by approximately ~65% in Q2-Q3 2021, with the exaggeration especially pronounced in the critical new home category (~126% inflation). BEKE's exaggeration of new home sales on its platform has a disproportionate impact on its revenues.

¹⁵ Please see Appendix I for data collection methodology and results

We Conclude that BEKE Inflates Revenues by approximately ~77%-96%

Because BEKE's commission revenue is a function of its GTV, and principally BEKE's new home sales GTV, we conclude from our estimates that BEKE's revenues are significantly inflated, even at BEKE's reported commission rates. However, based on field work and agent interviews, we believe that BEKE's real commission rates are lower than claimed. Based on our macro work with the platform data and our field work spot checking commission rates, we estimate that **BEKE's revenues are inflated by approximately** ~77%-96%.

BEKE primarily generates revenues through commissions from the sale of new and existing homes through two channels of real estate brokerages: 1) BEKE's Company owned and operated Lianjia brand stores, and 2) brokerages that are not Company owned but sell homes through BEKE's platform (e.g. connected stores such as the Deyou franchise brand stores and other brokerage brands' stores).

Revenue recognition differs according to the accounting treatment of each category. Revenue is recognized on a **gross** basis for commissions for **new homes** sold by both BEKE's brokerage, Lianjia; and, connected brokerages including the Deyou franchise. Gross commission revenue is also recognized for sales of existing homes by Company owned brokerage, Lianjia.

By contrast, revenue is recognized on a <u>net</u> basis on the sales of existing homes by connected brokerages on BEKE's platform. BEKE collects a platform service fee of 8% of such commissions as well as smaller, miscellaneous fees. ¹⁶

Table: Revenue recognition for different types of home sales

Type of stores	Relationship with BEKE	New Home Sales	Existing Home Sales				
Lianjia	Subsidiaries	Gross	Gross				
Connected stores	Users of BEKE platform	Gross	Net				
Gross accounting	BEKE accounts 100% of comm	BEKE accounts 100% of commissions as BEKE's commission revenue					
Net accounting	BEKE accounts 8% of commis	BEKE accounts 8% of commissions as BEKE's commission revenue					

Because BEKE recognizes commission revenues on a gross basis for all new home sales (regardless of whether the brokerage is owned by BEKE or not), **new home sales on BEKE's platform are the primary driver of revenue growth**. This has also made BEKE's business vulnerable to a slowing property cycle, as beginning in Q3 2021, new and existing home sales in China stalled and residential property prices began declining.

Based on BEKE's reported home sales GTV and service revenues, BEKE's reported commission rates for new home sales were 2.79% in 2Q 2021 and 2.76% in 3Q 2021. The reported commission rates for Lianjia stores' existing home sales and connected stores' existing home sales were 2.75% and 0.32% in 2Q 2021 and 2.86% and 0.41% in 3Q 2021.

Reported commission rate	2Q 2021	3Q 2021	2Q-3Q 2021
New home sales by Lianjia and connected stores	2.79%	2.76%	2.77%
Existing home sales by Lianjia	2.75%	2.86%	2.79%
Existing home sales by connected stores	0.32%	0.41%	0.35%

Applying BEKE's reported commission rates to the GTV data collected from BEKE's platform, we calculate that BEKE's actual home transaction services revenues were only approximately RMB 23 billion in the past two quarters, suggesting ~77% revenue inflation. However, we believe that the actual revenue inflation is far greater.

¹⁶ The connected stores are the brokerage firms on the BEKE platform under the brands of Deyou and others except for Lianjia. BEKE gets 8% platform service fee from the commission earning by the other brands from the existing home sales.

BEKE Likely Inflated Its Home Sales Transaction Services Revenues (using reported commission rates)

		2Q 2021			3Q 2021			2Q - 3Q 2021	
RMB M	Reported	MW estimate	Inflated%	Reported	MW estimate	Inflated%	Reported	MW estimate	Inflated%
GTV of new home sales by Lianjia and connected	498,300	206,866	141%	410,100	195,358	110%	908,400	402,224	126%
Reported commission rate	2.79%	2.79%		2.76%	2.76%		2.77%	2.77%	
Rev from new home sales	13,900	5,770	141%	11,300	5,383	110%	25,200	11,153	126%
GTV of existing home sales by Lianjia	309,500	216,839	43%	185,300	160,866	15%	494,800	377,706	31%
Reported commission rate	2.75%	2.75%		2.86%	2.86%		2.79%	2.79%	
Rev from existing home sales by Lianjia	8,500	5,955	43%	5,300	4,601	15%	13,800	10,556	31%
GTV of existing home sales by connected stores	342,500	232,630	47%	192,900	164,791	17%	535,400	397,421	35%
Reported commission rate	0.32%	0.32%		0.41%	0.41%		0.35%	0.35%	
Rev from existing home sales by connected stores	1,100	747	47%	800	683	17%	1,900	1,431	33%
GTV of home sales	1,150,300	656,335	75%	788,300	521,015	51%	1,938,600	1,177,350	65%
Revenue from commission of home sales	23,500	12,473	88%	17,400	10,667	63%	40,900	23,140	77%

Source: BEKE's Public Filings, Data collected from BEKE's platform, MW calculation

Independent evidence and field work (including agent interviews) strongly suggests that BEKE's realized commission rates are meaningfully lower than the figures reported to investors.

A former Lianjia agent in Shenzhen published a tell-all blog in 2020, revealing that BEKE company policy was to go as low as 2% on commissions, despite official rates of 3%. The agent described the difficulty in securing clients when other agents from small, local brokerages would work for as little as 0.5%, and how other chain agencies could go as low as 1%.

Our field work corroborates such steep discounts. Different cities offer different standard rates. Investigators visiting BEKE brokerages were advised on several occasions by BEKE agents that they could drop the commission rates well below the official 3% rate.

For the nine cities where we conducted field work and discussed home purchases with Lianjia and connected store agents, the average discounted commission rate was close to 2%, with Sanhe Langfang at 2.4%, Beijing at 2.2%, five New Tier 1 cities and one second tier city at 2%, and Xiamen offering as low as 1.8% (down from 3.5%). We believe that customers who utilize more aggressive or stubborn negotiation tactics may be able to obtain even lower rates.

Commission Rate (%)	Standard	Buyer	Seller	After Discount	Effective Discount (%)
Beijing 北京	2.7	2.7	0	2.2	18.5%
Sanhe Langfang 三河廊坊	2.7	2.7	0	2.4	11.1%
Dalian 大连	3	1	2	2	33.3%
Qingdao 青岛	3	n/a	n/a	2	33.3%
Xiamen 厦门	3.5	2.5	1	1.8	48.6%
Guangzhou 广州	3	2	1	2	33.3%
Shenzhen 深圳	3	2	1	2	33.3%
Nanchang 南昌	2.5	1	1.5	2	20.0%
Hangzhou 杭州	3	1.5	1.5	2	33.3%

If commission rates are actually closer to 2.25%, we estimate that BEKE's revenues would likely be inflated by ~116%. However, in the following table, we calculate BEKE's revenues based on a 2.5% commission rate, which we think is

¹⁷ https://zhuanlan.zhihu.com/p/142956970, dating back to the period of its US IPO announcement

¹⁸ Conversations with Lianjia stores' and connected stores' agents

conservative. Even using such a conservative assumption, we estimate that BEKE's revenues are **likely inflated by** ~96%.

BEKE's Estimated Revenue Overstatement Would be 96% if Commission Rates were 2.5% (2Q-3Q 2021)

RMB M	MW estimate GTV	Commission %	MW estimate Rev.	Reported Rev.	Inflated%
New home sales by Lianjia and connected	402,224	2.50%	10,056	25,200	151%
Existing home sales by Lianjia	377,706	2.50%	9,443	13,800	46%
Existing home sales by connected stores	397,421	0.35%	1,410	1,900	35%
Total Home sales	1,177,350	1.8%	20,909	40,900	96%

Site visits uncovered another scheme to inflate commission rates. In the course of our investigation into Lianjia's operations, we found that Lianjia has also been franchising its brand, starting from at least 2017.¹⁹ We found that substantially all of Zhengzhou's Lianjia brand stores are franchises, not company owned and operated.²⁰ We also found what appear to be 24 Lianjia franchise stores in Shanghai.²¹ Although we suspect that undisclosed Lianjia franchise revenue is impermissibly booked as revenue from a Company-owned store, we did not deduct or adjust commission rates for such undisclosed franchised Lianjia stores in our calculation (in order to be favorable to the Company).

• Field Work Indicates Commissions Inflated by Round Tripping Company Cash

We also found evidence that the Company is round tripping cash to connected brokerages in order to artificially inflate commission revenues. When we sent investigators to Deyou stores, we learned that Deyou has what it calls a "pilot store program" wherein it offers certain Deyou franchise stores 10% of the store's assessed value in cash in exchange for a higher percentage of the store's commission revenues. These "investments" are off the books. More damningly, BEKE reportedly makes these payments in installments, which presumably makes it easier to match BEKE's outflows with the inflated commission inflows.

Below is a translated excerpt of a conversation between our investigator and a Deyou store manager:

Deyou manager: You are talking about our pilot program...it is difficult for newcomers to take part in.

Investigator: Hard to participate in?

Deyou manager: Yes. For new stores, because we have relatively high requirements for the pilot stores.

Investigator: What kind of future performance requirements have to be achieved?

Deyou manager: Under normal circumstances, for example, if your annual performance is more than 2.5 million, you are eligible, and someone will contact you.

Investigator: If one year's performance reaches Rmb 2.5 million, you can be eligible to participate.

Deyou manager: Yes.

¹⁹ https://www.sohu.com/a/194451125 99966714

²⁰ The data collected from BEKE's platform contains 198 Lianjia stores in Zhengzhou of which 193 provided working links to an image of their SAIC registration certificates. Yet none of these 194 stores are Lianjia or BEKE owned.

 ²¹ For example: 链家菊联路一店, 上海孚欣帝实业有限公司: https://m.ke.com/store/37068800690225911184.html, 高兴花园店, 上海金铭房地产经纪事务所: https://m.ke.com/store/38005700720911812945.html
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Investigator: So if participating [in the program] how much will the platform invest?

Deyou manager: The platform invests very little money. The platform only invests 10%. For example, the platform will invest 10% based on a valuation. The platform does not hold shares, and the investment does not account for shares, but the platform fee will increase a bit.

Investigator: Invest money without holding shares. That then would be...

Deyou manager: For example, if I value this store at 4 million, for example, I invest 10%, but it's not Rmb 400,000, right, I gave the Rmb 400,000 in batches. This is the first, and the second, we invest but I don't take shares, but your expenses will increase. For example, an increase of 1% point per year, that is the maximum number, of points that cannot be increased. Can you understand? For example, if you have 8 points this year, you may have 9 points next year.

Investigator: In other words, the platform fee charged by your platform will increase, but it will not receive shares.

Deyou manager: Yes.

Investigator: This is based on the valuation. How is the valuation calculated? In other words, is the valuation calculation based on the annual sales of my store or based on what, or the registered capital, or what?

Deyou manager: Generally speaking, the sales to the platform account are used to calculate the annual performance.

Investigator: That is equivalent to saying that the platform gives money. What do you mean it will not hold shares? It means that it will not own any shares?

Deyou manager: Yes. Will not participate in profit distributions.

Investigator: Not taking distributions.

Deyou manager: This is the pilot [program], this is for just select stores.

As described, Deyou would not take an equity stake or seek a profit distribution. Instead, it just increases its commission rates from 8% to 9%, which is a 12.5% increase. Since this process requires no recording of an investment stake with the SAIC, it would be difficult for investors to verify without field work. Additionally, as the "investment" is made in batches, the outflows will be smaller and smoother, creating less lumpiness in the balance sheet and cash flow statements. This seemingly creates a simple and tidy means for BEKE to round trip funds and boost its cash flows from commission revenues.²³

Based on these various interactions, we believe there is both a lower real commission rate earned, and a commission inflation scheme being carried out through these "pilot programs" and likely other schemes.

Ultimately, BEKE's value proposition to investors is the GTV from transactions on its platform and related revenues. Yet our data collection from BEKE's platform over the last few months causes us to conclude that the number of

²³ This does not refer to the Pontus investments in Deyou franchise stores which can be seen in the SAIC company registries. Furthermore, reviews of the Pontus Development HK operations also show systematic investments into the Deyou connected stores, normally taking a 10% equity stake. Our reviews of the SAIC records found over 400 as of Dec 31, 2020 instances of such investments. We believe the intent of these investments is similar to the "pilot" program, with the primary difference being that the "pilot program" does not require reporting changes in equity takes to the SAIC, allowing it to fly below the radar.

transactions and GTV are meaningfully much lower than the reported figure, and that the real commission rate earned from home sales is likely significantly lower than claimed. Even if we make the conservative assumption that commission rates are closer to 2.5%, we estimate that BEKE's revenues in 2Q and 3Q are likely inflated by ~96%.

Ghost Stores and Clone Stores: Field Work and Site Visits Show Inflated Store Count

Spot-checking BEKE's platform shows that even the platform overstates its store and agent count. To corroborate the data, we conducted field work and physical site visits, which showed a **pattern of ghost and clone stores: brokerages that existed only on the platform, but not in reality**. We believe that BEKE uses these ghost and clone stores to inflate its store count and related GTV and revenues.

a. Platform Data Indicates Material Store Count Inflation

As of June 30, 2021, BEKE claimed to have 52,868 stores, a 12% increase from 2020.²⁴



However, the actual number of stores collected from BEKE's platform undermines the Company's claims. Our data collection showed that as of July 16, 2021, the platform listed only 43,026 stores, suggesting that BEKE's 2Q21 store count was inflated by at least 23%.

Comparison of BEKE Claimed Store Number vs. BEKE's Own Platform Data

	# of stores
Number of stores reported by BEKE (2Q 2021)	52,868
Lianjia stores from collected data (as of 7/16/2021)	7,516
Connected stores from collected data (as of 7/16/2021)	35,510
Number of stores found on BEKE's platform	43,026
Inflated %	23%

The data shows that BEKE is exaggerating about its store count, but we think that this data collection vastly understates the true extent of BEKE's lie.

In 3Q21, BEKE introduced the 'active agent' and 'active stores' distinction to distinguish between active and inactive stores and agents on its platform. In these disclosures, BEKE admits that at least 8% of the stores on its platform are 'inactive.' For a company that IPOed a little more than a year ago, this admission is jaw-dropping. We believe that BEKE recently introduced this metric to obscure discrepancies between BEKE's reported store count and the stores on its platform.

We investigated a sample of these 'active stores' listed on BEKE's platform. To no surprise, our field visits evidenced a multitude of **ghost stores masquerading as 'active stores' on the platform**, leading us to conclude that BEKE's actual store count is even lower than estimated from our data collection alone.

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²⁴ BEKE 2Q 2021 Investor Presentation, p.3.

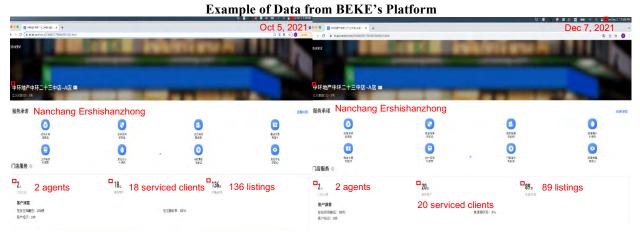
²⁵ BEKE's definition of active stores are stores that have had a transaction during the past 60 days, have had an agent visit during the past 14 days, or have simply had an agent take 'critical steps' in a housing transaction during the past 7 days. This is a very low bar for an agent to remain listed as "active" on the platform.

b. Ghost Stores Masquerading as 'Active' Stores on BEKE's Platform

To spot check the data, our investigators visited seven cities that are important markets for either Lianjia, Deyou, or its recent acquisitions.²⁶ During these visits we noticed discrepancies in the names, addresses, locations of the stores in comparison with the information shown on the platform as well as in the SAIC registrations. In many locations, where we should have found thriving, active stores, we found the opposite. We subsequently evaluated the data collected on the platform and found copious discrepancies and missing stores that were still showing up as active. Below is a small sampling of our field work.

• Example Ghost Store 1: Nanchang Zhonghuan Nanchang Ershishanzhong

The Nanchang Zhonghuan Ershishanzhong store was shown to be 'active' on BEKE's platform. In fact, data collected from the platform showed that BEKE was supposedly listing between 89-136 properties through this store over the prior three months.



Source: BEKE's Platform

The store's address listed on BEKE's platform leads to a large apartment complex, while its SAIC certificate provides a more detailed address. When our investigator visited the store's SAIC registered address, we found a derelict and abandoned store front located in a former gate guard's room.²⁷ Our investigator found no further evidence of this location's existence elsewhere. While two agents don't require much space, we feel this abandoned guard's room is not likely an active location.

²⁶ Field visits were made to seven cities. Beijing – a major market for Lianjia; Langfang – a suburb of Beijing which also has a lot of Lianjia and Deyou operations and which shows as having a high level of activity at each store, Shanghai – the second largest market for Lianjia; Nanchang – where Zhonghuan was founded, has its headquarters, and has the strongest activity levels (as per the BEKE platform data); Hangzhou – where Shengdu was founded and has its headquarters; Nanjing – where Shengdu has purportedly has strong operations; and Shenzhen – a real estate market hot spot in early 1H21. Contact was also made with BEKE's Lianjia, Deyou, and other connected store agents and managers at many other Tier 1, New Tier 1, Tier 2 cities.

²⁷ Ershishanzhong Store has sales record of 1 new home and 1 rental from 5/25/2021 to 8/8/2021.



Source: Screenshot of SAIC Registration displayed on BEKE's platform and MW Investigator's Photo

• Example Ghost Store 2: Nuojia Chengjia 9 Dragon Seal Flagship Store

Listed on BEKE's platform, the Nuojia Chengjia 9 Dragon Seal Flagship Store appears to be 'active' with dynamic client and property counts during 3Q21 and 4Q21. ²⁸

Nuojia Chengjia 9 Dragon Seal Flagship Store: 3Q Activity

Tiuojii	i Chengjia / Drago	ii scai i iagsiiip stoi	c. 5Q nentricy
	# of Existing Home	# of New Home	# of Rental
Date	Transactions	Transactions	Transactions
8/22/2021	1	1	19
9/7/2021	1	0	18
9/30/2021	1	0	18

Source: Data collections from BEKE's platform

Nuojia Chengjia 9 Dragon Seal Flagship Store: 4Q Activity

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Date	Agents	Serviced Clients	Listed Properties				
10/3/21	24	361	273				
10/27/21	23	376	350				
12/2/21	14	396	272				
12/12/21	14	396	266				

Source: Web visits to BEKE's platform

 $^{^{28}\} https://m.ke.com/store/44028803750935341473.html$



Above: Nuojia Chengjia 9 Dragon Seal page on BEKE's platform, visited on 12/12/2021

Our earliest data collection showed that the Nuojia 9 Dragon Seal store had 12 agents working in August 2021. We should have found an active store with between 14-24 agents and hundreds of properties advertised for sale. Instead, when our investigator visited this store at the address listed on the platform in September 2021, he found the store closed with a 'for lease' sign displayed.



Source: MW Investigators Photo, Sept 2021

Our investigator then contacted a store agent to confirm the store address. The agent informed our investigator that the store moved to another store: Shuxiangmendi. However, this new store is listed on the platform as a separate store. In other words, the platform has two stores listed, including one that has been shut down.

• Example Ghost Store 3: Seven Colors Baichuan Store

BEKE's Seven Colors Baichuan Store provides another example of an apparently double-counted 'active' store.²⁹ According to BEKE's platform, this store had 4-8 agents, almost 200 clients and over 164 properties listed for sale or rent in the past three months. On paper, it appears to be a thriving brokerage and certainly an 'active store.'

²⁹ https://m.ke.com/store/34098301750925361671.html

But it doesn't exist. The address listed on its store page only contains the name of the road, no street number. We found the detailed address on its SAIC certificate. Our investigator went to visit this location in September 2021, finding a closed store front.³⁰



Source: MW Investigator's Photo

When a store agent was contacted to check the address, the agent confirmed she worked at Seven Colors Baichuan but gave the address of another store contained in BEKE's platform: Zhonghuan Youjia No. 3 Store (中环-佑家 三)788 Bayuehu Road.³¹ Again, we find what appears to be a single location accounting for two active stores on BEKE's platform.

• Example Ghost Store 4: Sanhe Langfang Lianjia Yanjiao Branch Stores 2 and 15 are the Same Store

In another example, we found two Lianjia branches registered to the same street in the SAIC database. On BEKE's platform, Branch 2 and 15 are known as Tianyang Cheng No. 2 and Tianyang Cheng No. 6, respectively.





Sanhe Lianjia Branch No. 2³² aka Tianyang Cheng No. 2

Sanhe Lianjia Branch No. 15³³ aka Tianyang Cheng No. 6

Source: BEKE Platform

Note: This information is confirmed by the SAIC business certificates provided on these two stores' pages.

Again, the addresses of these stores listed on BEKE's platform only have the street name but no street number, so we had to contact the stores' agents to get directions. However, when we spoke with the agents at these two stores, we were given identical locations for the branch: go to the intersection of Yatai Blvd. and Tianyang Cheng, look for Building No. 9, on the ground floor, next to the Commercial Bank. Following their instruction, we found only one Lianjia store at Building No. 9, on the ground floor, next to the Commercial Bank.

https://m.ke.com/store/34098301750925361671.html

³⁰ 江西七彩色房产经纪有限公司八月湖路分公司, aka: 七彩色地产七彩色百川店-A店,

³¹ https://m.ke.com/store/36078901750055761828.html

³² https://m.ke.com/store/18078900731505931670.html

³³ https://m.ke.com/store/13088500751985131610.html

Branch Company Name	Registered Business Address & Location	BEKE Platform Store Name / Location	Physical Location
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Branch No. 2	Guithua Rd South Side Tianyang Cheng Hantu Huating	Tianyang Cheng No. 2 Store / Yatai Blvd.	Yatai Blvd., Tianyang Cheng, East Side of Construction Bank, Bldng 9, Ground Floor.
三河市链家房产经纪有限公司燕郊 第二分公司	燕郊高新区汉王路西侧、规划路南侧天洋城翰府华庭第33 5号楼1单元商铺-13	天洋城二店 / 亚泰大街	亚泰大街, 天洋城, 建行东侧,九号楼底商.
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Branch No. 15	Yanjiao Development Zone, Guihua Rd, North Side, Tianyang Cheng, Tianyang Square North District, Commerical Building No. 58	Tianyang Cheng No. 6 Store / Yatai Blvd.	Yatai Blvd., Tianyang Cheng, North District, Bldng 9, Ground Level Commercial Area, Construction Bank, Lianjia Real Estate
三河市链家房产经纪有限公司燕郊 第十五分公司	燕郊开发区规划路北侧天洋城天洋广场北区商业58号楼	天洋城六店 / 亚泰大街	亚泰大街, 天洋城, 北区九号楼 底商处建设银行, 链家地产

Only one Lianjia Store was found following the directions





Source: Site Visits

We visited the store in the fall of 2021 and saw Branch No. 15's business registration hanging on the wall. An agent at the store confirmed that the local Tianyangcheng Store No 2 (Branch No. 2) was closed and had merged with Tianyangcheng Store No. 6 (Branch No. 15).

Agent: We have four stores. Previously, we had seven stores at the peak.

Researcher: Which store are you now?

Agent: We are Store No. 6

Agent: Because there was another store, but it was closed, now there is just store No. 1, No. 2 and No. 6.

Researcher: But I saw that Store No. 2 is also here.

Agent: Right. Store No. 2 used to be across the street. But when its lease was up, they closed the store and moved here.

These are clearly the same store. However, both stores appear separately on BEKE's platform.

Transaction data collected from BEKE's platform shows 22 transactions from Branch No. 2 and the 35 transactions from Branch No. 15 between May and October.³⁴ These impressive figures are significantly higher than other Lianjia stores in Langfang.

The collected data contains 32 Lianjia stores in Sanhe Langfang. Over the same a five-month period, the other Sanhe Langfang Lianjia stores had average an transaction per store volume of 15 during the same period. Since Branch No. 2 and No. 15 are actually one store, we consider their combined transaction volume when comparing to the average transaction volume per store for the remaining stores. The results show that the combined transaction volume at Branch

³⁴ May 25, 2021 to October 22, 2021

No. 2 and No. 15 is 159% higher than other Lianjia stores in Sanhe Langfang, which supports our belief that BEKE uses these **ghost stores** to inflate its transaction volumes.

