



Introduction

The scale and impact of China's emergence as a global technology trendsetter has made the country an attractive destination for tech firms. While many tech firms have had tremendous success in the West, many are hesitant to enter the Chinese market. In the area of property technology ("PropTech"), Chinese development is still slightly behind that of the US and Canada. However, China's cutting-edge approach to retail, e-commerce, and mobile payment has unlocked its potential for PropTech growth.

Understanding China's PropTech landscape can provide global real estate players and the PropTech community with a new perspective on the adoption of technology in the real estate industry.

The report examines the opportunities and challenges in cross-border PropTech transfers. It also serves as a follow-up to the "An Introduction to PropTech in China" published by MetaProp in December 2017.





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Executive Summary



Factors Driving Real Estate Innovation

- 1. The **government's** push for innovation & new infrastructure.
- 2. Chinese **consumers**' preferences are evolving.
- **3. Real estate** firms are innovating to compete.
- 4. Chinese **PropTech** unicorns are catching up with the West.
- **5. Internet giants** all have a real estate playbook.



Cross-Border Opportunities

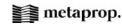
Foreign startups have the potential to build cross-border businesses based on their **tech competency** relative to local rivals and their **propensity for adoption** in the Chinese market. They need **Chinaspecific strategies** in order to:

- 1. Develop deep knowledge about culture, market, and customers.
- 2. Navigate the regulatory environment.
- 3. Adapt to the China landscape and build a unique positioning.



Trends on the Horizon

- 1. The rise of **super app** in PropTech.
- 2. Chinese developers are becoming service-providers.
- 3. Physical assets will be digitallypowered to provide omnichannel and value-driven experiences.
- **4. New technologies** will unlock more applications in real estate.
- 5. Real estate giants will collaborate with the tech sector to build **industry** best practices.



01

Understanding PropTech in China

- PropTech Development in China
- Major Players in PropTech-China vs US
- PropTech Landscape in China
- Tech Applications in Real Estate in China
- Residential and Commercial PropTech Market Maps in China



PropTech Development in China

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LION IIO. 链家

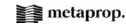
The development of PropTech in China followed major technological advancement, industry change, and the US PropTech industry.

2000-2007 2008-2016 2017-present PropTech 1.0 PropTech 2.0 PropTech 3.0 **PROPERTY** Residential Residential & Office Residential, Office, Retail & Mixed-Use FOCUS Al & Machine Learning Basic Information Technology Internet TECH • Blockchain Popularity of PCs Mobile Devices **DRIVERS** • 5G Data analytics Big data infrastructure & software IoT & Automation Sharing economy • Full-service home brokerage • Real estate online listing & brokerage Rental services AR/VR TECH Home decoration e-commerce SaaS 3D Printing • Digital design & construction integration Smart building & smart home Robotics **TRENDS** Big data analytics · Building automation Data-driven market research · Commercial real estate marketplace Home decoration & furnishing **✓ YARDI ⊘** Zillow wework ⟨o⟩ airbnb COMPASS Opendoor KATERRA houzz **PROPTECH**

UCOMMUNE

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FIRMS

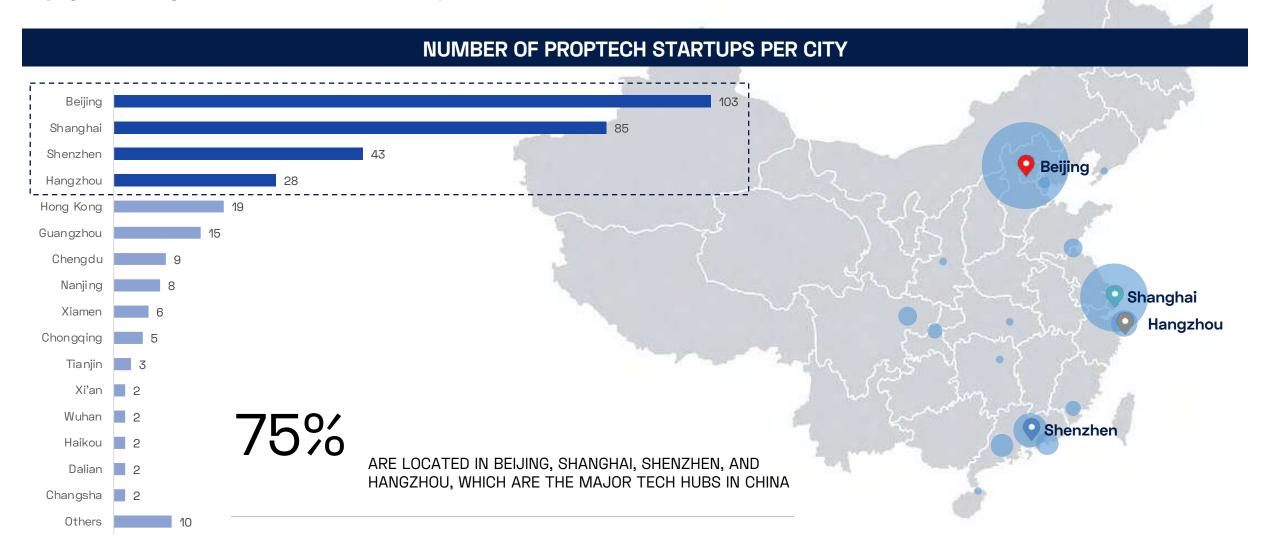
脉策科技

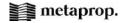
Major Players in PropTech - China vs. US

Chinese PropTech startups mimic their US counterparts with a more local business model.

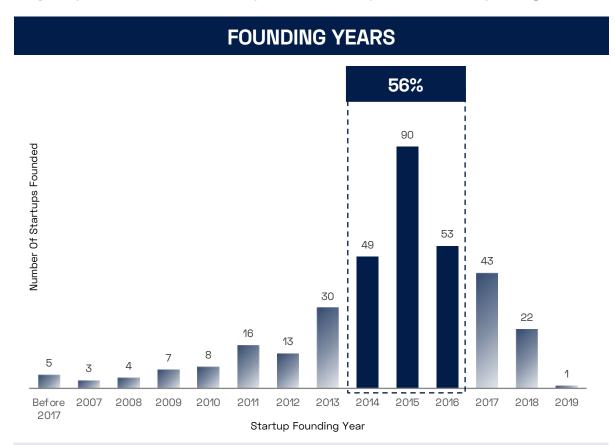


Beijing and Shanghai are the main hubs for PropTech in China.



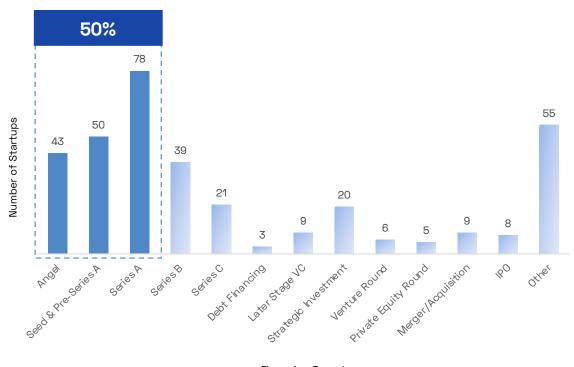


Majority of the Chinese PropTech startups are in early-stages.



The slowdown in the real estate market since 2012 and the prevalence of mobile internet have accelerated the adoption of technology in the real estate sector to create a new value proposition and increase operational efficiency.

INVESTMENT STAGE



Financing Round

Winner-takes-all. While many PropTech startups were founded to help the real estate developers transition into service-providers, most of the funding went to a few startups to build a national footprint.

Source: Pitchbook; Crunchbase

Residential sector is going through a consolidation phase, whereas commercial sector is quickly expanding.

	TOP EXITS	IN PROPTECH IN CHINA	
Company	Date	Status	Market Cap / Price (USD \$M)
○贝壳	Aug-2020	IPO on NYSE	85,400
明源秀	Sept-2020	IPO on HKSE	8,200
Q房网	Jan-2017	Acquired by Hubei Guochuang Hi-Tech Material	570
介 angpp	Nov-2019	IPO on NASDAQ	559
naked HUB Rust	Apr-2018	Acquired by The We Company	400
好屋	Sep-2016	Acquired by Zhejiang Ming Jewelry Company	350
文居客 anjuke.com	Mar-2015	Acquired by 58.com	267
要上租 ishangzu	Jan-2019	Acquired by Danke Apartment	200

Most of the IPO and M&As are in residential listing & brokerage as the	
sector goes through the consolidation phase.	

МО	MOST WELL-FUNDED PROPTECH COMPANIES						
Company	Last Financing Date	Total Raised (USD \$M)	Selected Investors				
◇贝壳	Mar-2020	3,600	Sequoia Capital, Tencent, SoftBank, Hillhouse Capital, Gaw Capital, CPPIB etc.				
ZICOM自知	Mar-2020	2,100	Sequoia Capital, Tencent, Warburg Pincus, General Atlantic, SoftBank etc.				
LIONJIO.com	Apr-2017	1,421	Huasheng Capital, Vanke, Sunac China Holdings etc.				
tuîia途家	Oct-2017	755	Lightspeed China Partners, GGV Capital, All-Stars Investment etc.				
UCOMMUNE REALS	Apr-2019	704	Gopher Asset Management, Yintai Group, Zhongrong International Trust, All-Stars Investment etc.				
◎ 魔方公寓 Mocang Apartment	Mar-2019	650	Warburg Pincus, AVIC Trust, Caisse de Depot et Placement du Quebec etc.				
○ 川猪.ĕinozhu	0ct-2018	572	Morning side Venture Capital, Legend Capital, YF Capital etc.				
第二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	Mar-2019	482	IDG Capital, Gopher Asset Management etc.				

Most well-funded PropTech startups in China are in **listing & brokerage**, short-term rental, apartment rental services, and co-working.



Major VC funds in China have been actively investing in PropTech, especially in the residential listing & brokerage sector.

			TOD VO		INIV/FQT	IN DDG	NDTEQU						
			TOP VC	s WHO	IIIVESI	IN PRU	PIECH						
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順為	Shunwei Capital	eLab phere	海那边 Hinabian	多彩投	优办 uban.com	○ 酷家玩	介 □ 丁						
58同城	58.Com	新 好租	土巴兔 Tubatu.com	daojiale.	安居客	◎ 医理動房	砂卖房						



Residential



Home Decoration





Home decoration and design platform

Founded in 2011

Raised \$234.8M from Hillhouse Capital, Shunwei Capital, GGV Capital, IDG

Rental Services Platform





020 rental services platform

Founded in 2011

Raised \$2.1B from Softbank Vision Fund, Sequoia, Tencent, Warburg Pincus, General Atlantic

Access Control





Al company focuses on facial recognition

Founded in 2014

Raised \$2.6B from Softbank, Alibaba, CDH, IDG, Qualcomm, Fidelity

Smart Home





Home security hardware and systems

Founded in 2014

Raised \$130M from Baidu Ventures, Shunwei Capital, SIG China, K2VC

Package Storage





Self-service package stations

Founded in 2015

Raised \$706.3M from CDH Investments, China Development Bank Capital, STO Express

Brokerage & Marketplace





Real estate services platform

Founded in 2017

Raised \$3.6B from SoftBank, Tencent Holdings, ZhenFund, Hillhouse, CPPIB, Sequoia

Retail

metaprop.

Indoor Navigation





Indoor map data and location-based service provider

Founded in 2012

Raised \$4.4M from TSVC and TusPark Ventures

Omnichannel





Interactive Advertisement Platform Operator

Founded in 2014

Raised \$114.7M from Orchid Asia Group, TPG

Vending Robots





Al Powered Smart Retail System

Founded in 2014

Raised \$94.8M from Greenland Group, CICC, Meridian Capital and Desun Investments

AR Shopping





Location-Based AR Shopping App

Founded in 2015

Raised \$874K from PRD Angels, SOSV and Chinaccelerator

Contactless Store





Contactless Convenience Store

Founded in 2016

Raised \$94.7M from CGV Capital, Qiming Venture, Fosun Capital, Source Code Capital

Smart Parking





Al Powered Parking Solutions

Founded in 2017

Raised \$99.4M from Sequoia China, Singularity Power Investments, ClearVue Partners, ZhenFund

Energy Efficiency





Building Energy Management

Founded in 2009

Raised \$3M from Yizhuang Hulian Fund

Leasing Marketplace





Commercial Real Estate Leasing Platform

Founded in 2015

Raised \$39M from SDIC Unity Capital, Joy Capital

Building Management





Building Asset Management SaaS

Founded in 2015

Raised **\$3M** from Sequoia China, Silicon Valley Bank, Morningside Capital

Digital Twin





Digital Twin for Buildings

Founded in 2015

Raised **\$45M** from Sense Time, Star VC, Green Pine Capital Partners

Co-Working





Co-Working Space Provider

Founded in 2014

Raised **\$704.4M** from All-Stars Investment, Yintai Group, Gopher Asset, Tianhong Asset Management, CEC Capital

Smart Building



TERMINUS 特斯联

City-Level AloT Platform

Founded in 2015

Raised **\$553M** from Everbright, IDG Capital, Sense Time, iflytek, Wanda Group



Office

Supply Chain Management





3rd Party E-Commerce Warehouse & Logistics Service Provider

Founded in 2004

Acquired by Alibaba Group in 2019 for undisclosed amount

Shared Warehouse





Shared Smart Warehouse

Founded in 2014

Raised **\$90M** from YF Capital, Baidu Ventures, GSR Ventures

IoT





Logistics-Focused IoT for Asset Tracking

Founded in 2008

Alibaba's Cainiao Network invested in YiLiu Technology to digitize entire logistics chain

Founded in 2014

Raised **\$15.6M** from CCB International, Cheetah Mobile, Matrix Partners China

Robotics





Logistics & Warehousing Robotics

Founded in 2015

Raised **\$439.4M** from CGV Capital, D1 Capital Partners, V fund Management, Warburg Pincus

Procurement

AR Wearable Devices

LLVISION

AR/VR





Digital Procurement Solutions Provider

Founded in 2018

Raised **\$19.8M** from SIE Information Industry, Investment Fund, Vision Plus Capital



Logistics



Commercial Real Estate Technology Landscape in China



C UPRETS 器土网 🍄







Residential Real Estate Technology Landscape in China





Finance Your Home



















Mortgage Lender Software

Loan Applications and Docs ———











02

Drivers for Real Estate Innovation in China

- Factors driving China's innovation in real estate
- Case Studies of Innovation in China



Five factors have been driving China's innovation in real estate

The **Government**'s push for innovation & new infrastructure.

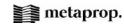
B Chinese consumers' preferences are evolving.

C Real estate firms are innovating to compete.

Chinese PropTech unicorns are catching up with the West.

E Internet giants all have a real estate playbook.







The Government's Push for Innovation & New Infrastructure

The development of technology in China is largely top-down, driven by government support and investment. One of the most significant policies is the country's plan to build out high-tech infrastructure.

Smart City & New Infrastructure

In the 19th CPC National Congress report, President Xi made the remark to build "Smart Society, Digital China, and Internet Power Strategy."

- China has become a global leader in smart city developments with plans for approximately 500 smart city pilot projects, the highest in the world.
- Xiong'an New Area is a purpose-built smart city from ground up with integrated leading-edge technologies, aiming to become the next Shenzhen.

In 2020, China committed **US\$1.4 trillion in a new infrastructure (新基建) plan**, which refers to infrastructure that is 'digital, smart, and innovative.'

• The new infrastructure includes **seven key areas**: 5G networks, industrial internet, inter-city transportation and rail system, data centers, Al, ultra-high voltage power transmission, and new-energy vehicle charging stations.

Innovation Powerhouse

Promoting innovation and entrepreneurship is one of the Chinese government's top priorities for promoting China's economic transformation and achieving global competitiveness. The State Council has a few major policies:

"Internet Plus" Policy

Integrating the Internet with traditional industries to fuel economic growth

"Made in China 2025"

Transforming China into world's leading manufacturing power in a few key sectors by 2025

"China Standards 2035"

Setting industry standards for the next generation of technologies

New Generation of Technologies

Supported by the government, China has become a key player in a few **emerging technologies**:

5G

China is leading the world in 5G technology in terms of infrastructure, applications, and commercial use.

lol

China is set to become the world's largest market for IoTs and the most active region for IoT development.

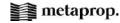
Cloud Computing In 2017, the scale of China's cloud computing reached RMB 69 B (US\$10 B) and will grow at 28% annually in the next 3 years.

Big data

In 2017, the output from China's big data market reached RMB 470 B (US\$70 B), and will reach 1 trillion (US\$149 B) in 2020.

Al

China's AI ranks among the top in the world and enjoys advantages in data collection, investment in infrastructure and government support.





Case Study: Xiong'an New Area (雄安新区), China's True Smart City



Xiong'an New Area:

Located in Hebei province in North China, approximately 130 km SW of Beijing.

