# Mirae Asset Hang Seng TECH ETF

(An open-ended scheme replicating/tracking Hang Seng TECH Total Return Index)

# Mirae Asset Hang Seng TECH ETF Fund of Fund

(An open-ended fund of fund scheme predominantly investing in units of Mirae Asset Hang Seng TECH ETF)



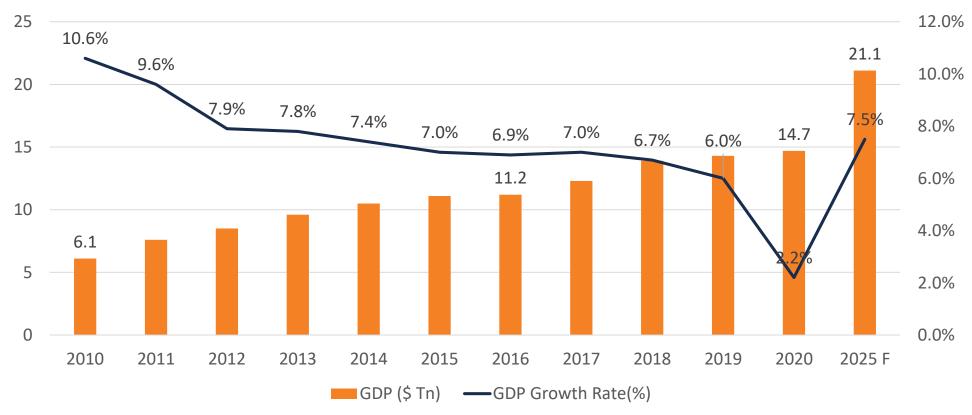
## China and World: An inter-linked relationship



#### Over last two decade or so, China has achieved global scale by integrating itself and increasing world's exposure to China.

Source: McKinsey Global Institute, China and the World, Inside the dynamic of a changing relationship, 2019

#### China : Set to enter multiplier zone on the backdrop of last decade

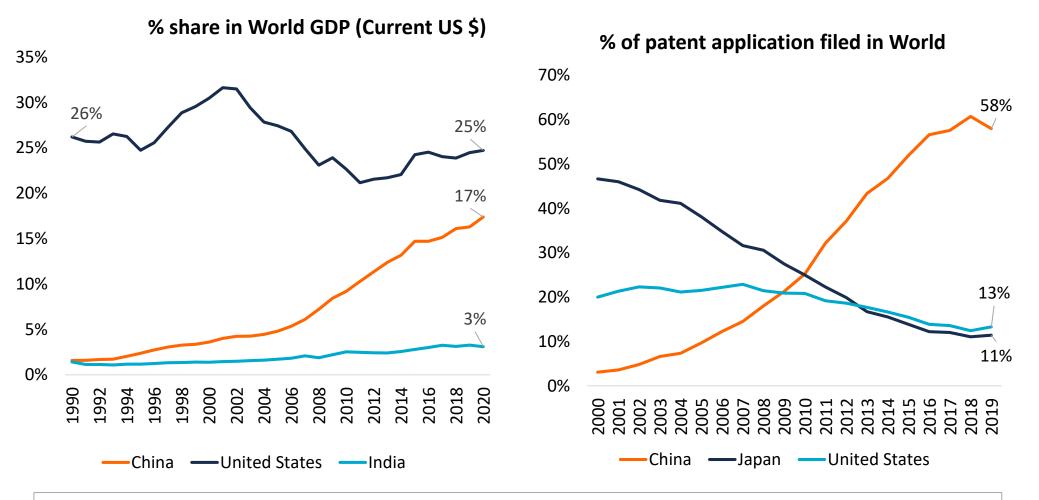


#### China and its GDP Growth Story

# China's GDP in current term has increased from 6.1 USD Tn (2010) to 14.7 Tn (2020) clocking on average growth of 9.2% per annum vis-à-vis 4.6% per annum growth registered by India during the same period.

