CMB International Securities | Equity Research | Sector Update

# **China Property Sector** Could virtual property drive Metaverse to the next dimension?

Short answer is Yes. Just like the real world, we think the rapid growth of virtual property market (overall transaction has increased 15 fold from 2019-2021) would greatly help and accelerate the metaverse at an early stage. This is mainly because it will become an important/stable source of funding (sell lands/crypto) for the gaming developers and way of attracting more business users on value appreciation or commercial use purpose (like Justin Bieber's Concert, LV/Gucci's Advertisement). Although the risk of virtual real estate remains high as its ASP in major platforms has been up 8 times in just 18 months, it has added a new dimension of playing to the eco-system of Metaverse because it has sort of linked the virtual world to the real one via celebrities and companies' engagements. Together with long battle with COVID, we think the trend seems inevitable and our tech/internet analysts have selected the key beneficiary names: 1) Tech: Goertek (002241 CH, BUY) which has 25-30% exposure to Metaverse hardware. Sunny Optical (2382 HK, HOLD), BOE (000725 CN, NR). 2) Internet: Facebook (FB US, NR), Roblox (RBLX US, NR), Tencent (700 HK, BUY), ByteDance (Private company).

What is metaverse property? First, we need to understand two concepts: 1) **Metaverse** is a variety of online 3D virtual environments where people can play games, build, work and even trade crypto. 2) **Virtual property** is the equivalent of property but in metaverses. Non-Fungible Tokens (a unique set of codes that can not be forged or replicated) have been created to differentiate and formulate each unit and transaction. Players can buy/sell from primary/secondary markets in the platform and use it for both immersive residential/commercial purposes.

Who are the players in this virtual property market? 1) Land suppliers are the game developers, which provide the land plots. Leaders include Decentraland, The Sandbox (invested by Sun Hung Kai for US\$93mn), Cryptovoxels, Somnium Space. In China, there is a similar game called Honnverse, which is developed by Inmyshow (600556 CH). 2) Buyers. Major players are crypto commerce like Metaverse Group (virtual real estate company); Token.Com (NFT and metaverse real estate); Luxury brands like Louis Vuitton, Gucci, Burberry to do advertisements; celebrities like Snoop Dogg and JJ Lin; retail investors.

How are properties zoned and priced? Take Decentraland as an example. The game operator rolled out 90,601 parcels of land (48 times the size of Vatican City) on its platform with 1 parcel as minimum unit (232 sqm). They divide into different zones such as Crypto Valley (Silicon Valley), Fashion Street (Beverly hills), Gambling (Las Vegas) and so on. Then buyers can bid the land accordingly and then construct into residential/commercial areas. Or They can just buy from secondary market. After that, they can either sell or hold/operate using the digital currency "Mana" (1 Mana = USD4.59 floating). For example, Boson Protocol, a crypto business runner, bought an entire block of the gambling district of Decentraland in June21. How virtual houses are priced? Similar to real world, it is mainly based on the location and celebrity effects. For example, a house near JJ Lin's (林俊杰) has been labelled at RMB3.2mn which is equivalent to a decent unit in Manhattan or Guangzhou.

**How quickly has this market soared?** This virtual property market saw 200% CAGR from US\$400/parcel in 2019 to US\$3600/parcel in Mar21 (Figure 3) in the major platforms. In Nov21, two adjacent parcels were sold for US\$2.43mn in Decentraland, which tops the average home price in Manhattan. The rationale



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behind is mainly due to the popularity of NFT that drives both the exchange rate (MANA to USD) and home prices.

**Why would people buy?** 1) These properties can be used for real purposes. Justin Bieber performed at a live concert in Nov21 in a rented virtual land and luxury brands LV/Gucci plan to do advertisement. 2) Speculation purpose as NFT concept has driven up the value quickly.

What are the risks? 1) Technical glitch or being hacked. On 24 Nov, properties disappeared on Honnverse due to technical glitches or your accounts got hacked 2) Discontinuation of game. If the game stops being popular or get discontinued, the property vanishes. 3) Deflation of metaverse coin. If metaverse coin deflates, then the property is worth less in the real world. 4) Political risk as the country may ban the metaverse games that instigate this kind of activities.