- Initial phase area: 100 km²
- Target size: 2,000 km² (similar to the size of Tokyo)

Background

What's Xiong'an New Area?

- On April 1, 2017, President Xi announced a plan to transform Xiong'an in China's Hebei province into a green, innovative, and livable city by 2035. The Xiong'an New Area will be China's 19th national-level new district and new economic zone.
- The development of Xiong'An is known as a "Millennium Strategy" (千年大计). It could become the next Shenzhen and Shanghai Pudong, China's main business centers.
- It is estimated that **RMB 4 trillion** (US\$580 B) could be spent on building Xiong'an over the next two decades.

The Purpose of Xiong'an New Area:

- Facilitate the integration of Beijing-Tianjin-Hebei.
- Relocate Beijing's non-capital functions, such as colleges, hospitals, business HQs, public services, and financial services.
- Create a hub for cutting-edge technology industries, such as information technology, biotech, and new materials.
- Develop a new model of **digital urbanism**, in which technologies are integrated with infrastructure.

Smart City Initiatives

Transportation Infrastructure:

- 4 high-speed train lines will run through Xiong'an while 2 canals will
 connect Xiong'an to Beijing and Tianjin. By high-speed railway, it
 will take only 20 minutes, at a speed of 350 km/h, to travel from
 Xiong'an to Beijing's new airport in Daxing.
- RMB 600 B (US\$91 B) will be spent on building its transportation infrastructure by the end of 2020.

Urban-Tech:

- Xiong'An will develop a city information modeling platform by combining GIS, BIM, IoT, and CityGrid, a grid-level big data collection system, to create a digital twin of the city to support
- real-time decision-making.
 - The backbone of Xiong'an's **smart city infrastructure** will be 5G. Major Chinese telecom operators will use the city as a base for
- testing their 5G wireless network.
- A **smart transit system** will be built using AI to regulate traffic. The system will also integrate autonomous vehicles, mobility on demand, and bike-sharing.

Green Energy:

- Xiong'an aims to achieve 100% clean power, all powered by renewable and low-carbon energy sources. A 1,000-kilovolt power transmission line was put into operation in 2020 to use wind and solar energy from Zhangbei, Hebei Province.
- Xiong'an will build a smart energy usage system and a techenabled underground pipeline system based on IoT network.



Chinese Consumers' Preferences Are Evolving

China, the biggest mobile market in the world, has a robust mobile ecosystem, which poses a profound impact on consumers, businesses, and wider society.

High Mobile Penetration

With close to 1.2 billion subscribers and 82% penetration level, **China has the largest mobile market**. The rate of growth in mobile internet penetration reached 82%, which is on-par with the US.

	# of mobile users (2019)	Penetration Level
*;	1.17B	82%
	321M	83%

Internet Environment is Mobile First

China has the **largest e-commerce market** in the world. Most of the transactions are done on mobile phones, which has accelerated the growth of **mobile payments**.

E-commerce	Industry Size (2019)	% of Total Retail
*1	\$1.94 TRN	37%
	\$62 B	10%
Mobile Payments	# of Users (2019)	CAGR
**	577M	10%
	64M	9.1%

Rise of Sharing Economy

The digital ecosystem in China is highly integrated, blurring lines between various sectors and making China a leader in the sharing economy and home to some of the biggest startups in the world.



Largest video-sharing / content sharing company

Valuation: \$140 B



2nd largest ride-sharing company

Valuation: \$62 B



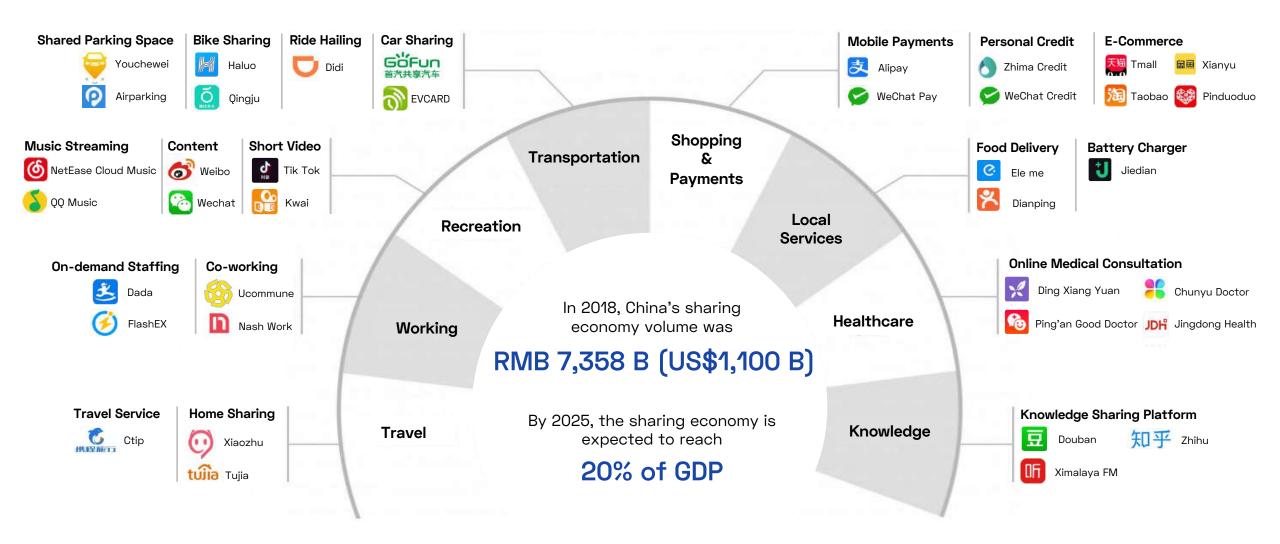
Largest food delivery company

Market Cap: \$13.7 B



Case Study: China's Sharing Economy

China is the world's largest sharing economy with startups penetrating every aspect of people's lives.



Source: chyxx.com; IT Juzi; State Information center

23

С

Real Estate Firms Are Innovating to Compete

With an increasing need for technology adoption, Chinese real estate players have adopted various innovation models to build their tech capabilities while remaining competitive.

Self-Built Teams

Given the scale of their businesses, top Chinese real estate developers are **building tech-related capabilities and businesses internally** by hiring dedicated engineering and data teams.

The main purpose of building dedicated tech business units is to create efficiency in the workflow while building new tech-enabled business lines, such as a BIM platform and construction robotics.









Tech Partnership

Some large Chinese real estate developers choose to partner with internet and tech giants such as Alibaba, Tencent, JD, and Huawei to build out their tech capabilities.

These developers can leverage the R&D capabilities of the tech companies, while sharing business insights and providing physical spaces and financial resources in the partnership.























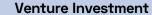


Accelerators & Venture Investment

By working with accelerator programs or investing directly in startups, some real estate developers are looking for ways to identify more innovative technology solutions.

These developers establish a joint venture with VC funds or accelerators to build an open innovation platform that tests tech solutions, usually on a smaller, but more frequent basis.

Accelerators



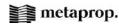














Case Study: Vanke, Greenland, JLL, Swire, and Ping An

Top-tier real estate players are building major initiatives to develop a more tech-enabled business and to undergo digital transformation.

Self-Built Teams



- Vanke set up a technology subsidiary, Wanyi Technologies (万翼科技), in 2016 to build an inhouse tech capability for Vanke.
- Wanyi's tech solutions include BIM 5D platform, Al-design platform, smart industrial park solutions, and online sales & marketing tools.
- In 2018, Wanyi partnered with Huawei to build innovation labs for smart campus scenarios and models to build an ecosystem for future industrial parks.

Tech Partnership







- Greenland Group has been pushing the "real estate + technology" business model by establishing strategic partnerships with tech companies.
- In 2019, it set up a partnership with Alibaba to build smart homes and develop industrial parks. The partnership will leverage Greenland's real estate assets and Alibaba's cloud computing, IoT, big data, and Al technologies to build the next generation of digitally enabled homes and workplaces.
- Greenland also has partnerships with Huawei and ZTE in 5G wireless networks.

Accelerators & Venture Investment









- UrbanLab (城越) is Mainland China's first PropTech corporate accelerator co-founded by Ping An Urban-Tech, JLL and Swire Properties in 2019.
- The three companies aimed to build a dedicated tech-sourcing pipeline for the Mainland China's PropTech ecosystem that could quickly identify and test new technology.
- 12 startups were selected for the accelerator. The three real estate companies worked with these startups on proof-of-concept pilots.



Source: Wanyi website; Swire Properties; Yicai Global



Chinese PropTech Unicorns Are Catching Up with the West

China has become a force to be reckoned with in many digital technologies, especially in consumer-facing industries and Fintech. The Chinese PropTech market is also catching up with the U.S in terms of number of unicorns and valuations.

				*
Company	HQ	Time Founded	Valuation (\$B)	Sector
Lianjia*	Beijing	2001	\$13	Listing & Brokerage
Ziroom	Beijing	2011	\$ 5	Apartment Rental Services
Ucommune	Beijing	2015	\$3	Co-working
Tubatu	Shenzhen	2008	\$2	Interior Design Platform
Tujia	Beijing	2011	\$2	Short-term Rental
Kr Space	Beijing	2016	\$1.48	Co-working
Kujiale	Hangzhou	2014	\$1	Home Decoration Platform
ihomefnt	Nanjing	2015	\$1	Furniture E-commerce
Mofang	Shanghai	2009	\$1	Apartment Rental Services
Xiaozhu	Beijing	2012	\$1	Short-term Rental

No. of PropTech Unicorns	10		
Major PropTech Hub	Beijing		
Major Sectors	Listing & Brokerage Apartment Rental Services		
Avg. Valuation	\$ 3 B		

				(88888)		
Company	НÓ	Time Founded	Valuation (\$B)	Sector		
Airbnb	San Francisco, CA	2008	\$1 8	Short-term Rental		
WeCompany	New York, NY	2010	\$7. 8	Co-working		
Compass	New York, NY	2012	\$6.4	Tech-enabled Broker		
Procore	Carpinteria, CA	2003	\$ 5	Construction Tech		
Houzz	Palo Alto, CA	2009	\$3. 8	Interior Design Platform		
OpenDoor	San Francisco, CA	2014	\$3. 8	i-buying		
Katerra	Menlo Park, CA	2015	\$ 3	Construction Tech		
Sonder	San Francisco, CA	2012	\$1.3	Short-term Rental		
VTS	New York, NY	2012	\$1	Leasing & Asset Mngt		
ParkJockey	Miami, FL	2013	\$1	Smart Parking		
No. of PropTech Unicorns				10		
Major P	ropTech Hub	San Francisco, NYC				
Majo	or Sectors	Short-term Rental Construction Tech				
Avg.	Valuation			\$ 5 B		



Case Study: Lianjia is Building an Integrated Housing Platform

Known as the Zillow of China, Lianjia has grown from a real estate brokerage to a comprehensive housing services platform. In August 2020, Beike (KE Holdings), Lianjia's online platform, went IPO on the NYSE.

Introduction

- Founded in 2001
- HQ in Beijing, China
- Raised **\$3.6 B** from Tencent, SoftBank, Hillhouse Capital, Sequoia, CPPIB, China Renaissance, Gaw Capital etc.
- **Description:** Lianjia is the leading real estate brokerage brand with integrated online and offline operations. Based on its gross transaction value, it is the largest home sales platform in China.

S Gross Transaction Value (2019)
of Transactions (2019)
of Agents
of Cities / Stores
Housing Dictionary
☐ Mobile MAU

RMB 2.1 Trillion (US\$301B)

2.2 M

456 K

103 / 42K

226 M Homes

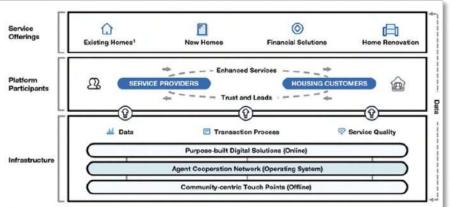
39 M

Business Model

Lianjia has created a platform which integrates online and offline housing transactions and services while offering value-added services.

- Offline: Lianjia has 42K community-centric stores in 103 different Chinese cities. The offline stores serve as an entry point for customers to generate leads.
- Online: Beike, the online platform, was established in 2018 to open the transaction and services solutions to other brokerage brands, agents, and real estate developers.
- Value-added Services: Beike's Pick (an Al-powered housing recommendation system); financial
 solutions (e.g. credit scoring, mortgage facilitation); VR property showing; home renovation services
 (e.g. interior design referrals).





Lianjia Offline Store

Beike Platform



Internet Giants All Have a Real Estate Playbook

Chinese internet giants have started to fight the offline battle in the physical space as a way to invest in new businesses and maintain high-speed growth.

Motivation

- The internet giants' interest in real estate is seen as springing from the industry's outsized role in China. They continue to find new businesses to maintain high-speed growth, especially in traditional industries with limited digitalization.
- Internet giants have strong incentives to create more use cases from their core technologies (e.g. cloud computing, big data) for which they invested heavily in the R&D process. These technologies can be applied to the physical spaces, such as smart city, smart building, and smart home.
- Tech adoption in real estate has been low in China. Besides Lianjia, there has not been any significant PropTech players for years. With Tencent being Lianjia's second-largest shareholder, all the other internet giants are racing to form their own real estate strategies.
- Internet giants increasingly view the offline space as a great place to attract customers, test new products, and accelerate the online + offline integration.

Major Strategies & Players

Real Estate + Tech Products

Leverage their existing tech capabilities (Al, IoT, cloud) and core businesses (e-commerce or social network) to build a new digital solution for the physical space or to expand existing product's application scenarios, such as:

- Baibu developed DuerOS, a Al+loT smart home platform
- Alibaba, JD.com sell residential homes on its e-commerce platform
- Tencent Haina is cloud-based property management platform and uses Wechat to connect residents









Investment & M&As

Acquire or strategically invest in a real estate tech startup to build product offerings and generate synergy with its existing digital ecosystem, such as:

- Tencent is the second-largest shareholder of Beike, China's biggest online housing transaction platform
- ByteDance acquired Xingfuli, an app that help users find properties
- Xiaomi backed more than 300 companies to form an ecosystem of loTs









Strategic Partnerships

Collaborate with local real estate developers to build tech-enabled physical spaces or invest in infrastructure, such as:

- Huawei has built partnerships with developers like Vanke, Greenland, Poly, Sino-Ocean, China resources to build industrial and office parks
- Alibaba is working with Yintai Retails to create "Intime Department Store"
- JD.com has raised a RMB1.5B (US\$218M) fund with GIC to invest in warehousing facilities













Source: Sohu; SCMP



Case Study: Alibaba's Real Estate Playbook

Alibaba is one of the most aggressive players in building a physical presence through multiple channels and asset types.

New Retail



FreshHippo

- Alibaba, the e-commerce giant, wants to use data and technology to transform retail. It created a concept called "New Retail," a strategy to redefine retail by enabling seamless engagement between the online and offline world.
- In 2016, Alibaba launched **FreshHippo** (盒马鲜生). The supermarket division is a central component of its new retail strategy. As of June 2020, FreshHippo opened **214 stores**¹, mainly in first and second tier cities in China.



In-store experience Online purchases On-

On-demand services & delivery

Smart Home



Tmall Genie

- In 2017, Alibaba launched **Tmall Genie** (天猫精灵), an Amazon Echo-like smart speaker, as part of its **smart home system products**.
- Much like Amazon's Alexa, Tmall Genie has functions such as smart home control, weather, news, and music. It features the AliGenie voice assistant and can order items from Tmall, Alibaba's e-commerce platform, through voice commands.
- Tmall Genie is China's best-selling smart speaker.
 According to IDC, 15.6 million² units were sold in 2019.



020 Brokerage





Tmall Haofang

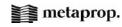
- In Sep 2020, Alibaba launched an online housing brokerage platform "Tmall Haofang" (天猫好房) with E-House, a real estate service provider. Tmall Haofang will allow developers, agents, and financial institutions to seek partnerships and offer services.
- The two parties will cooperate in areas such as online-offline real estate transaction, digital marketing and after-sale services. The platform will host online showrooms from real estate developers, allowing buyers to view the buildings on Tmall with features like live-streaming.







Tmall Haofang app



Source: 1. CMSCHINA 2. IDC

03

Cross-Border PropTech Opportunities

- Cross-Border PropTech Matrix
- __ Case Studies of Foreign Startups in China: Matterport, WeWork, Airbnb, Uber
- Cross-Border PropTech Opportunities
- China Strategies for Foreign PropTech Firms



Cross-Border PropTech Matrix

We classified foreign startups into Innovator, Adaptor, Upgrader, and Abdicator based on their tech competency relative to local rivals and their adoption propensity in the Chinese market.

a startup relative to its local competitors

Tech Competency

UPGRADER

A foreign startup which is able to outcompete its local competitors in products, services, or brand recognition.

wework

INNOVATOR

A foreign startup which is leading in tech innovation or bringing more competitive products, services, or business models to the Chinese market.