5 Month Transaction Volumes Comparison

	# of Existing Homes	# of New Homes	# of Total Homes
Branch No. 2, Tianyang Cheng Store No. 2	21	1	22
Branch No. 15, Tianyang Cheng Store No. 6	31	4	35
Subtotal	52	5	57
Other 30 stores' average	19	3	22
Difference %	175%	63%	159%

In our research, we found that many stores that were recently closed or merged have not been de-platformed. These stores should show zero agents. However, in contrast, as of the middle of November 2020, both Branch No. 2 (Store No. 2) and Branch No. 15 (Store No. 6) continue to be presented as separate stores with active agents. BEKE's platform continues to display both branch stores with transactions and active agents, which supports our belief that BEKE is using ghost stores to inflate its transaction volumes as well as its active agent and store counts.



Source: BEKE's platform

Additionally, a side-by-side comparison of the agents at these two branches shows no overlap, again suggesting that these are two separate branch locations.

Lianjia Yanjiao Branch No 2 & 15 Agent List Comparison					
No.	Sanhe Lianjia Branch No. 2 (aka Tianyang Cheng No. 2)	No.	Sanhe Lianjia Branch No. 15 (aka Tianyang Cheng No. 6)		
1	黄强, Huang Qiang	1	牛振兴, Niu Zhenxing		
2	叶富国, Ye Fuguo	2	宋杰, Song Jie		
3	方晓丽, Fang Xiaoli	3	刘松, Liu Song		
4	周晓燕, Zhou Xiaoyan	4	周洪涛, Zhou Hongtao		
5	董建存, Dong Jiancun	5	闫东伟, Yan Dongwei		
6	王朝阳, Wang Chaoyang	6	刘义伟, Liu Yiwei		
7	彭钐钐, Peng Shanshan	7	李静, Li Jing		
8	金秋延, Jin Qiuyan	8	陈璐瑶, Chen Lu Yao		
9	武佳豪, Wu Jiahao	9	苏青顺, Su Qingshun		
10	于俊河, Yu Junhe	10	罗桂芳, Luo Guifang		
11	卫福妮, Wei Funi	11	董佳宝, Dong Jiabao		
12		12	张海涛, Zhang Haitao		
13	1	13	邓闫, Deng Yan		
14		14	孙旭, Sun Xu		
15		15	蒋金龙, Jiang Jinlong		
16		16	董利伟, Dong Li Wei		

Source: Store information on BEKE platform, Nov 2021

c. Clone Stores

BEKE uses many techniques to inflate its store count, including **clone stores**, in which BEKE sets up multiple stores on its platform with the same or similar name and/or location but a different suffix, such A, B or C. Field work confirms that despite multiple stores appearing on BEKE's platform, often only one exists in practice. This pattern of clone stores is powerful evidence supporting our conclusion that there are far fewer stores than appear on BEKE's platform, meaning that BEKE's exaggeration of its store count is likely far more egregious than even the platform data suggests.

In seven cities surveyed, we found five cities with significant numbers of cloned Lianjia stores on BEKE's platform. Notably, we found that in Xiamen and Haikou, 41% and 32% of the Lianjia stores are clones. Our research also found that 9% of Lianjia stores in Beijing are also clones. Not all stores on BEKE's platform show SAIC certificates or detailed addresses for us to verify, so the actual number of clone stores might be even higher. The table below shows the probable clone stores we identified in seven cities using the methodology described infra:

Table: Identified cloned Lianjia stores in 7 cities

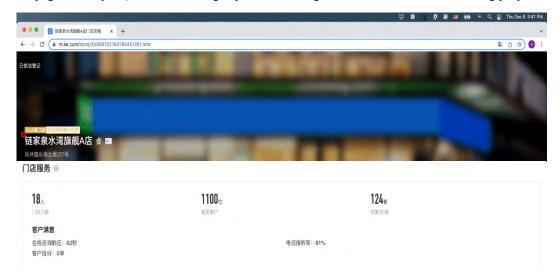
	# of stores on		
	BEKE's platform	# of clone stores	% of clone stores
	A	b	c=b/a
Xiamen	82	34	41.5%
Haikou	28	9	32.1%
Dalian	330	31	9.4%
Beijing	1,452	132	9.1%
Nanjing	277	19	6.9%

Source: Data collected from BEKE's Platform on November 30, 2021

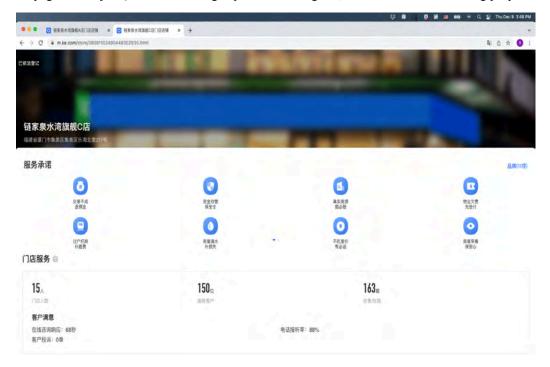
BEKE's franchised brand Deyou labels its stores A and B based on the stores' performance and the number of agents each store has. Initially, we thought Lianjia's A/B/C stores designations followed a similar ranking system until a Lianjia agent told our investigator otherwise. According to BEKE's agent, these seemingly separate stores on BEKE's platform are located in the same store, purportedly under different managers.

For example, on BEKE's platform Lianjia Quanshuiwan Flagship A store and Quanshuiwan C store are shown as separate stores with a different number of agents, a different number of clients serviced, and a different number of listings. On BEKE's platform, these appear to be two separate stores.

Webpage of Lianjia Quanshuiwan Flagship A store: 18 agents, 1100 clients and 124 listing properties



Webpage of Lianjia Quanshuiwan Flagship C store: 15 agents, 150 clients and 163 listing properties



Yet when we contacted Quanshuiwan Flagship C store, an agent told us that the A store and the C store are the same store. The agent told our investigator that the reason the A and C stores were listed separately is because the store has two managers, and dividing the agents, listings and clients into two groupings under A and C makes it easier to keep track of the business of the respective managers operating out of the same store.

Conversation with An Agent Confirming A store and C store are the Same Store



MW: Why does the name show two stores? Are there A store, B store and C store?

Agent: Only A and C, but we are same. Is anything I can help?

MW: You are together in one location, why not one store?

Agent: You can understand it as one store with two groups.

MW: Are A store and C store one store?

Agent: Yes.

The agent confirmed that the letter designation of Lianjia stores on the platform represent the number of mangers or teams that Lianjia has, not the actual store counts. Therefore, one store can easily turn into two, three or more stores on the platform.

For example, our data collection in Xiamen found 82 stores. 61 of these stores had designations suggesting that they were clones (such as ending with A, B or C), but they occupied only 27 locations. So, to estimate the number of clone stores, we simply subtracted the number of stores with such A/B/C designations (61) by the number of locations (27) to get a suspected to 34 clone stores. Of the 82 stores in Xiamen, we therefore estimated that 41.5% were clones.

	# of stores on	# of stores with clone	# of locations with	Estimated	
	BEKE's	designations (e.g. A,	multiple clone	# of clone	% of fake
	platform	B, C)	stores	stores	stores
	a	В	С	d=b-c	e=d/a
Xiamen	82	61	27	34	41.5%
Haikou	28	5	2	9	32.1%
Dalian	330	62	31	31	9.4%
Beijing	1,452	256	124	132	9.1%
Nanjing	277	38	19	19	6.9%

Note: The cloned store are the stores in one location with the name of [___]A store, [___]B store, or [___]No.1 store, [___]No.2 store, or [___]No.3 store, etc.

Using this methodology, we estimate that at least 9.1% of the stores listed on BEKE's platform in its key market of Beijing are clone stores. In Xiamen and Haikou, were estimate that <u>41.5%</u> and <u>32.1%</u> of the stores are clones in those cities.

We spot checked this analysis by searching on Baidu Maps. In instances of clone stores, we can see that there is only one store listed on the map with the store name, but we don't see any B or C stores. This further corroborates our finding that Lianjia has large number of fake stores that appear active on the platform but do not exist.

The data collected from BEKE's platform shows that the A store usually shows all the detailed information including address and business license, but the B or C stores do not. This is likely why approximately 30% of the stores listed on the platform do not have complete store information and/or a verifiable business license.

Throughout the period of our research, we also noticed that store names were frequently changing, and many stores did not display a correct and/or specific address, instead giving a vague, highly simplified general location or an incorrect location.

Ultimately, the frequency of clone stores in major markets implies that there are far fewer stores in reality than we observed on BEKE's platform, meaning that BEKE's store count inflation is more egregious than we calculated from the platform data alone.

d. The Sanhe Langfang Case Study: SAIC Store Count Inflated by 59%

We found that Lianjia store numbers in BEKE's SEC filings generally align with the number of Lianjia stores registered in a given city's SAIC. However, as our field work across China revealed, there were many stores with active SAIC registrations that did not exist. This suggests that branch store registrations were being created on paper and filed with the local SAIC's, but no physical operation was being maintained.

To investigate these store count discrepancies further we decided to conduct field work in one city, Sanhe Langfang, to focus on the Company owned Lianjia brokerages. We compared SAIC data, readily available online through TianYanCha or QiChaCha, with the results of physical site visits.

Sanhe Langfang is a satellite city of Beijing located within the Hebei province.³⁵ We chose this city for a deep dive because BEKE purports to be strong in and around Beijing, and the Company supposedly maintains a significant number of Lianjia brokerages in the area. The Sanhe Langfang Lianjia stores displayed very high numbers of transactions per store, so we expected to find a high degree of activity.

The SAIC data shows 51 Lianjia stores located in Sanhe Langfang.³⁶ Yet when we tried visit these locations, we were only able to confirm the existence of 32, observing non-existent stores, double counted stores, and stores that appeared to be entirely different brands – including BEKE's connected Deyou brand.

Of the 51 Lianjia stores we should have found in Langfang, **19 were ghost stores**. In this city alone, site visits and field work indicate that BEKE overstated the store count by 59% by keeping branch SAIC registrations current while not actually stores. We believe that Sanhe Langfang is representative of the Company's web of lies, and that such **ghost stores are endemic**.

• Example: 7 SAIC Lianjia registrations in same area, but found only 2 and 1 was closed

In the Langfang SAIC data, we found seven Lianjia stores registered on the same street with near identical addresses. All seven of which were established at the same time with the same legal representative.³⁷ We visited the street to verify the existence of these stores but found only one store: Sanhe Lianjia Yanjiao Branch No. 53 ("Branch No. 53")

³⁵ 三河市廊坊市,河北

³⁶ Chinese company information database

³⁷ Chinese company information database. These stores were established on either May 25 or May 26 of 2017, with Song Xinghua 宋兴华 as their legal representative.

in suite A1-8. To confirm our findings, we spoke with an agent at the operating Lianjia store. The agent confirmed that there was indeed only one Lianjia store on the street.

Branch Company Name	Registered Business Address & Location	BEKE Platform Store Name	Physical Location	
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Branch No. 53	Yanjiao New High Tech Zone, Yanhsun Rd., East Side, S. Mizhou Branch Line; ShouErYuan TianCheng, Phase 1, District E, Building 1, 1st Floor, Unit 1, Suite A1-8	SouErTianCheng #2 Store	Yes (Sharing address A1-9	
三河市链家房产经纪有限公司整郊第五十三分公司	家房产经纪有限公司兼郊第五十三分公司			
Sauthe City Lianjia Reaf Estate Brokerage Co, Yanjiao Branch No. 54 Yanjiao New High Tech Zone, Yanhsum Rd., East Side, S. Mizitou Branch Line; ShouErYuan TianCheng, Phase 1, District E, Building 1, 1st Floor, Unit 1, Suite A 19		None	Sharing address A1-9	
三河市链家房产经纪有限公司兼郊第五十四分公司	燕郊高新区燕顺路茶侧、密添支线南侧首尔园甜城一期E区一期第1幢1单元1层A19	TACILIO .	with No. 53	
Sanhe Ctty Lianjia Real Estate Brokerage Co, Yanjiao Branch No. 55 Yanjiao New High Tech Zone, Yanhsun Rd., East Side, S. Mizhou Branch Line; ShouErYuan TianCheng, Phase 1, District E, Building 7, 1st Floor, Unit 1, Suite A2-7		None	No	
三河市链家房产经纪有限公司兼郊第五十五分公司	燕郊高新区燕顺路东侧、密添支线南侧首尔园甜城一期E区一期第7幢1单元1层A2-7	ritue	110	
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Branch No. 56 Yanjiao New High Tech Zone, Yanjiao Rd., East Side, S. Mizhou Branch Line; ShouErYuan TianCheng, Phase 1. District E, Building 7, 1st Floor, Unit 1, Suite A2-6		None	No	
三河市链家房产经纪有限公司兼郊第五十六分公司	燕郊高新区燕顺路东侧、密添支线南侧首尔园甜城一期E区一期第7幢1单元1层A2-6	THOME .		
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Branch No. 57 Yanjiao New High Tech Zone, Yanhsun Rd., East Side, S. Mizhou Branch Line; ShouErYuan TianCheng, Phase 1, District E, Building 9, 1st Floor, Unit 1, Suite A2-33		None	No	
三河市链家房产经纪有限公司素郊第五十七分公司	燕郊高新区燕顺路东侧、密漆支线两侧首尔园甜城一期E区一期第9幢1单元1层A2-33	Trickle.	110	
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Branch No. 58 Yanjiao New High Tech Zone, Yanhsun Rd., East Side, S. Mizhou Branch Line; SliouErYuan TianCheng, Phase 1, District E, Building 9, 1st Floor, Unit 1, Suite A2-34				
三河市链家房产经纪有限公司燕郊第五十八分公司	燕郊高新区燕顺路东侧、密漆支线南侧首尔园湖城一期E区一期第9幢1单元1层A2-34	Closed	70	
Yanjiao New High Tech Zone, Yanjian Real Estate Brokerage Co, Yanjiao Branch No. 59 Yanjiao New High Tech Zone, Yanjian Rd., East Side, S. Mizhou Branch Line; ShouErYuan TianCheng, Phase 1. District E, Building 9, 1st Floor, Unit 1, Suite A2-35 三河市链家房产经纪有限公司素郊第五十九分公司 素郊高新区素顺路东侧、密漆支线溶侧首尔园甜城一期E区一期第9幢1单元1归A2-35		None	No	
		Hone	(80)	

When comparing the data of the confirmed store with the SAIC data, we observed further discrepancies. The only unique store of the seven observed, Branch No. 53, is located at E2-A1-8 of the MOBO apartment complex.

The address plaque indicates the store is at the MOBO International Center, E2-A1-8



Source: Site Visits

On BEKE's platform, Branch 53 is also known as Lianjia ShouErTianCheng No. 2 and the listed address matches with the address plaque hung outside of the store. 38



Source: BEKE's Platform

However, the store has a different address listed in its SAIC business license certificate. The accompanying SAIC business license provided to the store page shows Branch No. 53 is registered in District E, building 1, 1st Floor, Unit 1, Suite A1-8, which should be E1-A1-8 and not E2-A1-8 as listed elsewhere.



Source: BEKE's Platform

We believe that BEKE intentionally creates inconsistencies such as these to misrepresent its actual store counts. But that is not the only trick we observed in our field work.

Two of the seven Lianjia stores in question are registered side by side, Branch No. 53 in unit A1-8 and Branch No. 54 in unit A1-9. The same single store occupies these two addresses and shows up in the SAIC records as two different locations, but in reality, these are a single store.

³⁸ https://m.ke.com/store/18090400891701434975.html, 链家首尔甜城二店, 三河市燕郊开发区燕顺路首尔甜城 MOBO 公寓 北面底商 E2-A1-8



Lianjia Shouertiancheng No. 2 (aka Branch 53, A1-8 & 54, A1-9) bookended by 2 Deyou stores

Source: Site Visits

All of these branches also filed for their annual reports with SAIC in the past four years and have active current registrations.

There was one Lianjia store where we should have found seven. We believe BEKE uses these SAIC listed non-physical locations as "ghost stores" as false support for its SEC store counts.

The use of similar but different store names and the extremely vague store location descriptions and addresses is a common theme on BEKE's platform. For instance, we observed **two branches registered to the same street address in the SAIC database**. When we visited, we only found one store. Branches 10 and 79 are co-located but presented as distinct and different stores on BEKE's platform with different store numbers, different branch numbers, and different SAIC business registrations.

When visited the store, we saw SAIC business license displayed on the wall was for Branch No. 79. However, on the opposite wall, both Branch No. 10's and Branch No. 79's award banners were presented. The agent at the store stated that Branch No. 10 (Store No. 2) was closed and had merged with Branch 79 (Store No. 4).

However, like the example of Branch No. 2 (Tianyang Cheng No. 2) and No. 15 (Tianyang Cheng No. 6) above, both stores also displayed active transactions even after one was closed and the two seemingly merged. In our collected data from May 25 to Oct 22, we found that Branch No. 10 displayed 13 exiting home and 2 new home transactions and Branch No. 79 showed 27 existing home and 2 new home transactions, combining to produce a total of 44 home sales.

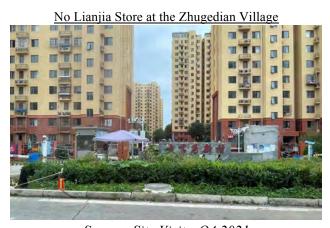


Above left: The business registration certificate displayed for Lianjia Yanjiao Branch No. 79 Above right: Sales Award Banners for both Store 4 (Branch 79) and Store 2 (Branch 10) hanging in same store

Another store simply didn't exist. Branch 51 is registered at Zhugedian Village in Yanjiao Town. Yet when we visited the site, we could not find any Lianjia or other real estate brokerage to speak of.

Branch Company Name	Registered Business Address & Location	BEKE Platform Store Name	Physical Location	
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Yanjiao Village, Zhuge Commercial Town Branch No. 51		None		
三河市链家房产经纪有限公司燕郊第五十一分公司	燕郊镇诸葛店村	Hone	No-	

	SAIC	Registration In	formation for the Sa	nHe City Lia	njia Real Estat	e Brokerage	Co, Yanjiao Br	anches	
51	12-Jun-17	SONG Xinghua 宋兴华	133-1561-8352, 563284618@qq.com	On file, operating	On file, operating	On file, operating	On file, operation closed	Active	No



Source: Site Visits, Q4 2021

In another example, Branches 4 and 88 are registered on the same street, only two stores away. When we visited, we only found one Lianjia store (Branch 88). The location where Branch 4 should be is actually a restaurant.



Source: Site Visits, Q4 2021

BEKE presents its store count as having a linear relationship with GTV and revenues. Like the latter categories, our data collection of BEKE's platform showed massive exaggeration of BEKE's store count. Yet this even likely overstates the true extent of the misrepresentation, as our field work found many examples of ghost and clone stores which were listed as 'active' on BEKE's platform and existed on paper, but not in reality.

In Appendix II, we include more information from our investigation of Langfang, including supplemental details and photos pertaining to the pattern of ghost stores observed in the examples provided here as well as additional examples.

Multiple Independent Data Points Show Massive Agent Overstatement

BEKE's is a multivariate fraud, with layers of deception metastasizing throughout its business and representations to investors. Although our data collection indicates that BEKE's reported agent count is at least 26% inflated, much like the store count, field work and independent evidence from government real estate registries suggest that the agent count is more significantly exaggerated to investors.

Home sales on BEKE's platform are a function of the number of agents using its platform. Clearly, the more agents on the platform, the more home sales closed and recorded through the platform, and the larger the Company's GTV and related revenues.

This link between agent growth and GTV and revenue growth is an important pillar of the narrative supporting BEKE's stock price.

Yet data we collected from BEKE's platform reveals that like GTV and revenues, BEKE is significantly exaggerating the number of agents on its platform. We corroborated this collected data with SAIC data and local government real estate registries, which independently indicate that BEKE significantly overstates the number of agents on its platform to US investors. This is an important part of the thesis, as it tracks the exaggeration of GTV, stores and revenues.

a. Platform Data Indicates Agent Count Significantly Overstated

BEKE <u>claimed</u> to have 548,000 agents as of June 2021, an 11% increase from 2020.³⁹



However, the actual number of agents on BEKE's platform contradicts this reported figure. We used a program to collect the number of agents listed on the Company's platform as of July 16, 2021. Our program used the Find Agent function to locate the agents.⁴⁰

The collection was conducted on July 16, two weeks after the end of the second quarter. Our collection detected only 435,888 agents, suggesting BEKE inflated its agent count by approximately 26%.

Comparison of BEKE Claimed Agent Number vs. BEKE Platform Data

	# of Agents
Number of agents reported by BEKE (2Q 2021)	548,000
Number of Lianjia agents from collected data (as of 7/16/2021)	115,940
Number of Connected stores agents from collected data(as of 7/16/2021)	319,948
Total agents on BEKE's platform (as of 7/16/2021)	435,888
Difference	(112,112)
Inflated %	26%

-

³⁹ BEKE 2Q 2021 Investor Presentation, p.3.

⁴⁰ BEKE 2020 20-F, pp. 54-57, Since BEKE's ACN is designed to help manage transactions and keep track of sales and most importantly the division of commissions, and is replete with procedures and rules, as well as performance and service scoring, we believe that all agents and stores are highly incentivized, if not required, to be on the platform.

It is possible that BEKE is worried that its inflated agent count will be discovered. Similar to its stores, in BEKE's 3Q21 earnings press release, the Company introduced new metrics of 'active agents' and 'active stores' on its platform.⁴¹

Rather than this being an acknowledgement of the number of inactive agents on BEKE's platform, we think it is a thinly veiled attempt to preempt concerns about the discrepancy between BEKE's claims and reality.

Despite this ruse, even if we count the 'active' agents, we still observe a substantial discrepancy between the number of 'active' agents reported by BEKE and the number of agents on its platform. In other words, our platform data likely overcounts the number of agents working for the Company. **Spot checking reveals that the overstatement is likely much greater**.

b. Local Government Real Estate Website Corroborates Exaggerated Agent Count

In order to determine whether BEKE was overstating the number of agents on its platform, we compared a local real estate license registry against the detailed disclosures provided by BEKE in connection with a recent acquisition.

As a protection against unscrupulous real estate agents, the city of Nanchang in Jiangxi Province provides a quantitative score and ranking for all agents, tracking good and bad behaviors with 100 points (5 stars) being the highest ranking.⁴²

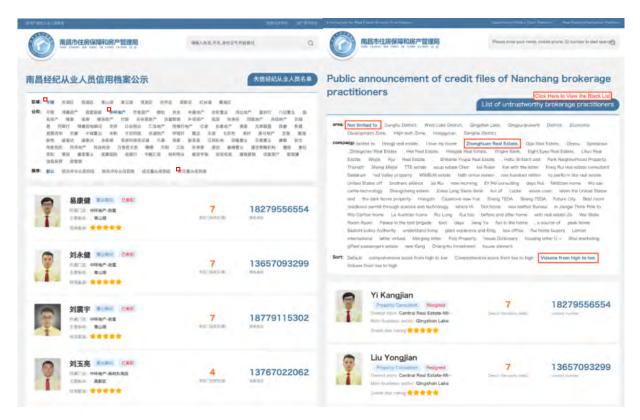
These scores are listed in Nanchang City's Real Estate Broker Credit Registry (the "<u>Registry</u>"). Agents with scores below 60 are entered onto a blacklist and their brokerage credentials are cancelled.⁴³ The <u>Registry</u> is public and searchable.⁴⁴ Local authorities confirmed that the Registry is updated frequently and that the registry is so current, displaying whether an agent is still with an agency, or if they have resigned or have been blacklisted.

⁴¹ https://www.sec.gov/Archives/edgar/data/0001809587/000110465921135986/tm2132196d2 ex99-1.htm

⁴² http://www.xinhuanet.com/local/2018-08/03/c 1123219937.htm

⁴³南昌市房地产经纪从业人员信用行为管理规定,http://house.ncfdc.com.cn/News/newsbody.html?id=137485

⁴⁴ 南昌经纪从业人员信用档案公示、http://m.ncfdc.com.cn/BrokerCreditFiles



In 2019, BEKE acquired a real estate brokerage called Zhonghuan. Our collection of data from BEKE's platform found that in late August 2021, Zhonghuan's Nanchang operation had 363 stores with 2,050 agents.