Who are the beneficiaries in technology sector? As Metaverse/AR/VR is expanding its footprint from gaming to property, we believe technology supply chain is poised to benefit and this industry is evolving to become the next multibillion-dollar market. We identify 3 major supply chain beneficiaries: 1) Assembly: Goertek (002241 CH, BUY) as the largest VR assembly player with mainstream clients such as Facebook, Sony and Pico. 2) Optics (cameras/ fresnel lenses): Sunny Optical (2382 HK, HOLD) as the major camera lens/ module suppliers for AR/VR devices. and 3) Display: BOE (000725 CH, NR) as the leading micro-OLED panel maker to benefit from surging demand for VR/AR headsets.

Who are the beneficiaries in internet sector? Our internet analyst is also positive on the long-term development of metaverse. Given the recent acceleration on the block-chain technology, it will benefit both international players like **Facebook** (FB US, NR), **Roblox** (RBLX US, NR) and domestic players such as **Tencent** (700 HK, BUY) and **ByteDance** (Private company) due to their advantage in gaming, contents and digital assets.

What is the impact on property market in China? As the virtual property speculation is at an early stage with the relatively small size, we do not think it will move much money away from real property even if the government allows it.

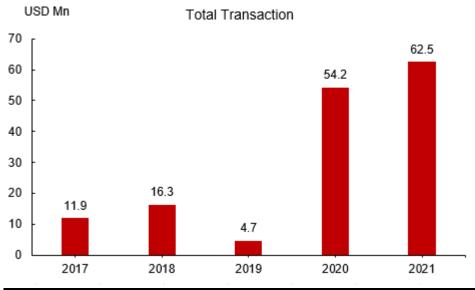
Company	Ticker	Last price	Mkt Cap	Rating	TP		P/E		P/B		P/S	
In their respective cur	rencies	(LC)	(LC mn)		(LC)	21E	22E	23E	21E	21E	22E	23E
Tech												
GOERTEK	002241 CH	52.09	177,956	BUY	47	40.3	30.2	24.4	6.8	2.3	1.7	1.4
SUNNY OPTICAL	2382 HK	232.40	254,908	HOLD	210	36.7	29.4	24.0	11.4	5.0	4.1	3.5
BOE TECHNOLOGY-A	000725 CH	4.88	185,680	NR	NA	7.6	8.1	7.1	1.5	0.9	0.8	0.7
Internet												
META	FB US	324.46	902,570	NR	NA	21.4	20.9	18.1	6.8	7.7	6.4	5.5
ROBLOX	RBLX US	126.10	72,991	NR	NA	NA	NA	992.9	122.9	26.4	22.7	18.3
TENCENT	700 HK	468.80	4,502,263	BUY	640	27.9	24.4	19.9	4.3	6.5	5.5	4.7
INMYSHOW	600556 CH	12.65	22,868	NR	NA	52.7	34.8	24.0	6.5	5.0	3.4	2.4

#### Figure 1: Comps of major beneficiaries

Source: Bloomberg, CMBIS

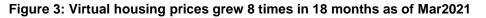






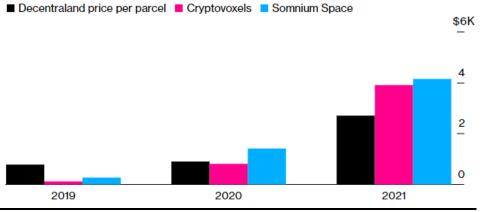
Source: NonFungible

For 2021, total transaction as of 1 Dec 2021.



# Land Rush

The price of property in the virtual world is booming



Source: NonFungible

# Figure 4: Justin Bieber used virtual property to do virtual concert



Source: Wave

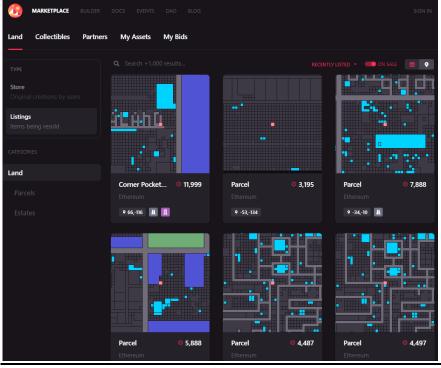


## Figure 5: LV/Gucci bought advertisement spaces in Token tower



Tokens.com has broken digital ground on a tower in Decentraland that it hopes will generate revenue from leases and advertising. Tokens.com