ABDICATOR

A foreign startup which experiences significant challenges in the Chinese market and eventually exits China.

UBER

ADAPTOR

A foreign startup which adapts its business model and product to the Chinese market by developing a local business strategy and team.



Adoption Propensity

The likelihood of the local market to adopt the foreign solution

metaprop.

Adoption Propensity

To evaluate the likelihood of the local market to adopt a foreign solution by assessing market size, regulations, competition, and customer preference based on:

- Market potential
- Local competition
- Economic significance
- Customer preference
- Regulatory compliance

Tech Competency

To evaluate the competitiveness of a startup's core technology, product, talents, industry applications, and value creation relative to its local competitors based on:

- Technology advantage
- Market competitiveness
- Industry usage
- Talent
- Return on investment

Innovator - 💢 Matterport™

Matterport is the market leader in 3D immersive data and virtual reality model for the built world. The firm entered China in 2017 and has been able to establish a footprint in the country by attracting local top-notch customers and building strong local channel partners.

Introduction

- Founded in 2011; HQ in San Francisco, CA, US
- Raised \$168M from Qualcomm, CBRE, Navitas Capital, DCM Ventures etc.

China Footprint

- In early 2017, Matterport launched its official China content distribution network in partnership with ChinaNetCenter. It allowed faster rendering times. Its flagship 3D Showcase media player is available in Chinese.
- In Nov 2017, Matterport partnered with Centaline Property, one of the largest real estate agencies in China. The partnership enabled Centaline's website to feature the largest number of property listings that include a VR experience.
- In March 2020, Matterport expanded its Value-Added Resellers Program. It sells Matterport's cameras and platform. Vistandard, a China-based VR provider, became its resell partner in China.
- In June 2020, Matterport announced a global agreement with Cushman & Wakefield.





Lessons in China

Best-in-class product & service

 Matterport Pro2 is the gold standard for professional 3D capture with no apparent local competitor in China.

Ouick scale-up

- Matterport acquired a top real estate agent in China as a customer. This allowed Matterport to grow rapidly in the Chinese market.
- Its global agreement with Cushman & Wakefield helps Matterport expand across the firm's global footprint.

Strategic partnerships

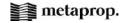
 The channel partnership with Vistandard, which also uses the Matterport SDK to develop VR tools, brings Matterport Pro2 to Hong Kong and China.

Product localization

 When it entered China, Matterport built a local distribution network and a product that supports Chinese language, allowing a better user experience.

New use case and revenue streams

 Matterport has diversified its application beyond real estate to other verticals, such as architecture, design, insurance, travel, and hospitality.



Upgrader - wework

WeWork arrived in China in 2016 at the height of the country's co-working boom. Its brand, service, chic design, local acquisitions, and partnerships have helped it lead the co-working industry in China.

Introduction

- Founded in 2010; HQ in New York, NY, US
- Raised \$20.6B from SoftBank, Benchmark, JP Morgan, Hony Capital, Goldman Sachs etc.
- WeWork China raised \$1.2B from SoftBank, Trustbridge Partners, Temasek, Legend Holdings, etc.

China Footprint

- In mid-2016, WeWork entered China and opened its first location in Shanghai. Later, WeWork formed a partnership with Sino-Ocean, a local real estate developer, using a **revenue-sharing model**.
- In 2017, WeWork received \$500M funding from SoftBank and Hony Capital for a standalone WeWork China business. Earlier in 2018, WeWork acquired Naked Hub, its local rival for \$400M. The purpose was to increase market share.
- In July 2018, WeWork China raised another \$500M from SoftBank, TrustBridge Partners, Temasek, and Hony Capital for the purpose of expanding into 6 more cities, include Shenzhen and Hangzhou.
- Throughout 2019, WeWork China accelerated its expansion, while launching WeWork Go (on-demand services) and WeWork Lab (incubator program).
- In Sep 2020, WeWork China secured a \$200M investment primarily from Shanghao based PE firm TrustBridge. It will transition into a Chineseowned company. The goal is to increase localization by seeking partnerships with local communities, real estate firms, and Chinese enterprises. By Sept 2020, WeWork China had 125 spaces in 12 cities.





WeWork China Flagship Location in Weihai Lu, Shanghai

Lessons in China

Product & business model localization

design and functioning of its product so as to be suitable to the Chinese market. E.g. they provided WeChat mini program entry, integrated mobile payment, and focused on social network engagement.

• A few of WeWork's global product offerings started in

China. E.g. WeWork Go, which was launched to cater to

Chinese market's preferences for on-demand services.

• Early during its expansion, WeWork China integrated the

Entrepreneurial corporate culture

Premium brand image & effective marketing

 WeWork China ensured the consistency of its brand in pricing, target customers, location choice, and service level.

Strategic partnerships

investment and also facilitated partnership with local real estate developers for WeWork.

WeWork China's local investors assembled a few rounds of

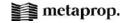
 WeWork has partnered with Alibaba Cloud to launch a onestop platform called "China Gateway" for overseas firms looking to enter China.

Local competition assessment

 The acquisition of Naked Hub enabled WeWork to become a dominant player in the high-end co-working market in China, while acquiring an experienced local team.

Quick scale-up

 Through partnership and acquisition, WeWork China quickly built a strong presence in a few major cities.



Source: Crunchbase; TechCrunch; China Money Network; SCMP

Adaptor - 🔘 airbnb

Airbnb entered China in 2014, but faced challenges during its initial years. Since 2018, Airbnb has started adopting a localized strategy and has become one of most popular short-term rental platforms in China.

Introduction

- Founded in 2008; HQ in San Francisco, CA, US
- Raised \$6.4B from Silver Lake, Sixth Street Partner, GGV, Hillhouse, Sequoia, Temasek etc.

China Footprint

- In 2014, Airbnb founded the China division. The China expansion attracted investment from top-tier Chinese VCs, such as GGV, Hillhouse, Sequoia, and Broadband.
- From 2015 to 2017, in order to expand in China, Airbnb attempted to acquire its Chinese equivalent, Xiaozhu, and merge with Tujia. But it eventually pulled out of both deals and decided to go it alone in China. During that time, Airbnb faced regulatory difficulties, dissatisfied local customers, and fierce competition from local rivals.
- 2018 was a turning point for Airbnb China as it has started to adopt a China-specific strategy. It welcomed a Chinese name (爱彼迎), hired a local team (including a CEO who is an ex-entrepreneur in tourism), integrated mobile payment platforms such as Alipay, built WeChat mini programs for customer support, and customized the website and app designs.
- By the end of 2019, Airbnb had become the 2nd largest short-rental platform after Tujia, with a 25.5% market share in China.





Airbnb China Website

Lessons in China

Product & business model localization

 Airbnb formed a local team to localize its product offering, business operations, and customer services to better cater to Chinese customers' aesthetic and functional preferences.

Entrepreneurial corporate culture

- Airbnb China's CEO is an ex-entrepreneur.
- "You can think of Airbnb China as a Chinese startup invested by Airbnb."

Premium brand image & effective marketing

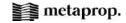
- Airbnb China has focused on differentiating itself from local rivals by building a high-end quality platform.
- Airbnb also has built effective marketing strategies that focus on attracting young professionals and families.

Strategic partnerships

 Airbnb China's investors, e.g. Sequoia, Hillhouse, Broadband, and GGV, supported Airbnb's expansion in team recruiting, government relations, and strategy planning.

Government relations & regulatory compliance

- Airbnb partnered with city governments, e.g. Beijing, Shenzhen, Chongqing, and Shanghai, to help promote their local tourism by attracting more foreign visitors.
- Airbnb China has strictly complied with local laws in data privacy, taxation, rental management, and safety control.



Source: Pitchbook; Crunchbase; Skift; SCMP

Abdicator - UBER

Uber entered China in early 2014 and quickly built a presence in 1st and 2nd-tier cities. Because of regulatory challenges and financial loss, Uber sold the China division to Didi, its local rival, in 2016 and exited the market.

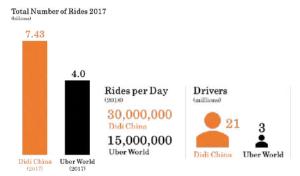
Introduction

- Founded in 2009, HQ in San Francisco, CA, US
- Raised \$28.54B from Softbank, American Express, Putman, Blackrock, Baidu, Seguoia etc.

China Footprint

- Uber piloted Uber Black in Shanghai in 2013 and formally entered China in early 2014. It founded Uber China as a separate entity, with its own funding structure.
- During 2014, Uber secured \$1.2B for its China expansion. It entered a strategic partnership with Baidu for the purpose of accelerating its expansion and improving its tech infrastructure.
- In 2014 and 2015, Uber and local competitors, especially Didi, entered into a price war. High subsidies were given to attract riders and drivers.
- In 2016, Uber added more services while integrating mobile payments and a Baidu map. By mid-2016, Uber China had entered 60+ cities. Five out of the 10 cities with the most Uber orders worldwide were in China. But Uber suffered great financial loss, a slowing growth rate, and major compliance problems. Uber was also lagging Didi in all metrics.
- In July 2016, China announced new regulations for ride-hailing which made Uber's operations in China no longer sustainable. In Aug 2016, Didi acquired Uber China for \$7B and invested \$1B in Uber. Uber formally exited China.





Didi vs. Uber

Lessons in China

Strategic partnerships

- Uber partnered with Baidu, which provided the necessary tech infrastructure and support during its initial expansion.
- Uber China's investors include state-owned insurance and financial services firms, which could add strategic value.

Quick scale-up

 Within 2 years, Uber China built a footprint in 60+ Chinese cities, and established itself as the 2nd biggest ride-hailing startup in China. The large user base unlocked potential to broaden Uber China's services.

Product & business model localization

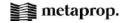
 Uber never appointed a CEO for Chinese operations because the founder did not find a suitable person. Instead, he directly led China team.

Government relations & regulatory compliance

 Uber did not build a core R&D team in China. All important product development was done by the US team, which made it fail to fully localize its products.

Local competition assessment

- When Uber entered and operated in China, there were no formal regulations on ride-hailing. Uber faced unforeseeable regulatory risks, especially related to data privacy.
- The taxi industry is strategically important to the local economy. Uber experienced regulatory challenges in every market it entered.
- Didi outcompeted Uber China in financing, product localization, service offering, and government relations.



Source: Harvard Business Review; Demystify Asia

Cross-Border PropTech Index

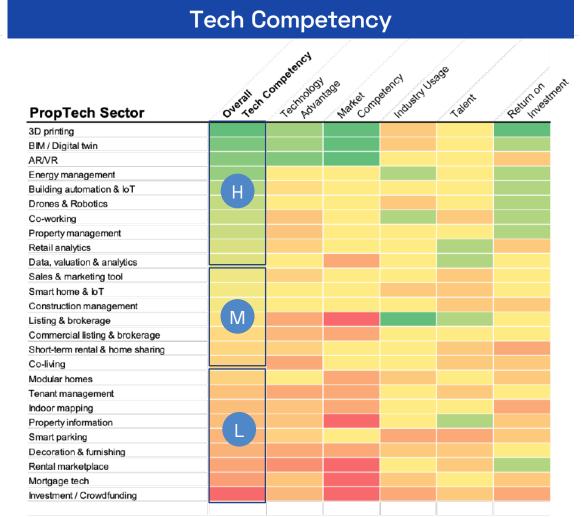
Relatively low in adoption propensity / tech competency



Relatively high in adoption propensity / tech competency

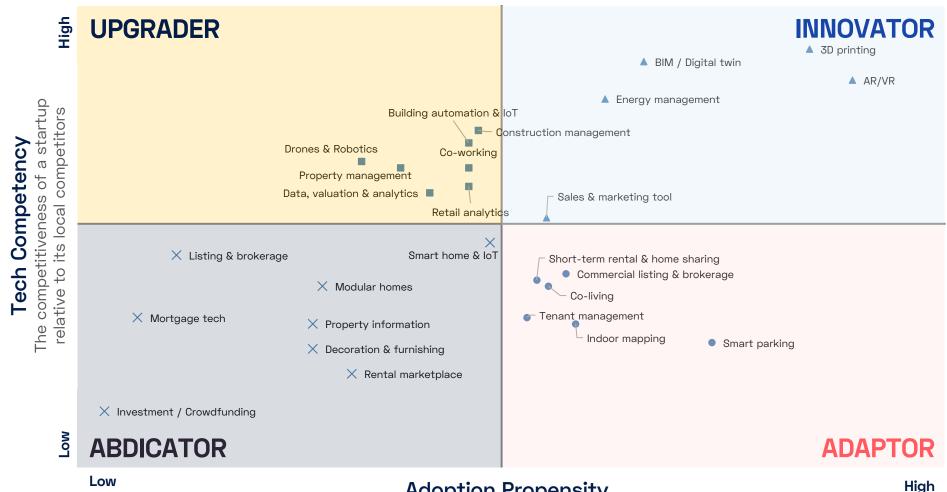
To evaluate opportunities in cross-border tech transfers, we ranked the following PropTech sectors based on their tech competency and adoption propensity.

Adoption Propensity PropTech Sector AR/VR 3D printing Smart parking BIM / Digital twin Н Energy management Indoor mapping Commercial listing & brokerage Sales & marketing tool Tenant management Co-living Construction management M Smart home & IoT Short-term rental & home sharing Co-working Building automation & IoT Retail analytics Data, valuation & analytics Property management **Drones & Robotics** Rental marketplace Modular homes Property information Decoration & furnishing Listing & brokerage Mortgage tech Investment / Crowdfunding



Cross-Border PropTech Matrix

Based on the following PropTech sectors' ranking on Adoption Propensity and Tech Competency, many sectors have the potential to build cross-border businesses with the right approach.



Adoption Propensity

The likelihood of the local market to adopt the foreign solution

metaprop.

INNOVATOR:

- 3D printing
- BIM / Digital twin
- AR/VR
- Energy management
- Sales & marketing tool

UPGRADER:

- · Building automation & IoT
- · Construction management
- Drones & Robotics
- Co-working
- Property management
- Retail analytics
- · Data, valuation & analytics

ADAPTOR:

- Short-term rental & home sharing
- Commercial listing & brokerage
- Co-living
- Tenant management
- Indoor mapping
- Smart parking

***** ABDICATOR:

- Smart Home & IoT
- Listing & brokerage
- Modular homes
- Property information
- Decoration & furnishing
- Rental marketplace
- Mortgage tech
- Investment / Crowdfunding

Cross-Border PropTech Opportunities

We identified a few PropTech startups who have the potential to become the innovator, upgrader, and adaptor in the Chinese market.

INNOVATOR



Large-Scale 3-D Printing

- Founded in 2013; HQ in Chattanooga, TN, US
- Raised \$10.05M from Bonaventure Capital, MetaProp, Brick & Mortar Ventures etc.

Ourbint

Al-powered Risk Management Platform for City Infrastructure

- Founded in 2015; HQ in New York, NY, US
- Raised \$20M from Piva, Energy Impact Partners, MetaProp, Fifth Wall, National Grid Partners etc.

UPGRADER



AI-Powered Workplace Sensor Provider

- Founded in 2017; HO in San Francisco, CA, US
- Raised \$10.6M from JLL Spark, Y-Combinator, Allegion Ventures, MetaProp, Bolt etc.

⊜∧VVIR

Automated Construction Verification and Progress Monitoring

- Founded in 2017; HQ in New York, NY, US
- Raised \$3.05M from Khosla Ventures, LocalGlobe, MetaProp, Stacked Capital etc.

ADAPTOR



Professional Tenant Experience Platform

- Founded in 2015; HQ in Boston, MA, US
- Raised \$46.8M from Insight Partners, JLL Spark, Allegion Ventures, MetaProp, and Accomplice VC etc.



Tech Enabled Corporate Housing Provider

- Founded in 2011; HQ in San Francisco, CA, US
- Raised \$106M from Initialized Capital Management, Bowery Capital, MetaProp, CEAS Investments etc.



Source: Pitchbook; Crunchbase; MetaProp

China Strategies for Foreign PropTech Startups

Potential challenges when entering China

Lack of deep knowledge about culture, market, and customers The Chinese tech landscape is diverse, competitive, and unique. It is detached from markets elsewhere in the world, and many foreign companies have been unsuccessful in China because they failed to take into account cultural barriers and consumer preferences early during their expansion.

Difficulty in navigating the regulatory environment

There is a substantial difference in the role of government in Chinese businesses compared to the West. Foreign companies in China face government, legal, and regulatory challenges, especially in a few areas where foreign firms are placed in more disadvantageous positions.

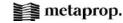
Increasingly competitive local market

Chinese local startups move fast and agilely.

The foreign startups' ability to learn and adapt quickly to the China context will be essential to compete. They can be quickly cloned if they fail to build quick wins or do not have truly unique products or services.