We <u>checked</u> these numbers against the Nanchang Registry. The results showed that although the reported store count closely matched, the number of Zhonghuan agents was exaggerated by 50%.

Zhonghuan's operation in Nanchang	# of Stores	# of Agents
BEKE platform	363	2,050
Nanchang Real Estate Bureau Registry	360	1,307
Inflated %	1%	50%

Source: Nanchang Housing Security and Real Estate Administration database,

Data collected from BEKE platform

We believe that BEKE uses former agents who have left the Company to inflate the agent count on its platform. For example, according to BEKE's platform, Zhonghuan Youjia No. 3 store supposedly has 12 agents. 45

⁴⁵ As of December 10, 2021 <u>中环地产中环-佑家三店-A店门店店铺 (ke.com)</u>



Yet when we compared the listed agents at Zhonghuan Youjia No. 3 and the Registry, we found three agents had already left Zhonghuan. 46



Our collected data indicates that there are far fewer agents on BEKE's platform than it reports to investors. But the Nanchang registry implies that the number of active agents is substantially less than the number of agents on the platform, likely because the registry is scrubbed far more often for real estate agents who drop out of the business or leave the Company.

We corroborated this conclusion with other data sources, including SAIC data, which confirm that BEKE's agent count is materially overstated. 47

⁴⁷ SAIC data is from QiChaCha.

⁴⁶ The three agents' information on BEKE's platform: https://m.ke.com/bj/jingjiren/1000001005193156, https://m.ke.com/bj/jingjiren/100000100014187

c. SAIC Data in BEKE's Leading Markets Show Overstated Agent Count

Beijing and Shanghai are BEKE's two primary markets. The Company claimed that these two cities contributed 32% of revenue in 2020, and that Lianjia had 21,000 agents in Shanghai and 27,000 agents in Beijing as of Dec 31, 2020. 48

In China, companies are required to pay the contribution to social insurance for all employees.⁴⁹ Chinese companies are required to report the number of employees to SAIC. A simple check of the SAIC data for BEKE's subsidiaries imply that the Company is materially inflating its agent count in these key markets.

i. Shanghai: SAIC Data in BEKE's Largest Market Show 100%+ Overstatement in Agent Count

In BEKE's latest 20-F, the Company claimed it had Lianjia 21,000 agents in Shanghai as of FYE 2020. In the 20-F, BEKE lists only two subsidiaries in Shanghai: Deyou Real Estate Agency Co., Ltd. ("<u>Deyou Agency</u>") and its subsidiary, Shanghai Deyou Property Consulting Co., Ltd. ("<u>Shanghai Deyou</u>"). 50

When we spot-checked the Company's claims with the annual SAIC data for its Shanghai subsidiaries from database providers QiChaCha and QiXinBao, these entities reported only 9,996 employees registered.



Source: QCC (database of SAIC registration information)

⁴⁸BEKE 2020 20-F, p. 60: "As of December 31, 2020, Lianjia had approximately 27,000 and 21,000 agents, as well as approximately 1,400 and 1,000 brokerage stores, in Beijing and Shanghai, respectively."

⁴⁹ BEKE 2020 20-F, p. 29. BEKE claimed that certain of our PRC subsidiaries and consolidated affiliated entities have failed to make social insurance and housing fund contributions in full for their employees. Yet we think the difference is too big to be explained by this excuse.

⁵⁰ BEKE F-1, dated July 24, 2020, p. F-15; BEKE F-1, dated Nov 16, 2020, p. F-112; BEKE 2020 20-F, p. F-11, and public SAIC corporate registry databases such as QiChaCha, QiXinBao

Deyou Real Estate Agency: 8,686 employees

英文名	Deyou Real Estate Brokerage Co., L	.td.		进出口企业代码	10
人员规模	8000-8999人	参保人数	8686	鲁用名	上海德佑房地产经纪有限公司
所属行业	房地产业	所属地区	上海市	登记机关	泰贤区市场监督管理局
企业类型	有限责任公司(非自然人投资或控 股的法人独资)	营业期限	2002-09-04 至 2032-09-03	纳税人资质	
组织机构代码	74269241-3	工商注册号	310120001430814	纳税人识别号	91310120742692413Q
注册资本	5000万元人民币	实缴资本	5000万元人民币	核准日期	2021-02-19
法定代表人	王拥群 关联141家企业>	登记状态	存续(在营、开业、在册)	成立日期	2002-09-04
統一社会信用代码	91310120742692413Q	企业名称	德佑房地产经纪有限公司		

Source: QCC (database of SAIC registration information)

We learned that BEKE is registering some Shanghai employees who have hukous in other cities in its Shenzhen entities. However, BEKE claimed 21,000 agents in Shanghai, while SAIC data for its two Shanghai brokerage subsidiaries show only 9,996 employees and 199 employees in its other subsidiaries (including its VIE). In our opinion, this legally dubious maneuver is unlikely to account for much of the delta because of the potential to attract negative attention and the implication that so little of its agent base is from Shanghai.

Shanghai Agent Overstatement: SAIC Data vs. Claimed

Shanghai Agent Overstatement. SAIC Data vs. Claimed	
2020	# of Employees w/ Social Insurance
德佑房地产经纪有限公司 Deyou Agency*	8,686
上海德佑物业顾问有限公司 Shanghai Deyou*	1,310
上海高策房地产经纪有限公司	2
上海链家房地产经纪有限公司	0
上海闹海房地产经纪有限公司	0
上海德融房地产经纪有限公司	0
Brokerage and related business subtotal	9,998
上海方毓网络科技有限公司	21
度有文化传播(上海)有限公司	0
贝壳技术有限公司上海分公司	171
上海识切信息科技有限公司	0
上海链鲲技术有限公司	6
上海小宅信息技术有限公司	0
上海小桁网络科技有限公司	1
上海海赑科技有限公司	0
上海晨海贝网络科技有限公司	0
Other business subtotal	199
Total	10,197
Claimed # of agents in Shanghai	21,000
Inflated %	106%
	j

^{*}Disclosed in the BEKE SEC filings

We think even this metric likely understates the extent of BEKE's misrepresentations. The employee count reported in the SAIC data of BEKE's Shanghai subsidiaries should include a number of employees who are not agents. This means that of the 10,197 employees reported in the SAIC data, a portion should be non-agent support staff such as secretaries and internal accountants.

We contacted six Shanghai Lianjia stores who told our investigator that Lianjia stores do not employ part-time or temporary agents and that Lianjia pays social insurance for its employees. This means that the employee count on the SAIC data should generally match the agent count reported by the Company in its SEC filings. It doesn't and it is not even close.

We see the same pattern when we compare BEKE's disclosures with independent records from the Company's other key market, Beijing.

Beijing: SAIC Data Shows over 100% Overstatement in Agent Count ii.

BEKE claimed that it had 27,000 agents in Beijing as of Dec 31, 2020.⁵¹ Beijing is also the corporate headquarters for the company, so in additional to agents and its support staff, "a large portion of employees" are based in Beijing working in administration and other office functions.⁵²

Employees

We had a total of 119,658 employees as of December 31, 2020. The following table sets forth the numbers of our employees categorized by function as of December 31, 2020.

Number of Employees
91,210
12,316
3,420
5,042
7,670
119,658

As of December 31, 2020, our employees were mainly based in mainland China. A large portion of our employees are based in Beijing where our headquarters is located, and the rest are mainly at our subsidiaries and branches across the nation.

We reviewed BEKE's IPO and secondary F-1 prospectuses, its 2020 20-F and the public SAIC corporate registry databases to map out the structure and identify companies that might be significant employers in Beijing. We found that in Beijing, BEKE has 28 major and minor subsidiaries (including VIEs). 53 These entities reported a total of only 14,236 employees per SAIC data, indicating that BEKE is exaggerating the number of its agent in Beijing by 90%.

⁵² BEKE 2020 20-F, p. 130

⁵¹ BEKE 2020 20-F, p. 60: "As of December 31, 2020, Lianjia had approximately 27,000 and 21,000 agents, as well as approximately 1,400 and 1,000 brokerage stores, in Beijing and Shanghai, respectively."

⁵³ BEKE F-1, dated July 24, 2020, p. F-15; BEKE F-1, dated Nov 16, 2020, p. F-112; BEKE 2020 20-F, p. F-11, and public SAIC corporate registry databases such as QiChaCha, QiXinBao. Note, in the most recent filing, the 2020 20-F shows fewer "major subsidiaries" than in its F-1 prospectuses.

BEKE's SAIC Data Indicate the Number Its Agents in Beijing are 90% Inflated

Company	# of Employees*	Company	# of Employees*
贝壳找房科技有限公司北京分公司	1	北京丁丁优房科技信息有限公司	0
北京链家高策房地产经纪有限公司 **	1,801	万科链家(北京)装饰有限公司	72
北京美宸信息咨询有限公司	232	北京贝好商务咨询有限公司	0
贝壳找房网(北京)信息技术有限公司	0	北京伊诺万链商务服务有限公司	0
北京房江湖科技有限公司	2	北京理房通支付科技有限公司 **	142
北京方源房地产咨询服务有限公司 **	330	北京宜居泰和科技有限公司 **	9
北京佰诚合信房地产经纪有限公司	0	北京中融信融资担保有限公司 **	277
北京高策房地产经纪有限公司	54	北京全装美家装饰有限公司	273
北京链家房地产经纪有限公司**	169	北京致经联同科技有限公司	1
贝壳找房(北京)科技有限公司 **	4,218	贝易拍(北京)拍卖有限公司	1
北京链家置地房地产经纪有限公司 **	6,304	北京信富咨询有限公司	0
北京贝壳家居科技有限公司	0	北京链家融信投资咨询有限公司	0
德佑 (天津) 房地产经纪服务有限公司北京分公司	103	Other business subtotal	1,022
Brokerage and related business subtotal	13,214	Total	14,236
北京链家融盛管理咨询有限公司	85	Claimed # of agents in Beijing	27,000
北京链家旅居科技服务有限公司	161	Inflated %	90%
北京贝嘉商务咨询有限公司	1	*# of employees w/ social insurance reported in 2020	

^{**} Disclosed in the BEKE SEC filings

Again, such figures likely understate the true extent of BEKE's misrepresentations, as SAIC data includes a number of non-agent employees, particularly given that BEKE's headquarters are in Beijing.

It is clear that GTV and revenues are a function of the number of agents BEKE employs, meaning that such agent overstatement tracks closely with other independent data points showing GTV and revenue exaggeration.

• Labor dispatching and outsourcing agencies may legally only make up 10% of the employees

The evidence is clear that BEKE is materially inflating its agent count. The discrepancy cannot be accounted for by labor dispatching and outsourcing agencies. BEKE's own SEC disclosures state that PRC labor laws limit the number of dispatched and temporary laborers to 10% of the total labor force.⁵⁴

Labor Dispatch

Pursuant to the Labor Law of the PRC and Interim Provisions on Labor Dispatch, which was promulgated on 24 January 2014 and became effective on 1 March 2014, labor dispatch employment is a supplemental form which can only be adopted for temporary, auxiliary or alternative job positions. Temporary positions are positions subsisting for no more than nine months; auxiliary positions are positions of non-major business serving for major businesses; and alternative positions are positions that can be held by dispatched laborers for a certain period of time during which the former laborers are temporarily out of their positions for reasons. An employer is required to strictly control the number of dispatched laborers not to exceed 10% of the total number of its labor force.

-

⁵⁴ BEKE 2020 20F, p. 78

Even assuming 10% of the labor force is temporary workers, the maximum allowed under PRC law, SAIC data still indicate that BEKE inflates the number of agents in its key Beijing and Shanghai markets by ~79%.

Labor Dispatching Would Not Explain the Discrepancy

	Shanghai	Beijing	Total
# of employees in 2020 SAIC data	10,197	12,920	24,433
Labor dispatching limit 10%	10%	10%	10%
	11,217	14,212	26,876
# of agents claimed in SEC filings	21,000	27,000	48,000
Inflated %	87%	72%	79%

Source: BEKE SEC filings and its subsidiaries' SAIC filings

BEKE's conflicting disclosures also support this assumption. BEKE reports the breakdown of its employee count by function in its SEC filings. Even if we assume that all the dispatched workers are agents, adding them together with the number of agents reported in the function breakdown section still leaves BEKE far short of the agents necessary for its headline agent claims to be true.

	6/30/2020	9/30/2020	12/31/2020
# of agents claimed	134,000	133,000	139,000
Reported agents and supporting staff	64,543	89,217	91,210
Reported dispatched workers	9,495	8,217	11,966
Max # of agents	74,038	97,434	103,176
Inflated %	81%	37%	35%

Source: BEKE's Public Filings

Pursuant to PRC labor laws, temporary employees may only constitute a maximum of 10% of the full-time employee count. BEKE confirmed in its SEC filings that it did not exceed this 10% threshold mandated by Chinese law. Accordingly, even assuming all of the temporary agents were agents, the number is still far short of BEKE's headline agent count. We believe the explanation is clear. Revenue and GTV are a function of agent count, so to justify its fabricated GTV and revenue figures, BEKE has also significantly inflated the number of agents on its platform to pump its stock price.

• Inconsistent SEC Disclosures - Additional Evidence of Agent Overstatement

We observed discrepancies not only between its SEC filings and local Chinese regulatory filings, but also between the figures reported in BEKE's SEC filings from period to period. Even in its SEC filings, the number of employees fluctuates widely, suggesting, in our opinion, that the Company has trouble keeping its story straight regarding the number of its employees and its agents.

For example, in its initial F-1 filed in April 2020, BEKE stated that as of Dec 31, 2019, it employed 82,282 direct employees and 76,217 dispatched workers, which was 93% of its full-time employee. If true, this would be an admission of violation of PRC labor laws.

Employees

We had a total of 82,282 employees as December 31, 2019. The following table sets forth the numbers of our employees categorized by function as of December 31, 2019.

Function	Number of Employees
Agents and supporting staff	60,248
Platform operations	8,598
Research and development	3,043
Business development, sales and marketing	4,325
Administration and management	6,068
Total	82,282

In addition to our own employees, our labor force also includes dispatched workers. As of December 31, 2019, we had 76,217 dispatched workers. We have implemented a comprehensive plan to reduce the percentage of dispatched workers. As of the date of this prospectus, the number of our dispatched workers does not exceed 10% of our total labor force. See also "Risk Factors — Enforcement of stricter labor laws and regulations and increases in labor costs in the PRC may materially and adversely affect our business and our profitability".

Source: BEKE F-1 filed on April 25, 2020, p. 169

The SEC questioned BEKE about this matter. In June 2020, the Company replied that it had lowered the percentage of dispatched workers to less than 10%. BEKE claimed that, as of April 30, 2020, the number of its full-time employees increased 82% within four months after implementing a comprehensive plan to presumably gain compliance with PRC labor law.⁵⁵

However, two months later, the self-reported figures fluctuated significantly again, when BEKE claimed that the number of its full-time employees decreased 41% to 87,706 and the number of dispatched workers was 9,495.

Employees

We had a total of 87,706 employees as of June 30, 2020. The following table sets forth the numbers of our employees categorized by function as of June 30, 2020.

Function	Number of Employees
Agents and supporting staff	64,543
Platform operations	9,200
Research and development	3,080
Business development, sales and marketing	4,193
Administration and management	6,690
Total	87,706

In addition to our own employees, our labor force also includes dispatched workers. Historically, we had a relatively large number of dispatched workers. In 2020, we have initiated and implemented a comprehensive plan, including making more direct employment and outsourcing

arrangements, to lower the percentage of dispatched workers without any material impact upon our labor demands. As of June 30, 2020, the total number of our dispatched workers was 9,495, which was below 10% of our total labor force of 97,201, and we do not expect the reduction in the percentage of dispatched workers to have any material impact on

Source: BEKE F-1/A, August 12, 2020

BEKE's reported full-time employee count is available almost every quarter in 2020, and these figures swing drastically every quarter. In practice, we believe that companies rarely go through the hassle to hire full-time employees, fire them, and recruit new workers on a quarterly basis. Yet according to BEKE's SEC disclosures, the number of full time and temporary employees and agents gyrated massively from quarter to quarter.

After the IPO and secondary offerings closed, BEKE appears to have returned to its old ways, reporting that as of Dec 31, 2020, it had 139,000 agents in total, but only 91,210 employees who were agents and support staff on its payroll.⁵⁶

⁵⁶ BEKE 2020 20-F, p.60

⁵⁵ https://www.sec.gov/Archives/edgar/data/0001809587/000091205720000178/filename1.htm#ei75901 regulation

As of December 31, 2020, *Lianjia* had approximately 139,000 agents, including agents employed by us and from labor dispatching or outsourcing agencies, and approximately 7,800 offline brokerage stores across 29 cities in China. As of December 31, 2020, *Lianjia* had approximately 27,000 and 21,000 agents, as well as approximately 1,400 and 1,000 brokerage stores, in

31, 2020, *Lianjia* had approximately 27,000 and 21,000 agents, as well as approximately 1,400 and 1,000 brokerage stores, in Beijing and Shanghai, respectively.

Source: BEKE 2020, 20-F, p.60

D. Employees

We had a total of 119,658 employees as of December 31, 2020. The following table sets forth the numbers of our employees categorized by function as of December 31, 2020.

Function	Number of Employees
Agents and supporting staff	91,210
Platform operations	12,316
Research and development	3,420
Business development, sales and marketing	5,042
Administration and management	7,670
Total	119,658

As of December 31, 2020, our employees were mainly based in mainland China. A large portion of our employees are based in Beijing where our headquarters is located, and the rest are mainly at our subsidiaries and branches across the nation.

Source: BEKE 2020, 20-F, p.130

The difference between the 139,000 Lianjia agents reported and the 91,210 employed directly by BEKE suggests that at least 47,790 agents were employed through outsourcing agencies.⁵⁷ This suggests that the growth in the total agents in of the end of 2020, 28.5% of its labor force were either coming from labor dispatching agencies, or were simply invented.⁵⁸

SEC Letter Secondary May 12 Aug 13 Nov 18 180,000 160.000 140,000 120,000 100,000 80,000 60,000 40,000 20,000 0 12/31/19 6/30/20 9/30/20 12/31/20 ■ Full-time employee Dispatched workers

BEKE's Reported Agent Composition Change

⁵⁸ BEKE 2020, 20-F, pp., 60, 130

⁵⁷ Unlike prior quarters disclosures, the 47,790 number of dispatched workers was not disclosed; however, it can be calculated from the difference between the total number of Lianjia employees reported and the total number of agents who are either Lianjia employees or employed via dispatched labor services companies.

	12/31/20	
Number of Lianjia agents including BEKE employees and dispatched workers	139,000	a
Agents and support staff	91,210	b
Full-time employee	119,658	C
Dispatched workers	47,790	d=a-b
Total labor force	167,448	e=d+c
% of dispatched workers to total labor force	28.5%	f=d/e

One further piece of corroborating evidence emerged unexpectedly during a store visit. One of our investigators approached a Deyou brokerage as a potential buyer of a property. The agent suggested that our investigator temporarily become a Deyou employee to take advantage of the real estate agent employee discount on the sales price offered by the developer. To do so, the agent would upload the buyer's name, government identification number (身份证号), and cell phone number onto the BEKE platform. The agent said that as soon as the home purchase was complete, our investigator could just resign. This unorthodox offer suggests that the number of agents on BEKE's platform could be inflated by buyers disguised as employees.

In our opinion, the dramatic inconsistency in BEKE's disclosed employee count from quarter to quarter in its SEC filings corroborates the evidence we found in the data collection of BEKE's platform and the SAIC data of its primary subsidiaries, all of which show that BEKE lies about the number of agents on its platform to mislead investors regarding the scale of its business, its GTV and revenues.

If BEKE is misleading investors with fake revenues, GTV, stores and agents, how does it account for the fake cash produced by such fraud on its balance sheet?

Likely Acquisition Fraud to Mask Fake Revenues

One of the hallmarks of US-listed Chinese companies that have collapsed amid evidence of fraud is the use of sham transactions to burn off non-existent cash balances. Typically, the company overstates the value of an acquired asset, sometimes secretly purchased from proxies connected to insiders. In our research on BEKE, we found an example that we think is a textbook sham transaction.

In addition, we question how BEKE could have spent its claimed RMB 7.2 billion (US\$1.1 billion) on R&D since 2018.⁵⁹ This also seems to be an overstatement.

BEKE R&D Expense

DERE RED Expense						
Period	R&	D Expense	Source			
3Q21	¥	1,043	3Q21 6-K financial report, p.6			
2Q21	¥	775	2Q21 6-K financial report, p.6			
1Q21	¥	638	1Q21 6-K financial report, p.6			
2020	¥	2,478	2020 20-F, p.100			
2019	¥	1,571	2021 20-F, p.103			
2018	¥	671	2022 20-F, p.103			
Total Rmb mm	¥	7,176				
Total US\$ mm	\$	1,114	3Q2 6-K financial report, p.9 (Rmb 6.4434:US\$1)			

Zhonghuan: Sham Transaction Routed through Straw Entity controlled by Likely Company Proxy

BEKE claims that it spent RMB 1.8 billion to acquire 100% of Zhonghuan Real Estate Agency ("Zhonghuan") in a two-part transaction supposedly completed in 2020. However, SAIC data shows that BEKE routed the transaction through a likely straw buyer controlled by a Company proxy. Straw buyers controlled by management proxies are a common way in our experience to overstate asset purchases prices.

In its prospectus, BEKE claimed that the Company acquired 100% of Zhonghuan in a two-legged transaction. First, the Company claimed that it paid RMB 931 million for 62% of Zhonghuan on July 12, 2019. Second, BEKE claimed to have paid RMB 910 million for the remaining 38% in April 2020. The table below shows BEKE's claims.

BEKE's Purported Timelines and Valuation for the Zhonghuan Acquisition

RMB M	Date	Ownership %	Consideration	Cash	Shares	Valuation
Phase 1	7/12/2019	62%	931	931	0	1,502
Phase 2	Apr 2020	38%	910	194	716	2,395

However, SAIC data contradicts BEKE's disclosures. Regarding the first leg of the transaction, instead of acquiring 62% of Zhonghuan in July, 2019, BEKE only acquired 28%. ⁶¹

On the same day, another entity, Tianjin Yunju Real Estate Agency ("<u>Yunju</u>"), acquired 33.6% of Zhonghuan. Within six months, Yunju flipped its newly acquired 33.6% ownership to BEKE, and not long after deregistered.

⁵⁹ BEKE 3Q21 6-K financial report, p.6,9; BEKE 2Q21 6-K financial report, p.6; BEKE 1, Q21 6-K financial report, p.6; 2020 20-F, pp.100,103

⁶⁰ BEKE F-1, p. F-84 ~ F-86

⁶¹ SAIC Company Information Database



Above: Tianjin Yunju's basic SAIC data including data of establishment and deregistration



Above: SAIC data re the acquisition and consolidation of shares in Zhonghuan by BEKE via Pontus HK on 12/30/21

Evidence indicates that this intermediary was likely a straw buyer controlled by a Company proxy. First, SAIC data shows that the intermediary was incorporated only six weeks before it acquired a substantial share interest in the target. We infer that the purpose of the entity was to hold the interest for a short period before selling to BEKE.

The intermediary also appears to be controlled by an individual closely connected to BEKE. The intermediary (Yunju) was owned by Liu Xiaojun (99%) and Xia Jingsheng (1%). Liu appears to have close ties to BEKE.



The "inextricable connection" between BEKE and Liu Xiaojun was covered by the Chinese media. ⁶² For example, Liu Xiaojun used to be the supervisor of Yantai Lianjia Real Estate Brokerage, ⁶³ a subsidiary of BEKE, and owns a

⁶² https://www.36kr.com/p/1724208054273, "...刘晓军却与链家存在着千丝万缕的联系"

⁶³ Until May 2018. (Chinese company information database)

company called Beijing Beike Real Estate Consulting. Liu is also the ultimate owner of Beijing Fangjianghu Info Tech⁶⁴, which uses @lianjia.com email for corporate registration and shares the same phone number with multiple BEKE subsidiaries.

At BEKE's reported purchase price, BEKE supposedly paid RMB 504 million (to an obvious proxy) for this acquisition. Put simply, rather than buying Zhonghuan outright, BEKE routed the purchase through a highly suspect intermediary. Formed just weeks before the transaction, we think the purpose of the entity was to fraudulently inflate the original purchase price. After holding the target's shares for a mere six months, it then flipped them to BEKE.