Source: World Bank Data base, GDP is denominated in Current US \$, Data as on Dec, 2021, Forecast data is as per Statista Dec 31, 2021, GDP stands for Gross Domestic Product China Nominal GDP NSAAR; Goldman Sachs Investment Research Macro Outlook 2022

### China : Increasing it's share of global economy and innovation

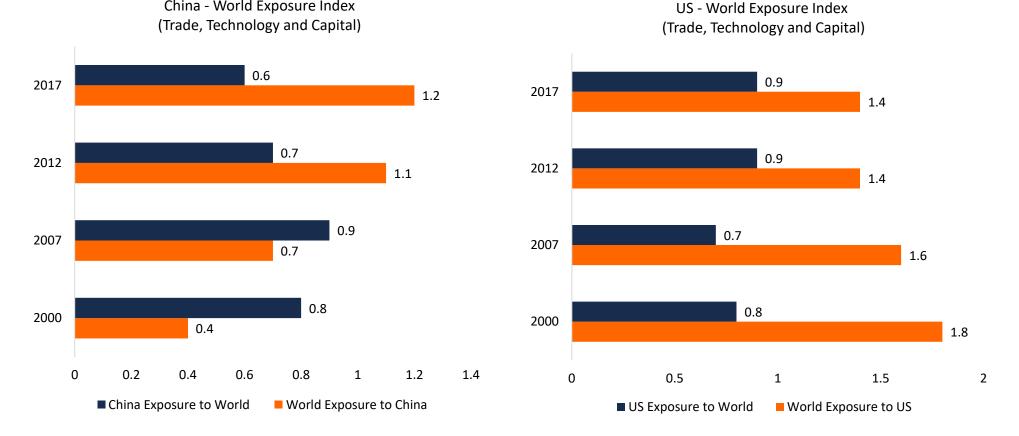


In last three decade, China's share in World GDP has increased from 3% (1990) to 17% (2020) bridging the gap between United States and China contribution to world GDP.

Source: World Bank Data base, GDP is denominated in Current US \$, Data as on Dec 31, 2021

## China's exposure to world in terms of Trade, Technology and Capital is significant

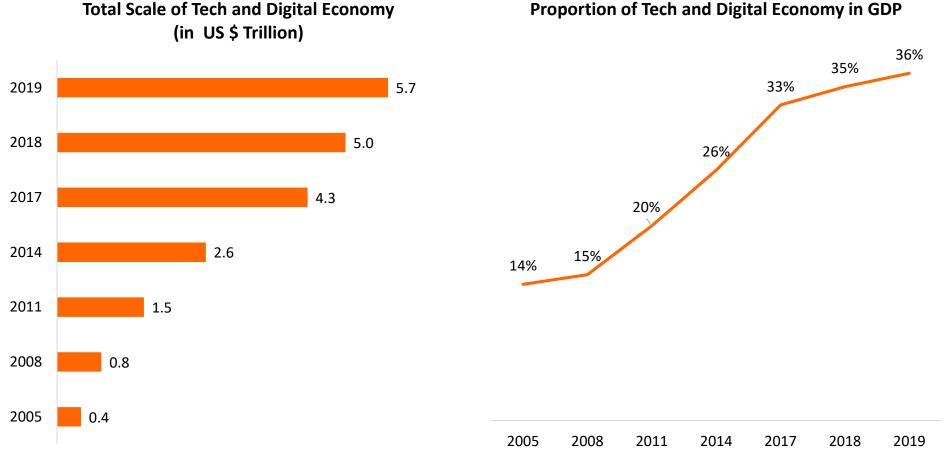
China - World Exposure Index



#### In last two decade, China's exposure to World has increased whereas US exposure to World has remained relatively stable as per McKinsey Global Institute China World Exposure Index

Source: McKinsey Global Institute, China and the World, Inside the dynamic of a changing relationship, 2019, We set a value of 1.0 as an average exposure index between the world and seven large economies (China, France, Germany, India, Japan, the United Kingdom, and the United States): a value greater than 1.0 suggests the world is more exposed to China than to the seven large economies, on average, whereas a value less than 1.0 suggests the world is less exposed to China than to the seven large economies.