China Strategies

- Enter China when the market has already adopted the latest technologies in your sector to avoid spending time and resources to educate the market.
- **Find investors in China** who can help plan China-entry strategies, build networks, and recruit local teams early.
- **Build strategic partnerships** with major local real estate developers and tech players, or with a global real estate company and enter China through its businesses.
- Recruit a local leadership team with a strong entrepreneurial spirit and a deep understanding of the market.
- Localize and customize product development and business operations (especially customer support) in a way that caters to local preferences (e.g. integrate mobile payment, social media).
- Conduct regulatory due diligence and develop an in-depth understanding of laws and regulations, especially those related to collecting personal data from consumers.
- Evaluate the risks in compliance and potential regulatory changes.
- · Always play it safe and cooperate with the local authorities.
- **Keep differentiating** yourself from the local players in brand awareness, user experience, and corporate culture.
- Amplify product offerings and application scenarios in ways that attract customers beyond the real estate industry.
- Build a joint venture or acquire a local competitor so you can enter the market with existing customers during the early phase of expansion. If you go it alone, begin in first-tier cities where brand recognition and product and service quality is essential to win customers.



04

The Future of PropTech in China

- __ Trends on the Horizon of PropTech in China
- What has been learned?



Five Trends on the Horizon of PropTech in China

The rise of **super apps** in PropTech.

O2 Chinese real estate developers are becoming service-providers.

Physical assets will be digitally powered to provide omnichannel and value-driven experiences.

New technologies will unlock more applications in real estate.

Real estate giants will collaborate with tech sector to build **industry best practices**.



01

The Rise of Super Apps in PropTech

Super apps, often known as all-in-one platforms, have become synonymous with the rise of Chinese super products such as WeChat and Alipay. Each has built a multi-faceted and multi-sector digital ecosystem.





The messaging app has morphed into one of the most comprehensive digital ecosystems, hosting 1 million mini-programs that penetrate all aspects of Chinese life.





Besides mobile payment functions, Alipay offers a multitude of services such as retail, bookings, and utility bill payments via mini-apps.

What is included in a Super App?

Core Function

The super app usually acquires users through a core function, usually through messaging, mobile payment, ridehailing or food delivery.

Marketplace

As users grow, the super app integrates more services on its platform, delivered via inhouse product development and through third-party service integration.

Mini Program

External companies build their apps within the super app to leverage its existing functions, such as mobile payments and subscription accounts, without requiring users to download an additional app or change user interface.

Value of the Super App

- "Seamless, integrated, contextualized and efficient experience": The super app has integrated many third-party services. This creates value for customers and gains their loyalty. WeChat has 1 billion monthly active users and receives 29% of all time spent on mobile devices.
- Data and analytics capability: The super app has access to volumes of customer data, which can then generate insights for expanding product offerings. E.g. Alipay, as the payment method on Taobao, collects behavioral and transactional data. It used the data to build a credit-rating system through Ant Financials for personal and business loans.
- Form a digital ecosystem: By becoming a marketplace, super apps broaden the scope of their businesses without spending millions on product development. These platforms cover all aspects of daily life, providing a one-stop service while retaining the role of e-commerce (Alibaba) and social media (Tencent) as their major revenue pools.

Source: SCMP

O1 The Rise of Super Apps in PropTech

WeChat and Alipay are no longer the only super app ecosystems. Super apps are also being utilized by the PropTech sector, especially for in-home transactions and rentals services, creating a one-stop shop for home buying and renting.

Home Transactions





China's largest integrated online and offline ("020") platform for housing transactions and services.

Product & Services Offerings:

- Home sales
- Home rentals
- Home renovation
- Beike's Pick (home recommendation)
- Property information & dictionary
- Tools to engage with agents
- Agent recommendation / agent rating
- Beike Index (market price trend)
- Home valuation
- VR property showing
- Industry news
- Real estate financial solutions:
 - Bridge loans
 - Home renovation loans
 - Rental installments

Apartment Rentals





China's largest apartment rental platform provides rental and property management services.

Product & Services Offerings:

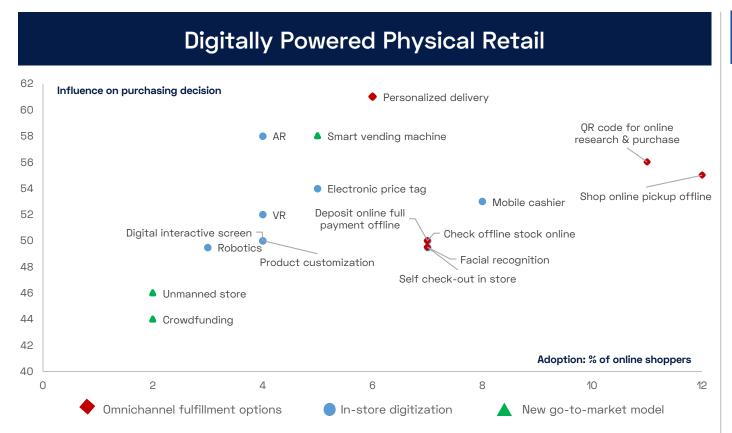
- Apartment rentals
- Short-term rental & service apartment
- Roommate searching
- Moving services
- Cleaning & maintenance services
- E-contract & mobile payment
- Utility management
- Smart home device integration
- Decoration & furnishing
- Event space rentals
- Social & community:
 - Meeta: friend-making and dating services
 - Z-Space: social events
 - Z-Lovi: dance and gym classes



02

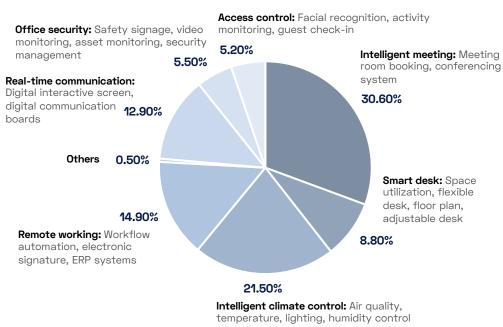
Physical Assets Will Be Digitally Powered to Provide Omnichannel and Value-Driven Experiences

Traditional real estate is being disrupted so the "physical location" no longer provides sufficient value. Real Estate developers in China are looking for ways to provide new value through data, services, and experience.

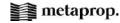


According to a McKinsey survey on Chinese online consumers, retail innovation through omnichannel fulfillment options, in-store digitization, and new go-to-market model could have big influence on their purchasing decisions.

Digitally-Powered Workplace



Based on a survey done by IFMA, office workers in China want more integrated **smart office solutions**, especially intelligent meeting and climate control, to make the workplace happier and more productive.





Physical Assets Will Be Digitally Powered to Provide Omnichannel and Value-Driven Experiences

With the help and push from technology, the physical spaces are becoming personalized, multi-functional, and green in China.



Personalized

SK-II Future X Store

Shanghai

SK-II has opened its Future X Smart Store in Shanghai, calling it the "store of the future." It uses Al and facial recognition to help customers on their beauty buying journey. A digital wall can read your facial expression and a smart booth can scan and analyze your skin to provide personalized recommendations.



Multi-Functional

Yan Jing Lane

Beijing

"Yan Jing Lane," located in Chaoyang, Beijing, is a mixed-use community which includes an apartment building (co-living), an office building (co-working), cafés, galleries, and restaurants. The space aims to create "a model of future community" for people to work, live, and socialize.

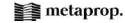


Green

Sino-Ocean Taikoo Li

Ohengdu

Taikoo Li Chengdu is now powered by 100% renewable electricity, making Swire Properties one of the first companies in Sichuan to achieve "net zero carbon" in its annual electricity consumption for landlords' and tenants' operations. This also echoes the pledge of China's target to achieve carbon neutrality before 2060.



03

Chinese Real Estate Developers Are Becoming Service Providers

As China's property development market experienced slow-downs, the real estate developers turned their focus on the next driver to profit growth – property management.

Publicly-Listed Property Management Companies

Starting in 2014, many major Chinese real estate developers spun-off their property services arms for separate IPOs:



Non-Listed Companies

A few other are yet to be publicly listed:



Vanke Services is the largest property management firm in China with services covering 3800+ projects in 101 Chinese cities.



Longfor Services is a leading property management firm and manages 132 M m² of properties.



China Resources Land Services is planning an IPO on HK's stock exchange to raise about USD 5B.



Chinese Real Estate Developers Are Becoming Service Providers

The developer-turned property managers have integrated technologies into their services aiming to create lifestyle products for their customers while increasing operational efficiency.

Positioning

Tech-powered lifestyle provider

Core Property Management Services

Community Value-Added Services

Growth Models

Service + Technology

ce + Technology Service + Ecosystem

Products & Services

- Tenant engagement app
- Property management operational system
- Smart homes & IoT system
- Al-powered access control / security
- Data analytics

- Community retail (offline stores)
- Home sales & rentals
- Home decorations
- Maintenance & cleaning services
- Media & advertising
- Cultural & education services

These major developers aim to create an integrated one-stop platform to offer "full-cycle" online and offline property management services.



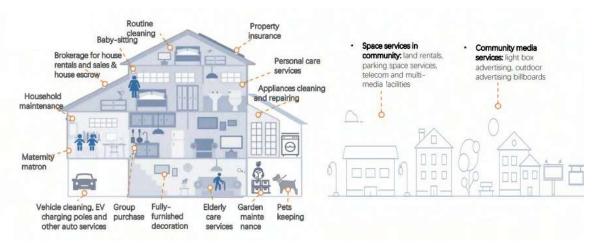
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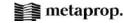
Community convenience store

Tenant engagement

Cleaning & maintenance services



Overview of community value-added services



Source: Country Garden Services 2019

New Technologies Will Unlock More Applications in Real Estate

China's urbanization rate will increase from 60% to 70% over the next decade. The population growth will increase the demand for a few emerging technologies to make cities and their physical assets more efficient and sustainable.



5G

- Autonomous vehicles
- · Drones for last mile logistics
- Remote platforms
- Remote working
- Live streaming
- AR/VR
- Smart cities



- · Real estate-specific SaaS solutions
- · Foot traffic analysis
- Site selection
- Property data platform
- Asset utilization & optimization
- Sales & marketing
- · Valuation & appraisal
- Investment & underwriting analytics
- Risk management



- BIM /Digital twin
- · VR property tour
- AR/VR Shopping
- Temperature Detection
- Remote training





Al & Machine Learning

- · Facial recognition
- · Voice assistant, chatbots
- Security robotics
- Service robotics
- · Construction robotics
- · Surveying drones
- Design
- Access control & security

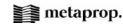


IoT

- · Indoor air quality monitoring
- Energy management system
- · Building automation
- Smart & connected home
- Asset tracking
- Smart parking
- Smart meters
- · Smart grid



- Home registry / smart contract
- Asset tokenization
- · Supply chain traceability



18



New Technologies Will Unlock More Applications in Real Estate

China is no stranger to experimenting with new kinds of technology and applying them to the real world.





5GLive-Stream
Home Selling

During COVID-19, live-stream home selling has become a trend. Many developers collaborated with **Taobao** and **Douyin** influencers to sell homes during their live stream events. Weiya, the #1 KoL on Taobao, had attracted 19 million viewers and sold 15 properties during one live-stream event.





Al Car Vending Machines

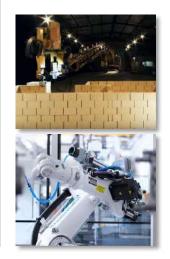
Alibaba started to sell cars through the unmanned vending machine facilities. The customers can use Taobao to scan a car they want to test, arrange a test-drive, and buy the vehicle outright via Taobao.





VR/AR
VR Property
Tour

KE Holdings or Beike has a VR property showing function called Realsee (如视) which allows customers to visit properties remotely and provides on-demand real-time agent interaction. In 2019, it had 420 million views for VR property showing.





Robotics

Construction Robotics

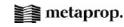
Country Garden started investing in robotics R&D in 2018, and it aims to have at least one robot at each of its sites across the nation. In 2018, it targeted to invest 16 billion yuan (US\$2.33 B) in robotics each year for five years to develop robots used for agriculture, restaurants and construction.



Real Estate Giants Will Collaborate with Tech Sector to Build Industry Best Practices.

Chinese real estate developers are undergoing digital transformation in response to emerging technologies, changing consumer behaviors, and new operating models. They will work with the tech sector proactively to set the standards for the industry.

PropTech Ecosystem in China Residential Property **Smart Building** Construction **Smart Home** New Retail **Smart Warehouse** Robotics Internet Giants Online Brokerage Management Huazhu Cloud Splus $\Lambda \square EE$ 博智林机器人 anthouse 控卓科技 CEXCEL TECH 华筑科技 Software as a CAI N!AO 無鸟 建更制 心 真机智能 ZhenRobotics ORVIBO, 安居客 KUBAN Service 上海飞未 SHANGHAI FEIWEI Alibaba.com 欧瑞博 anjuke.com (SaaS) 有赞 WYT MERCHAN 58 ▲ 爰房 模袋 MeshKit SEGI Tencent 腾讯 **Business Intelligence Platform** loT Artificial Intelligence **Big Data** Blockchain Bai d 百度 Θ CONTROL OF THE PROPERTY OF 房云链 E-Baa5 URORA Platform as a 脉策 观远数据 酮软软件 Service (PaaS) WISERViii PRICATE CRIC 公兰层链 同 被買得 2000 全天智能 人火币中国 EXTREME VISION TERMINUS 迅易科技 HUAWE JD.京东 Cambricon 软通智慧 нзс 器 阿里云 Infrastructure 寒武纪科技 as a Service mı (laaS) UCLOUD优刻得 INSDUC浪潮 Neusoft Xiaomi 百度开放云





Real Estate Giants Will Collaborate with Tech Sector to Build Industry Best Practices

A few pioneers are already building leadership roles and setting the standard in the tech-enabled real estate sectors.









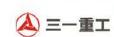












GRAPHISOFT.

ARCHICAD















Construction Robots









Property Management







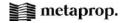
Smart Home & IoT











In Summary



Real Estate Developers

- Chinese real estate companies' digital strategies are top-down, and largely depend on government policy, the company's strategic focus, and senior management's commitment and vision.
- Given the New Infrastructure policy and the coming of 5G, more Chinese real estate players will collaborate with tech firms to develop new techenabled businesses, increase efficiency, and seek new profit and value drivers.
- Chinese developers will shift more focus on property management and use technology to reduce cost, create additional value-added services, and meet customers' growing digital needs.
- Chinese developers prefer an integrated platform which incorporates various product & service offerings to a single product & service.
- Top-tier developers have the tendency to build an internal tech ecosystem, whereas other developers will welcome more open innovation partnerships.



Customers

- All-in-one platform. Chinese customers are more likely to adopt technology solutions that have pre-built integrations and include mobile payment (Alipay, WeChat Pay), social media (Douyin, Xiaohongshu, Weibo), and social network (WeChat).
- Chinese customers have high acceptance of new digital solutions, new channels, and new experiences. But they also have low loyalty unless these solutions create real value and enhance the experience.
- First-tier cities customers are more likely to be the early adopters of PropTech solutions. These customers care about brand, product quality, service level, and personalized engagement.
- With the prevalence of Alibaba's Hema and other new retail innovations, customers will start to demand omnichannel options and experiences.



PropTech Startups

- More industry consolidation as the leading Chinese PropTech firms are building a more comprehensive tech platform that caters to the needs of multiple asset types and diversified applications.
- The Chinese PropTech industry will continue to follow the path of the US. Startups will replicate their US equivalents, but adopt a local business model.
- Chinese PropTech startups face competition from large developers and internet giants. Their ability to compete depends on their core tech competency, industry network, and product & service quality.
- Data is king. PropTech startups who have accumulated data about customers, properties, sales and business operations will be able to leverage them to build new product offerings and help businesses with decision-making.
- In the areas of consumer-facing PropTech, physical retail innovation, and 5G-related applications, China startups may lead the world.



05

China PropTech Leaders Spotlight

- Interviews with China PropTech Leaders on:
 - __ The Impact of COVID19
 - Cross-Border Opportunities and Challenges
 - Future Tech Trends



China PropTech Leaders Spotlight



Dominic Penaloza

CEO at Reinvent; Former Head of Innovation & Technology at WeWork China

REinvent is Asia's first PropTech startup studio.

WeWork is the biggest co-working startup in the world.





Larry Y.Liu

Managing Partner at Celtic House Asia Partners (CHAP)

CHAP is an early stage VC firm focusing on cross-boarder deals.





Ji Ke

Partner and Program Director at HAX

HAX is a full-stack accelerator for hardware startups.





Oi Su

Vice President at Kujiale; Founder of Modelo (Exited)

Kujiale is a SaaS-enabled home decoration and design platform. Modelo is a spatial data visualization platform acquired by Kujiale in 2020.





Dr. Ruizhe Liu

Partner and Head of Data Science & Smart Technologies at Vanke

Vanke is one of the largest residential developers in Mainland China.





Roger Tian

Vice President of Innovation & Technology at China Resources Land

China Resources Land Limited is the real estate flagship under China Resources Group. It is an integrated real estate developer in China.