In our view, inserting a straw buyer likely enables BEKE a convenient mechanism to fake cash that is a byproduct of significantly overstating revenues.⁶⁵

Additional evidence also indicates that BEKE significantly inflated the value of the acquisition. In two transactions in 2017 and 2019, BEKE acquired a partial interest in IFM, the Century 21 brand network of franchise brokerages in China. BEKE valued its 37.6% equity interest in IFM and loan to IFM's controlling shareholder at a fair value of RMB 225.4 million at the end of 2019. 66 This gave an implied valuation of RMB 599 million to IMF. Notably, BEKE subsequently wrote down RMB 317 million of the IFM investment. 67

We believe IFM is a good benchmark to value Zhonghuan because both are franchise operations acquired by the Company, so we can compare the relative valuation of each business with the data on transactions and stores collected from the platform.

Looking at BEKE platform data, we see that IFM brokerages produce significantly more new and existing home sales, have almost double the number of agents, and more than 40% more stores than Zhonghuan.

Pursuant to ASC 825-10-15-4, the Company elected the fair value option to account for all of its investments in IFM and the loan provided to IFM's controlling shareholder above. The fair value of the additional investment in IFM and the loan to IFM's controlling shareholder was RMB120.1 million on the transaction date, which was supported by independent valuer's valuation report. The difference of RMB317.9 million between the consideration paid and the fair value of financial assets received was recognized as deemed marketing expenses, amounting to RMB274.8 million and RMB43.1 million when the payments were made in May and November 2019, respectively, for the following reasons:

The Company invested heavily to promote the *Beike* platform after its launch in 2018, including online and offline advertising efforts. In 2019, the Company launched many incentive programs to incentivize real estate brokerage firms to join its platform. By making this investment, the Company received marketing related benefits as IFM agreed to be the first large brokerage firm joining the *Beike* platform. It has an effect similar to a corner stone business partner that will bring confidence to other potential smaller brokerage firms for them to trust the Company and join the *Beike* platform. The fact that IFM joined the platform helped to enhance the brand awareness of *Beike* and strengthen the Company's market position.

There is no minimum transactions or traffic committed by IFM to be brought to *Beike* platform as IFM does not directly provide those services to the Company, nor does the cooperation with IFM include any favorable terms. Therefore the business cooperation with IFM did not qualify as an identifiable intangible asset. Moreover, the Company's platform revenue directly generated from IFM was only about RMB6.9 million in 2019, which is immaterial and provides evidence that the payment to IFM is not to give a price concession to IFM as a customer of the Company's platform service.

The Company concluded the business rationale to pay the premium is to enhance and promote the *Beike* platform. Hence, the difference between the consideration paid and the fair value of the investments and the loan should be recognized as a marketing expense. In response to the Staff's comment, the Company has revised the disclosure on page 107 of the Registration Statement to provide

⁶⁴ 北京房江湖信息科技有限公司

⁶⁵ This transaction has many similarities with the Shunshun and DFRL investments discussed in our TAL report.

⁶⁶ https://www.sec.gov/Archives/edgar/data/1809587/000110465920091904/fi lename1.htm

⁶⁷ https://www.sec.gov/Archives/edgar/data/1809587/000110465920091904/fi lename1.htm

Comparative Value of IFM and Zhonghuan by Store, Agent, and Transaction

Difference %	44%	85%	87%	20%	51%	a/b-1
Difference	885	11,458	3,907	1,045	4,952	a-b
Zhonghuan	1,991	13,414	4,488	5,209	9,697	b
21 Century - IFM	2,876	24,872	8,395	6,254	14,649	a
Brand Name	# of Stores	# of Agents	Existing Home Sales	New Home Sales	Total Transctions	
			Number of Transacti	Number of Transactions from May 25, 2021 to Aug 8, 2021		

On both an EV/transaction basis or an EV/store basis, BEKE paid nearly 4x for Zhonghuan. We believe this underscores the absurdity of the price paid for Zhonghuan.

Zhonghuan Valuation Premium

Zhonghuan valuation i temium							
				Implied Equity	Zhonghuan		
				Value (RMB mm)	Valuation		
Brand Name	# of Stores	# of Agents	# of Transctions	as of Dec 31, 2019	Pre mium		
21 Century - IFM	2,876	24,872	14,649	599			
Zhonghuan	1,991	13,414	9,697	1,841			
Zhonghuan Valuation - Adjusted on Equity Value/# of Store Basis 415 3.4x							
Zhonghuan Valuation	ı - Adjusted on Equ	323	4.7x				
Zhonghuan Valuation	ı - Adjusted on Equ	397	3.6x				
Zhobghuan Valuation	n - Adjusted Averag	ge	•	378	3.9x		

It also notable that whereas BEKE wrote down the value of IFM (through a deemed marketing expense), BEKE wrote up the value of Zhonghuan.

Ultimately, we think the evidence shows that BEKE inflated the purchase price of the Zhonghuan acquisition to route the acquisition through a likely Company proxy and burn off phantom cash.

• Shengdu: Absurd Acquisition Price

Another suspicious acquisition merits scrutiny. BEKE claims that the Company spent RMB 8 billion⁶⁸ to acquire Shengdu Home Renovation ("<u>Shengdu</u>"), a home renovation service provider. Yet Shengdu only operates in several provinces with many of its branches setup in 2021.

As a basis of comparison, Dong Yi Ri Sheng Decoration Group (2713.CH) ("Dong Yi"), is a publicly listed renovation service provider. Dong Yi operates in 30 provinces and cities. Its enterprise value in June 2021, around the time of BEKE's acquisition announcement, was RMB 2.5 billion.

In an expert network forum interview, a former BEKE senior manager responsible for the online home sales business discussed his view of the Shengdu acquisition, opining that it was "not a very smart move."

"Personally, I think the company think that it is very natural that people want to get a home renovation. If they bought a home, especially if they bought a secondary housing, they want someone to help them to do with their renovation. But in my opinion, it is a very — like what I said, this industry, the home renovation, the way of acquiring a company like Shengdu is not a very smart move."

"What's more important is that, for the home renovation, you do not have this kind of network effect like what you have with brokerage companies. With the brokerage companies, the more agents that you have, you have a better chance of getting a much bigger market share than a smaller one. But for home renovations, you do not have this kind of network effect. Even if you are 10 times bigger, or even 100 times bigger, than your competitor, it is highly unlikely that you can take market share from the small competitor.

⁶⁸ BEKE did not disclose the exact amount, but only stated that the purchase price would be capped at RMB 8 billion.

The ones who are making some real difference is the companies that invested in, for instance, new ways of doing home renovation. I came across some of the startups or some of the companies in China. They are doing something different. For instance, they will offer a total solution to your home renovation, with different materials and different ways of doing home renovation, which is quite different from that of Shengdu. Shengdu is a service provider. It does not have this kind of technology. I'm pretty negative about this acquisition."

We question why BEKE would pay RMB 8 billion to acquire a home renovation business in a limited number of provinces. Our suspicion is that like Zhonghuan, BEKE grossly overpaid for a questionable business in order to hide fake cash, a balance sheet problem created by BEKE's gross overstatement of its revenues.

Appendix I: Data Collection Methodology and Results

BEKE's online platform has a large volume of data flowing through it. The platform contains key data points on the number of stores and transactions for new and existing homes, what the company refers to as its Agent Cooperation Network (ACN). Platform data is available for external customers to view. We created an automated program to collect the publicly available data on BEKE's platform for the sale of new and existing homes through the Company owned brokerage (Lianjia) and connected store brokerages.

We discussed the platform and data with BEKE agents and confirmed that this data mirrors the company's internal back-end data, showing the same transaction data that company agents see with two main differences:

- No buyer or seller personal information is made public
- There is a roughly two-week delay between a contract signing and the posting of new transactions. The agents explained that this 14–17-day delay is intended to prevent the poaching of sales, listings, and customers by other agents. ⁶⁹

We conducted multiple data collections from the platform. The key data point that we collected was the number of transactions at the store level. BEKE's platform collections frequently provided numerous other data points such as the total number of new and existing home transactions on the platform for the trailing 76-day period, the number of agents and stores on the platform, plus details on the transactions. The collections from the store pages also provided the store name, address, link to its SAIC business registration, number of agents, etc.

	Number of Transactions		
Lookback Period	Existing Homes	New Homes	
May 25, 2021 – August 8, 2021	145,220	112,747	
June 9, 2021 – August 23, 2021	127,803	106,727	
June 30, 2021 – September 13, 2021	118,728	99,756	
August 8, 2021 – October 22, 2021	94,877	107,994	
September 1, 2021- Nov 15, 2021	96,068	118,207	

The collection process worked as follows.

1. First, we used the 'Find Agent' function under each city to retrieve the agent data.



Left: The find and an agent function, Right: Agent information

⁶⁹ The 76 days of data plus a 14-17 wait time approximately equal 90-93 days; or one calendar quarter, less the 14-17 day delay. When we make our estimates, we prorate the 76 period to match the number of days in the quarter (91 days for Q2 and 92 days for Q3).

2. Each agent works at a real estate brokerage store. We use agents' pages to identify their affiliated stores in each city. We then collect the basic store information for each Lianjia and connected brokerage, including the number of agents, store names, store addresses and store URL.



Left: the agent's store information, Center: the store name, address, and link to its SAIC business registration certificate, Right: more store details including number of agents at the store, number of clients, and active listings

3. We analyzed the store details in the code and collected a category of data labelled "Store Completed Transactions" or "门店成交," which shows the number of transactions at each store, including existing home transactions, new home transactions and rental transactions, for the 76-day period preceding the new listing delay.



Above: the app page displaying completed transactions, transaction details including prices, and its code

Both English, Chinese and Romanized Chinese or "pinyin" are written in the code. When in pinyin, the Chinese word for completed transactions is "Chengjiao" (成交). The terms "chengjiao", "zulin" (租赁, rental), "xinfang" (新房, new home), "ershoufang" (二手房, existing home) and others can be seen in the code.

Looking at a single example below, the "chengjiaoData" show 64 rentals, 3 new home sales, and 56 existing home sales in the 76 days prior to the delay for this particular store. The number of existing home sales can also be tied to the number of transactions shown on the individual store's transaction list tab.



Above: sections of the BEKE app code showing number of rental, new home, and existing home transactions

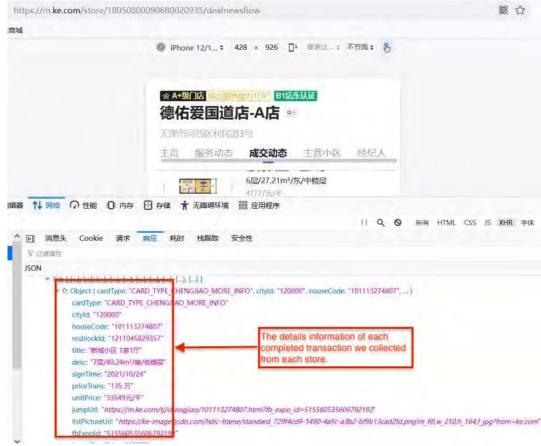
4. BEKE's platform lists detailed information for its existing home transactions for each store under the tab called "dynamic list of completed transactions" (成交动态). The information contained on this tab includes property information, transaction price, date of transaction, and price per square meter for an existing home transaction. Our program collected this detailed transaction data for the stores on the platform identified via the "Find Agent" search program. We collected the number of transactions posted at the store level.



Above: the main page of the app showing the current dynamic list of all completed transactions and its code

 $^{^{70}}$ Note: auto-translate functions may label the dynamic list of completed transactions (成交动态) as transaction trends, transaction dynamics, etc.

The StoreID is a unique identifier for each store on BEKE's platform. We use it to collect all the transaction details for each company-owned or connected store on BEKE's platform.



Above: additional details regarding completed transaction available in the code

We used the unique StoreID to collect all the transaction details for each Company owned and connected store on BEKE's platform.



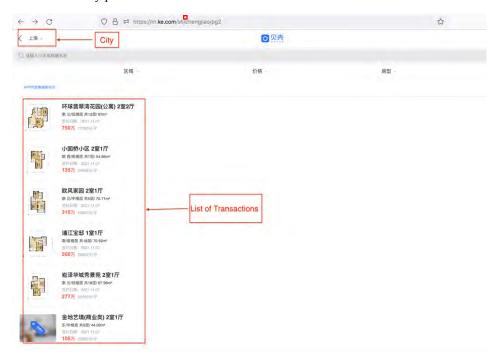
Above: the store ID displayed in the code

Our program was able to collect the details of the most recent 10 existing home transactions' details listed on each store's page. If stores had more than 10 transactions during the 76-day period, only the most recent 10 transactions' details were collected. However, most stores had fewer than 10 recent transactions, in which case all transactions were collected.

Ultimately, we obtained detailed information for approximately two-thirds of the transactions that comprise our data set. For example, our August data collection retrieved details for 96,636 of the 142,220 existing home transactions identified from 5/25 to 8/8 in Step 3, a 76-day period.

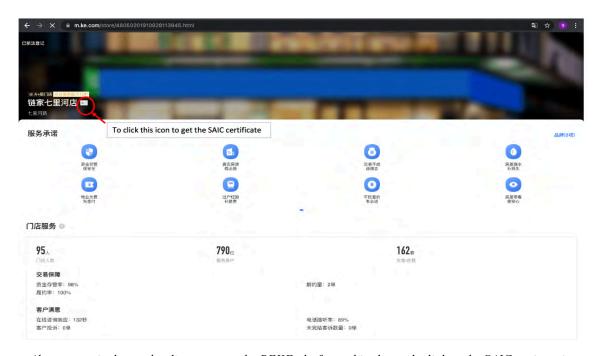
5. Another set of completed transaction data (chengjiaoData) was available at the city level. We made an additional data collection of this city level data for some cities; however the store level data was used as the primary date set.

For example, to obtain our estimate of the average number of transactions for Shanghai in 2Q, we collected the data at the city level from April 25, 2021 to May 15, 2021. The results found 3,000 transactions over these 21 days. To avoid collecting a partial day, we selected just the 20 full days from April 26 to May 15. We prorated the results to be consistent with the data set and estimated that all Lianjia stores in Shanghai made 10,857 transactions over a 76-day period.



Above: example of completed transaction (chengjiao) data collected at the city level for Shanghai

6. Approximately two thirds of the stores also listed their SAIC registration certificates on the platform alongside their SAIC registration number, registered name, and registered address. We used this SAIC license data to verify the store count, check ownership, and registration information.



Above: a typical store landing page on the BEKE platform, this shows the link to the SAIC registration Below: the corresponding link and SAIC registration certificate with arrows pointing to key information



7. Home Sales GTV Calculation

We primarily used two data sets of data from out data collections to estimate BEKE's home sales GTV in 2Q and 3Q 2021. The data collected are from two 76-day periods and contain the number of transactions from pulled all of the stores on the platform which have the Find Agent function on their site.

The calculation for the new home estimates is straightforward. For new home sales GTV, we used the number of transactions collected from BEKE's platform multiplied by the disclosed average value per transaction reported by BEKE in its SEC filings.⁷¹

number of transactions x the average selling price per transaction

Afterwards we prorate the 76-day total to match the number of days in the quarter, for Q2 this is 91 days and for Q3 this is 92 days.

i. Lianjia New Home Sales

BEKE stated that its own Lianjia stores are operating in 29 cities.⁷² Over these two 76-day periods, our program collected new home transactions completed by Lianjia stores in all 29 cities. The total number of transactions collected was 19,963 between 5/25-8/8 and 18,501 between 6/30-9/13.

Lianjia – New Home Sales (76 Days)

	May 25, 202	1 - Aug 8,			June 30, 202	• /	, 2021
	T		# of New		1		# of New
Ref.	Cit	y	Home Sales	Ref.	Cit	y	Home Sales
1	Beijing	北京	1,661	1	Beijing	北京	1,379
2	Chengdu	成都	4,180	2	Chengdu	成都	4,240
3	Shanghai	上海	1,278	3	Shanghai	上海	1,328
4	Chongqing	重庆	859	4	Chongqing	重庆	940
5	Shenzhen	深圳	222	5	Shenzhen	深圳	207
6	Guangzhou	广州	659	6	Guangzhou	广州	664
7	Dalian	大连	1,119	7	Dalian	大连	1,144
8	Tianjin	天津	808	8	Tianjin	天津	717
9	Wuhan	武汉	1,238	9	Wuhan	武汉	1,129
10	Nanjing	南京	787	10	Nanjing	南京	699
11	Xi'an	西安	614	11	Xi'an	西安	693
12	Hangzhou	杭州	312	12	Hangzhou	杭州	340
13	Zhengzhou	郑州	1,046	13	Zhengzhou	郑州	745
14	Qingdao	青岛	585	14	Qingdao	青岛	495
15	Shenyang	沈阳	680	15	Shenyang	沈阳	660
16	Suzhou	苏州	363	16	Suzhou	苏州	323
17	Hefei	合肥	388	17	Hefei	合肥	348
18	Jinan	济南	1,082	18	Jinan	济南	782
19	Yantai	烟台	522	19	Yantai	烟台	403
20	Xiamen	厦门	154	20	Xiamen	厦门	108
21	Shijiazhuang	石家庄	337	21	Shijiazhuang	石家庄	315
22	Changsha	长沙	432	22	Changsha	长沙	339
23	Foshan	佛山	209	23	Foshan	佛山	181
24	Dongguan	东莞	68	24	Dongguan	东莞	57
25	Langfang	廊坊	97	25	Langfang	廊坊	69
26	Huizhou	惠州	49	26	Huizhou	惠州	40
27	Wuxi	无锡	159	27	Wuxi	无锡	94
28	Haikou	海口	0	28	Haikou	海口	1
29	Zhongshan	中山	55	29	Zhongshan	中山	61
	Total		19,963		Total		18,501

Source: Data Collected from BEKE's Platform

⁷² BEKE 2020 20-F, p. 60

⁷¹ Prorated from 76 days to the number of days in the quarter. BEKE disclosed the average value per transaction in its 2020 20-F. Real estate market data show that property prices are flat in the past two years.

ii. **Connected Stores New Home Sales**

Over these same two 76-day periods, we estimate that in Q2 there were ~93,975⁷³ and in Q3 ~87,998⁷⁴ new home transactions from connected stores.

Connected Stores – New Home Sales (76 Days) (May 25, 2021 – Aug 8, 2021)

Ref	City	Jonneeuc	Number of Transactions	Ref	City	(10 Duy	Number of Transactions	Ref	City		Number of Transactions
1	Ji'an	吉安	674	48	Tangshan	唐山	392	95	Kunshan	昆山	841
2	Zhognshan	中山	787	49	Datong	大同	69	96	Weihai	威海	203
3	Ningbo	宁波	1,005	50	Dali	大理	144	97	Xinxiang	新乡	143
4	Linyi	临沂	1,836	51	Zibo	淄博	605	98	Fuyang	阜阳	74
5	Taiyuan	太原	3,713	52	Jinan	济南	1,498	99	Neijiang	内江	86
6	Leshan	乐山	1,524	53	Yantai	烟台	885	100	Haikou	海口	96
7	Qingdao	青岛	2,338	54	Foshan	佛山	1,378	101	Baotou	包头	418
8	Haerbin	哈尔滨	737	55	Guangzhou	广州	959	102	Jilin	吉林	94
9	Changsha	长沙	3,323	56	Dandong	丹东	286	103	Changzhou	常州	241
10	Wuxi	无锡	975	57	Xuchang	许昌	699	104	Jiaxing	嘉兴	365
11	Guiyang	贵阳	1,382	58	Wuhan	武汉	3,491	105	Jinhua	金华	61
12	Zhoukou	周口	532	59	Xiangyang (HB)	襄阳	620	106	Beihai	北海	331
13	Jiujiang	九江	712	60	Tianjin	天津	2,970	107	Hai'an	海安	37
14	Shenyang	沈阳	2,145	61	Nanjing	南京	827	108	Taizhou	台州	139
15	Hangzhou	杭州	1,549	62	Xuzhou	徐州	492	109	Ma'anshan	马鞍山	51
16	Shangrao	上饶	1,206	63	Langfang	廊坊	995	110	Huanggang	黄冈	55
17	Hanzhong	汉中	562	64	Heze	菏泽	275	111	Hengyang	衡阳	36
18	Xiangyang (SX)	咸阳	496	65	Xiangxi	湘西*	65	112	Baoding	保定	56
19	Zhenjiang (5/1)	镇江	365	66	Nanning	南宁	508	113	Yongzhou	永州	47
20	Changde	常德	537	67	Liaozhou	柳州	441	114	Dongguan	东莞	283
21	Nanchang	南昌	2,182	68	Huizhou	惠州	842	115	Taicang	太仓	16
22	Weifang	潍坊	1,219	69	Guilin	桂林	490	116	Changshu	常熟	31
23	Handan	邯郸	287	70	Baoji	宝鸡	70	117	Pingxinag	萍乡	51
24	Kaifeng	开封	1,271	71	Xiamen	厦门	1,391	118	Panzhihua	攀枝花	52
25	Anging	安庆	689	72	Zhuzhou	株洲	451	119	Yancheng	盐城	107
26	Huangshi	黄石	558	73	Nantong	南通	1,147	120	Huzhou	湖州	64
27	Meishan	眉山	339	74	Guangyuan	广元	146	121	Luzhou	泸州	44
28	Nanchong	南充	785	75	Chongqing	重庆	1,575	122	Yuncheng	运城	19
29	Zhengzhou	郑州	2,436	76	Zhumadian	驻马店	317	123	Tianshui	天水	14
30	Dazhou	达州	770	77	Zhangjiakou	张家口	189	124	Jurong	句容	4
31	Lanzhou	兰州	876	78	Jining	济宁	423	125	Xinyu	新余	12
32	Kunming	昆明	1,953	79	Jiangmen	江门	226	126	Tongliao	通辽	15
33	Fushzou (FJ)	福州	1,006	80	Mianyang	绵阳	967	127	Lianyungang	连云港	20
34	Luoyang	洛阳	1,271	81	Zhaoxing	绍兴	489	128	Fuzhou (JX)	抚州	13
35	Chengdu	成都	1,478	82	Wuhu	芜湖	538	129	Yichun	宜春	25
36	Zhuhai	珠海	547	83	Zhangzhou	漳州	742	130	Chengde	承德	2
37	Dalian	大连	2,024	84	Shenzhen	深圳	548	131	Qidong	启东	2
38	Xi'an	西安	2,425	85	Zhanjiang	湛江	103	132	Tai'an	泰安**	105
39	Hefei	合肥	1,745	86	Jinzhong	晋中	41	133	Urumqi	乌鲁木齐**	142
40	Yueyang	岳阳	362	87	Hohhot	呼和浩特	635	134	Deyang	徳阳**	296
41	Wenzhou	温州	572	88	Jingdezhen	景徳镇	90	135	Liangshan	凉山**	285
42	Shijiazhuang	石家庄	1,580	89	Yichang	宜昌	456	136	Suining		156
43	Chifeng	赤峰	584	90	Qingyuan	清远	64	137	Quzhou	御州**	1
44	Changchun	长春	1,383	91	Zunyi	遵义	209	138	Yibin	宜宾**	162
45	Ganzhou	赣州	669	92	Ya'an	雅安	129	139	Chengmai	五共 澄迈**	4
46	Suzhou	苏州	1,656	93	Huai'an	淮安	235	140	Pingdingshan	平顶山**	40
47	Quanzhou	泉州	904	94		银川	555	Total	ı ııganıgənan	口火田	93,975
4/	Vuanznou		904	94	Yinchuan	「以川	333	1 Otal			73,713

^{*}湘西土家族苗族自治州

^{**}Estimated number of transactions

⁷³ Our Q2 collection data for new homes did not contain the number of transactions for Tai'an, Urumqi, Deyang, Liangshan, Suining, Quzhou, Yibin, Chengmai, Pingdingshan; estimates were used based on other collected data for these cities from Q3 and Q4 data.

74 Our Q3 collection data for new homes does not contain number of transactions for Pingdingshan; estimates were

used based on Pingdingshan data from Q4.