## China's Tech and digital economy has grown significantly



#### **Proportion of Tech and Digital Economy in GDP**

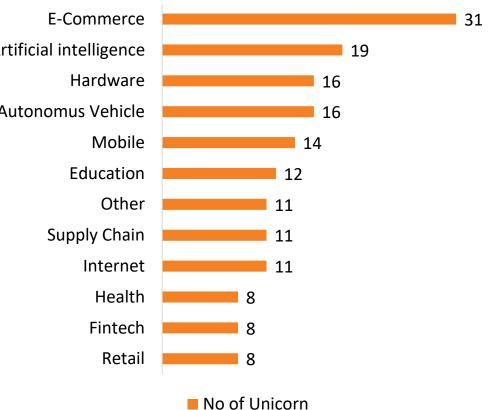
#### Tech and Digital Economy has paved its way toward contributing to the China's overall GDP exponentially. It is expected to lead in the coming years towards country GDP's

Source: Digital Economy Development in China Report, China Academy of Information and Communication Technology, July 2020 Report

## Rise in digital economy has resulted in boom in Tech led start-up unicorn

Country	Unicorn Companies	Valuation ( in US \$ Bn)	
United States	424	1384	_
China	165	544	A
India	41	137	
United Kingdom	33	143	-
Germany	19	49	Α
Israel	18	28	-
France	17	34	-
Canada	16	39	-
Brazil	13	58	-
Singapore	12	29	-
South Korea	11	25	-
Hong Kong	7	34	-
Australia	6	49	_
Japan	6	9	_
Others	60	185	-
Total	848	2,748	

#### Focus area of Chinese Unicorn



China's is now ranked 2<sup>nd</sup> in terms of facilitating number of unicorn companies across the globe with major focus on consumer driven technology companies

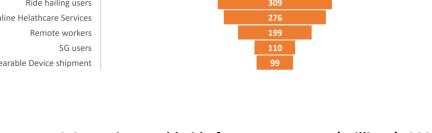
Source: CB Insights, All Data as on Sep 30, 2021

## China Tech companies are catering to huge opportunity set

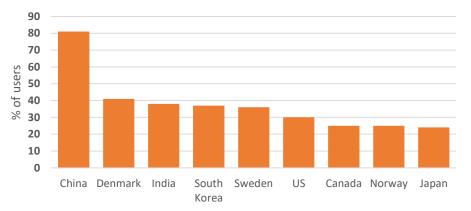
#### 6000 Total Internet users Online Video users 5000 **Online Payment users** E-Commerce users 4000 Online News users Mobile Gaming users 3000 **Online Food Ordering** Online Education users 2000 Live Streaming E-Commerce Ride hailing users **Online Helathcare Services** 1000 Remote workers 5G users 0 Wearable Device shipment China US UK Japan Germany

#### World's Top 5 E-Commerce Markets (Gross Merchandise Value in USD Bn)

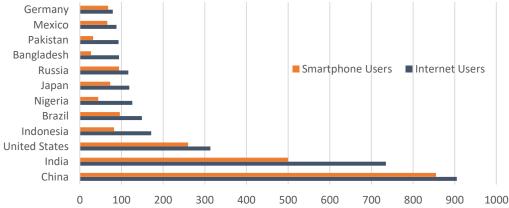
#### China's Digital Consumerss (Millions) 2020



#### **Major Countries by Mobile Payment Usage Penetration**



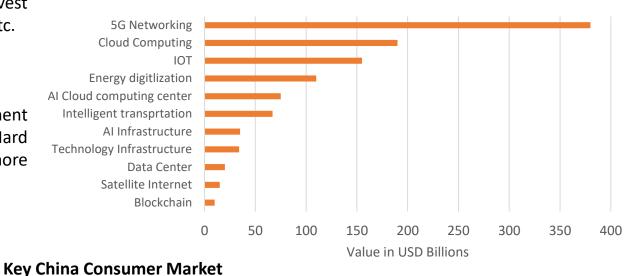
#### Top 12 Countries Worldwide for Internet Users (Millions), 2020



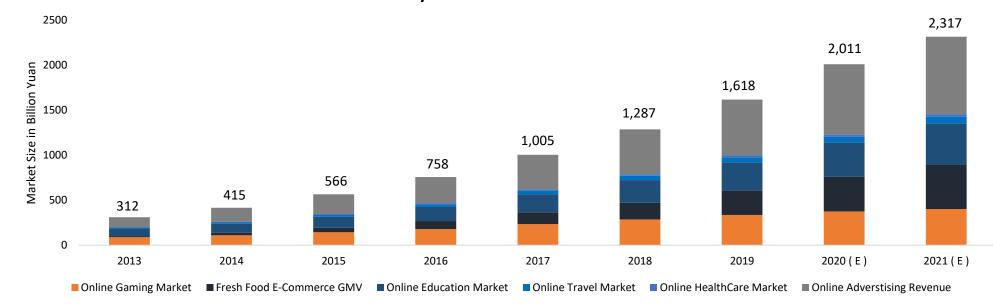
Ssource: 1. China Internet Network Information Center, Chinese Ministry of Industry and Information Technology, International Data Corporation; 2. Statistics.com, Digitalcommerce360.com, ecommerce; xinhuanet.com; 3. Statistics.com