Raefer Wallis

Founder and CEO of GIGA

GIGA is an international organization that evaluates the health performance of buildings.





Anthony Liu

Head of Innovation & Technology at Goodman Asia

Goodman is a global developer, owner and manager of industrial property.



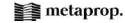


Vincent See

Head of New Ventures at Swire Properties

Swire Properties is a property developer of commercial properties in Hong Kong, Mainland China, Singapore and the US.





The Impact of COVID-19

What's the impact of COVID-19? Have you seen any tech opportunities emerge?





DOMINIC PENALOZACEO at REinvent
Former Head of Innovation &
Technology at WeWork China

"One thing that will deserve the spotlight for huge positive impact is 'Sui Shen Ma,' China's amazing speed of deployment of ubiquitous contact tracing and easy-to-use safety status. Another thing I'd be fascinated to understand is the impact on controlling virus spread attributed to China's pre-existing widespread adoption of cashless mobile payments. The third thing that I'd like to share from Shanghai, given the timing of this report, is that 'reports of the death of the office are greatly exaggerated.'



ANTHONY LIU
Head of Innovation &
Technology at Goodman Asia

"COVID-19 accelerated many trends that were already in progress. A few areas that we have been exploring/implementing include: **contactless/unmanned solutions** - robots, drones, computer vision, video analytics, thermal scanning; **Smart workplaces** - including occupancy analytics, contact tracing, facial recognition; **Delivery/on-demand everything** - partnerships with tech providers who enable this for our customers."



ROGER TIAN
Vice President of Innovation &
Technology at China
Resources Land

"COVID-19 has caused the slowdown of China's economy, which has a great impact on the real estate companies' cash flow. In the past few months, many real estate companies used our Joy+ platform (CR Land's property management app) to improve their sales capabilities. In property management, there was a big demand for **more automated operations**, especially in **security and access control**."



DR. RUIZHE LIUPartner and Head of Data
Science & Smart Technologies
at Vanke

"The impact of COVID-19 on macroeconomics and real estate will be greater than (that of) SARS. Nevertheless, we could still see some opportunities during the epidemic: **AR, VR, and panoramic technologies** are becoming mature in China; COVID-19 forces **remote and low-contact working environment**, which will probably become a new norm in the post-epidemic era. The demand for **property management** value-added services also increased, such as **community group-buying**, which may lead to the development of the community economy."



Cross-Border Opportunities and Challenges

Have you seen any successful cross-border tech applications?



DOMINIC PENALOZA
CEO at REinvent
Former Head of Innovation &
Technology at WeWork China

"Aside from **Musical.ly/TikTok**, if I have to think so hard to find examples then the answer is largely 'no.' LinkedIn can be one, but it is only widely used among 'elite professionals' in China, without being able to penetrate into more groups or lower-tier cities. **WeWork China** also has some success given it is the biggest co-working brand in China and has built a good brand image."



ANTHONY LIU
Head of Innovation &
Technology at Goodman Asia

"Bytedance is probably the most prominent success story. Their well-designed algorithms have made **TikTok** successful across many different user groups and markets."



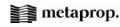
LARRY Y.LIUManaging Partner at Celtic
House Asia Partners

"I helped my own portfolio **ApplyBoard's** (ApplyBoard is an online platform for study abroad) expansion in China. We used two years to figure out the right approach and business model. Unlike our approach elsewhere in the world, we built relationships with local recruitment agencies who are the channel partners to help us generate leads. After rounds of trial and error, we found a model that works for China now. For any startup, China is hard, but a market with unlimited possibilities."



JI KEPartner and Program Director at HAX

"Open source community has done a good job in cross-border tech transfer. Open source community goes beyond the country border, and it helps us innovate as a society. That's interesting for startups, because their ability to acquire knowledge does not have a physical border. Android system, open-source algorithms, and robotics operating system can be contributed and acquired by any startups or large organizations. It's the biggest knowledge transfer for the past decades."



Cross-Border Opportunities and Challenges

Why do most foreign startups fail in China?



DOMINIC PENALOZACEO at REinvent
Former Head of Innovation &
Technology at WeWork China

"In order to even have any chance, a deep commitment from all stakeholders to localize team, strategy, decision making, and product is absolutely required. That's one of the main reasons I agreed to join WeWork when it acquired Naked Hub in April 2018. We had full commitment to build a local technology organization, localize global products, and not only create local products, but also business model innovation. The recent announcement of local investors taking majority ownership of WeWork China shows that this commitment has not changed. If anything, localization should accelerate, which will be good for the local business and local customers."



QI SUVice President, Kujiale
Founder of Model (Exited)

"In the US, companies are able to create a product that solves a single problem. You just need to be really good at what your do. Whereas **companies in China tend to need to provide more comprehensive solutions**, or at least have pre-built integrations, to solve multiple if not all problems."



LARRY Y.LIUManaging Partner at Celtic
House Asia Partners

"Lack of strong execution, especially for foreign startups who don't have a local management team. Chinese startups move very fast, so for any startups who enter China they need to understand the competitive landscape and quickly adapt. Local investors will be important for the startups' expansion because they have more market knowledge and local connection to help them build early-entry strategies."



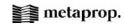
RAEFER WALLIS
Founder and CEO of GIGA

"To obtain success, the rule of thumb is 'In-China-for-China.' 60-70% of failed startups have failed because of the same reason the Chinese startups failed. Doing a startup itself is tough. On top of that, language and culture are critical factors. Another reason is their lack of focus in the Chinese market. This is a market that requires patience and time to build up your network and business."



JI KE
Partner and Program Director,
HAX

"What I have seen is many come into China trying to compete on the technological level or based on their product performance or design. This does not work because you can quickly be replicated by competitors. You need to **find a unique advantage in your brand** and create values that resonate with the local market. It also requires startups to be able to **pivot quickly and develop an agile business** model to be successful. The startups' ability to pivot fast is also one of the advantages they have over a big tech company."



Cross-Border Opportunities and Challenges

What's one type of firm you know in the U.S. that you have not seen in China yet?



DOMINIC PENALOZA
CEO at REinvent
Former Head of Innovation &
Technology at WeWork China

"Within PropTech, so far there is no clear 'CoStar of China.' So that's a \$30B USD company that has no analog in China."



ANTHONY LIU
Head of Innovation &
Technology at Goodman Asia

"WiredScore - I'd love to see something like that in China."



LARRY Y.LIU
Managing Partner at Celtic
House Asia Partners

"Stochastic B2B SaaS. In Large, China has not yet adopted the monthly subscription pricing model, but it is changing as the younger generation is used to paying for video-streaming and music platforms.

North America has way more mature B2B startups who service corporates on a subscription basis. China's SMEs will have more and more demand for stochastic B2B SaaS."



RAEFER WALLIS
Founder and CEO of GIGA

"Things about **Environment Social and Governance (ESG)** are strong globally but weak in China. In North America, investors are pushing for that: financing comes form public funds and REITs. However, those models don't exist in China. In China, ESG is considered a government problem.

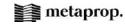
Also, China lacks data on building materials. There is no driver for demand, but it may change as some chemicals in the building may pose health risk to employees."



DR. RUIZHE LIU
Partner and Head of Data
Science & Smart
Technologies, Vanke

"I am keen to see more firms in data analytics area. **Data-driven decision-making** will be key in the future and I'd love to see more firms creating actual value.

For example, a China-based startup called Data Intelligence Times has developed a **big data analytics platform** - "Seeingflow Data" - that combines natural language with business intelligence, which allows authorized users to get instant data, charts and insight by simply asking verbal questions. I'd hope to see more of these types of firms in China."



Future Tech Trends

Which tech sectors have leapfrogged in China?



DOMINIC PENALOZA
CEO at REinvent
Former Head of Innovation &
Technology at WeWork China

"I think the question should actually be 'in which tech sectors has China not leapfrogged?' But very interestingly for PropTech, **B2B SaaS** is one such sector (that China has not leapfrogged). There's much talk about this finally changing, in line with the evolution of China's economy. Perhaps China will also be able to leapfrog in B2B SaaS as well."



JI KE
Partner and Program Director,
HAX

"There are a few. In terms of the construction tech industry, construction robotics. China exceeded in automation, supply chain, and data. There are simply enough sensory data collected by the Chinese startups to train robotics to be autonomous. In combination of the supply chain, anything from motor, to LiDAR system, to shipment of factories will enable the faster construction and deployment of the robotics. This will especially be the case when 5G rolls out in China."



RAEFER WALLIS
Founder and CEO of GIGA

"In my world, China wins in everything related to **air quality monitoring.** Due to pollution levels, China has worked on the issue since 2012 – 2013, their air purifier devices are in the fourth generation. I see Chinese producers shipping their devices and attract customers from California during the wildfire."



QI SUVice President, Kujiale
Founder of Model (Exited)

"Super app and B2C fintech. China leads in digital mobile payment. The prevalence of the credit card in the US has hindered the speed of fintech innovation. China jumped directly from cash to cashless with the help of digital payment systems."



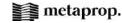
LARRY Y.LIU
Managing Partner at Celtic
House Asia Partners

"China has leapfrogged the world in the application of Al and business model innovation (super app). China's facial recognition leads due to the amount of data available to train algorithms. China's super app has penetrated people's everyday life and is being replicated in the rest of world. The China-US relations will push China to innovate more internally. The focus will be Manufacturing 4.0 and Al."



VINCENT SEE
Head of New Ventures at
Swire Properties

"We see significant advancements in Chinese technologies in two areas: consumer-facing digital products and Al. Marketing, sales and analytics based on platforms such as WeChat and Bytedance are growing faster in China than in other parts of the world."



Future Tech Trends

Are there any tech trends that you are bullish about in PropTech?



QI SUVice President, Kujiale
Founder of Model (Exited)

"Companies with massive amounts of data are able to expand their businesses into new scenarios. In Kujiale's case, we have data on millions of different renovation plans. The data help us understand customers' preferences and purchasing behaviors in home decoration and furniture. There is a lot we can do to leverage that data."



VINCENT SEEHead of New Ventures at
Swire Properties

"The increasing application of Al and loT in property operations is particularly exciting. We are also bullish about the technologies that are helping to improve sustainability in the property sector, such as energy and waste management tech."



DR. RUIZHE LIU
Partner and Head of Data
Science & Smart
Technologies, Vanke

"The application of **edge computing** in smart home, smart community and smart city. I am also excited about technologies in **sustainability and green construction** to improve the efficiency of the physical space and create a more sustainable environment. It will become important in China."



ROGER TIAN
Vice President of Innovation &
Technology at China
Resources Land

"I am optimistic about a few things: internet of things (IoTs), which plays a critical role in property management, including water, electricity and building security control; more diversified application of facial recognition; and smart parking, which is a high-frequency event in residential and commercial properties."



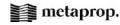
RAEFER WALLIS
Founder and CEO of GIGA

"I am bullish about Al-driven building risk assessment, which can be applied to building insurance. In-door air quality and building material valuation metrics can help insurance companies better underwrite their buildings."



ANTHONY LIU
Head of Innovation &
Technology at Goodman Asia

"Computer vision, video analytics; Automation in construction - drones, robotics, etc.; Workflow platforms and smart document management; Open platforms (the Taobao/Shopify of everything)."



Future Tech Trends

What's one startup or tech sector that has excited you recently?





DOMINIC PENALOZACEO at REinvent
Former Head of Innovation &
Technology at WeWork China

"It was exciting to see the IPO and big valuation of KE Holdings / Beike, along with Ming Yuan Cloud. I believe IPOs of Asia PropTech firms would open the eyes of many people to think about the sector. It has also been exciting to see Airbnb's response to COVID and adjustments to its IPO plans."



LARRY Y.LIU
Managing Partner at Celtic
House Asia Partners

"Xiaomi. While China has an equivalent for all the US FANG tech, the US does not have a company like Xiaomi. Xiaomi will play a role during China's Manufacturing 4.0. It has a large ecosystem of consumer electronics and, more importantly, very competitive pricing. In terms of the sector, I am interested in more value-driven use cases in robotics."



ROGER TIAN
Vice President of Innovation &
Technology at China
Resources Land

"I am excited about the future of **facial recognition**. It will unlock a lot of different use cases, especially in property management. I am waiting to see more creative and valuable applications. China is and will be a leader in it."



JI KEPartner and Program Director,
HAX

"I see a lot of opportunities for **factorization in PropTech / construction tech.** I like to draw parallel between PropTech and manufacturing. Factories have been automated for decades and are in the 4.0 phase, whereas construction still heavily relies on labor, maybe just entered the 2.0 phase. I see that changing. Examples like **LiDAR, 3D-scanning** system have been used in the factories for ages, they can be applied in construction.

Other things like robotics arms, 3D prints, security robots are being applied to the construction industry. **Pre-fab** is the ultimate factorization in construction. It is coming."





About MetaProp

MetaProp is a New York-based venture capital firm focused on the real estate technology ("PropTech") industry. Founded in 2015, MetaProp's investment team has invested in 130+ technology companies across the real estate value chain. The firm manages multiple funds for both financial and strategic real estate investors that represent a pilot- and test-ready sandbox of 15+ billion square feet across every real estate asset type and global market.

The firm's investment activities are complemented by pioneering community leadership including the <u>PropTech Place</u> innovation hub, <u>MetaProp Accelerator at Columbia University</u> programs, global events <u>NYC Real Estate Tech Week</u> and <u>Propel by MIPIM NYC</u>, and publications <u>Global PropTech Confidence Index</u> and <u>PropTech101</u>.

About the Authors



Alice Guo

Alice works in PropTech. Most recently, she was responsible for product innovation at Ping An Urban-Tech, the smart city division of China's largest insurance company. At Ping An, she co-founded UrbanLab, China's first corporate accelerator program that focuses on property technology.

Prior to that, she worked at Fifth Wall and MetaProp in PropTech venture capital. She graduated from Columbia University with a Master degree in Real Estate Development, and received her Bachelor degree in Finance from the University of British Columbia.



Troy Fan

Troy is an investment analyst at a NYC-based real estate private equity firm. Previously, he worked for Hudson Capital, where he wrote a research report on PropTech in the the APAC market. He also has internship experience at American Enterprise Institute, Boston Properties and MIT Media Lab.

Troy graduated from MIT with a Master degree in Real Estate Development. He also has a Master of Public Policy Degree from Georgetown University and a Bachelor degree in Mathematics from The University of Birmingham in the UK.



Xuan Zou

Xuan is an intern at Alibaba Ant Group with a research focus on Blockchain. At her spare time, she writes for PropTech X, an online PropTech community in China. Prior to Alibaba, she interned at the World Resource Institute and JLL.

Xuan graduated from Cornell University with a Master of Science degree in Regional Science and a Minor in Real Estate.

Special Thanks to:

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Managing Director at Country Garden Ventures

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Director at Ping An Cloud Accelerator

Philip Kong

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Han Zhu

Analytics Lead at ByteDance

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Thank You

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MetaProp

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06

Appendix

- Understanding Real Estate in China
- Cross Border Tech Assessment Guidelines
- Real Estate in China-China vs US
- Chinese PropTech Startups List



Real Estate in China – Industry Facts

01

Winners-take-all

- In China's real estate market, the **top developers capture a large share of the market**, namely Vanke, Country Garden and Evergrande have kept the top 3 spots for a while.
- In 2018, China's **Top 50** real estate firms captured **~52% of annual sales**; 51% of the land were acquired by the top 10 real estate firms ¹.

02

Multi-asset owners vs. single property developer

- Unlike property owners in the US, who are very specialized and usually operate as REITs, major Chinese
 real estate developers have a multi-asset portfolio even though their major revenue source is still
 residential development.
- E.g. **Vanke** owns and develops a portfolio of residential, rental apartments, shopping malls, logistics centers, office parks, ski resorts, senior homes, etc.

03

From developer to property manager

- The Chinese property market is entering the **consolidation phase** as sales are cooling down. Chinese real estate companies who used to operate on a business model involving fast asset turnover are now looking to **gain operational expertise and deliver better services**.
- Developers such as **Country Garden** and **Vanke** have spun off their management units, dedicated to delivering commercial and residential property management services to pursue quality growth.

04

Government is highly involved

- Real estate accounts for ~7% of China's GDP ², making it a pillar in China's economy. China's housing market thus is closely monitored by the government. Local governments manage the land resources, and the central government guides housing credit policies.
- In 2017, President Xi addressed the 19th Party Congress: "China should produce homes for living, not for speculation," aiming to curb overheated housing prices in China.
- In addition to policy involvement, many major real estate developers in China are also **state-owned enterprises** (SOEs), e.g. China Overseas, China Resources Land.