#### Source: Tokens.com



# Figure 6: Where to buy in Decentraland (red spot with price in each map)

Source: Decentraland

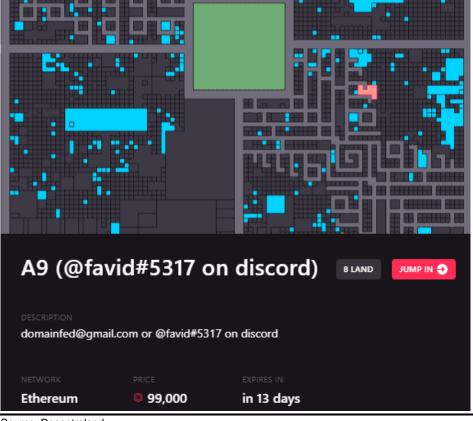
Figure 7: What is the currency? Decentraland's own crypto MANA



	nd USD (MANA Cap. Currency in USD	A-USD) 🙀 Add to	o watchlist										
4.584 As of 08:33AM UT		(-2.0307%)											
Summary (	Chart Conversat	ions Historical Data	Profile										
Previous Close	4.6535	Market Cap	8.365B	1D	5D	1M	6M	YTD	1Y	5Y	Max	ی <mark>ہ</mark> ی	Full screen
Open	4.6535	Circulating Supply	1.82B										7.0000
Day's Range	4.5057 - 4.7452	Max Supply	N/A										4.5899
52 Week Range	0.3737 - 5.9023	Volume 1,9	919,063,552										2.3333
Start Date	2017-09-17	Volume (24hr)	1.92B										
Algorithm	N/A	Volume (24hr) All Currencies	1.92B	Mar	29. 21				Au	g 2, 21		 INT.	0.0000
						ied by	@0	oinMar			-		

Source: Yahoo Finance

# Figure 8: A real case: Property adjacent to JJ Lin's house selling for 99k MANA (RMB3.2mn, RMB12k per sqm)



Source: Decentraland



# Figure 9: What the above plot looks like in the game



Source: Decentraland

# Figure 10: What will this get you in Manhattan and Guangzhou

	OPEN HOUSE, SUN 1-2 EN VIDEO	<ul> <li>         田光城三房, 户型朝南, 楼层好, 视野宽阔, 包         <ul> <li></li></ul></li></ul>	<b>300</b> 万 26,549元/平
CO-OP IN LENOX HILL G1 East 77th Street #SE \$499,000 + \$26,000 Studio   = 1 Bath Listing by Compass (30 Sth Avenue, New York, NY 10011-7624)	CO-OP IN WASHINGTON HEIGHTS 515 Edgecombe Avenue #43 \$400,000 IBed   = 1 Bath Listing by LG Fairmont Group (225 Broadway Suite 2140, New York, NY 10007)	双城国际 精装修住宅 200米到地铁站 明火 有阳台 ▶ 1949     ◎    双城国际公寓     ④    中機层 供29周   1998年建   1室1万   38平米   北     ☆    20人关注 / 5月前发布     近燃鉄    満两年    VR画教修	<b>300</b> 万 78,948元/平
		<ul> <li>翠逸家园 精装两房 高层东南向 (#注目/2)</li> <li>☞ 踏念家園</li> <li>命 崎振 供17周   2000年違   2査2万   76.23平米   东南</li> <li>介 89人关注 / 3年前货布</li> <li>▼R勝選</li> </ul>	<b>300</b> 万 39,355元/平
CO-OP IN CENTRAL PARK SOUTH 150 Central Park South #1108 \$475,000 Studio. 1 = 1 Bath Listing by Avaton Partners NY (3 Columbus Circle, New York, NY 10019)	CO-OP IN WEST VILLAGE 304 West 10th Street #2A \$489,000 Studio   = 1 Bath Lising by Compass (90 5th Avenue, New York, NY 10011-7624)	<ul> <li>温馨三房 户型方正 北向望花园 位置安静 交通便利</li> <li>○ 演江録園</li> <li>△ 飯媛慶 供11局   2004年達   3室2万   110.5平米   北</li> <li>☆ 64人共主 / 2年前設布</li> </ul>	<b>300</b> 万 27,150元/平

Source: Streeteasy



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