# China Tech market is expected to grow significantly

- The Tech companies are expected to invest more in upcoming technologies like IOT, AI etc.
- Key focus is expected to be on innovation
- For investors, Soft Tech may provide investment opportunity due to attractive valuations, Hard Tech on the other side is expected to find more government support and momentum

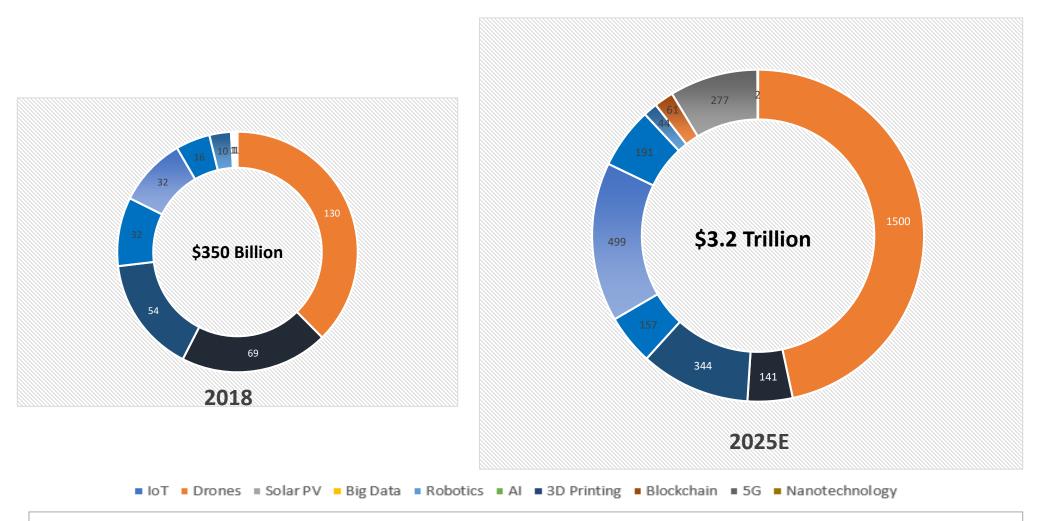


#### Aggregate Investment 2020-25E Sectors under China New Infrastructure Initiative



Source: China Internet Network Information Center, Chinese Ministry of Industry and Information Technology, International Data Corporation; China Merchant Securities, I research

## China Tech landscape is expected to grow significantly



#### Chinese technology revolution is expected to be driven by rapid adoption of new technologies

# Mentions in 5 year plan	12th FYP	13th FYP	14th FYP
Digital	4	5	80
Innovation	118	207	164
Security	73	146	177
Opening Up	53	90	82
Ecological Environment	4	18	22

- Prioritizing the quality of growth rather than the quantity of growth
- Focus on achieving "major breakthroughs in core technologies," including AI, semiconductors, cloud computing, and other key areas
- By 2025, aim to have the digital economy account for about 10% of China's newly added economic output (from current 7.8%).
- In 2021-2025, R&D spending will be ramped up by more than 7% every year

China's 14<sup>th</sup> Five Year Plan (2021 – 2025) which was adopted in March 2021 clearly lays down the focus of the Chinese government on Innovation in key technologies