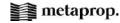
Source: 1 ChinaNews; 2 BOC International

Real Estate in China - China vs US





% of GDP (2019)	~ 7% 1	~ 12% ²
Ownership Rights	Leasehold Residential: 70 years Commercial: 50 years (except tourism)	Freehold Permanent property rights
Home Ownership (%)	~ 96% ³	~ 65% 4
Sector Focus	Residential Development	Cell towers, office, retail
Property Taxes	In order to curb the vacancy rate, China began to test property tax in several big cities, the average property tax rate is only about 0.5%. ⁵	The US has a strict collection of property taxes, which is usually 1 – 4%. Each State has its own regulations. 6
REITs	No REITs (quasi-REIT for rental properties)	REIT in each asset type
Housing Data	In China, there is no single housing data system . Each real estate developer has its own sales data, and shares the information at discretion.	Multiple Listing Service (MLS), a database established by real estate agents to provide data about residential properties for sale at a regional level.
		More diversified, include large institutional investors (e.g. pension funds,
Investors	Heavy reliance on financing from the bank and buyers' down payments.	family offices, endowment funds) and small investor who invest through REITs.



Cross-Border Tech Assessment Guidelines

Metric

Tech Competency

To evaluate the likelihood of the local market to adopt a foreign solution by assessing market size, regulations, competition, and customer preference.

	How advanced is your technology (i.e. # of patents and IPs)?
	How irreplaceable is your technology?
Technology	 Does the US have an advantage in this technology?
	How much have you invested in R&D?
	 Is your data assets market-specific? To what extent, do you require Chinese market-specific data?
	How competitive is your product & service offerings?
	Do you have alternative or adjacent solutions?
Market Competitiveness	 How much market share do you have (in the US)?
	 Are there similar players in the market (US and globally)?
	Do you have mature use cases in the real estate industry?
Industry Usage	 Do you have established strong clientele (i.e. Fortune 500, REITs)?
,	Can the hard won customers be retained easily?
-	Does this technology require your team to have deep industry connection?
Talent	 Does this technology require your team to have strong technical knowledge?
	Can you generate economic return for your customer?
Return on Investment	Can you measure the value generated by your product & services?
	Is your product / service capital intensive?

Definition

Adoption Propensity

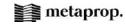
To evaluate the competitiveness of a startup's core technology, product, talents, industry applications, and value creation relative to its local competitors.

	To what extent, has the Chinese market adopted this technology / trend?
Market Potential	 To what extent, does your product / service require China-specific knowledge?
	How big is the market?
	How fast is the market growing in China?
	 How many domestic competitors do you have?
Local Competition	 How is the quality of the domestic competitors?
	 How is the China giants' engagement in this sector?
	 How important is the sector to local economy, in terms of GDP and employment?
Economic Significance	 Does policy support play a big role in this technology sector?
	 Does the legal and regulatory framework encourage competitiveness?
	How competitive is your pricing?
Customer Preference	 To what extent, does foreign firms / technology have higher perceived brand value in this sector?
	 To what extent, does your product & service localization for the Chinese market?
	 Is the ease of doing business supported by regulations in this sector?
Regulatory Compliance	How much compliance is required?
5 , p	 Does your product / services require heavy data governance and IP protection?



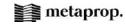
Residential (1/3)

Company Name	Chinese Name	Year Founded	HQ Location	Real Estate Application	Sector	Website
VFang	V房	2018	Beijing, China	Find your home	Agent Tool	www.davfang.com
Zmzfang.com	芝麻找房	2016	Shenzhen, China	Find your home	Agent Tool	www.zmzfang.com
Zhufangbang	住房邦	2014	Xiamen, China	Find your home	Agent Tool	www.zhufangbang.com
Hftsoft.com	好房通	2009	Chengdu, China	Find your home	Agent Tool	www.hftsoft.com
Lianjia	链家	2001	Beijing, China	Find your home	Listings & Marketplace	www.lianjia.com
Beike	贝壳	2018	Beijing, China	Find your home	Listings & Marketplace	www.ke.com/city/
Zhuge	诸葛找房	2015	Beijing, China	Find your home	Listings & Marketplace	bj.zhuge.com
- angpinghui	房品汇	2014	Shanghai, China	Find your home	Listings & Marketplace	www.fangpinhui.com
Gongxiang Xianju	共享闲居	2018	Haikou, China	Find your home	Listings & Marketplace	N/A
Haowu.com	好屋	2012	Shanghai, China	Find your home	Listings & Marketplace	shanghai.haowu.com
Kat House	吉屋	2011	Shenzhen, China	Find your home	Listings & Marketplace	www.jiwu.com
Spacious	千居	2012	Hong Kong	Find your home	Listings & Marketplace	www.spacious.hk
Meiaoju	美澳居	2014	Beijing, China	Find your home	Listings & Marketplace	www.meiaoju.com
MiaoMaiFang	秒卖房	2018	Dalian, China	Find your home	Listings & Marketplace	www.miaomaifang.com
<i>M</i> iFang	觅房	2014	Shenzhen, China	Find your home	Listings & Marketplace	www.milike.com
leoX(China)	神居秒算	2017	Shanghai, China	Find your home	Listings & Marketplace	zh.shenjumiaosuan.com
Joolu.com	有路网	2015	Beijing, China	Find your home	Listings & Marketplace	www.uoolu.com
/iiNet	维宝	2016	Shanghai, China	Find your home	Listings & Marketplace	www.viinet.com
zhen22.com	真二网	2014	Zhengzhou, China	Find your home	Listings & Marketplace	www.zhen22.com
daojiale.com	到家了网	2016	Chongqing, China	Find your home	Listings & Marketplace	cq.daojiale.com
Naijule.com	外居乐	2015	Shanghai, China	Find your home	Listings & Marketplace	www.waijule.com
_oupan.com	楼盘网	2005	Changsha, China	Find your home	Listings & Marketplace	www.loupan.com
Qfang	Q房网	2012	Shenzhen, China	Find your home	Listings & Marketplace	www.qfang.com
Mainaer.com	买哪儿	2014	Nanjing, China	Find your home	Listings & Marketplace	www.mainaer.com
angDD	房多多	2011	Shenzhen, China	Find your home	Listings & Marketplace	www.fangdd.com
_aifenyong	来分佣	2015	Xiamen, China	Find your home	Listings & Marketplace	www.laifenyong.com
Meifang.com	美房网	2011	Haikou, China	Find your home	Listings & Marketplace	www.meifang.com
Anjuke	安居客	2007	Shanghai, China	Find your home	Listings & Marketplace	www.anjuke.com
Aifang.com	58爱房	2019	Shanghai, China	Find your home	Listings & Marketplace	www.aifang.com
Julive	居理新房	2015	Beijing, China	Find your home	Listings & Marketplace	www.julive.com
Zhaofang.com	找房网	2015	Beijing, China	Find your home	Listings & Marketplace	www.zhaofang.com



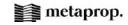
Residential (2/3)

Company Name	Chinese Name	Year Founded	HQ Location	Real Estate Application	Sector	Website
Baletu	巴乐兔	2014	Shanghai, China	Find your home	Rental Listings	www.baletoo.com
Ziroom	自如	2011	Beijing, China	Find your home	Rental Listings	www.ziroom.com
CaiHome	彩虹租房	2016	Shenzhen, China	Find your home	Rental Listings	www.jiaozula.cn
HiZhu	嗨住	2015	Shanghai, China	Find your home	Rental Listings	www.hizhu.com
iShangzu	爱上租	2015	Hangzhou, China	Find your home	Rental Listings	www.ishangzu.com
Lekaihua Interaction	乐开花互动	2016	Beijing, China	Find your home	Rental Listings	www.lekaihuahd.com
OYU Butler	欧鱼管家	2017	Beijing, China	Find your home	Rental Listings	www.1ouyu.com
Uhomes	异乡好居	2015	Tianjin, China	Find your home	Rental Listings	www.en.uhomes.com
Uoko.com	优客逸家	2012	Chengdu, China	Find your home	Rental Listings	www.uoko.com
zfx365.com	指房向	2016	Shanghai, China	Find your home	Rental Listings	www.zfx365.com
Zuber	一起租	2016	Shanghai, China	Find your home	Rental Listings	www.zuber.im
Buwenzufang	不问租房	2018	Shanghai, China	Find your home	Rental Listings	N/A
ihome	爱家	2015	Beijing, China	Find your home	Rental Listings	www.ihome-realty.com
Qiaofang	巧房科技	2013	Shanghai, China	Find your home	Tech-enabled Brokers	www.qiaofang.info
Kujiale	酷家乐	2014	Hangzhou, China	Manage property	Home Improvement	www.kujiale.com
Aijia Home Furnishing Products	艾佳生活	2015	Nanjing, China	Manage property	Home Improvement	www.ihomefnt.com
Dabanjia	打扮家	2015	Tianjin, China	Manage property	Home Improvement	www.dabanjia.com
Don Quixote	唐吉诃德	2016	Beijing, China	Manage property	Home Improvement	www.interhouse.cn
Gulch	果栖	2018	Shanghai, China	Manage property	Home Improvement	www.gulch.cn
Xiangshu	乡墅	2015	Beijing, China	Manage property	Home Improvement	www.woaixiangshu.com
YiGaiFang	易盖房	2017	Beijing, China	Manage property	Home Improvement	www.1gaifang.com
JXJhome	极享家APP	2017	Nanjing, China	Manage property	Home Improvement	www.jxjhome.com
Esheyi.com	舍艺	2016	Shanghai, China	Manage property	Home Improvement	www.esheyi.com
3vjia	三维家	2013	Guangzhou, China	Manage property	Home Improvement	www.3vjia.com
See Home	晓家	2018	Beijing, China	Manage property	Home Improvement	www.seehome.cn
Youzhuwang	有住网	2013	Qingdao, China	Manage property	Home Improvement	www.youzhu.com
Manku	满屋家居	2016	Hangzhou, China	Manage property	Home Improvement	www.mankuhome.com
Yuehouse	悦装网	2015	Beijing, China	Manage property	Home Improvement	www.263060.zhuangyi.com
Niujiaojian	牛角监	2016	Guangzhou, China	Manage property	Home Improvement	www.niujiaojianli.com
jizhuang jizhi	极装吉住	2015	Beijing, China	Manage property	Home Improvement	www.sc.cc



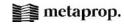
Residential (3/3)

Company Name	Chinese Name	Year Founded	HQ Location	Real Estate Application	Sector	Website
Fuwo.com(Myhome3D)	爱福窝	2013	Shanghai, China	Manage property	Home Improvement	www.fuwo.com
isheji.com	爱设计	2018	Beijing, China	Manage property	Home Improvement	www.isheji.com
YiDouTang	一兜糖	2015	Guangzhou, China	Manage property	Home Improvement	www.yidoutang.com
Bedom Group	拜登集团	2013	Shanghai, China	Manage property	Rental Management	www.bedom.cn
Dash Hong Kong	N/A	2014	Hong Kong	Manage property	Rental Management	www.dash.co/en
Lefang	房司令	2015	Nanjing, China	Manage property	Rental Management	www.58fangdai.com
H2ome	水滴管家	2016	Shanghai, China	Manage property	Rental Management	www.shuidiguanjia.com
Lucia Blockchain	Lucia	2018	Beijing, China	Manage property	Rental Management	www.lucia.vip
Kaiwan Security	铠湾安全	2014	Shenzhen, China	Manage property	Smart Home & IoT	www.szkaiwan.com
Argrace	雅观科技	2017	Hangzhou, China	Manage property	Smart Home & IoT	www.argrace.ai
LifeSmart	云起智能	2011	Hangzhou, China	Manage property	Smart Home & IoT	www.ilifesmart.com
Xpower	相舆科技	2013	Shanghai, China	Manage property	Smart Home & IoT	www.shanutec.com
MICHOI	麦驰物联	1997	Shenzhen, China	Manage property	Smart Home & IoT	www.michoi.com
Tuya	涂鸦智能	2014	Hangzhou, China	Manage property	Smart Home & IoT	www.tuya.com/cn/
BaiCells	佰才邦	2014	Beijing, China	Manage property	Smart Home & IoT	www.baicells.com
Zhujiayi	筑家易	2011	Hangzhou, China	Manage property	Smart Home & IoT	www.zje.com
Linglingkaimen	令令开门	2014	Shenzhen, China	Manage property	Smart Home & IoT	www.linglingkaimen.com
Yunding Technology	云丁	2014	Beijing, China	Manage property	Smart Home & IoT	www.yunding.cn
KaKaMaiFang	咔咔买房	2016	Beijing, China	Finance property	Alternative Financing	www.kakamf.com
Ulink Financial Service	优联金融	2015	Shenzhen, China	Finance property	Alternative Financing	N/A
haodai	好贷	2012	Beijing, China	Finance property	Digital Lender	www.haodai.com
Yooli.com	有利网	2013	Beijing, China	Finance property	Digital Lender	www.yooli.com
Rong360	融360(简普科技)	2011	Beijing, China	Finance property	Digital Lender	www.rong360.com
Banma Jiedai	斑马借贷	2017	Linyi, China	Finance property	Digital Lender	N/A
Fang Fintech	房钛科技	2017	Beijing, China	Finance property	Digital Lender	www.fangfintech.com
Huifenqi	会分期	2014	Beijing, China	Finance property	Digital Lender	www.huifengi.com
Dadao Financial Service	大道金服	2015	Shenzhen, China	Finance property	Digital Lender	www.ddjf.com
Zhongli Finance	众力金融	2015	Beijing, China	Finance property	Digital Lender	www.zhonglijinrong.cn
Anniu Technology	安牛孵化器	2016	Hangzhou, China	Finance property	Loan Application & Docs	www.kongapi.com
Ajiaji	爱家纪	2014	Shenzhen, China	Manage property	Home Improvement	www.aijiaji.com



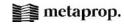
Commercial (1/8)