Connected Stores – New Home Sales (76 Days) (Jun 30, 2021 – Sep 13, 2021)

Ref	City		Number of Transactions	Ref	City		Number of Transactions	Ref	City	,	Number of Transactions
1	Ji'an	吉安	684	48	Tangshan	唐山	396	95	Kunshan	昆山	690
2	Zhognshan	中山	804	49	Datong	大同	82	96	Weihai	威海	149
3	Ningbo	宁波	875	50	Dali	大理	148	97	Xinxiang	新乡	141
4	Linyi	临沂	1,179	51	Zibo	淄博	595	98	Fuyang	阜阳	88
5	Taiyuan	太原	3,111	52	Jinan	济南	1,324	99	Neijiang	内江	137
6	Leshan	乐山	1,539	53	Yantai	烟台	649	100	Haikou	海口	49
7	Qingdao	青岛	2,007	54	Foshan	佛山	1,374	101	Baotou	包头	581
8	Haerbin	哈尔滨	716	55	Guangzhou	广州	1,277	102	Jilin	吉林	55
9	Changsha	长沙	2,723	56	Danzhou	丹东	257	103	Changzhou	常州	257
10	Wuxi	无锡	793	57	Xuchang	许昌	638	104	Jiaxing	嘉兴	286
11	Guiyang	贵阳	1,066	58	Wuhan	武汉	3,788	105	Jinhua	金华	77
12	Zhoukou	周口	489	59	Xiangyang (HB)	襄阳	661	106	Beihai	北海	368
13	Jiujiang	九江	621	60	Tianjin	天津	2,976	107	Hai'an	海安	30
14	Shenyang	沈阳	1,803	61	Nanjing	南京	899	108	Taizhou	台州	147
15	Hangzhou	杭州	1,533	62	Xuzhou	徐州	549	109	Ma'anshan	马鞍山	75
16	Shangrao	上饶	1,168	63	Langfang	廊坊	847	110	Huanggang	黄冈	67
17	Hanzhong	汉中	505	64	Heze	菏泽	352	111	Hengyang	衡阳	29
18	Xiangyang (SX)	咸阳	421	65	Xiangxi	湘西**	143	112	Baoding	保定	43
19	Zhenjiang	镇江	275	66	Nanning	南宁	529	113	Yongzhou	永州	37
20	Changde	常德	472	67	Liaozhou	柳州	521	114	Dongguan	东莞	282
21	Nanchang	南昌	1,972	68	Huizhou	惠州	769	115	Taicang	太仓	14
22	Weifang	潍坊	1,182	69	Guilin	桂林	492	116	Changshu	常熟	32
23	Handan	邯郸	271	70	Baoji	宝鸡	93	117	Pingxinag	萍乡	29
24	Kaifeng	开封	768	71	Xiamen	厦门	962	118	Panzhihua	攀枝花	117
25	Anqing	安庆	580	72	Zhuzhou	株洲	479	119	Yancheng	盐城	127
26	Huangshi	黄石	449	73	Nantong	南通	1,087	120	Huzhou	湖州	84
27	Meishan	眉山	333	74	Guangyuan	广元	136	121	Luzhou	泸州	78
28	Nanchong	南充	725	75	Chongqing	重庆	1,685	122	Yuncheng	运城	35
29	Zhengzhou	郑州	1,906	76	Zhumadian	驻马店	256	123	Tianshui	天水	30
30	Dazhou		820	77	Zhangjiakou	张家口	146	124	Jurong	句容	3
31	Lanzhou	兰州	508	78	Jining	济宁	253	125	Xinyu	新余	6
32	Kunming	昆明	1,614	79	Jiangmen	TIT	264	126	Tongliao	通辽	29
33	Fushzou (FJ)	福州	1,084	80	Mianyang	绵阳	875	127	Lianyungang	连云港	12
34	Luoyang	洛阳	926	81	Zhaoxing	绍兴	372	128	Fuzhou (JX)	抚州	7
35	Chengdu	成都	3,099	82	Wuhu	芜湖	539	129	Yichun	宜春	23
36	Zhuhai	珠海	569	83	Zhangzhou	漳州	565	130	Chengde	承德	10
37	Dalian	大连	2,099	84	Shenzhen	深圳	564	131	Qidong	后东	0
38	Xi'an	西安	2,867	85	Zhanjiang	湛江	137	132	Tai'an	泰安	79
39	Hefei	合肥	1,612	86	Jinzhong	晋中	25	133	Urumqi	乌鲁木齐	111
40	Yueyang	岳阳	414	87	Hohhot	呼和浩特	487	134	Deyang	徳阳	201
41	Wenzhou	温州	364	88	Jingdezhen	景德镇	82	135	Liangshan	凉山	204
42	Shijiazhuang	石家庄	1,594	89	Yichang	官昌	404	136	Suining	遂宁	102
43	Chifeng	赤峰	412	90	Qingyuan	清远	91	137	Quzhou	衢州	1
44	Changchun	长春	1,189	91	Zunyi	遵义	244	138	Yibin	宜宾	174
45	Ganzhou	赣州	629	92	Ya'an	雅安	110	139	Chengmai	澄迈	0
46	Suzhou	苏州	1,644	93	Huai'an	淮安	207	140	Pingdingshan	平顶山*	38
47	Quanzhou	泉州	527	94	Yinchuan	银川	594	Total	- mgamgontii	1 1%14	87,998
7/	*Estimated number		341		左前族自治州	W/H	374	. 01111			01,770

*Estimated number of transactions

**湘西土家族苗族自治州

BEKE claimed that the average price per new home was RMB 2.1 million from Lianjia stores and RMB 1.4 million for the connected stores in its $2020\ 20$ -F filing. ⁷⁵

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⁷⁵ BEKE 2020 20-F, p 91, p. 99

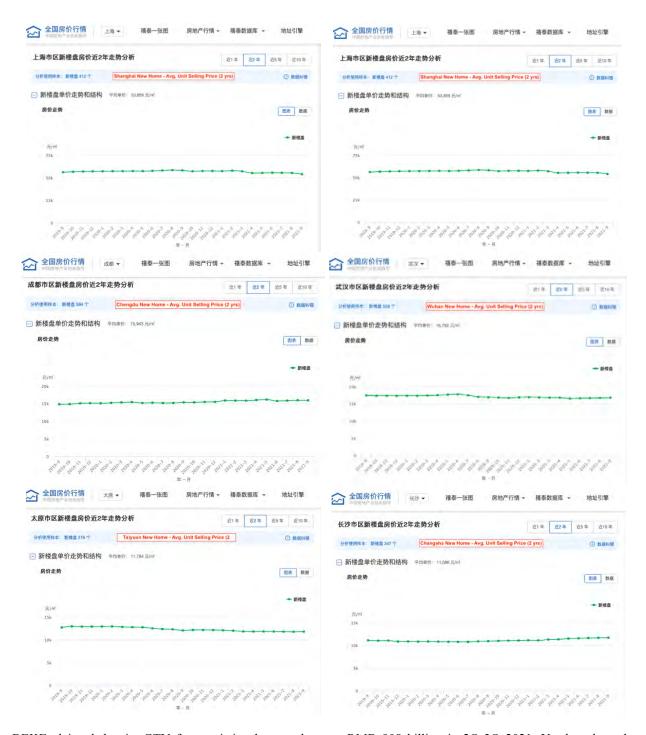
BEKE's Average Price per New Home

	RMB M	Calculation
GTV new homes	1,383,000	a
Lianjia Stores	276,700	b
Connected Stores	1,106,300	С
# of transactions - new home ('000)	924	d
Lianjia Stores	134	f=d-e
Connected Stores	790	e
Average price per transaction		
Lianjia Stores	2.1	g=b/f
Connected Stores	1.4	h=c/e
New home transaction services revenue	37,900	i
Commission rate	2.74%	j=i/a

Using BEKE's self-reported values for new home sales in 2020, we believe we are able to reasonably estimate such values for 2021 based on real estate housing data in China.

CRE Price, hosted by China Real Estate Association (CRE), is a platform that <u>provides</u> real estate transaction data in China, including average home prices by geographical location.

According to the CRE Price platform, on average over the past 2 years, new home prices have remained relatively unchanged. Therefore, we believe using the average value of new homes sold by BEKE in 2020 is reasonable to estimate the value of new homes sold by the Company in 2021. Below we show the two-year pricing trends for the Tier 1 Cities (Beijing and Shanghai), New Tier 1 Cities (Chengdu and Wuhan), and Tier 2 Cities (Taiyuan and Changsha). The CRE price data indicates that prices were largely unchanged in Q2-Q3 2021 compared with 2020.



BEKE claimed that its GTV from existing home sales was RMB 908 billion in 2Q-3Q 2021. Yet based on the transaction records collected from its own platform and the price disclosed by the Company, we calculated that BEKE's new home sales GTV was RMB 402 billion in 2Q-3Q 2021, suggesting the Company inflated its new home transaction GTV by at least 126%.

BEKE Inflated its New Home Sales GTV by 125% in 2Q-3Q 2021

	Avg. Price	76 days (Ma	y 25 - Aug 8)	2Q 2021 (91 days)	2Q 2021	2Q 2021
RMB M	per Home	# of new homes	Estimated GTV	Estimated GTV	Reported GTV	Inflated%
New homes - Lianjia	2.06	19,963	41,099	49,211	83,800	70%
New homes - Connected Stores	1.40	93,975	131,668	157,655	414,500	163%
Total		113,938	172,767	206,866	498,300	141%
	Avg. Price	76 days (Jun	30 - Sep 13)	3Q 2021 (92 days)	3Q 2021	3Q 2021
RMB M	per Home	# of new homes	Estimated GTV	Estimated GTV	Reported GTV	Inflated%
New homes - Lianjia	2.06	18,501	38,089	46,108	72,550	57%
New homes - Connected Stores	1.40	87,998	123,293	149,249	337,550	126%
Total		106,499	161,382	195,358	410,100	110%
	Avg. Price	152 0	days	2Q-3Q 2021	2Q-3Q 2021	2Q-3Q 2021
RMB M	per Home	# of new homes	Estimated GTV	Estimated GTV	Reported GTV	Inflated%
New homes - Lianjia	2.06	38,464	79,189	95,319	156,350	64%
New homes - Connected Stores	1.40	181,973	254,961	306,904	752,050	145%
Total		220,437	334,150	402,224	908,400	126%

b. Existing Homes

Our program collected 145,220 transactions of existing homes on BEKE's platform over a 76-day period in Q2 2021, including data from all 29 cities in which Company owned brokerage Lianjia stores. The transaction prices for houses are publicly available in most of the cities in China. In total, two thirds of the collected transactions also included transaction details with the price of the sale, making assumptions unnecessary to calculate GTV of these existing home sales. For the remaining transactions without price data, we benchmarked them against a reference city selected for which we did have transaction price data collected from the platform. To do so we used the average house listing prices provided by CRE Price and adjusted them according to the relative difference in the prices from CRE Price.

i. Existing Home Sales: Lianjia Network of Company Owned Brokerages

Over a 76-day period in Q2 2021, our collection captured 34,646 transactions of existing home transactions done by Lianjia stores in 27 cities out of their 29 cities over the prior 76-day period.

The two cities without detailed transaction data on the platform were Chengdu and Shanghai. To get the estimated number of transactions for Chengdu, we calculated the overall average number of transactions per store for all other Lianjia stores for which we collected data over the full 76 days (6.12 transactions/store) and applied that number to the number of Lianjia agents in Chengdu recorded in the data collection (952). This calculation provided an estimated total of 5,825 Chengdu transactions during the period.

For Shanghai we drew on a data set collected over a period of 20 full days from Monday, April 26th to Saturday, May 15th, wherein we found 3,000 transactions and then prorated this to 76 days to match the data set size. This calculation provided an estimated total of 10,754 transactions for 76 days.

After adding the number of existing home transactions in Chengdu and Shanghai, we calculate that all Lianjia stores on the platform sold 51,225 existing homes over the 76 days period.

⁷⁶ For the 142 cities we collected, BEKE's platform has price information in ~62% of the cities on its platform.

⁷⁷ CRE Price, hosted by China Real Estate Association (CRE), is a platform provides real estate transaction data in China, including housing prices, rents, and new housing prices.

GTV Estimate for Lianjia Existing Home Sales with Adjustments (76 Days) (May 25, 2021 – Aug 8, 2021)

Cit		Number of Stores on the Platform	Number of Transactions (Collected)	Number of Transactions (Estimated)	Number of Tranactions/ Store	Avg. Price per Transaction Collected (RMB '000)	Estimated/ Adjusted Avg. Price per Transaction* (RMB '000)	Estimated GTV 76 days (RMB '000)	Note
Dalian	大连	326	2,476	100	7.6	1,348	1 A.M. St. A. A. A.	3,337,412	
Shenyang	沈阳	149	868		5.8	1,134		984,541	
Jinan	济南	118	518	the description of the party	4.4	1,707		884,198	
Chengdu	成都	952		5,825	6.1		2,007	11,688,726	Note 1, 3
Zhengzhou	郑州	194	939		4.8	1,588		1,490,678	
Changsha	长沙	65	251	() () (i) (ii) (ii)	3.9	1,245		312,428	
Qingdao	青岛	159	1,007		6.3	1,970		1,983,313	
Foshan	佛山	60	153		2.6	1,618		247,478	
Nanjing	南京	269	1,220		4.5	2,836		3,459,517	
Yantai	烟台	111	560		5.0	1,082		605,801	
Guangzhou	广州	371	1,183		3.2	3,002		3,551,401	
Shijiazhuang	石家庄	65	261	16	4.0	1,476	1 0000000000000000000000000000000000000	385,274	
Tianjin	天津	310	2,282		7.4	1,881		4,291,445	
Hefei	合肥	138	719	.)	5.2		2,063	1,482,951	Note 3
Wuhan	武汉	275	1,338		4.9	1,992	1	2,665,034	The Later
Xi'an	西安	207	1,201	ike === T	5.8		1,896	2,277,193	Note 3
Hangzhou	杭州	204	1,110	00-	5.4	1,511	3,185	3,535,093	Note 3
Wuxi	无锡	37	174		4.7		2,486	432,557	Note 3
Beijing	北京	1,364	13,898		10.2		4,593	63,835,060	Note 3
Suzhou	苏州	145	557	No. 100 Const	3.8	2,967	0	1,652,748	100 100 100
Shanghai	上海	902		10,754	11.9	- 72	4,529	48,708,286	Note 2
Langfang	廊坊	40	536		13.4	1,457		781,163	
Xiamen	厦门	79	129	*-	1.6	3,079	*	397,210	
Chongqing	重庆	446	2,313		5.2	1,315		3,040,584	Note 3
Dongguan	东莞	56	85		1.5	2,624		223,020	
Shenzhen	深圳	391	480		1.2		4,926	2,364,495	Note 3
Zhongshan	中山	22	54		2.5	1,202		64,900	
Huizhou	惠州	38	128	ii	3.4	984		125,997	
Haikou	海口	23	206		9.0	1,626		335,052	
Sub-Total	11	7,516	34,646	16,579				165,143,555	
Additional adi	ustment to 7	6 day for timing	difference					9.66%	Note 4
Total Estimate								181,096,423	

Notes:

- 1. Chengdu's number of transactions was estimated based on the average number of transactions per store (6.12/store) for all other Lianjia stores for which transaction data was available and then multiplied by the number of Chengdu stores.
- 2. Shanghai's estimates are based on 2,830 transactions, 20 full days' transactions from 4/26 to 5/15 and prorated to 76 days. Shanghai's avg transactions/store is the 2nd highest, leading us to believe the estimate is highly company favorable.
- 3. When the average value of the transactions was not available for a specific city, a city with similar characteristics was used as a base, and an adjustment was applied using CRE price existing home sale data.
- 4. Additional adjustments made to number of transactions and GTV to accommodate the timing difference between the collection period $(5/25 \sim 8/8)$ and the 2Q21 period $(4/1 \sim 6/30)$.

When data on the average value of the transactions was not available for a specific city, a city with similar characteristics was used as a base, and an adjustment was applied in order to approximate its localized value using data on existing home sales from CRE price. The cities for which such estimates were made are shown in the table below. For the purposes of benchmarking cities, we used the 2021 City Tier rankings by Yicai. These are included to demonstrate that the reference cities are of an equal or higher tier, indicating a higher level of development. We believe that benchmarking cities average home prices against higher Tier cities creates a Company favorable, making our estimate of GTV more conservative.

We use the CRE's pricing for reference; however, for illustrative purposes only we provide the examples which present the September data from the CRE website. Note, in our calculation, Hangzhou's adjustment uses the CRE's 2Q average pricing data, not that from September.

⁷⁸ China Real Estate Association, (Qingdao Xitai Real Estate Data Co., Ltd.) 中国房地产业协会, 青岛禧泰房地产数据有限公司, www.creprice.cn

In the table below the left side provides reference price information from the CRE website, and the right side shows the data for the adjustment. We used the percent difference in the average price per house from the CRE site and applied it to the city transaction price. For example, Nanjing and Hangzhou are both provincial capitals, geographically close to each other, and had average pricing per house higher than most other cities.



Above: CRE data for Sept 2021 Hangzhou existing home ASP (example)



Above: CRE data for Sept 2021 Nanjing existing home ASP (example)

The table below shows the cities and data which were adjusted based on the average sales price collected from BEKE's platform for the reference city and the CRE price data's average listing price for 2Q21. The CRE listing price will be higher than the actual sales price.⁷⁹

⁷⁹ As this price ratio is used to adjust the transaction price data for the reference city collected from the BEKE platform, the effect is likely to be company favorable, but probably small.

2Q21 Adjusted Transaction Values from CRE Price

	2021 City Time	Existing Homes (CRE price)	Adjustment to Value per Transaction							
City	2021 City Tier Rank	2Q21 Avg House Listing Price	Reference City	Value per Reference City Transaction	Adjustment based on Avg House Listing Price (%)	Adjusted Transaction Value				
	Lianjia Stores									
Shanghai	1st Tier	7,573		4,529						
Beijing	1st Tier	7,680	Shanghai	4,529	1.41%	4,593				
Shenzhen	1st Tier	8,237	Shanghai	4,529	8.8%	4,926				
Suzhou	New 1st Tier	2,733		2,967						
Wuxi	Tier 2	2,290	Suzhou	2,967	-16.2%	2,486				
Wuhan	New 1st Tier	2,253		1,992						
Hefei	Tier 2	2,333	Wuhan	1,992	3.6%	2,063				
Xi'an	New 1st Tier	2,420	Wuhan	1,992	7.4%	2,139				
Chengdu	New 1st Tier	2,270	Wuhan	1,992	0.7%	2,007				
Nanjing	New 1st Tier	3,300		2,836						
Hangzhou	New 1st Tier	4,067	Nanjing	2,836	23.2%	3,494				

Units: '000 rmb

We collected Q2 data for the existing home sales from BEKE's platform over the 76-day period from May 25 to August 8, 2021. This 76-day period straddles 6 weeks at the end of 2Q21 and 6 weeks at the beginning of 3Q21. Because of new policy initiatives aimed at reining in the residential real estate market, sales volumes declined at the beginning of the third quarter. 80,81 We therefore applied an upward adjustment to the collected data to reflect what should have been stronger sales volumes in the first half of 2Q21. This adjustment to the sales volume is based on data published by the China Housing Real Estate Association ("China Housing") (中房研协测评研究中心) for the second-hand housing market for 13 major cities⁸² in April, ⁸³ May, ⁸⁴ June, ⁸⁵ July, ⁸⁶ and August. ⁸⁷ The China Housing reported 402,000 transactions during the 2Q21 period for these 13 cities.

To calculate the adjustment, we started with the monthly number of transactions reported by China Housing and convert that to a daily average for the months May through August. We then applied the daily average number of transactions to the number of days in each month over our 76-day period, this provides a volume of transactions for the 76 day period based on China Housing data. Then we take the sum and prorate the 76 days to the 91 days in 2021.

China Housing reported 402,000 transactions during the 2Q21. The estimated number of transactions for the 76-day period based off of China Housing data was 366,588. This calculation indicates an adjustment of +9.66% to our 76day estimates would be appropriate to accommodate the timing difference.

⁸⁰ http://www.xinhuanet.com/english/2021-01/06/c 139646693.htm, https://www.bloombergquint.com/politics/xirenews-call-housing-should-be-for-living-in-not-speculation

The China Real Estate Association data indicated that across cities covered, the average selling price for the existing

homes over our 76-day collection period was roughly flat compared to those in 2Q21, we did not make an adjustment to the average selling price to accommodate a difference between the first half of 2021 and the period of our data collection.

⁸² The 13 major cities are: Beijing, Shanghai, Guangzhou, Shenzhen, Tianjin, Qingdao, Nanjing, Wuhan, Zhengzhou, Chongging, Chengdu, Xiamen, and Hefei.

⁸³ m.fangchan.com/data/13/2021-05-20/6811497953191334448.html 84 m.fangchan.com/data/135/2021-06-21/6812575317111411031.html

⁸⁵ m.fangchan.com/data/133/2021-07-20/6823080881344024826.html

⁸⁶ www.fangchan.com/data/13/2021-08-18/6833595864750297431.html

⁸⁷ www.fangchan.com/data/135/2021-09-17/6844450560402592191.html

Adjustments to 2Q21 Estimated Number of Transactions for Timing Difference of Collection Period

	_	ı					1
Month	Number of Transactions Reported by Chine Housing	Number of Transactions Reported by China Housing in Q2	Est. Daily Number of Transactions	Days of Data Collection in Month in MW for 2Q Estimate	Est. Number of Transactions in China Housing data in 76 days	Conversion to 91 days for 2Q21	Adjustment: Upwards revision for 1st half 2Q21
April	143,000	143,000					
May	129,000	129,000	4,161	7	29,129		
June	130,000	130,000	4,333	30	130,000		
July	122,000		3,935	31	122,000		
August	97,000		3,129	8	25,032		
Total	621,000	402,000		76	306,161	366,588	402,000
Adustment (%)						19.7%	9.66%

Additional Adjustment for 1st half of 2Q21

1. CREA data for the number of transactions during the 91 day 2Q21 period:	402,000
2. Calculateion of CREA number of transactions if over 76 days from 5/25 to 8/8	306,161
3. Adjust number of transactions in data from 76 to 91 days	366,588
4. Adjustment ratio to 76 days of MW collected number of transactions to reflect a 4/1 and 6/30 collection	1.09660

After calculating the total from the number of transactions collected and estimated by the collected and estimated average prices per transaction, we apply the 9.66% timing adjustment to the estimate GTV for the 76-day period. This yields an 2Q 76-day Lianjia store GTV estimate of ~Rmb 181 billion. Last, we prorate the 76-day GTV to estimate a 91-day GTV for the 2nd quarter. Using this method, we approximate that BEKE's existing home GTV from Lianjia stores in Q2 2021 was only ~RMB 217 billion.

BEKE's 2Q21 reported existing home GTV sales for its Lianjia stores of RMB 309.5 billion, suggesting that the Lianjia existing home GTV figure was inflated by approximately \sim 43%.

In 3Q21, BEKE claimed that Lianjia stores' existing home sales GTV was RMB 185.3 billion. Our program collected another set of 76-day data, from June 30 to September 13, 2021. BEKE's During this 76-day period we estimate BEKE's Lianjia stores had approximately 40,248 transactions. After applying what we think are conservative estimate to complete the data set and prorating to the 76-day totals to the 3^{rd} quarter's 92 days, we estimated that in 3Q21 BEKE's Lianjia existing home sales GTV was only Rmb ~161 billion, or inflated by approximately ~15%.

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⁸⁸ Since the 76-day period of collected data for all cities except for Shanghai originated from within the 3Q21, no timing adjustments were necessary.