989 Mn Internet Users

1.61 Bn - No. of Mobile Connections



\$1.2 Tn – Consumer Goods E-Commerce Market



931 Mn – Active Social Media Users



\$ 79.4 Bn – Total Digital Ad spend in 2020



92.7%: Smartphone users % of Internet users



5 H 22 Mn : Average Daily Time users spent on Internet



\$2.3 Tn – Digitally enabled consumer payments



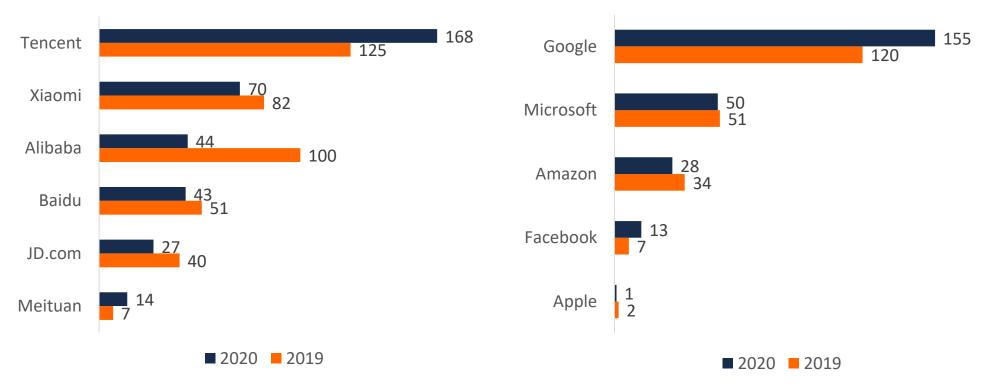
80.2% - Population with a financial account



81% - Internet Users using online Video Platforms

The Internet Industry has played a pivotal role in China's Digital Transformation journey

## **Investments by Big Tech: China v/s US**

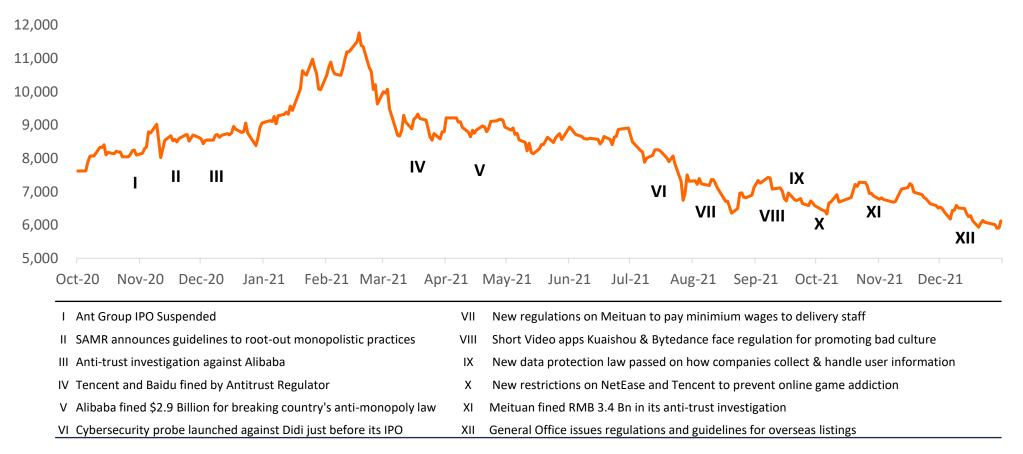


# Investments made by Chinese Big Tech

**#** Investments made by US Big Tech

#### Chinese Tech giants have been on the forefront in terms of number of investments compared to US Big Tech companies.

### **Recent regulatory actions on Tech: For Greater good ?**



- China regulators are now focusing on Tech companies to put controls in previously less governed space. While the intent is similar to US and EU, the pace and ferocity along with expected tighter control from the CPC, has surprised investors, reducing the M-Cap of these Tech companies by over 1 Trillion USD.
  - Reduce Anti competitive practices, improve data security and consumer rights
  - Growth towards common prosperity
  - Companies are already taking action to cater to above concerns

### Hang Seng TECH Index – Harnessing China's tech landscape

**Diversified across 30 large tech-themed companies** 

Innovative Portfolio: Companies driven by strong revenue growth and R&D investment





**\$Fast Track IPO Entry: Qualified IPOs are included in Index shortly after listing** 

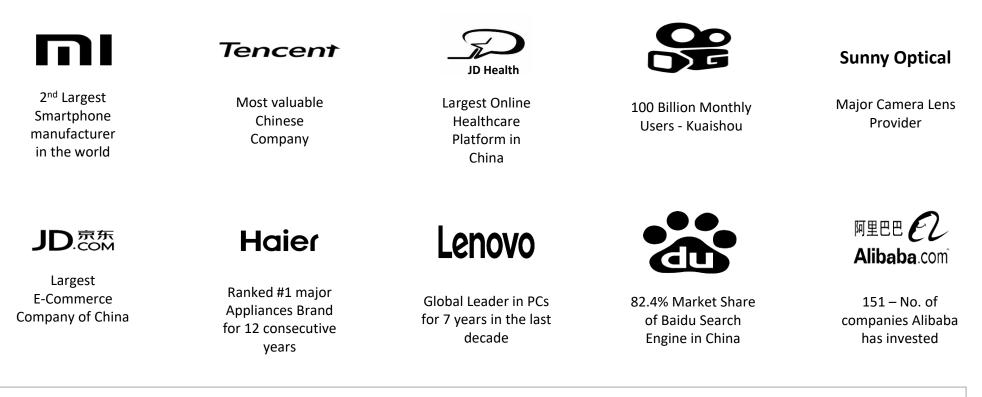
Technology now represents large proportion of investors exposure to China