認書所といい。	Company Name	Chinese Name	Year Founded	HQ Location	Real Estate Application	Sector	Website
use	eju Technology	猎居科技	2017	Shanghai, China	Find property	Broker CRM & Marketing	www.lieju.tech
outlaikeJi	ushan Housing	遇善房	2014	Guangzhou, China	Find property	Broker CRM & Marketing	www.ysf.mobi
Autocom 好租 2016 Beijing, China Find property Listings & Marketplace www.hapzu.com か	-house	易居	2000	Shanghai, China	Find property	Broker CRM & Marketing	www.ehousechina.com
bian	aiTouJiaKeJi	海投家	2017	Shanghai, China	Find property	Listings & Marketplace	www.haitoujia.com
al.com 居外 2010 Hong Kong Find property Listings & Marketplace www.luwai.com mg WuYou 库房无忧 2015 Shanghai, China Find property Listings & Marketplace www.kufangwuyou.com alwaya 来拍法服 2015 Hangzhou, China Find property Listings & Marketplace www.kufangwuyou.com welfeng hybe 2015 Shenzhen, China Find property Listings & Marketplace www.haigupaix.com welfeng hybe 2015 Shenzhen, China Find property Listings & Marketplace www.haigupai.com welfeng in BERIX 2015 Beijing, China Find property Listings & Marketplace www.haigupai.com welf.com pilenja.com peligik 2015 Beijing, China Find property Listings & Marketplace www.LEPU.cn pilenja.com peligik 2015 Beijing, China Find property Listings & Marketplace www.knogjianjia.com welf.com pilenga 2015 Beijing, China Find property Listings & Marketplace www.freedia.com pilenga 2016 Xi'an, China Find property Listings & Marketplace www.freedia.com pilenga 2016 Xi'an, China Find property Listings & Marketplace www.freedia.com pilenga 2016 Hong Kong Find property Listings & Marketplace www.freedia.com property Listings & Marketplace www.free	aozu.com	好租	2015	Beijing, China	Find property	Listings & Marketplace	www.haozu.com
解似You 库房无忧 2015 Shanghai, China Find property Listings & Marketplace www.kufangwuyou.com waya 来拍法服 2015 Hangzhou, China Find property Listings & Marketplace www.kufangwuyou.com welfering 小微蜂 2015 Shanzhan, China Find property Listings & Marketplace www.kufangwuyou.com welfang.on / 小微蜂 2015 Beijing, China Find property Listings & Marketplace www.haijupai.com	nabian	海那边	2014	Shenzhen, China	Find property	Listings & Marketplace	www.hinabian.com
#Ajāka	uwai.com	居外	2010	Hong Kong	Find property	Listings & Marketplace	www.juwai.com
weifeng 小微蜂 2015 Shenzhen, China Find property Listings & Marketplace www.xiaoweifeng.cn ppai 海底派 2015 Beiling, China Find property Listings & Marketplace www.kiaipusi.com LON 系籍 2015 Beiling, China Find property Listings & Marketplace www.kEPLon gijanjia.com 空间家 2015 Beijing, China Find property Listings & Marketplace www.kEPLon gijanjia.com ppage 2015 Beijing, China Find property Listings & Marketplace www.kongjianjia.com work.com 房庭 2015 Hangzhou, China Find property Listings & Marketplace www.fema.com 上流网 2009 Changsha, China Find property Listings & Marketplace www.fema.com 上流网 2009 Changsha, China Find property Listings & Marketplace www.fema.com 上流网 2009 Changsha, China Find property Listings & Marketplace www.duliu.com www.fema.com	ufang WuYou	库房无忧	2015	Shanghai, China	Find property	Listings & Marketplace	www.kufangwuyou.com
pei 角唇脈 2015 Beijing, China Find property Listings & Marketplace www.haijupai.com you.CN	ipaiya	来拍法服	2015	Hangzhou, China	Find property	Listings & Marketplace	www.laipaiya.com
Refind 2015 Beljing, China Find property Listings & Marketplace www.LEPU.cn glianjia.com 空间家 2015 Beljing, China Find property Listings & Marketplace www.kongjianjia.com work.com 房資盘 2015 Hangzhou, China Find property Listings & Marketplace www.fspwork.com sil.com 房脉 2016 Xian, China Find property Listings & Marketplace www.f-mai.com Loom 土流网 2009 Changsha, China Find property Listings & Marketplace www.f-mai.com Listings & Marketplace www.f-mai.com www.f-m	aoweifeng	小微蜂	2015	Shenzhen, China	Find property	Listings & Marketplace	www.xiaoweifeng.cn
gijanjia.com 空间家 2015 Beijing, China Find property Listings & Marketplace www.kongjianjia.com work.com 房算盘 2015 Hangzhou, China Find property Listings & Marketplace www.fsymork.com sin.com 房脉 2016 Xi'an, China Find property Listings & Marketplace www.f-mai.com www.f-mai.com 上流网 2009 Changsha, China Find property Listings & Marketplace www.f-mai.com www.formai.com を	aijupai	海居派	2015	Beijing, China	Find property	Listings & Marketplace	www.haijupai.com
www.fspwork.com 房類盘 2015 Hangzhou, China Find property Listings & Marketplace www.fspwork.com 房脉 2016 Xi'an, China Find property Listings & Marketplace www.f-mai.com 上流网 2009 Changsha, China Find property Listings & Marketplace www.f-mai.com Listings & Marketplace www.f-mai.com Listings & Marketplace www.f-mai.com Listings & Marketplace www.cluiu.com Listings & Marketplace www.cliou.com Listings & Marketplace www.	PU.CN	乐铺	2015	Beijing, China	Find property	Listings & Marketplace	www.LEPU.cn
ai.com 房脉 2016 Xi'an, China Find property Listings & Marketplace www.f-mai.com Loom 土流网 2009 Changsha, China Find property Listings & Marketplace www.fullu.com Ycom 屋企 2010 Hong Kong Find property Listings & Marketplace www.dexy.com St.com 著巢网 2014 Shanghai, China Find property Listings & Marketplace www.zunest.com www.joy-homeplus.com January Listings & Marketplace www.diandianzu.com January Listings & Marketplace www.klongvip.com Jan	ongjianjia.com	空间家	2015	Beijing, China	Find property	Listings & Marketplace	www.kongjianjia.com
Loom 上流网 2009 Changsha, China Find property Listings & Marketplace www.tuliu.com M.com 屋企 2010 Hong Kong Find property Listings & Marketplace www.okay.com set.com 著集网 2014 Shanghai, China Find property Listings & Marketplace www.zunest.com www.joy-homeplus.com 点	pwork.com	房算盘	2015	Hangzhou, China	Find property	Listings & Marketplace	www.fspwork.com
R.com 屋企 2010 Hong Kong Find property Listings & Marketplace www.okay.com set.com 著巢网 2014 Shanghai, China Find property Listings & Marketplace www.urunest.com tomeplus 千万间 2015 Shanghai, China Find property Listings & Marketplace www.joy-homeplus.com dianzu 点点租 2014 Shenzhen, China Find property Listings & Marketplace www.diandianzu.com u.com 企租网 2017 Beijing, China Find property Listings & Marketplace www.diandianzu.com u.com 小恐龙商办 N/A Shenzhen, China Find property Listings & Marketplace www.klongvipu.com pu 优铺 2016 Beijing, China Find property Listings & Marketplace www.klongvipu.com thin property Listings & Marketplace www.klongvipu.com pu 优铺 2016 Beijing, China Find property Listings & Marketplace www.kongjianjia.com SCI 依势科技 2015 Shenyang, China Find property Listings & Marketplace www.kongjianjia.com Find property Listings & Marketplace www.kongjianjia.com www.kongjianjia.com Find property Listings & Marketplace www.kongjianjia.com SCI 依势科技 2015 Chengdu, China Find property Viewing & Imagery www.aossci.com Rala 2016 Beijing, China Find property Viewing & Imagery www.heivr.com Www.ledamake.cn Find property Viewing & Imagery www.ideamake.cn Find property Viewing & Imagery www.ideamake.cn Find property Viewing & Imagery www.ideamake.cn Find property Viewing & Imagery www.jov.com andard 中视典 2002 Shenzhen, China Find property Viewing & Imagery www.vistandard.com readerd 中视典 2002 Shenzhen, China Find property Viewing & Imagery www.vistandard.com www.vistandard.com www.vietandard.com www.vietandard.com www.vietandard.com www.vietandard.com www.vietandard.com readerd property Viewing & Imagery www.vistandard.com www.vietandard.com www.vi	Mai.com	房脉	2016	Xi'an, China	Find property	Listings & Marketplace	www.f-mai.com
ast.com 著巢网 2014 Shanghai, China Find property Listings & Marketplace www.zunest.com www.joy-homeplus.com 方方间 2015 Shanghai, China Find property Listings & Marketplace www.joy-homeplus.com 点超 2014 Shenzhen, China Find property Listings & Marketplace www.diandianzu.com 立.com 企租网 2017 Beijing, China Find property Listings & Marketplace www.dizuu.com/bj www.klongvip.com 小恐龙商办 N/A Shenzhen, China Find property Listings & Marketplace www.klongvip.com pu 优辅 2016 Beijing, China Find property Listings & Marketplace www.kongvip.com gijanjia 空间家 2015 Shenyang, China Find property Listings & Marketplace www.kongjianjia.com GCI 依势科技 2015 Chengdu, China Find property Listings & Marketplace www.kongjianjia.com Make 思为科技 2016 Beijing, China Find property Viewing & Imagery www.heivr.com Make 思为科技 2011 Shenzhen, China Find property Viewing & Imagery www.heivr.com find property Viewing & Imagery www.ideamake.cn isign 易晨VR 2016 Shenzhen, China Find property Viewing & Imagery www.imapic.ltd isign 易晨VR 2016 Shenzhen, China Find property Viewing & Imagery www.imapic.ltd property demander 中视典 2002 Shenzhen, China Find property Viewing & Imagery www.viestandard.com www.	ıliu.com	土流网	2009	Changsha, China	Find property	Listings & Marketplace	www.tuliu.com
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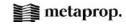
Commercial (2/8)

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e Box 简金建筑科技 2017 Shanghai, China Construct property Planning & Construction www.jane-box.com ZhuGang 建筑港 2015 Shenzhen, China Construct property Planning & Construction www.jianzhugang.com iGongBang 快工帮 2016 Hangzhou, China Construct property Planning & Construction www.zjkgwl.com CAD 送你CAD 2015 Shanghai, China Construct property Planning & Construction www.aec188.com Inghai Feiwei 飞未 2012 Shanghai, China Construct property Planning & Construction www.51jianku.com Instruction www.51jianku.com Instruction www.sixents.com Instruction www.vashare.com Instruction www.sashare.com Instru	y360	公装云	2015	Shenzhen, China	Construct property	Planning & Construction	www.gzy360.com
接籍 2015 Shenzhen, China Construct property Planning & Construction www.jianzhugang.com 快工帮 2016 Hangzhou, China Construct property Planning & Construction www.zjkgwl.com	ıaZhu Technology	华筑	2015	Xi'an, China	Construct property	Planning & Construction	www.1357.cn
Bear Panning & Construction Panning &	ne Box	简盒建筑科技	2017	Shanghai, China	Construct property	Planning & Construction	www.jane-box.com
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Reghai Feiwei 飞未 2012 Shanghai, China Construct property Planning & Construction www.51jianku.com whits Technology 六分科技 2018 Beijing, China Construct property Planning & Construction www.sixents.com www.sixents.com www.teoform.com www.teoform.com hare N/A 2017 Beijing, China Construct property Planning & Construction www.vashare.com www.vashare.com www.technology 智建管理 2015 Hangzhou, China Construct property Planning & Construction www.sbuild.cn www.sbuild.cn www.shuilntelligence 小水智能 2013 Beijing, China Construct property Planning & Construction www.aipaas.com www.aipaas.com www.aipaas.com shuilntelligence 筑条采 2014 Shanghai, China Construct property Planning & Construction www.zhujc.com	uaiGongBang	快工帮	2016	Hangzhou, China	Construct property	Planning & Construction	www.zjkgwl.com
horts Technology	ini CAD	迷你CAD	2015	Shanghai, China	Construct property	Planning & Construction	www.aec188.com
form Technology 椭圆方程 2016 Shenzhen, China Construct property Planning & Construction www.teoform.com hare N/A 2017 Beijing, China Construct property Planning & Construction www.vashare.com bkui Technology 智建管理 2015 Hangzhou, China Construct property Planning & Construction www.sbuild.cn bshui Intelligence 小水智能 2013 Beijing, China Construct property Planning & Construction www.aipaas.com JiCai 筑集采 2014 Shanghai, China Construct property Planning & Construction www.zhujc.com	nanghai Feiwei	飞未	2012	Shanghai, China	Construct property	Planning & Construction	www.51jianku.com
hare N/A 2017 Beijing, China Construct property Planning & Construction www.vashare.com bkui Technology 智建管理 2015 Hangzhou, China Construct property Planning & Construction www.sbuild.cn bshui Intelligence 小水智能 2013 Beijing, China Construct property Planning & Construction www.aipaas.com UlCai 筑集采 2014 Shanghai, China Construct property Planning & Construction www.zhujc.com	xents Technology	六分科技	2018	Beijing, China	Construct property	Planning & Construction	www.sixents.com
bkui Technology 智建管理 2015 Hangzhou, China Construct property Planning & Construction www.sbuild.cn bshui Intelligence 小水智能 2013 Beijing, China Construct property Planning & Construction www.aipaas.com UlCai 筑集采 2014 Shanghai, China Construct property Planning & Construction www.zhujc.com	oform Technology	椭圆方程	2016	Shenzhen, China	Construct property	Planning & Construction	www.teoform.com
shui Intelligence 小水智能 2013 Beijing, China Construct property Planning & Construction www.aipaas.com UiCai 筑集采 2014 Shanghai, China Construct property Planning & Construction www.zhujc.com	Share	N/A	2017	Beijing, China	Construct property	Planning & Construction	www.vashare.com
JiCai 筑集采 2014 Shanghai, China Construct property Planning & Construction www.zhujc.com	aokui Technology	智建管理	2015	Hangzhou, China	Construct property	Planning & Construction	www.sbuild.cn
	oshui Intelligence	小水智能	2013	Beijing, China	Construct property	Planning & Construction	www.aipaas.com
60.com 建筑网 2008 Hangzhou, China Construct property Planning & Construction www.cbi360.net	uJiCai	筑集采	2014	Shanghai, China	Construct property	Planning & Construction	www.zhujc.com
	oi360.com	建筑网	2008	Hangzhou, China	Construct property	Planning & Construction	www.cbi360.net



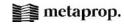
Commercial (3/8)

Company Name	Chinese Name	Year Founded	HQ Location	Real Estate Application	Sector	Website
Sheen City	光辉城市	2013	Chongqing, China	Construct property	Planning & Construction	www.sheencity.com
Zhi Jian Cloud	智建云	2007	Guangzhou, China	Construct property	Planning & Construction	www.zhijiancloud.com
HuaZhu	华筑信息	2016	Shanghai, China	Construct property	Planning & Construction	www.hz-bim.com
Meshkit	奇志科技	2013	Guangzhou, China	Construct property	Planning & Construction	www.meshkit.cn
Arcsite	设享云	2014	Shenzhen, China	Construct property	Planning & Construction	www.arcsiteapp.com
QuantUrban	量城科技	2015	Beijing, China	Construct property	Planning & Construction	www.quanturban.com
Digital Remote Sensing Technology	数字遥感科技	2016	Shenzhen, China	Construct property	Planning & Construction	N/A
One Sight	以见科技	2018	Shanghai, China	Construct property	Planning & Construction	www.yijianar.com
)ataojo	相数科技	2017	Beijing, China	Construct property	Planning & Construction	www.dataojo.com
Jnitise Building	迅铸建筑科技	2016	Shanghai, China	Construct property	Planning & Construction	N/A
China Formwork	中模	2011	Beijing, China	Construct property	Planning & Construction	www.zonmoo.com
CNFS Data	中金标准数据	2013	Beijing, China	Finance property	Comps & Valuation	www.cnfsdata.com
Dr. Rabbit	兔博士	2013	Shanghai, China	Finance property	Comps & Valuation	sh.2boss.cn
uncent	房讯通	2015	Hong Kong	Finance property	Comps & Valuation	www.fxtcn.com
Realinflo	N/A	2017	Hong Kong	Finance property	Comps & Valuation	www.realinflo.com
Yunfang Data	房估估	2013	Beijing, China	Finance property	Comps & Valuation	www.yunfangdata.com
/eztan (AICON)	智地	2016	Hong Kong	Finance property	Comps & Valuation	www.aicon.build
Creditplus (China)	中佳信	2016	Beijing, China	Finance property	Debt Financing Platforms	www.zhongjiaxin.com
BuJinSuo	固金所	2014	Shenzhen, China	Finance property	Debt Financing Platforms	www.gujinsuo.com.cn
qianbang.com	爱钱帮	2013	Beijing, China	Finance property	Debt Financing Platforms	www.iqianbang.com
VeCorp Tech	微钛科技	2017	Beijing, China	Finance property	Debt Financing Platforms	www.wecorptech.com
Dianrong	点融	2013	Shanghai, China	Finance property	Debt Financing Platforms	www.dianrong.com
Orient Bangxin	东方邦信金融科技	2013	Shanghai, China	Finance property	Debt Financing Platforms	www.bxfinance.com
lengxin	恒信网贷	2013	Liangshan, China	Finance property	Debt Financing Platforms	www.hengxindai.com
anmaoly	懒猫联银	2015	Beijing, China	Finance property	Debt Financing Platforms	www.lanmaoly.com
eashbus	现金巴士	2014	Shanghai, China	Finance property	Debt Financing Platforms	www.cashbus.com
Vaqian	挖钱网	2017	Chengdu, China	Finance property	Debt Financing Platforms	www.waqian360.com
house.com	N/A	2017	Hong Kong	Finance property	Equity Financing Platform	www.i-house.com
Vealth Migrate	N/A	2010	Hong Kong	Finance property	Equity Financing Platform	www.wealthmigrate.com
VeHome	唯家	2016	Beijing, China	Finance property	Equity Financing Platform	www.wehome.io
Duocaitou.com	多彩投	2014	Beijing, China	Finance property	Equity Financing Platform	www.duocaitou.com
Zhongchou Wangjin	中筹网金	2014	Shanghai, China	Finance property	Equity Financing Platform	www.cncrowd.com