City		Numnber of Stores	Number of Transactions Collected	Number of Transactions (Estimated)	Number of Transactions/ Store	Avg. Price per Transaction Collected (RMB '000)	Estimated/ Adjusted Avg. Price per Transaction* (RMB '000)	Estimated GTV 76 days (RMB '000)	Notes
Beijing	北京	1,364	11,719		8.6		4,927	57,735,066	
Chengdu	成都	952		4,694	4.9		1,855	8,706,444	Note 1, 4
Shanghai	上海	902		7,619	8.4	4,587		34,946,365	Note 2
Chongqing	重庆	446	1,486		3.3	1,267		1,883,303	
Shenzhen	深圳	391	357		0.9		4,927	1,758,804	Note 4
Guangzhou	广州	371	1,247		3.4		3,002	3,743,494	Note 3
Dalian	大连	326	1,790		5.5	1,325		2,372,247	
Tianjin	天津	310	2,424		7.8	1,815		4,400,650	
Wuhan	武汉	275	905		3.3		1,992	1,802,760	Note 3
Nanjing	南京	269	809		3.0	2,564		2,074,358	
Xi'an	西安	207	735		3.6		1,855	1,363,146	Note 4
Hangzhou	杭州	204	781		3.8	- 0.1	3,061	2,390,282	Note 4
Zhengzhou	郑州	197	535		2.7	1,526	-	816,388	
Qingdao	青岛	159	801		5.0	1,938		1,552,623	
Shenyang	沈阳	149	710		4.8	1,140		809,089	
Suzhou	苏州	145	439		3.0	3,002		1,318,063	
Hefei	合肥	138	549		4.0		2,028	1,113,293	Note 4
Jinan	济南	118	424		3.6	1,780		754,511	
Yantai	烟台	111	500	-	4.5	1,033		516,448	
Xiamen	厦门	79	113		1.4	3,045		344,090	
Shijiazhuang	石家庄	65	234		3.6	1,389		325,031	
Changsha	长沙	65	213		3.3	1,190		253,420	
Foshan	佛山	60	148		2.5	1,713		253,469	
Dongguan	东莞	56	68		1.2	2,459		167,220	
Langfang	廊坊	40	517		12.9	1,469		759,454	-
Huizhou	惠州	38	84		2.2	1,012		85,040	
Wuxi	无锡	37	107		2.9		2,487	266,078	Note 4
Haikou	海口	23	189		8.2	1,681		317,626	
Zhongshan	中山	22	51		2.3	1,194		60,900	
Totals		7,519	27,935	12.313		37,129	26,132	132,889,662	

Notes:

- Chengdu's number of transactions was estimated based on the average number of transactions per store plus an additional 25% (4.93/store) for all other Lianjia stores for which transaction data was available and then multiplied by the number of stores
- Shanghai's estimated number of transactions is based on a 17.5% market share applied to the total number of existing home transactions reported in the quarter (52,768) by public sources and then prorated to 76 days.⁸⁹ Shanghai's avg number of transactions/store is the 3rd highest leading us to conclude that the adjustment is highly company favorable.
- 3. Guangzhou and Wuhan's average value per transaction is based on the 2Q (5/25-8/22) data set
- 4. When the average value of the transactions was not available for a specific city, a city with similar characteristics was used as a base, and an adjustment was applied using the existing homes sales data from CREprice.
- 5. The number of transactions and average value per transaction for other cities comes from the 76-day period, 6/30 9/13.

Using the same methods as in 2Q21, when data on the average value of the transactions was not available for a specific city, a city with similar characteristics was used as a base, and an adjustment was applied in order to approximate its localized value using data on existing home sales from CRE price.⁹⁰ The cities for which such estimates were made and their estimates are shown in the table below.

⁸⁹

https://zhuanlan.zhihu.com/p/428790729?utm_source=wechat_session&utm_medium=social&utm_oi=1013776284731772928

⁹⁰ www.creprice.cn

3Q21 Adjusted Transaction Values from CRE Price

		Existing Homes (CRE price)	Adjustment to Value per Transaction						
City	2021 City Tier Rank	3Q21 Avg House Listing Price	Reference City	Value per Reference City Transaction	Adjustment based on Avg House Listing Price (%)	Adjusted Transaction Value			
	Lianjia Stores								
Shanghai	1st Tier	7,203		4,587					
Beijing	1st Tier	7,737	Shanghai	4,587	7.4%	4,927			
Shenzhen	1st Tier	8,237	Shanghai	4,587	14.3%	5,245			
Suzhou	New 1st Tier	2,833		3,002					
Wuxi	Tier 2	2,347	Suzhou	3,002	-17.2%	2,487			
Wuhan	New 1st Tier	2,207		1,992					
Hefei	Tier 2	2,223	Wuhan	1,992	0.8%	2,007			
Xi'an	New 1st Tier	2,227	Wuhan	1,992	1.8%	2,028			
Chengdu	New 1st Tier	2,070	Wuhan	1,992	-6.9%	1,855			
Nanjing	New 1st Tier	3,443		2,564					
Hangzhou	New 1st Tier	4,110	Nanjing	2,564	19.4%	3,061			

After prorating our data to the number of days in the 3rd quarter, 91 we estimate that Lianjia's existing home sales GTV was approximately RMB \sim 161 billion in 3Q21, which suggests BEKE inflated the GTV by \sim 15%.

BEKE Inflated Lianjia's existing home sales GTV

	J	0	
RMB M	2Q 2021	3Q 2021	2Q-3Q 2021
Reported	309,500	185,300	494,800
MW estimate	216,839	160,984	377,823
Difference	(92,661)	(24,316)	(116,977)
Inflated%	43%	15%	31%

We note that our estimate is very sensitive to Shanghai's transaction numbers and average price per transaction. We believe Shanghai's estimates are conservative. For example, the Lianjia Shanghai Research Institute reported that the average existing home selling price in Shanghai in August and September was just Rmb 3.18 and 3.13 million/house. 92,93 Were we to assume Shanghai's average transaction price was 3.85m (the mid-point of these two ranges), then our total 92-day GTV estimate for 3Q21 would be just Rmb 142.5m, yielding a GTV inflation estimate of 30%, or double our current estimate.

ii. Existing Home Sales: Connected Brokerages

BEKE's connected stores are supposedly independently owned and operated stores that sign up to the ACN network and collaborate on sales or part of its Deyou brand franchise network. The Company states its connected store network exists in "more than 100 economically vibrant cities in China." BEKE claims its connected stores' existing home sale GTV was 342.5 billion in 2Q21. 95 We performed the same exercise as was used for the Lianjia store existing home sales to calculate the actual existing home sales GTV from connected stores.

⁹¹ 92 days

⁹² http://house.china.com.cn/2107052.htm

⁹³ https://wap.stcn.com/zqsbapp/yw/202110/t20211020 3776443.html

⁹⁴ BEKE 2020 20-F, p.54

⁹⁵ BEKE 2Q21 6-K, Financial Results

Our program's "Find Agent" search identified stores with agents listed on the platform in 140 cities. This excludes Beijing or Shanghai where no non-self-operated Lianjia brand branch stores are operating. 96

We estimate that the connected stores completed only approximately 113,463 existing home transactions between May 25 to August 8, 2021. In Q2 we directly collected 110,574 transactions and estimate that there were approximately 2,889 more across serval cities. These cities were Chengdu, Datong, Tai'an, Urumqi, Deyang, Liangshan, Suining, Quzhou, Yibin, Chengmai, and Pingdingshan.

For Chengdu and Datong two cities, we estimate the number of transactions per store at all other connected stores and multiplied that by the number agents displayed for Chengdu and Datong in the data. To be company favorable, we further assume that both cities are performing 25% above average, and estimate 1,778 transactions in Chengdu and 51 in Datong.

2Q21 Est. Number of Existing Home Transactions for Chengdu & Datong Connected Stores

All connected stores transactions (x-Chengdu, Datong)	110,574	a
Total connected stores on the platform (x-Chengdu, Datong)	35,291	b
Avg # transactions/store for all connected stores (x-Chengdu, Datong)	3.13	c=a/b
Adjustment to assume all Chengdu & Datong stores are performing above avergage	25%	d
Est. number of transactions per store for Chengdu and Datong	3.92	e=c*d
Chengdu - number of connected stores on the platform	454	f
Datong - number of connected stores on the platform	13	g
Chengdu - estimated number of connected store transactions in 2Q21	1,778	h=f*e
Datong - estimated number of connected store transactions in 2Q21	51	i=g*e

Additionally, in Q2 we identified another 9 minor cities from subsequent data collections and used their Q3 and Q4 data to estimate their number of transactions in Q2. First, we establish the individual proportion of the 9 cities' stores to the total number of stores in the Q4 data (Sept 1- Nov 15), then apply the ratio of the 9 cities' individual number of stores in (x-missing cities) to the total number of stores in the 2Q data (5/25-8/8) collection.

2Q21 Estimated Number of 9 Cities' Stores & Transactions
As Calculated from 11/30 Data

115 Culculated II om 11/50 Data							
City	Est. Number of 9 Cities' Connected Stores as at end of 2Q21	2Q21 Est. Number of 9 Cities' Connected Store Transactions					
Tai'an	37	94					
Urumqi	36	161					
Deyang	32	119					
Liangshan	39	145					
Suining	51	270					
Quzhou	9	46					
Yibin	26	97					
Chengmai	6	44					
Pingdingshan	13	84					
		44 4 0 27 2024					

^{*}Estimated number of stores based on store count collection from Nov. 2021

After adding these connected stores' existing homes transaction volumes into our data set, we calculated that the connected stores on BEKE's platform completed 113,463 existing home transactions over the 76-day period.

For Shenzhen, Hangzhou, Chengdu, Xian, Hefei, Wuxi, Chengdu, Datong, plus the 9 cities in the table above, we estimate their average transaction value by using the collected data for a similar city, benchmarking the price differential in the reference city and the estimates city using CRE prices average existing home selling price, and

⁹⁶ BEKE 2020 20-F, p.60 "In Beijing and Shanghai, where Lianjia has established significant market penetration, Lianjia is currently the only real estate brokerage brand with presence on Beike platform to guarantee high-quality customer services and strengthen market-leading positions in these two markets."

adjusting accordingly. For small cities where the data contained transaction numbers, but did not include sales price details, we use the CRE average 2Q 2021 averages sales prices for new homes sold in these cities.

2Q21 Adjusted Transaction Values from CRE Price

		ajustea 11ai					
	2021 (3'4- Ti'-	Existing Homes (CRE price)	Adjustment to Value per Transaction				
City	2021 City Tier Rank	2Q21 Avg House Listing Price	Reference City	Value per Reference City Transaction	Adjustment based on Avg House Listing Price (%)	Adjusted Transaction Value	
	•		Connected Stores				
Shanghai	1st Tier	7,573		4,529			
Shenzhen	1st Tier	8,237	Shanghai	4,529	8.8%	4,926	
Suzhou	New 1st Tier	2,733	-	2,725			
Wuxi	Tier 2	2,290	Suzhou	2,725	-16.2%	2,283	
Nanjing	New 1st Tier	3,300		2,584			
Hangzhou	New 1st Tier	4,067	Nanjing	2,584	23.2%	3,185	
Wuhan	New 1st Tier	2,253		1,782			
Hefei	Tier 2	2,333	Wuhan	1,782	3.6%	1,845	
Xi'an	New 1st Tier	2,420	Wuhan	1,782	7.4%	1,914	
Chengdu	New 1st Tier	2,270	Wuhan	1,782	0.7%	1,795	
Leshan	Tier 3	630		478			
Deyang	Tier 3	690	Leshan	478	9.5%	524	
Suining	Tier 4	677	Leshan	478	7.4%	514	
Yibin	Tier 4	657	Leshan	478	4.2%	499	
Jinan	Tier 2	1,907		1,595			
Tai'an	Tier 4	1,110	Jinan	1,595	-41.8%	929	
Wenzhou	Tier 2	2,723		1,951			
Quzhou	Tier 4	2,023	Wenzhou	1,951	-25.7%	1,449	
Haikou	3rd Tier	1,930		1,901			
Chengmai	Tier 4 or below	1,007	Haikou	1,901	-47.8%	992	
Zhanghjiakou	Tier 4	927		728			
Datong	Tier 4	767	Zhanghjiakou	728	-17.3%	602	
Zhumadian	Tier 3	697	- •	678			
Pingdingshan	Tier 4	667	Zhumadian	678	-4.3%	649	

We then use these adjusted transaction values as the estimated/adjusted average price per transaction for the connected stores in the 14 cities and apply them in the 2Q21 GTV estimate for connected stores in the table below.

2Q21 - GTV Estimate for Connected Stores Existing Home Sales (76 Days) with Adjustments

			- , 250		Commee	teu stores Em		5 Home	~ (. o 2 a j s	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-ujustiii		
Ref.	City		Number of Transactions	Avg. Price per Transaction Collected (RMB '000)	Estimated/ Adjusted Avg. Price per Transaction* (RMB '000)	Esitmated GTV 76 days (RMB '000)	Ref.	Cit	y	Number of Stores	Number of Transactions	Avg. Price per Transaction Collected (RMB '000)	Estimated/ Adjusted Avg. Price per Transaction* (RMB '000)	Esitmated GTV 76 days (RMB '000)
1	Ji'an	吉安	319		1,010	322,190	72	Zhuzhou	株洲	115	494	679	(ICMD 000)	335,473
	Zhongshan	中山	1,368	1,177	1,010	1,610,194		Nantong	南通	818	1,246	2,584		3,220,114
		宁波									1,246	2,364	850	
	Ningbo		1,920	2,019		3,876,218	74	Guangyuan	广元	63			850	117,300
4	Linyi	临沂	439	1,231		540,353	75	Chongqing	重庆	617	2,773	1,192		3,305,250
5	Taiyuan	太原	1,069	1,107		1,183,710	76	Zhumadian	驻马店	67	180	678		122,061
6	Leshan	乐山	312	478		149,228	77	Zhangjiakou	张家口	75	190	728		138,295
7	Qingdao	青岛	2,362	1,746		4,124,120	78	Jining	济宁	181	662	1,098		726,808
8	Harbin	哈尔滨	1,529	714		1,092,225	79	Jiangmen	江门	79	121	757		91,567
9	Changsha	长沙	2,392	1,108		2,650,158	80	Mianyang	绵阳	288	795	863		686,396
10	Wuxi	无锡	1,949		2,486	4,845,139	81	Zhaoxing	绍兴	375	804	1,038		834,456
11	Guiyang	贵阳	1,519	874	- 1	1,326,976	82	Wuhu	芜湖	457	1,795	,	1,500	2,692,500
	Zhoukou	周口	393		700	275,100	83	Zhangzhou	漳州	346	1,028	1,037	1,000	1,065,615
	Jiujiang	九江	541	880	700	476,264	84	Shenzhen	深圳	653	575	1,007	4,926	2,832,468
14		沈阳	2,846	974		2,771,828	85		湛江		110	971	4,920	106,760
	Shenyang			9/4	2.404			Zhanjiang		65		9/1		
15	Hangzhou	杭州	3,865		3,185	12,309,129	86	Jinzhong	晋中	33	51		830	42,330
16	Shangrao	上饶	483	899		434,075	87	Hohhot	呼和浩特	387	1,340	1,031		1,381,565
	Hanzhong	汉中	447		740	330,780	88	Jingdezhen	景德镇	39	77		790	60,830
18	Xiangyang (SX)	咸阳	685		1,070	732,950	89	Yichang	宜昌	114	294		970	285,180
19	Zhenjiang	镇江	798	930		741,947	90	Qingyuan	清远	100	184	820		150,790
20	Changde	常德	260	695		180,753	91	Zunyi	遊义	71	163		680	110,840
	Nanchang	南昌	1,273	1,330		1,692,548	92	Ya'an	雅安	23	51		670	34,170
22	Weifang	維坊	639	774		494,841	93	Huai'an	淮安	176	550	1,092	5,0	600,681
		邯郸		//4	1,090		93		银川			769		
23	Handan		95		1,090	103,550		Yinchuan		426	2,076			1,595,427
24	Kaifeng	开封	369	732		270,139	95	Kunshan	昆山	432	2,460	1,901		4,675,250
25	Anqing	安庆	564		840	473,760	96	Weihai	威海	107	229	932		213,515
26	Huangshi	黄石	217	614		133,220	97	Xinxiang	新乡	97	295	764		225,396
27	Meishan	眉山	128		800	102,400	98	Fuyang	阜阳	71	58		1,050	60,900
28	Nanchong	南充	315	592		186,545	99	Neijiang	内江	46	49		610	29,890
29	Zhengzhou	郑州	2,533	1,366		3,459,732	100	Haikou	海口	158	389	1,901		739,536
30	Dazhou	达州	140	595		83,230	101	Baotou	包头	320	1,037	655		679,214
	Lanzhou	兰州	781	1,080		843,110	102	Jilin	吉林	51	437	635		277,397
	Kunming	昆明	1,263	1,253		1,582,300	103	Changzhou	常州	229	591	1,676		990,376
33	Fushzou (FJ)	福州	730	2,175		1,587,735	104	Jiaxing	嘉兴	428	1,270	1,537		1,951,585
34	Luoyang	洛阳	819	997		816,603	105	Jinhua	金华	84	197	1,997		393,487
35	Chengdu	成都**	1,778		2,007	3,567,765	106	Beihai	北海	209	577	564		325,343
36	Zhuhai	珠海	945	2,236		2,113,182	107	Hai'an	海安	18	37	1,327		49,090
	Dalian	大连	3,184	1,147		3,652,663	108	Taizhou	台州	109	301	1,900		571,993
	Xi'an	西安	4,338	1,1.17	2,139	9,279,532	109	Ma'anshan	马鞍山	224	1,049	1,500	1,100	1,153,900
39	Hefei	合肥	3,458		2,063	7,132,190	110		黄冈	37	89		740	65,860
40		岳阳	233	637	2,003		111	Huanggang	衡阳	50	56		680	38,080
	Yueyang					148,437		Hengyang					680	
	Wenzhou	温州	847	1,951		1,652,153	112	Baoding	保定	48	100	925		92,460
42	Shijiazhuang	石家庄	1,776	1,261		2,240,010	113	Yongzhou	永州	34	39		630	24,570
43	Chifeng	赤峰	377	713		268,965	114	Dongguan	东莞	484	464	2,113		980,480
44	Changchun	长春	1,791	897		1,606,000	115	Taicang	太仓	12	47	2,093		98,363
45	Ganzhou	赣州	440		1,390	611,600	116	Changshu	常熟	31	87	1,654		143,905
46	Suzhou	苏州	2,961	2,725	,,,,,	8,068,839	117	Pingxinag	萍乡	29	20	,	640	12,800
47	Ouanzhou	泉州	924	2,.23	2,570	2,374,680	118	Panzhihua	攀枝花	33	47		620	29,140
48		唐山	712	927	2,570	660,236	119	Yancheng	盐城	180	306	1,322	020	404,399
	Tangshan			927	602					153	583			
	Datong**	大同	51			30,660	120	Huzhou	湖州			1,272	880	741,307
	Dali	大理	58		2,020	117,160	121	Luzhou	沙州	35	40		720	28,800
	Zibo	淄博	501	776		388,713	122	Yuncheng	运城	32	22		760	16,720
	Jinan	济南	1,652	1,595		2,635,675	123	Tianshui	天水	15	18		920	16,560
53	Yantai	烟台	671	1,004		673,434	124	Jurong	句容	2	1	2,870		2,870
	Foshan	佛山	1,264	1,569		1,983,813	125	Xinyu	新余	18	18		780	14,040
55	Guangzhou	广州	1,975	2,697		5,326,830	126	Tongliao	通辽	29	125		680	85,000
56	Dandong	丹东	347	579		200,913	127	Lianyungang	连云港	82	73		1,570	114,610
57	Xuchang	许昌	309	630		194,690	128	Fuzhou (JX)	抚州	25	27		880	23,760
58	Wuhan			1,782						59	83		1,080	
		武汉	4,212			7,505,773	129	Yichun	宣春	59 15				89,640
		whit Dira							承徳		34		1,010	34,340
59	Xiangyang (HB)	襄阳	564	894		504,214	130	Chengde						11,820
59 60	Xiangyang (HB) Tianjin	天津	5,548	1,592		8,830,048	131	Qidong	启东	2	5	2,298	2,364	
59 60 61	Xiangyang (HB) Tianjin Nanjing	天津 南京	5,548 2,213	1,592 2,584		8,830,048 5,719,191	131 132	Qidong Tai'an	启东 泰安**	2 37	5 94		2,364 929	87,685
59 60 61	Xiangyang (HB) Tianjin	天津 南京 徐州	5,548 2,213 926	1,592 2,584 1,253		8,830,048 5,719,191 1,160,392	131	Qidong	启东 泰安** 乌鲁木齐**	2 37 36	5 94 161	2,298 808	929	87,685 130,478
59 60 61 62	Xiangyang (HB) Tianjin Nanjing Xuzhou	天津 南京	5,548 2,213	1,592 2,584		8,830,048 5,719,191	131 132	Qidong Tai'an Urumqi	启东 泰安**	2 37	5 94			87,685
60 61 62 63	Xiangyang (HB) Tianjin Nanjing	天津 南京 徐州 廊坊	5,548 2,213 926 2,480	1,592 2,584 1,253 1,320		8,830,048 5,719,191 1,160,392 3,274,210	131 132 133	Qidong Tai'an Urumqi Deyang	启东 泰安** 乌鲁木齐**	2 37 36 32	5 94 161	808	929	87,685 130,478
59 60 61 62 63 64	Xiangyang (HB) Tianjin Nanjing Xuzhou Langfang Heze	天津 南京 徐州 廊坊 菏泽	5,548 2,213 926 2,480 126	1,592 2,584 1,253	590	8,830,048 5,719,191 1,160,392 3,274,210 93,808	131 132 133 134 135	Qidong Tai'an Urumqi Deyang Liangshan	启东 泰安** 乌鲁木齐** 德阳** 凉山**	2 37 36 32 39	5 94 161 119 145		929 524	87,685 130,478 62,216 123,173
59 60 61 62 63 64 65	Xiangyang (HB) Tianjin Nanjing Xuzhou Langfang Heze Xiangxi	天津 南京 徐州 廊坊 菏泽 湘西***	5,548 2,213 926 2,480 126	1,592 2,584 1,253 1,320 745	590	8,830,048 5,719,191 1,160,392 3,274,210 93,808 10,620	131 132 133 134 135 136	Qidong Tai'an Urumqi Deyang Liangshan Suining	启东 泰安** 乌鲁木齐** 德阳** 凉山** 遂宁**	2 37 36 32 39 51	5 94 161 119 145 270	808	929 524 514	87,685 130,478 62,216 123,173 138,455
59 60 61 62 63 64 65 66	Xiangyang (HB) Tianjin Nanjing Xuzhou Langfang Heze Xiangxi Nanning	天津 南京 徐州 廊坊 菏泽 湘西***	5,548 2,213 926 2,480 126 18	1,592 2,584 1,253 1,320 745	590	8,830,048 5,719,191 1,160,392 3,274,210 93,808 10,620 531,697	131 132 133 134 135 136 137	Qidong Tai'an Urumqi Deyang Liangshan Suining Quzhou	启东 泰安** 乌鲁木齐** 德阳** 凉山** 遂宁** 衢州**	2 37 36 32 39 51	5 94 161 119 145 270 46	808	929 524 514 1,449	87,685 130,478 62,216 123,173 138,455 66,200
59 60 61 62 63 64 65 66	Xiangyang (HB) Tianjin Nanjing Xuzhou Langfang Heze Xiangxi Nanning Liaozhou	天津 南京 徐州 廊坊 菏泽 湘西*** 南宁	5,548 2,213 926 2,480 126 18 414 311	1,592 2,584 1,253 1,320 745 1,284 853	590	8,830,048 5,719,191 1,160,392 3,274,210 93,808 10,620 531,697 265,233	131 132 133 134 135 136 137	Qidong Tai'an Urumqi Deyang Liangshan Suining Quzhou Yibin	启东 泰安** 乌鲁木齐** 德阳** 凉山** 遂宁** 衢州** 宜宾**	2 37 36 32 39 51 9	5 94 161 119 145 270 46	808	929 524 514 1,449 499	87,685 130,478 62,216 123,173 138,455 66,200 48,583
59 60 61 62 63 64 65 66 67 68	Xiangyang (HB) Tianjin Nanjing Xuzhou Langfing Heze Xiangxi Nanning Liaozbou Huizhou	天津 南京 徐州 廊坊 菏泽 湘西*** 南宁 柳州 惠州	5,548 2,213 926 2,480 126 18 414 311 889	1,592 2,584 1,253 1,320 745 1,284 853 1,038	590	8,830,048 5,719,191 1,160,392 3,274,210 93,808 10,620 531,697 265,233 922,870	131 132 133 134 135 136 137 138	Qidong Tai'an Urumqi Deyang Liangshan Suning Quzhou Yibin Chengmai	启东 泰安** 乌鲁木齐** 德阳** 凉山** 遂宁** 衢州** 宣资**	2 37 36 32 39 51 9 26 6	5 94 161 119 145 270 46 97	808	929 524 514 1,449 499 992	87,685 130,478 62,216 123,173 138,455 66,200 48,583 43,787
59 60 61 62 63 64 65 66 67 68	Xiangyang (HB) Tianjin Nanjing Xuzhou Langfang Heze Xiangxi Nanning Liaozhou Huizhou Guilin	天津 南分 柳坊 南泽 湘西*** 南宁 柳州 惠州 桂林	5,548 2,213 926 2,480 126 18 414 311 889 275	1,592 2,584 1,253 1,320 745 1,284 853		8,830,048 5,719,191 1,160,392 3,274,210 93,808 110,620 531,697 265,233 922,870 156,904	131 132 133 134 135 136 137	Qidong Tai'an Urumqi Deyang Liangshan Suning Quzbou Yibin Chengmai Pingdingshan	启东 泰安** 乌鲁木齐** 德阳** 凉山** 遂宁** 衢州** 宜宾**	2 37 36 32 39 51 9 26 6	5 94 161 119 145 270 46 97 44	808	929 524 514 1,449 499	87,685 130,478 62,216 123,173 138,455 66,200 48,583 43,787 54,345
59 60 61 62 63 64 65 66 67 68	Xiangyang (HB) Tianjin Nanjing Xuzhou Langfing Heze Xiangxi Nanning Liaozbou Huizhou	天津 南京 徐州 廊坊 菏泽 湘西*** 南宁 柳州 惠州	5,548 2,213 926 2,480 126 18 414 311 889	1,592 2,584 1,253 1,320 745 1,284 853 1,038	590	8,830,048 5,719,191 1,160,392 3,274,210 93,808 10,620 531,697 265,233 922,870	131 132 133 134 135 136 137 138	Qidong Tai'an Urumqi Deyang Liangshan Suning Quzhou Yibin Chengmai	启东 泰安** 乌鲁木齐** 德阳** 凉山** 遂宁** 衢州** 宣资**	2 37 36 32 39 51 9 26 6	5 94 161 119 145 270 46 97	808	929 524 514 1,449 499 992	87,685 130,478 62,216 123,173 138,455 66,200 48,583 43,787
59 60 61 62 63 64 65 66 67 68 69 70	Xiangyang (HB) Tianjin Nanjing Xuzhou Langfang Heze Xiangxi Nanning Liaozhou Huizhou Guilin	天津 南分 柳坊 南泽 湘西*** 南宁 柳州 惠州 桂林	5,548 2,213 926 2,480 126 18 414 311 889 275	1,592 2,584 1,253 1,320 745 1,284 853 1,038		8,830,048 5,719,191 1,160,392 3,274,210 93,808 110,620 531,697 265,233 922,870 156,904	131 132 133 134 135 136 137 138	Qidong Tai'an Urumqi Deyang Liangshan Suning Quzbou Yibin Chengmai Pingdingshan	启东 泰安** 乌鲁木齐** 穆阳** 凉山** 遂宁** 復宜** 平顶山**	2 37 36 32 39 51 9 26 6	5 94 161 119 145 270 46 97 44	808	929 524 514 1,449 499 992	87,685 130,478 62,216 123,173 138,455 66,200 48,583 43,787 54,345

Last, we again apply the 9.66% additional adjustment for the timing difference between 2Q21 period and the 5/25 to 8/8 data collection period which increases the GTV estimate from ~177 billion to ~194. Prorating this to 91 days generates a 2Q21 connected store existing home sale GTV estimate of RMB ~233 billion, implying the connected stores' existing home sales GTV was inflated by ~47.2%.