Source: Data as on July 30, 2020; Bloomberg \$ A newly listed security will be added to index if its full market capitalization ranks within the top 10 of the existing constituents on its first trading day. The ad hoc addition will normally be implemented after the close of the 10th trading day of the new issue



Holistic exposure to China's technology ecosystem



Exposure to companies across tech landscape benefiting from increasing consumption by China's growing middle class

Source: Kantar Brand List 2021; GS Stat Counter Sep 2021; Traxcn; International Data Corporation Report 2021; Euromonitor Brand Appliances Report. The aforesaid mentioned companies form part of Hang Seng TECH Index

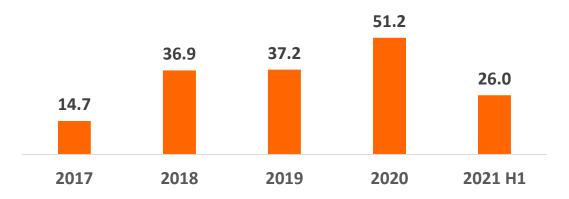


Exposure to companies across tech landscape benefiting from increasing consumption by China's growing middle class

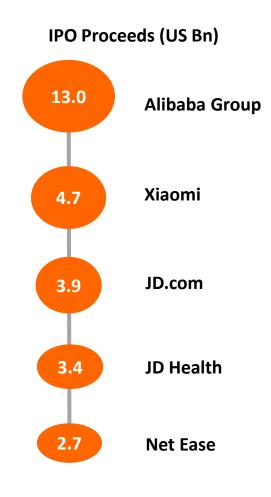
Source: ; Mirae Asset Securities: BYD Full Speed Ahead ; Walkthechat Analysis ; PRNewswire; Fast Company: Most Innovative Companies 2020; Company Annual Reports. The aforesaid mentioned companies form part of Hang Seng TECH Index

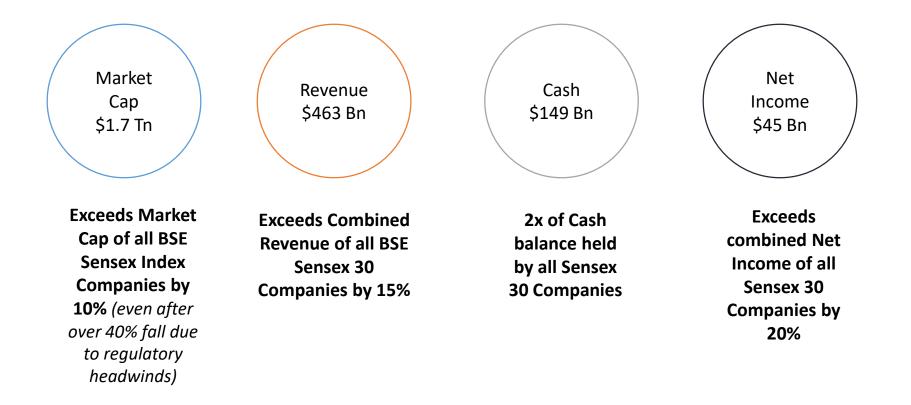
## Hang Seng TECH Index: Product from a Tech Listing Hub: Hong Kong Stock Exchange

- HKEX was 2<sup>nd</sup> most popular IPO venue globally in 2020 after the US.
- Companies raised over \$51 Bn through IPOs on the exchange in 2020 compared to \$37 Bn in 2019
- Tech giants like Alibaba, Baidu and JD.com have chosen to pursue additional listings on Hong Kong stock exchange to capitalize on its growing investor base
- Expected to list more china tech companies in future, which may find its way in Hang Seng Tech portfolio