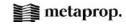
Commercial (4/8)

ompany Name	Chinese Name	Year Founded	HQ Location	Real Estate Application	Sector	Website
quefy	N/A	2017	Hong Kong	Finance property	Equity Financing Platform	www.liquefy.com
epay	信条管家	2018	Chengdu, China	Finance property	Transaction Management	www.ifepay.com
utubao	聚土网	2015	Chongqing, China	Finance property	Transaction Management	www.Jutubao.com
uxun Zhaofang	楼讯	2017	Shenzhen, China	Finance property	Transaction Management	www.louxun.com
oTong Network	摩通网络	2015	Nanjing, China	Finance property	Transaction Management	www.fcanmou.com
RETS	N/A	2018	Hong Kong	Finance property	Transaction Management	www.uprets.io
nJian.com	万间科技	2015	Tianjin, China	Manage property	BIM / Digital twin	www.vanjian.com
odelo	模袋智慧	2018	Shanghai, China	Manage property	BIM / Digital twin	www.modelo.io
bim.com	红瓦科技	2015	Shanghai, China	Manage property	BIM / Digital twin	www.hwbim.com
ocus	耘申信息	2015	Shanghai, China	Manage property	Building Automation & IoT	www.dfocuspace.com
spect	维视拍	2017	Hong Kong	Manage property	Building Automation & IoT	www.raspect.co
ing Xiaobao	旺小宝	2015	Chengdu, China	Manage property	Building Automation & IoT	www.wangxiaobao.com
ntrolsys	思控智能	2008	Shanghai, China	Manage property	Building Automation & IoT	www.controlsys.cn
ban	酷办	2016	Shanghai, China	Manage property	Building Automation & IoT	www.kuban.io
uota Energy	亿可能源	2014	Shanghai, China	Manage property	Building Automation & IoT	www.equotaenergy.com
ge0n I0T	轻停网络	2017	Beijing, China	Manage property	Building Automation & IoT	www.edgeoniot.com
ccds	查知科技	2014	Shenzhen, China	Manage property	Building Automation & IoT	www.veccds.com
Connect	巨联科技	2018	Guangzhou, China	Manage property	Building Automation & IoT	www.giconnect.cn
luna	朝创科	2016	Hong Kong	Manage property	Building Automation & IoT	www.a-sa.jp
gtai Technology	领泰科技	2017	Shanghai, China	Manage property	Building Automation & IoT	N/A
nmu Technology	边牧科技	2014	Shenzhen, China	Manage property	Building Automation & IoT	N/A
ngtiao Jieneng	丰调节能	2015	Shanghai, China	Manage property	Building Automation & IoT	N/A
е	全天智能	2016	Shenzhen, China	Manage property	Building Automation & IoT	www.24e.co
anyuan Data	观远数据	2016	Hangzhou, China	Manage property	Building Automation & IoT	www.guandata.com
in	识益生物	2014	Beijing, China	Manage property	Building Automation & IoT	N/A
shun	顺易通/捷停车	2007	Shenzhen, China	Manage property	Building Automation & IoT	www.jieshun.cn
est	盐巴科技	2015	Shanghai, China	Manage property	Building Automation & IoT	www.energyriver.com.cn
Sense	纵行科技	2013	Xiamen, China	Manage property	Building Automation & IoT	www.zifisense.co.uk
ureo	泓观科技	2015	Beijing, China	Manage property	Building Automation & IoT	www.otureo.com
inite City	无限城市	2009	Beijing, China	Manage property	Building Automation & IoT	www.infinite-city.com
conova	瑞为技术	2012	Xiamen, China	Manage property	Building Automation & IoT	www.reconova.com
rsagy	博瑞尚格	2009	Beijing, China	Manage property	Building Automation & IoT	www.persagy.com



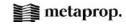
Commercial (5/8)

ompany Name	Chinese Name	Year Founded	HQ Location	Real Estate Application	Sector	Website
vision Group	远景	2008	Shanghai, China	Manage property	Building Automation & IoT	www.envision-group.com/cn/
treme Vision	极视角	2015	Nanshan, China	Manage property	Building Automation & IoT	www.extremevision.com.cn
s Winner	盈嘉互联	2015	Beijing, China	Manage property	Building Automation & IoT	www.boswinner.com
Bee Bee	爱笔	2017	Beijing, China	Manage property	Building Automation & IoT	www.aibee.com
rminus Technology	特斯连	2014	Beijing, China	Manage property	Building Automation & IoT	www.tslsmart.com
iu Technology	易流科技	2009	Shenzhen, China	Manage property	Building Automation & IoT	www.e6yun.com
duu	17度	2013	Shenzhen, China	Manage property	Leasing & Asset Management	www.17duu.com
unect	互帮国际	2010	Beijing, China	Manage property	Leasing & Asset Management	www.coushier.com
eams	匠人科技	2015	Hangzhou, China	Manage property	Leasing & Asset Management	www.creams.io
VA Property Investment	盛煦存量地产	2015	Shanghai, China	Manage property	Leasing & Asset Management	www.novaasset.biz
aoQian	乔迁之喜	2015	Beijing, China	Manage property	Leasing & Asset Management	www.qiaoqian.com
pan.com	优办	2015	Beijing, China	Manage property	Leasing & Asset Management	www.uban.com
pacesForce	原力空间	2016	Chengdu, China	Manage property	Leasing & Asset Management	www.spacesforce.com
rtalar	普塔拉科技	2016	Shenzhen, China	Manage property	Leasing & Asset Management	www.portalar.cn
encio Data Technology	见知数据	2015	Shanghai, China	Manage property	Leasing & Asset Management	www.xencio.com
een Cloud	绿云	2010	Hangzhou, China	Manage property	Property management	www.ihotel.cn
ychain Pay	N/A	2016	Hong Kong	Manage property	Property Management	www.keychainpay.com
emor Home	麦家公寓	2016	Hangzhou, China	Manage property	Property management	www.memorhome.com
gi	四格互联	2013	Shenzhen, China	Manage property	Property Management	www.segi.com
enzhen Qijia Internet Technology	小区管家	2012	Shenzhen, China	Manage property	Property Management	www.xiaoquguanjia.cn
pingfangmi	壹平方	2015	Chongqing, China	Manage property	Property management	www.1m2.net
ıxiaoer	寓小二	2015	Shanghai, China	Manage property	Property Management	www.yuxiaor.com
ongzheng Information	中正信息	2015	Shenzhen, China	Manage property	Property Management	www.zzstc.cn
deco	领筑智造	2016	Beijing, China	Manage property	Property Management	www.in-deco.com
GA .	循绿	2011	Shanghai, China	Manage property	Property Management	www.gigabase.org
ight Beacon	智石科技	2014	Chongqing, China	Manage property	Property Management	www.brtbeacon.com
Ba Hospitality	N/A	2017	Macau	Manage property	Property Management	www.sabahospitality.com
lmap	图聚智能	2012	Shanghai, China	Manage property	Property Management	www.palmap.cn
shion Tree	树融科技	2017	Shanghai, China	Manage property	Property Management	www.fusiontree.cn
aimai	麦麦养老	2014	Chengdu, China	Manage property	Property Management	www.maimai100.cn
lloufu	优服管理	2015	Beijing, China	Manage property	Property management	www.hellouf.com
ocaa	富卡	2013	Dongguan, China	Manage property	Property Management	www.foocaa.com



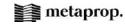
Commercial (6/8)

Company Name	Chinese Name	Year Founded	HQ Location	Real Estate Application	Sector	Website
eeder Energy	N/A	2016	Shanghai, China	Manage property	Property Management	www.seederenergy.com
Т Мар	智慧图	2011	Beijing, China	Manage property	Property Management	www.rtmap.com
outy	矩云	2017	Shanghai, China	Manage property	Sales & Marketing	www.touty.io
Irbanchain.world	UrbanChain	2016	Hong Kong	Manage property	Sales & Marketing	www.Urbanchain.world
uiba	兑吧	2014	Hangzhou, China	Manage property	Sales & Marketing	www.duiba.com.cn
Gool Hobo	胡罗舶	2015	Shenzhen, China	Manage property	Sales & Marketing	www.coolhobo.com/en/home
ianlian Technology	脸脸科技	2013	Hangzhou, China	Manage property	Sales & Marketing	www.dface.cn
see.Lab	达斯琪数字科技	2016	Nanjing, China	Manage property	Sales & Marketing	www.dseelab.com/home
hangjinglu	场景鹿	2017	Hangzhou, China	Manage property	Sales & Marketing	www.changjinglu.net
f linview	小风景	2018	Beijing, China	Manage property	Sales & Marketing	www.xfengjing.com
eeekLab	此刻装置	2014	Xiamen, China	Manage property	Sales & Marketing	www.seeeklab.com
Vinsense	赢识科技	2018	Beijing, China	Manage property	Sales & Marketing	www.winsenseos.com
rism Entertainment	棱镜光娱	2017	Hangzhou, China	Manage property	Sales & Marketing	www.mholos.com
onvertlab	营销实验室	2015	Shanghai, China	Manage property	Sales & Marketing	www.convertlab.com
adaozhichuang	大道智创	2015	Shenzhen, China	Robotics	N/A	www.dadaoii.com
eepBlue	深蓝科技	2014	Shanghai, China	Robotics	N/A	www.deepblueai.com
ventec	越凡创新科技	2017	Chengdu, China	Robotics	N/A	www.eventec.cn
xrobots	EX机器人	2013	Dalian, China	Robotics	N/A	www.exrobots.net
eekplus	极智嘉	2015	Beijing, China	Robotics	N/A	www.geekplus.com.cn
uring Video	图灵视频	2017	Beijing, China	Robotics	N/A	www.turingvideo.cn
xwise	映星智能	2018	Shanghai, China	Robotics	N/A	www.yxwise.com
hen Robotics	真机智能	2016	Beijing, China	Robotics	N/A	www.zhenrobot.com
hengjia	城家	2015	Shanghai, China	Asset utilization	Co-living	www.cjia.com
oy.u	江寓	2017	Wuhan, China	Asset utilization	Co-living	www.jiangroom.com
liMiKongJian	秘密空间	2017	Beijing, China	Asset utilization	Co-living	www.mmkongjian.com
liss F	海星租房	2016	Hangzhou, China	Asset utilization	Co-living	www.haixingzufang.cn
eX Home	领鹰	2015	Shanghai, China	Asset utilization	Co-living	www.nex-home.cn
leshare Community	微舍共享社区	2016	Shanghai, China	Asset utilization	Co-living	www.wesharelive.com
anke Apartment	蛋壳公寓	2015	Beijing, China	Asset utilization	Co-living	www.danke.com
2Ejia	E+青年公寓	2017	Nanjing, China	Asset utilization	Co-living	www.52ejia.cc
IOMC	摩码公寓	2009	Beijing, China	Asset utilization	Co-living	www.52momc.com
/leiliwu	美丽屋	2015	Beijing, China	Asset utilization	Co-living	www.meiliwu.com



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ompany Name	Chinese Name	Year Founded	HQ Location	Real Estate Application	Sector	Website
owo	go窝公寓	2015	Guangzhou, China	Asset utilization	Co-living	www.gomyroom.cn
larm+	我们家公寓	2014	Shenzhen, China	Asset utilization	Co-living	www.warmjar.com
lofang Gongyu	魔方公寓	2009	Shanghai, China	Asset utilization	Co-living	www.52mf.com.cn
Lmeet	共享际	2015	Beijing, China	Asset utilization	Co-working & Office Spaces	www.5lmeet.com
istrii	办伴	2015	Shanghai, China	Asset utilization	Co-working & Office Spaces	www.distrii.com
ountown	方糖小镇	2015	Shanghai, China	Asset utilization	Co-working & Office Spaces	www.ftown.com
r Space	氪空间	2016	Beijing, China	Asset utilization	Co-working & Office Spaces	www.krspace.cn
lixpace	米域	2016	Shanghai, China	Asset utilization	Co-working & Office Spaces	www.mixpace.com
aked Hub	裸心社	2015	Shanghai, China	Asset utilization	Co-working & Office Spaces	www.nakedhub.com
ashWork	纳什空间	2013	Beijing, China	Asset utilization	Co-working & Office Spaces	www.nashwork.com
eople Squared	联合创业办公社	2010	Shanghai, China	Asset utilization	Co-working & Office Spaces	www.people-squared.com
aise Office	乐活办公空间	2015	Shanghai, China	Asset utilization	Co-working & Office Spaces	N/A
tey	中瑞鼎峰集团	2017	Beijing, China	Asset utilization	Co-working & Office Spaces	www.stey.com
lorkTech Asia	N/A	2017	Hong Kong	Asset utilization	Co-working & Office Spaces	www.worktechasia.com
lyDreamPlus	梦想加	2015	Beijing, China	Asset utilization	Co-working & Office Spaces	www.mydreamplus.com
hinkool	星库空间	2015	Beijing, China	Asset utilization	Co-working & Office Spaces	www.thinkool.com.cn
lujie Space	无界空间	2015	Beijing, China	Asset utilization	Co-working & Office Spaces	www.wujiespace.com
13 Office	马上办公	2014	Shanghai, China	Asset utilization	Co-working & Office Spaces	www.ma3office.com
reOffice	我们办公	2015	Beijing, China	Asset utilization	Co-working & Office Spaces	weoffice.crknow.com
obest Technology	豆办科技	2016	Hangzhou, China	Asset utilization	Co-working & Office Spaces	www.51dobest.com
<i>l</i> ukongbox	悟空宝盒	2016	Shanghai, China	Asset utilization	Co-working & Office Spaces	www.wukongbox.com
nnCube	众舍空间	2015	Beijing, China	Asset utilization	Co-working & Office Spaces	www.inn-cube.com
leplus	酷窝	2015	Shanghai, China	Asset utilization	Co-working & Office Spaces	www.weplus.com
oco Space	可可空间	2013	Shanghai, China	Asset utilization	Co-working & Office Spaces	www.cocospace.com.cn
hangdihui	场地汇	2014	Beijing, China	Asset utilization	Co-working & Office Spaces	www.cdh360.com
commune	优客工场	2015	Beijing, China	Asset utilization	Co-working & Office Spaces	www.ucommune.com
ituo	奕拓融资	2012	Guangzhou, China	Asset utilization	Co-working & Office Spaces	N/A
kzone	创客天下	2015	Beijing, China	Asset utilization	Co-working & Office Spaces	www.ckzone.cn/about_us
ooqed	N/A	2016	Hong Kong	Asset utilization	Event Space	www.booqed.com
augoo	高阁	2014	Guangzhou, China	Asset utilization	Event Space	www.caugoo.com
ike Alliance	吉刻联盟	2015	Shanghai, China	Asset utilization	Event Space	www.jikealliance.com
EYS Chaosu	潮宿	2015	Shanghai, China	Asset utilization	Event Space	www.enjoykeys.com



Commercial (8/8)

Company Name	Chinese Name	Year Founded	HQ Location	Real Estate Application	Sector	Website
Man Gu Niang	慢姑娘	2018	Wuhan, China	Asset utilization	Event Space	www.mgnpd.cn
Panda Eyes	黑眼圈	2016	Shanghai, China	Asset utilization	Event Space	www.pandaeyes.club
YUNSPACE	星期网络科技	2011	Shanghai, China	Asset utilization	Event Space	www.yunspace.com.cn
lyumi.com	寓米	2013	Guangzhou, China	Asset utilization	Event Space	www.iyumi.com
Comwin Holdings	柯金	2013	Hefei, China	Asset utilization	Retail & Industrial Utilization	www.hfcomwin.cn
DuanZhu	短猪	2017	Hangzhou, China	Asset utilization	Retail & Industrial Utilization	www.duanzhu365.com
Qiatai Xinxi	洽太信息	2017	Shanghai, China	Asset utilization	Retail & Industrial Utilization	N/A
WhaleHouse	鲸仓	2014	Shenzhen, China	Asset utilization	Retail & Industrial Utilization	www.whalehouse.com
Xingbianli	猩便利	2017	Shanghai, China	Asset utilization	Retail & Industrial Utilization	www.xingbianli.com
Wangyuwangka	网鱼网咖	2013	Shanghai, China	Asset utilization	Retail & Industrial Utilization	www.wywk.cn
CityHome	城宿	2017	Beijing, China	Asset utilization	Short-term Rental	www.city-home.cn
Dingdandao	订单来了	2014	Hangzhou, China	Asset utilization	Short-term Rental	www.dingdandao.com
mamahome	旅家网络	2014	Shanghai, China	Asset utilization	Short-term Rental	www.52mamahome.com
Yiranju	宜然居	2015	Beijing, China	Asset utilization	Short-term Rental	www.yrj-ihome.com
Yuebnb	想住科技悦宿	2018	Beijing, China	Asset utilization	Short-term Rental	www.yuebnb.com
Love Palace	爱殿别墅	2015	Guangzhou, China	Asset utilization	Short-term Rental	www.lovepalace.cn
Xiaozhu	小猪	2012	Beijing, China	Asset utilization	Short-term Rental	www.xiaozhu.com
Tujia	途家	2011	Beijing, China	Asset utilization	Short-term Rental	www.tujia.com
Muniao	木鸟	2012	Beijing, China	Asset utilization	Short-term Rental	www.muniao.com
Belvedor	住百家	2012	Beijing, China	Asset utilization	Short-term Rental	N/A
Mayi.com	蚂蚁短租	2011	Beijing, China	Asset utilization	Short-term Rental	www.mayi.com
Magic House	神奇屋	2016	Guangzhou, China	Asset utilization	Unmanned store	www.tengstech.com
BingoBox	缤果盒子	2016	Zhangshan, China	Asset utilization	Unmanned store	www.bingobox.com
Hive Box	丰巢	2015	Shenzhen, China	Asset utilization	Unmanned store	www.fcbox.com
Bianlifeng	便利蜂	2016	Beijing, China	Asset utilization	Unmanned store	www.bianlifeng.com
Zone Zero	零号	N/A	N/A	Asset utilization	Unmanned store	N/A
Panda Cube	熊猫立方	2014	Shanghai, China	Asset utilization	Unmanned store	N/A
Xiaomai	小麦铺便利店	2013	Beijing, China	Asset utilization	Unmanned store	www.imxiaomai.com
F5 Future Store	F5未来商店	2014	Guangzhou, China	Asset utilization	Unmanned store	www.f5-store.com
EasyGo	EasyGo 未来便利店	2017	Guangzhou, China	Asset utilization	Unmanned store	www.ieasygo.cn
xedaojia.com	小e微店	2015	Beijing, China	Asset utilization	Unmanned store	www.xedaojia.com/web/index.html
SandStar	视达	2017	Beijing, China	Asset utilization	Unmanned store	www.sandstar.com





Thank You

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