In 3Q21, the Company claimed that its connected stores' existing home sales GTV was RMB 192.9 billion. 97 We conducted our estimation exercise and approximate BEKE's GTV in 3Q2021. Our program collected 92,004 existing home sales transactions from connected stores from June 30, 2021, to September 13, 2021. We estimate that the connected stores' existing home sales GTV was ~RMB 165 billion, suggesting 17% GTV inflation.

⁹⁷ BEKE 3Q21 6-K, Financial Results

We use the same basic methodology to compose this 3Q21 connected store existing home estimate, but because more of the cities have directly collected data for the number of transactions, fewer estimates were needed.

For Chengdu, we estimated the number of transactions in the same way as was conducted for 2Q21's connected store existing home estimate, including the +25% adjustment to make the estimate conservative and company favorable.

3Q21 Chengdu Connected Stores Est. Number of Existing Home Transactions

92,004	a
37,499	b
996	c
36,503	e=b-c-d
2.52	e=a/e
25%	f
3.15	g
3,138	h=g*c
	37,499 996 36,503 2.52 25% 3.15

The average value per transaction for cities for which we were not able to directly collect this data, the same method was applied but Q3 data was used. In this data set, we obtained no pricing data for Wuhan and Guangzhou. As such we substituted these two cities' Q2 directly collected transaction pricing.

3Q21 Adjusted Transaction Values from CRE Price

		•						
		Existing Homes (CRE price)	s Adjustment to Value per Transaction					
City	2021 City Tier Rank	3Q21 Avg House Listing Price	Reference City	Value per Reference City Transaction	Adjustment based on Avg House Listing Price (%)	Adjusted Transaction Value		
			Connected S	tores				
Shanghai	1st Tier	7,203		4,587				
Shenzhen	1st Tier	8,237	Shanghai	4,587	14.3%	5,245		
Suzhou	New 1st Tier	2,833		2,797				
Wuxi	Tier 2	2,347	Suzhou	2,797	-17.2%	2,316		
Nanjing	New 1st Tier	3,443		2,467				
Hangzhou	New 1st Tier	4,163	Nanjing	2,467	20.9%	2,983		
Wuhan	New 1st Tier	2,207		1,782				
Hefei	Tier 2	2,223	Wuhan	1,782	0.8%	1,795		
Xi'an	New 1st Tier	2,227	Wuhan	1,782	0.9%	1,798		
Chengdu	New 1st Tier	2,070	Wuhan	1,782	-6.2%	1,672		
Leshan	Tier 3	640		499				
Deyang	Tier 3	673	Leshan	499	5.2%	525		
Suining	Tier 4	680	Leshan	499	6.3%	530		
Yibin	Tier 4	687	Leshan	499	7.3%	536		
Jinan	Tier 2	1,900		1,584				
Tai'an	Tier 4	1,220	Jinan	1,584	-35.8%	1,017		
Wenzhou	Tier 2	2,700		1,261				
Quzhou	Tier 4	1,943	Wenzhou	1,261	-28.0%	908		
Haikou	3rd Tier	2,070		1,929				
Chengmai	Tier 4 or below	1,023	Haikou	1,929	-50.6%	954		
Zhanghjiakou	Tier 4	907		687				
Datong	Tier 4	780	Zhanghjiakou	687	-14.0%	591		
Zhumadian	Tier 3	687		653				
Pingdingshan	Tier 4	667	Zhumadian	653	-2.9%	634		

Notes

Wuhan's Avg Value per Reference City Transaction originates from the 2Q (5/25-8/22) data set

Units: '000 rmb

3Q21 - GTV Estimate for Connected Stores Existing Home Sales (76 Days: 6/30-9/12) with Adjustments

Number of Number of Collection Number of N	th Aujustinents
Prince P	Avergage Transaction Value Avergage Home GTV 76 days (RMB '000)
2 Neglete 191	(RMB '000)
3 Segle 178	
4 Inst. 187 296 348 1.177 606,570 34 Casegoun 772 63 111 11 8 6 6 6 6 6 6 6 6 6	281,522
S Taluman Coll	
6 Celebar	850 96,050
Formula	
Second S	
9 Changeba 1509 722 2,001 1,078 2,1575,001 79 1,000 0.66	
10 Note 128	
11 Congrage 相談	
13 Jinging 10 10 329 5,768 1997/27 82 Works Value Value 148 1,256 1,87 14 Shewarg 4,57 880 2,245 882 2,202.06 84 Shewarg 4,57 70 9,57 15 Hangshow 1,51 210 210 20 20 20 20 20	
13 Jaigang 九正 91 472 882 406,810 83 Jasuaghou 871 348 743 1,959 3,24 151 151 151 152 15	1,500 1,884,000
14 Servange 15 850 2.345 862 2.020.00. 34 Servangen 85 806 477 875 53.5 15 Hangshow 1,12 210 398 886 3 344,086 85 Jardeng 817 6 6 77 89 3.1 16 Shangson 1,12 210 398 886 3 344,086 85 Jardeng 817 33 39 8 8 1.0 17 Handson 1,12 210 398 886 3 344,086 85 Jardeng 817 33 39 8 8 1.0 18 Nangang (SS) 67 210 424 170 455,600 88 Jardeng 817 33 39 6 7 7 7 7 7 7 7 7 7	
15 Handberg 1元日	5,245 2,396,972
16 Sanggang 日後 210 388 886 344,996 36 Jahrang 百日 33 39 38 32 31 34 34 34 34 34 34 34	
17 Handware 27 18 413 740 396,500 87 Hobbet 196,000 39 60 77 197	830 48,970
19	3 1,227,690
20 Nanching 京任 90 212 662 140,325 90 Onegyann 計画 179 811 1 1 1 1 1 1 1 1	790 54,510
22 Wedney 國際 國際 667 1,159 1,304 1,511.548 91 Zamy 國文 71 156 66	970 259,960
22 Manham 閉形 60 107 11,000 11,000 11,000 29, Valum 附皮 21 51 6.	
22 Mandem 所所 60 107 1,090 116,650 9.1 Huarfan 東皮 176 375 1,125 24 Naiferg 元子 162 306 671 202,053 9.4 Vinhum 到月 427 1,764 746 25 Anging 元子 131 510 840 42,8400 9.5 Kumban 到月 427 1,764 746 27 Neeban 到月 69 105 800 84,000 9.7 Kumban 到月 69 200 9.3 28 Nanchong 南子 199 222 555 161,000 9.7 Kumban 到月 171 8.7 7.0 7.7 7.8 29 Zhenghou 南州 107 123 615 7.5,600 10.0 1	680 106,080
228 Karfeng 所計 162 306 671 205.87 94 Yecham 6 間目 427 1.784 746 125 Anging 安庆 131 510 840 422,400 95 Kurshan 6 間目 427 1.784 746 125 Anging 安庆 131 510 840 840 97 289 114220 96 Webai 蛟克 198 220 934 114220 96 Webai 蛟克 199 292 555 162,06 98 Fiyang 52 71 87 1 87 1 102 28 Nancheng 6 元 199 292 555 162,06 98 Fiyang 52 71 87 1 87 1 102 28 Nancheng 6 元 199 292 2 Nenghroo 世州 899 14,03 1,346 11,228,111 99 Neigang 52 1 199 400 1,529 1 199 20 2 Nenghroo 世州 899 14,03 1,346 1 1,928,111 99 Neigang 52 1 199 400 1,529 1 199 2 1 1,024 1 199 1 1,024 1 199 1 1,024 1 199 1 1,024 1 199 1 1,024 1 199 1 1,024 1 199 1 1,024	670 34,170
25 Angang 安氏 131 510 540 428,400 95 Kumban 長山 432 1.676 1.836 27 Neishan 田山 69 105 8 800 8.40,00 97 Xinxang 前音 97 2.99 788 28 Nanchong 前元 159 2.92 5.55 10.10,106 98 99 1.02,00 97 Xinxang 前音 97 2.99 788 29 Dhenghou 55H 8.89 1.433 1.346 1.92,111 99 Neigang 元正 46 48 40 61 30 Dazhou 55H 107 1.23 615 77.530 100 148acu 511 159 400 1.229 31 Lanchon 55H 2.99 704 1.042 73.880 101 18acou 511 159 400 1.229 32 Kumming 元明 538 1.002 1.210 1.212,77 1.02 1.618 1.330 833 644 33 Turbou (F) 田州 334 610 2.228 1.538,903 103 Changrhou 元H 2.29 377 1.668 34 Layong 58H 280 6.77 995 7.635,003 103 Changrhou 元H 2.29 377 1.668 35 Chengha & & & & & & & & & & & & & & & & & &	
20 Hangela 競音	
22 Machan 野山 69 105 890 84,000 97 Namsurg 影響 97 269 758 102 228 Nanchong 報策 159 292 555 162,066 98 Flyong 日曜日 71 57 10.00 103 103 103 104 107 123 615 75,500 101 104 107 103 1	
28 Nanchong 前兵 159 292 555 162,106 98 Fryang 単元 71 87 1,06 1,06 1,00	
29 2. Pengehon 변州 839 1.433 1.346 1.928.111 99 Nejing 共正 46 48 61 30 Dazhon U,HH 107 1223 615 57.5520 101 Baboto 62.7 320 893 644 31 Laurbou 보세 239 794 1.042 73.880 101 Baboto 62.7 320 893 644 32 Komming 2月 538 1.002 1.210 1.212.27 10.2 Bin	
30 Darbon	
33 Lambou 설	
33 Fuzhou (王) 58H 334 460 2228 1,385 303 1,092 1,698 1,385 304 305 1,094 307 1,698 337 995 6,35 603	
33 Furboux (FJ) 福州 334 6.610 2.228 1.338,903 103 Lixang-hou 常州 229 397 1.688 1 4 Lixang-hou	
34 Luoyang	
37 Dallain 快速時 458 699 2,088 1,459,398 106 Behai 北海 209 499 591 37 Dallain 大连 595 2,600 1,108 2,880,479 107 Harfan 井安 18 32 1,198 38 Xian 州安 1,312 3,083 1,855 5,717,796 108 Talubou 67H 109 261 1,930 39 Helfei 67R 892 2,2888 2,028 5,856,448 109 Ma'anshan 4780 224 862 1,10 40 Yusyang 67R 102 248 663 154,457 110 Hangang B/R 50 63 68 42 Shijarhung 67R 519 1,572 1,241 1,951,996 113 800 1,11 110 100 1,405 1,	8 1,327,508
37 Dalam 大澤 595 2,000 1,108 2,880,479 107 HaTan 碧花 18 32 1,198 38 Xian 月夜 1,312 3,088 1,885 5,717,796 108 Tazibou 67H 109 26H 1,930 1,9	7 294,912
38 Man 新字 1,312 3,083 1,855 5,717,796 108 Taizbou 台州 109 261 1,930 1,930 1,946 1,930 1,946 1,947 1,447	
39 Hefei 合肥 6元元 882 2.888 2.028 5.856.448 109 Ma'arshan 马鞍山 224 862 1.10	
## Verzang 岳田 102 248 623 154.457 110 Hunggang 黄田 37 71 7.4 ## Verzhou 選州 318 625 1,845 1,153,115 111 Hengyang 南田 50 63 68 ## Shiparhang 石原田 519 1.572 1,241 1,195,196 113 Hengyang 南田 50 63 68 ## Shiparhang 石原田 519 1.572 1,241 1,195,196 113 Hengyang 西田 50 63 68 ## Chuffeng 赤峰 115 402 683 274,76 113 Yongzhou 永州 34 46 65 ## Changehun 長春 416 1,553 916 1,405,022 114 1,405,022 115 Takang 太帝 485 368 1,950 65 ## Ganzhou 韓州 257 358 1,390 497,620 115 Takang 太帝 12 36 1,908 1,908 ## Quarzhou 泉州 400 753 2,570 1,952,101 115 Takang 太帝 12 36 1,908 1,908 1,406 ## Quarzhou 泉州 400 753 2,570 1,952,101 117 1,952,101 1,952,101 117 1,952,101 117 1,952,101 117 1,952,101 117 1,952,101 117 1,952,101 117 1,952,101 117 1,952,101 117 1,952,101 117 1,952,101 117 1,952,101 1,952,101 117 1,952,101 117 1,952,101 117 1,952,101 1,952,101 117 1,952,101 117 1,952,101 117 1,952,101	
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42 Shijiazhuang 石家庄 519 1,572 1,241 1,951,996 112 Baoding 保証 48 85 921 43 Chifeng 赤峰 115 402 683 274,76 113 Yongzhou 永州 34 46 66 44 Changehun 枝春 416 1,534 916 1,405,022 114 Dongguan 死党 485 368 1,950 45 Ganzhou 精州 257 358 1,390 497,020 115 Takang 太仓 12 36 1,908 46 Suzhou 寿州 869 2,414 2,797 6,751,025 116 Changshu 常勢 31 90 1,406 47 Quarzhou 泉州 400 753 2,570 1,935,210 117 Pingxiang 澤多 29 17 64 48 Tangshan 唐山 292 689 892 614,423 118 Panzhihua 攀枝花 33 74 62 49 Datong 大門 13 2 525 1,050 119 Yancheng 旅飯 180 302 1,268 50 Dali 大理 38 64 2,020 129,280 100 Huzhou 海州 153 488 1,209 51 Zabo 滅神 134 444 818 363,270 121 Luzhou 涼州 35 50 27 53 Yantai 現台 331 594 1,021 606,617 123 Tanshini 天水 15 19 92 54 Foshan 州山 651 1,074 1,491 1,601,319 124 Jurong 対帝 2 3 3,157 55 Ganangchou 円州** 1,049 2,319 2,697 6,254,343 126 Tanghun 東京 18 9 7 7 55 Ganangchou 下州** 1,049 2,319 2,697 6,254,343 126 Tanghun 東京 18 9 7 7 56 Dandong 丹东 48 273 581 1,562 2,467 3,833,078 130 Chengde 飛煙 15 25 25 2,162 60 Tanjin 元津 1,019 6,590 1,477 9,883,978 130 Chengde 飛煙 15 25 2,162 61 Nanjing 南京 715 1,662 2,467 3,833,078 130 Chengde 飛煙 15 25 2,162 62 Xuzhou 接州 316 689 1,158 797,569 132 Tanghan ボル 266 61 739 64 Heze 海澤 83 133 674 889 135 0,100 135 1,161,000 136 1,176 65 Galang 中野 448 273 581 1,158 797,569 132 1,101	740 52,540
44 Chángg 計画数 115 402 683 2.74,376 113 Yongzhou 次州 34 46 62 44 Changchun 長春 416 1,534 916 1,405,022 114 1,000,022 114 1,000,023 1,268 1,200 1,268 1,200 1,200,03	680 42,840
44 Changchun 長春 416 1,534 916 1,405,022 114 Dongguan 东莞 485 368 1,950 1,950 45 Ganzhou 徳州 257 358 1,390 497,620 115 Takang 太仓 12 36 1,908 46 5 kurbou 万州 869 2,414 2,797 6,751,025 116 Changshu 常熟 31 90 1,406 47 Quanzhou 泉州 400 753 2,570 1,935,210 117 Pingxiang 草多 29 17 6.64 48 Tangshan 野山 292 689 892 614,423 118 Panzhihua 華枝花 33 74 44 49 Datong 大同 13 2 525 1,050 119 Yancheng 益城 180 302 1,268 50 Dah 大理 38 64 2,020 129,280 129,280 129 Huzhou 海州 35 488 1,209 151 Zabo 河南 424 1,277 1,584 2,023,200 122 Yuncheng 远城 32 20 77 75 75 75 75 75 75 7	
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47 Quanzhou 泉州 400 753 2,570 1,935,210 117 Pingxang 淳乡 29 17 64 48 Tangsham 唐山 292 689 892 614,423 181 Panzhihua 壁枝花 33 74 65 49 Datong 大同 13 2 525 1,000 19 Yancheng 故域 180 302 1,268 50 Dah 大理 38 64 2,020 129,280 120 Huzhou 湖州 153 488 1,209 51 Zibo 淄博 134 444 818 363,270 121 Luzhou 沙州 35 50 70 52 Jinan 济南 424 1,277 1,584 2,023,200 122 Yuncheng 故域 32 20 76 53 Yantai 現台 331 594 1,021 666,617 123 Tanshui 天水 15 19 92 54 Foshan 俄山 651 1,074 1,491 1,601,319 124 Jurong 句容 2 3 3,157 55 Guangzhou 厂州** 1,049 2,319 2,697 6254,8478 126 Tonglaio 逝江 29 105 68 56 Dandong 丹东 48 273 581 188,478 126 Tonglaio 逝江 29 105 68 57 Xuchang 竹昌 142 237 618 146,480 127 Lianyungang 建云港 82 69 1,57 58 Wuhan 武汉 1,367 3,250 1,782 5,791,500 129 Fuzhou (JX) 校hm 25 33 88 59 Xangyang (HB) 報刊 198 492 883 434,624 129 Yehnn 宜春 59 76 1,00 60 Tanjin 天津 1,019 6,390 1,547 9,883,978 130 Chengde 承徳 15 25 2,162 61 Nanjing 南京 715 1,562 2,467 3,853,702 131 Qidong 高京 2 5 2,162 62 Xuzhou 徐州 316 689 1,158 797,569 132 Taran ※Fy 23 52 2,96 63 Langfang 鄜坊 369 2,209 1,327 2,931,673 133 Urumqi 9,987,7 30 134 744 64 Heæ 菏泽 83 133 674 89,590 134 Deyang 徳田 29 109 55 66 Nanning 南宁 270 378 1,191 450,084 136 Suning 徳野 39 59 23,010 135 Liangshan ※Fill 26 61 739 66 Galini 長林 143 263 821 215,941 137 Quzhou 衛州 7 36 11,76 68 Huzhou 恵州 575 653 978 68,869 139 Chengmai № 7 7 26 61 60 60 Guilin 長林 183 273 558 152,306 147,500 140 Pingdingshan 平顶Ili* 14 70 55	
Hampstan 接山 292 689 892 614,423 118 Panzhihua 糠枝花 33 74 62	640 10,880
49 Datong 大同 13 2 525 1,050 119 Yancheng 盐椒 180 302 1,268	620 45,880
50 Dali 大理 38 64 2,020 129,280 120 Huzhou 湖州 153 488 1,209 151 Zibo 淄博 134 444 818 363,270 121 Luzhou 沪州 35 50 77 77 78 78 78 78 78 7	
52 Jiran 済南 424 1,277 1,584 2,023,200 122 Yuncheng 這城 32 20 77	9 589,963
53 Yantai 超台 331 594 1,021 606,617 123 Tanshui 天水 15 19 92 54 Foshan 像山 651 1,074 1,491 1,601,319 124 Jurong 句容 2 3 3,157 55 Guangzhou 广州** 1,049 2,319 2,697 6,254,343 125 Xinyu 新余 18 9 78 55 Dandong 丹东 48 273 581 18,478 126 Tonglao 112 29 105 68 57 Xuchang 许昌 142 237 618 146,480 127 Linnyungang 法元港 82 69 1,57 58 Wuhan 武汉 1,367 3,250 1,782 5,791,500 128 Fuzhou (JX) 折州 25 33 88 59 Xiangyang (HB) 襄阳 198 492 883 434,624 129 Yichun 宜春 59 76 1,00 60 Tanjin 天津 1,019 6,390 1,547 9,883,978 130 Chengde 承徳 15 25 1,01 61 Nanjing 南京 715 1,562 2,467 3,853,702 131 Qidong 日东 2 5 2,162 62 Xuzhou 徐州 316 689 1,158 797,569 132 Taran ※安 23 52 2,9 63 Langfang	720 36,000
Foshan 佛山	760 15,200
55 Guangzhou 广州** 1,049 2,319 2,697 6,254,343 125 Xinyu 新余 18 9 78 56 Dandong 丹东 48 273 581 184,78 126 Tongliao 超江 29 105 68 57 Xuchang 许昌 142 237 618 146,480 127 Linyungang 速元港 82 69 1.57 58 Wuhan 武汉 1,367 3,250 1,782 5,791,500 128 Fuzhou (JX) 托州 25 33 88 59 Xingyang (HB) 襄阳 198 492 883 434,624 129 Yichun 宜春 59 76 1,00 60 Tanjin 天津 1,019 6,390 1,547 9,883,781 30 Chengde 浜徳 15 25 1,01 61 Nanjing 南京 715 1,562 2,467 3,853,702 131 Qidong 百宗 2 5 2,162 62 Xizzhou 徐州 316 689 1,158 797,569 132 Taran 季安 23 52 2,00 63 Langfang 龍坊 369 2,209 1,327 2,931,673 133 Urunqi 1,948,757 30 134 744 64 Heze 菏澤 83 133 674 89,590 134 Deyang 徳田 29 109 74 65 Xiangxi (HN) 湘西*** 14 39 590 2,3010 135 Lingshan 沢山 26 61 739 66 Nanning 南宁 270 378 1,191 450,084 136 Suining 北野子 32 75 5 5 67 Liaozhou 鹿州 575 653 978 638,690 139 Chengmai 翌月 7 26 11,66 70 Baoji 宝葵 40 250 590 147,500 140 Pingdingshan 平頂山** 14 70 5	920 17,480
56 Dandong 丹东 48 273 581 158.478 126 Tonglao 通江 29 105 68 57 Xuchang 许昌 142 237 618 146.480 127 Linnyungang 连元港 82 69 1.57 58 Wuhan 武汉 1.367 3.250 1.782 5.791.500 128 Fuzhou (IX) 托州 25 33 88 59 Xiangyang (HB) 蔣阳 198 492 883 434.624 129 Yichun 寶香 59 76 1.00 60 Tianjin 天津 1.019 6.390 1.547 9.883.78 130 Chengde 承徳 15 25 1.01 61 Nanjing 南京 715 1.562 2.467 3.853.702 131 Qidong 阿尔 2 5 2.162 62 Xuzhou 徐州 316 689 1.158 797.569 132 Taran 秦安 23 52 2.9 63 Langfang 廊坊 369 2.209 1.327 2.931.673 133 Urumqi 乌鲁木芹 30 134 744 64 Heze 菏泽 83 133 674 88.9590 134 Deyang 德阳 29 109 5.2 65 Xiangxi (HN) 湘西*** 14 39 590 23.010 135 Liangshan 原宁 270 378 1.191 450.084 136 Suning 隆宁 32 75 5 66 Kaming 南宁 270 378 1.191 450.084 136 Suning 隆宁 32 75 5 67 Liaozhou 穆州 143 2.63 821 215.941 137 Quzhou 霍州 7 36 1.7 68 Huzhou 惠州 575 653 978 638.690 138 Yibin 宜亮 20 61 2.31 70 Baoji 宝夢 40 250 590 147.500 140 Pingdingshan 平顶Li** 14 70 5	
57 Xuchang 许昌 142 237 618 146,480 127 Lianyungang 连云港 82 69 1.57 58 Wuhan 武汉 1,367 3,250 1,782 5,791,500 128 Fuzhou (JX) 托州 25 33 88 59 Xiangyang (HB) ജH 198 492 883 434,624 129 Yzhum 宣存 59 76 1,00 60 Tanjin 天津 1,019 6,390 1,547 9,883,978 130 Chengde 承徳 15 25 1,01 61 Nanjing 南京 715 1,562 2,467 3,853,702 131 Qidong 百东 2 5 2,162 62 Xuzhou 徐州 316 689 1,158 797,569 132 Taran 季安 23 52 2,9 63 Langfang 廊坊 369 2,209 1,327 2,931,673 133 Urumqi 只會未齐 30 134 744 64 Heæ 菏泽 83 133 674 89,590 134 Deyang 徳田 29 109 52 65 Xangyi (HN) 湘西*** 14 39 590 23,010 135 Liangshan ボルレ 26 61 739 66 Naming 南宁 270 378 1,191 450,084 136 Suning 遂宁 32 75 5 67 Liaozhou 極州 143 263 821 215,941 137 Quzhou 極州 7 36 1.7 68 Huzhou 恵州 575 653 978 638,690 138 Ybin 日東 20 01 2,31 69 Guilin 桂林 183 273 558 152,306 130 Chengmai 沙野 7 26 1,66 70 Baoji 宝葵 40 250 590 147,500 140 Pingdingshan 平顶山** 14 70 5	780 7,020
58 Wuhan 武汉 1,367 3,250 1,782 5,791,500 128 Fuzhou (IX) 托州 25 33 88 59 Xangyang (HB) 護田 198 492 883 434,624 129 Yichan 資俸 59 76 1,00 60 Tanjin 天津 1,019 6,390 1,547 9,883,978 130 Chengde 孫德 15 25 1,01 61 Nanjing 南京 715 1,562 2,467 3,853,702 131 Qidong 百宗 2 5 2,162 62 Xuzhou 徐州 316 689 1,158 797,569 132 Taran 蔡安 23 52 2,9 63 Langfang 龍坊 369 2,209 1,327 2,931,673 133 Urunqi 1,988,77 30 134 744 64 Heze 荷澤 83 133 674 89,590 134 Deyang 龍田 29 109 74 65 Xangyi (HN) 湘西*** 14 39 590 23,010 135 Langshan 深田 26 61 739 66 Nanning 南宁 2,70 378 1,191 450,084 136 Suning 827 32 75 5 67 Liaozhou 龍州 143 263 821 215,941 137 Quzhou 龍州 7 36 1,7 68 Huzhou 恵州 575 653 978 638,690 138 Yibin 12章 20 61 2,31 70 Baoji 宝葵 40 250 590 147,500 140 Pingdingshan 平頂山** 14 70 5	680 71,400
59 Xiangyang (HB)	1,570 108,330 880 29,040
60 Tianjin 天津 1,019 6,390 1,547 9,883,978 130 Chengde 承總 15 25 1,01 61 Nanjing 南京 715 1,562 2,467 3,853,702 131 Qidong 高宗 2 5 2,162 62 Xiurbou 徐州 316 689 1,158 797,569 132 Taran 泰安 23 52 2,9 63 Langfang 廊坊 369 2,209 1,327 2,931,673 133 Urumqi 乌鲁木芹 30 134 744 64 Heze 菏泽 83 133 674 89,590 134 Deyang 徳田 29 109 5,2 65 Xangxi (HN) 湘西*** 14 39 590 23,010 135 Liangshan 凉山 26 61 739 66 Naming 南宁 270 378 1,191 450,084 136 Suning 遼宁 32 75 5 67 Liaozbou 柳州 143 2,63 821 215,941 137 Quzbou 衛州 7 3,6 1,7 68 Hużhou 惠州 575 653 978 638,690 138 Yibin 宜英 20 61 2,31 69 Guilin 桂林 183 273 558 152,306 139 Chengmai 澄辺 7 2,6 1,66 70 Baoji 宝葵 40 250 590 147,500 140 Pingdingshan 平頂山** 14 70 5	1,060 80,560
61 Nanjing 南京 715 1,562 2,467 3,853,702 131 Qidong 百余 2 5 2,162	1,010 80,300
62 Xuzhou 徐州 316 689 1,158 797,569 132 Tařan 泰安 23 52 2,9 63 Langfang 廊坊 369 2,200 1,327 2,931,673 133 Urumqi 乌鲁木芹 30 134 744 64 Heze 菏泽 83 133 674 89,590 134 Deyang 徳田 29 109 5,2 65 Xangxi (HN) 湘西*** 14 39 590 23,010 135 Liangshan 凉山 26 61 739 66 Nanning 南宁 270 378 1,191 450,084 136 Suining 遼宁 32 75 5 67 Liaozhou 柳州 143 263 821 215,941 137 Quzhou 衢州 7 36 1,7 68 Huizhou 恵州 575 653 978 638,690 138 Yibin 宜英 20 61 2,31 69 Guilin 桂林 183 273 558 152,306 139 Chengmai 澄辺 7 26 1,66 70 Baoji 宝英 40 250 590 147,500 140 Pingdingshan 平顶山** 14 70 55	
63 Langfang 廊坊 369 2,209 1,327 2,931,673 133 Urumqi 乌鲁木芹 30 134 744 64 Heze 菏泽 83 133 674 88,950 134 Deyang 徳田 29 109 5,2 65 Xangxi (HN) 湘西*** 14 39 590 23,010 135 Liangshan 凉山 26 61 739 66 Naming 南宁 270 378 1,191 450,084 136 Suning 號宁 32 75 5 67 Liaozbou 柳州 143 263 821 215,941 137 Quzbou 御州 7 36 1,7 68 Huizhou 惠州 575 653 978 638,690 138 Yibin 百至 20 61 2,31 69 Guilin 桂林 183 273 558 152,006 139 Chengmai 澄辺 7 26 1,66 70 Baoji 宝흥 40 250 590 147,500 140 Pingdingshan 平頂山** 14 70 5	2,983 155,118
64 Heze 湾澤 83 133 674 89,590 134 Deyang 徳田 29 109 5.2 65 Xangxi (IN) 相西*** 14 39 590 23,010 135 Liangshan 原山 26 61 739 66 Naming 南宁 270 378 1,191 450,084 136 Suining 遼宁 32 75 5 67 Liaozhou 柳州 143 263 821 215,941 137 Quzhou 千 7 36 1,7 68 Huzhou 惠州 575 663 978 638,690 138 Yèbn 宜寮 20 61 2,31 69 Guilin 桂林 183 273 558 152,306 139 Chengmai 翌打 7 26 1,66 70 Baoji 宝鸡 40 250 590 147,500 140 Pingdingshan 平頂山** 14 70 5	
66 Naming 南宁 270 378 1,191 450,084 136 Suning 遂宁 32 75 5 67 Liaozbou 柳州 143 263 821 215,941 137 Quzbou 衢州 7 36 1,7 68 Huizbou 惠州 575 653 978 638,690 138 Ybin 宜宾 20 61 2,31 69 Gullin 桂林 183 273 558 152,306 139 Chengmai 澄辺 7 26 1,66 70 Baoji 宝鸡 40 250 590 147,500 140 Pingdingshan 平顶山** 14 70 5	5,245 571,707
66 Naming 南宁 270 378 1,191 450,084 136 Suining 遂宁 32 75 55 67 Liaozhou 柳州 143 263 821 215,941 137 Quzhou 衢州 7 36 1,7 68 Huizhou 恵州 575 653 978 638,690 138 Yibin 宜宴 20 61 2,31 69 Guilin 桂林 183 273 558 152,306 139 Chengmai 澄辺 7 26 1,66 70 Baoji 宝鸡 40 250 590 147,500 140 Pingdingshan 平頂山** 14 70 55	
68 Huizhou 惠州 575 653 978 638,690 138 Yibin 宜宾 20 61 2,31 69 Guilin 桂林 183 273 558 152,306 139 Chengmai 澄辺 7 26 1,65 70 Baoji 宝鸡 40 250 590 147,500 140 Pingdingshan 平頂山** 14 70 5	530 39,783
69 Guilin 桂林 183 273 558 152,306 139 Chengmai 遊班 7 26 1,67 70 Baoji 宝鸡 40 250 590 147,500 140 Pingdingshan 平頂山** 14 70 5	1,795 64,637
70 Baoji 宝鸡 40 250 590 147,500 140 Pingdingshan 平顶山** 14 70 5	2,316 141,291
	1,672 43,462
*Festimated value calculation detailed ner canarate table otherwise ner ora com/s Sent 2021 city/s ave listing price Total (76 days) 29 500 05 212	536 37,494
**Isstrated value cauculation decade per separate time, outerwise per circ coms. Sept. 20.2 city's agristing price. **Indiance value cauculation of caucular per separate time, outerwise per circ coms. Sept. 20.2 city's agristing price. **Indiance value cauculation of caucular was not in the collected data, estimate is detailed in separate table.	136,131,390