**IPO Proceeds (USD Bn): HKEX** 





Source: Market Cap: Bloomberg data as on Dec 31, 2021; Revenue, Net Income and Cash: The annual numbers are taken as per Chinese Financial Year 1st Jan – 31St Dec 2020 (Calendar Year 2020). ; Department of Economic Affairs India Past performance may or may not sustain in future.. The data shown above pertains to the Index and does not in manner indicate performance of any scheme of the Fund. The combined of all BSE Sensex Index companies for 2020- 2021 stood as following based on BSE Exchange Data. : Market Cap of all BSE Senses Index companies stood at \$ 1.56 Tn, Revenue of all BSE Sensex Index companies stood US \$ 403 Bn, Cash balance of all BSE Sensex Index stood at US \$ 70.9 Bn, Combined net income of all BSE Sensex Index stood at US \$ 36.3 Bn,

# Mirae Asset Hang Seng TECH ETF and ETF FoF Offerings



## **About Hang Seng TECH Index**

The aim of the index is to track performance of the 30 largest technology companies listed on Hong Kong Stock Exchange, deriving revenue from Greater China Region, which have high business exposure to the Technology Themes.

➤ Initial Universe:

**Sector requirement:** Company should belong to the below mentioned Industries as per Hang Seng Industry Classification System: *Industrials; Consumer Discretionary; HealthCare; Financials and Information Technology.* 

**Theme requirement:** Company should have high business exposure to at least one of the following Tech Themes: Internet (including mobile); FinTech; Cloud; E-Commerce; Digital; or Autonomous.

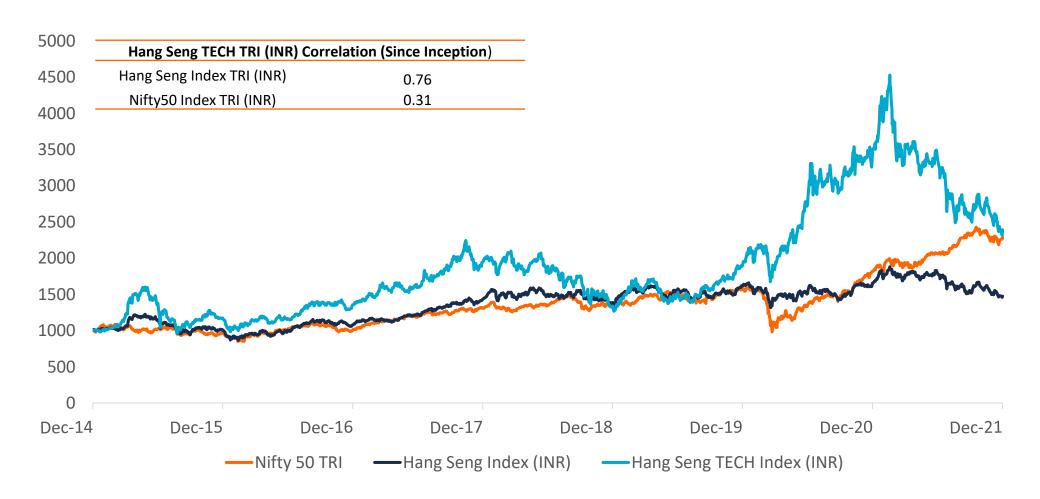
**Innovation Screening**: Company should meet at least one of the below criteria: Technology-enabled business (e.g. via internet/mobile platform); or R&D expense to Sales >= 5%; or YoY Revenue Growth >=10%.

> The top 30 securities with the highest Market Value (MV) Rank will be selected as constituents.

> The index is reconstituted and reviewed for constituent changes on a Quarterly Basis with stock cap of 8%.

Fast Entry : A newly listed security will be added to index if its full market capitalization ranks within the top 10 of the existing constituents on its first trading day.

# Hang Seng TECH Index has outperformed Hang Seng Index since inception despite recent correction



# The recent correction in Hang Seng TECH Index provides investor with potentially attractive opportunity to diversify and invest in growing digital economy of China.

Source: Bloomberg data as on Dec 31, 2021; Exchange rate of Bloomberg are used for conversion of index value from HKD to INR. Past performance may or may not sustain in future. The index return are in Total Return Variant. The data shown above pertains to the Index and does not in manner indicate performance of any scheme of the Fund.