^{**}Number of transactions in the quarter was not in the collected data, estimate is detailed in separate table.

***Guangzhou, Wuhan, avergage value per transaction obtained from the S/25-8/8 data set

****湘西土家族苗族自治州

Together with the Lianjia stores' existing home sales GTV overstatement, our collected data suggests BEKE inflated its existing home sales GTV by 33% in 2Q-3Q 2021.

	2Q 2021			3Q 2021			2Q-3Q 2021		
RMB M	Reported	MW estimate	Inflated%	Reported	MW estimate	Inflated%	Reported	MW estimate	Inflated%
GTV of new home sales by Lianjia and connected	498,300	206,866	141%	410,100	195,358	110%	908,400	402,224	126%
GTV of existing home sales by Lianjia	309,500	216,839	43%	185,300	160,866	15%	494,800	377,706	31%
GTV of existing home sales by connected stores	342,500	232,630	47%	192,900	164,791	17%	535,400	397,421	35%
GTV of existing home sales	652,000	449,469	45%	378,200	325,657	16%	1,030,200	775,126	33%
GTV of home sales	1,150,300	656,335	75%	788,300	521,015	51%	1,938,600	1,177,350	65%

In total, the collected data suggested that BEKE inflated its new home and existing home sales GTV by 65% in 2Q-3Q 2021.

Data Verification Checks

To verify that our collected data was comprehensive, we compared the key metrics from the data we collected from the platform with BEKE's SEC disclosures.

BEKE reported connecting with 278 real estate brokerage brands other than Lianjia. 98 In our July data collection, we identified 310 brands.

BEKE stated that its Lianjia stores operate in 29 cities in China. ⁹⁹ Our collected data captured Lianjia brokerage transaction data in 29 cities.

BEKE reported that its platform includes connected brokerages in "more than 100 economically vibrant cities in China." We collected transaction data from connected and franchise stores with agents for 140 cities, excluding Beijing and Shanghai. Including Beijing and Shanghai we collected transactions from 142 cities.

We also note that BEKE's online website doubles as an MLS and contains listings for over cities around China plus cities in the US, Canada, Japan, Thailand, Singapore, Germany, France, the UK, Australia. Our July data collections identified the individual webpages for each of the 241 domestic China websites. Recently this number has declined to 227.

Because BEKE does not claim to have overseas business, we did not investigate the overseas listings.

For mainland China, these cities' store pages did not contain the same level of completeness as other cities. Substantially all of these cities are in lower tier cities, such as 3rd, 4th, 5th tier cities as well as "no tier" cities and "country-level cities." Furthermore, the majority of these cities are missing store listings, agent listings, any property listing and/or transaction information. Some sites redirect back to the BEKE main page. We believe these the vast majority are listing sites only.

In the cases where we found cities serviced by a BEKE agent, the agent was not local but from a neighboring city. For example, in Yangzhou, a Tier 3 city in Jiangsu, the agent listing the new home property works in a store in nearby Zhenjiang. The business license related to this agent is for a store called Deyou Fenghuangcheng Flagship store A. This store and this agent are in our data under the city Zhenjiang. This pattern of coverage was repeated for other small cities and their stores, agents, and/or transaction data could be seen in our data sets. A screen shot of a Yangzhou listing page and the connection to the Deyou Fenghuangcheng agent is below.

To the extent some or any of these cities provide a contribution to total GTV that is not collected and flowing through a neighboring city in the collected data sets, we believe it will very likely be small and will not have a significant impact on our overall estimates.

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⁹⁸ BEKE 2020 20-F, p.60

⁹⁹ BEKE 2020 20-F, p.60

¹⁰⁰ BEKE 2020 20-F, p.54

¹⁰¹ BEKE F-1A, dated Nov. 16, 2020, p. 2, "We believe that ACN, from its inception, is similar to the Multiple Listing Service, or MLS, in the United States."

¹⁰² Store name: 德佑凤凰城旗舰 A 店, company name: 镇江市德佐房地产经纪有限公司句容分公司



Above: BEKE landing page for Yangzhou, the listing is serviced by a Deyou agent in neighboring Zhenjiang

Appendix II: Sanhe Langfang Ghost Store Case Study

In the report, we presented two examples in Sanhe Langfang that show BEKE inflates its store count by having ghost stores at the same location. This Appendix provides additional examples of Ghost Stores that we found:

• Example 1: Branch No. 10 and No. 79 are also the Same Store

Branch No. 10 and No. 79 are also co-located but presented as distinct and different stores on BEKE's platform with different store numbers, different branch numbers, and different SAIC business registrations.

On BEKE's platform, both Branch No. 10 and Branch No. 79 are shown with the same vague location description: "Shenwei North Street."



Above: Sanhe Lianjia Yanjiao Branch No. 10 on BEKE's platform, aka Lianjia Yanjing Hangcheng Store No. 4¹⁰³



Above: Sanhe Lianjia Yanjiao Branch No. 79 on BEKE's platform, aka Lianjia Yanjing Hangcheng Store No. 2¹⁰⁴

The use of similar but different store names and the extremely vague store location descriptions and addresses is a common theme on BEKE's platform. It suggests the platform created an ecosystem that was devised to obfuscate, allowing some stores to exist on paper alone.

Further, Branch No. 10 was initially registered in unit 1-1914, which is currently occupied by a Century 21 branch, a connected store held by Zhonghuan. Interestingly, Branch No. 10 changed its registered address from street number 1914 (the current Century 21 location) to 1913 on March 18, 2021. This is another instance where stores move just one or two doors down the street. This move makes little economic sense. Both locations are in the middle of a block, not on a corner, so the new location would provide little to no impact to attract traffic. In addition, moving costs, decorating expense and the impact of business disruption all suggest the move did not happen. We believe Branch No. 10 only changed its registered address to hide its connection with Century 21 or Zhonghuan.

¹⁰³ https://m.ke.com/store/11018900761765031134.html, 燕京航城 4店, Branch 10

¹⁰⁴ https://m.ke.com/store/10088500751985031478.html, 燕京航城 2 店, Branch 79





Above: registration details and changes to the Branch 10



Above: Left, the Century 21 at 1-1914, Right, the Lianjia Store at 1-1913

Because of Lianjia's claims of an extensive national network, we believe Sanhe Langhang's examples indicate a systemic inflation of store and agent counts.

• Example 2: Sanhe Lianjia Yanjiao Branch Store 51 Does Not Exist

Branch No. 51 was established around the same time as Branches No. 54–59, those branches explored in another example; it even has the same legal representative and phone number as those branches. It is registered at Zhugedian Village in Yanjiao Town. Yet when we visited the site, we could not find any Lianjia or other real estate brokerage to speak of.

Branch Company Name	Registered Business Address & Location	BEKE Platform Store Name	Physical Location	
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Yanjiao Village, Zhuge Commercial Town Branch No. 51		100		
三河市链家房产经纪有限公司燕郊第五十一分公司	燕郊镇诸葛店村	None	No	

	SAIC	Registration In	formation for the Sa	nHe City Lia	njia Real Estat	e Brokerage	Co, Yanjiao Bra	nches	
51	12-Jun-17	SONG Xinghua 宋兴华	133-1561-8352, 563284618@qq.com	On file, operating	On file, operating	On file, operating	On file, operation closed	Active	No

No Lianjia Store at the Zhugedian Village



Source: Site Visits, Q4 2021

Example 3: SAIC Registrations Show Two Neighboring Lianjia Stores, But One is a Restaurant

According to the SAIC records, Branch No. 4 and 88 are registered on the same street, only two stores away. We visited these two branches' registered addresses. Yet we only found one Lianjia store (Branch 88). The location where Branch No. 4 should be is actually a restaurant.



The Baidu Map also confirms that the restaurant is located at Branch No. 4's registered address.

湘故里·川湘私房菜 湘故里·川湘私房菜 Hu Gu Li 00000 4.7 9条评论 中餐 Sichuan Huan Restaurant ★收益 20分享 間 扫6 周一至周日 10:00-23:00 营业时间 10:00-22:00 実用信息 > 三河市燕郊开发区福泽御园南区底商29-8号 . 地图 恩话 用户评论 🕑 写评论 4.7分9评论 口味 3.7 环境 3.8 服务 3.8 大众点评网友 DDDDD 5.0 带孩子来吃的, 就在我家对面, 一直都喜欢吃湘菜, 这家味道 2 分享 不错, 湘味臭桂鱼很入味, 是他家的招牌菜, 虾球很新鲜, 菜 量很大很实惠,三个人点了三个菜吃撑了,免费的大麦全文 2021-08-11 云大众点评宣看全部 链家地产(福成四期店) 競业时间 大众点评网友 ○一类常药店注 5.0 菜品口味好,环境也不错,服务热情周到,既有正宗的湘菜, 又有正宗的川菜。「湘式臭鳜鱼」「钵子扁豆丝」「湘味小炒 肉」等美味佳肴挺好吃的。 2021-08-28 古大众点便宣看全部 \Box

The Restaurant Xiang Gu Li 's address on Baidu maps

Source: Baidu Maps

订单

According to a Chinese corporate registration database, Branch No. 4 and No. 88 filed their 2020 annual reports and are supposedly active. Yet, both our site visits and the Baidu Maps indicate that Branch 4 does not exist.

Branch Company Name	Registered Business Address & Location	BEKE Platform Store Name	Physical Location
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Branch No. 4	South side of Yanjiao Palace East Street, East side of Minfu Garden, Fuze Yuyuan District, No. 29-08	777	No, address
三河市链家房产经纪有限公司燕郊第四分公司	燕郊行宫东大街南侧、民福元东侧福泽御园 小区29-08号		restaurant
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Branch No. 88	South side of Yanjiao Palace East Street, East side of Minfu Garden, Fuze Yuyuan District, 1st Floor No. 29-06	7?7	Yes
三河市链家房产经纪有限公司燕郊第八十八分公司	燕郊行宫东大街南侧、民福园东侧福泽御园 小区29-06号一层		

• Example 4: Missing Sanhe Lianjia Branches are Set up as Deyou Branches

When reviewing Lianjia's SAIC registrations, we found two Lianjia stores that share addresses with two Deyou stores. More importantly, in our site visits we found a Deyou store at one of these physical locations, but not Lianjia.

Branch No. 56, one of the seven Lianjia's, is registered at ShouErYuan TianCheng, District E, building 7, 1st Floor, Unit 1, Suite A1-8 in the Yanjiao New High-Tech Zone in the SAIC records. The same address is also registered with the SAIC by Langfang Wisdom Deyou.

Branch Company Name	Registered Business Address & Location	Parent Co./Owner
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Branch No. 56	Yanjiao New High Tech Zone, Yanhsun Rd., East Side, S. Mizhou Branch Line; ShouErYuan TianCheng, Phase 1, District E, Building 7, 1st Floor, Unit 1, Suite A2-6	BEKE (Tianjin) Investment Co. Ltd.
三河市链家房产经纪有限公司燕郊第五十六分公司	燕郊高新区燕顺路东侧、密涿支线南侧首尔园甜城一期E区 一期 第7幢1单元1层A2-6	贝壳(天津)投资有限公司
Langfang Wisdom Deyou Real Estate Agency Co., Ltd.	Yanjiao New High Tech Zone, Yanhsun Rd., East Side, S. Mizhou Branch Line; ShouErYuan TianCheng, Phase 1, District E, Building 7, 1st Floor, Unit 1, Suite A2-6	Pontus Development (Hong Kong) Ltd.
廊坊市智慧德佑房地产经纪有限公司	燕郊高新区燕顺路东侧、密涿支线南侧首尔园甜城一期E区 一期 第7幢1单元1层A2-6号	ronus Development (Hong Kong) Ltd.

Deyou is supposedly a franchise brand owned by BEKE, and all Deyou stores should be owned by franchisees.

Deyou

We own *Deyou* brand, which is offered under a franchise model for connected brokerage stores that seek for branding effect and access to solutions offered by *Beike* platform. Participating brokerage stores can reduce their operating cost, increase business efficiency and productivity, enhance exposure to updated market news and industry trends, gain access to extensive authentic property listing inventory and be referred to high-quality customer leads on *Beike* platform. They are able to keep the culture of being a small team while enjoying the full-fledged infrastructure of a tremendous platform and cooperating within our extensive store network.

Source: BEKE Prospectus Aug 13, 2021, p. 170

Yet the SAIC records indicate that this Deyou store shares the same registered address with a Lianjia store. This Deyou store registered in the location of a missing Lianjia store appears to be pulling double duty – doubling up as a Lianjia store and being counted as a Deyou store.

¹⁰⁵ 燕郊高新区燕顺路东侧、密涿支线南侧首尔园甜城一期 E 区一期第 7 幢 1 单元 1 层 A2-6

The double duty being pulled at Branch no. 56 is not a single incident. We also found Branch No. 36 and another Deyou store share a same registered address. ¹⁰⁶ When we visited, we only the found the Deyou store at that location.

Branch Company Name	Registered Business Address & Location	BEKE Platform Store Name	Physical Location
Sanhe City Lianjia Real Estate Brokerage Co, Yanjiao Branch No. 36	Yanjiao New Development Zone, West side of Yanxing Rd., Xiangxin Store, No. 92	None ???	Occupied by a Deyon franchise store
三河市链家房产经纪有限公司燕郊第 三十六分公司	燕郊开发区燕兴路西侧祥馨门店92号		
Sanhe City ZeAn Real Estate Brokerage Co, Ltd.	Yanjiao New Development Zone, West side of Yanxing Rd., Xiangxin Store, No. 92	927	Yes
三河市泽安产房经纪有限公司	燕郊开发区燕兴路西侧祥馨门店92号		



As discussed earlier in this report, Lianjia stores and Deyou franchise stores present very different economic contributions to BEKE. All of the commissions collected by Lianjia stores are reported on a gross basis, while only a small percent of the commissions generated by Deyou stores plus some other possible fees flow to BEKE from Deyou operations. Therefore, changing from a Lianjia to a Deyou store is not a matter of rebranding, but one of

economics - directly impacting commission revenue.

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¹⁰⁶ 三河市泽安产房经纪有限公司, 燕郊开发区燕兴路西侧祥馨门店 92号