## Hang Seng TECH Index periodic performance

Index Name	Hang Seng TECH Index	Hang Seng Index	Nifty50 Index	INR/USD	INR/HKD
SI	13.3%	5.7%	12.5%	2.3%	2.3%
5 Years	12.0%	6.5%	17.7%	1.8%	1.7%
3 Years	21.3%	2.1%	18.3%	2.1%	2.3%
2 Years	12.3%	-4.4%	20.8%	2.1%	2.0%
1 Years	-31.7%	-10.8%	25.6%	1.7%	1.1%
6 months	-31.5%	-19.4%	10.3%	0.1%	-0.3%
3 months	-7.0%	-4.7%	-1.3%	0.1%	0.0%
		Calendar Year	Return		
2015	17.2%	0.9%	-3.0%	4.7%	5.0%
2016	16.0%	7.0%	4.4%	2.5%	2.6%
2017	43.1%	31.9%	30.3%	-5.9%	-6.7%
2018	-31.1%	-2.5%	4.6%	9.2%	9.0%
2019	41.6%	16.3%	13.5%	2.1%	2.8%
2020	84.7%	2.6%	16.1%	2.5%	2.9%
2021	-31.7%	-10.8%	25.6%	1.7%	1.1%

# Hang Seng TECH Index has outperformed Nifty50 Index in 5 out of 7 calendar years with significant outperformance in 2019 and 2020 but stark underperformance in 2018 and 2021

Source: Bloomberg data as on Dec 31 2021; Exchange rate of Bloomberg are used for conversion of index value from HKD to INR. Past performance may or may not sustain in future. The index return are in Total Return Variant. The data shown above pertains to the Index and does not in manner indicate performance of any scheme of the Fund. Risk is nothing but computed as annualized standard deviation of daily return observation for specific investment horizon for all the indices using their INR total return variant.

## Hang Seng TECH Index volatility comparison

Index Name	Hang Seng Tech Index	Hang Seng Index	Nifty50 Index	INR/USD	INR/HKD
SI	30.9%	18.2%	17.5%	5.0%	5.2%
5 Years	29.8%	17.8%	18.2%	5.1%	5.1%
3 Years	34.3%	19.4%	21.7%	5.0%	5.2%
2 Years	38.2%	21.3%	25.1%	4.9%	5.1%
1 Years	38.1%	20.7%	15.7%	4.3%	4.7%
6 months	37.4%	22.1%	12.8%	4.1%	4.0%
3 months	30.6%	18.0%	15.2%	4.1%	4.6%
		Calendar Year Vo	atility		
2015	36.0%	19.3%	16.0%	4.8%	5.2%
2016	21.7%	17.6%	14.3%	4.3%	4.3%
2017	22.1%	11.5%	9.0%	4.1%	4.1%
2018	30.0%	19.1%	12.7%	6.4%	6.4%
2019	24.7%	15.1%	13.5%	5.2%	5.5%
2020	38.2%	21.9%	31.1%	5.4%	5.4%
2021	38.1%	20.7%	15.7%	4.3%	4.7%

#### Hang Seng TECH Index has higher historical risk (volatility) as compared to NIFTY 50 Index

Source: Bloomberg data as on Dec 31, 2021; Exchange rate from Bloomberg are used for conversion of index value from HKD to INR. Past performance may or may not sustain in future. The index return are in Total Return Variant. The data shown above pertains to the Index and does not in manner indicate performance of any scheme of the Fund. Risk is nothing but computed as annualized standard deviation of daily return observation for specific investment horizon for all the indices using their INR total return variant.

### Hang Seng TECH Index performance – Pre and Post Regulatory headwinds

Pre – Regulatory Issues (As on 28 <sup>th</sup> February, 2021)						
Index Name	Hang Seng TECH Index	Hang Seng Index	Nifty50 Index	INR/HKD		
SI	23.9%	9.7%	10.9%	2.5%		
5 Years	28.2%	13.9%	17.1%	1.4%		
3 Years	23.3%	5.2%	12.6%	4.6%		
2 Years	50.4%	6.0%	17.2%	2.3%		
1 Years	78.1%	15.4%	25.9%	3.0%		
6 months	21.7%	13.1%	26.4%	-1.2%		
3 months	9.7%	6.9%	12.3%	-0.9%		
Latest Perf	ormance amid reg	ulatory headwinds	s ( As on Dec 31, 2	021)		
SI	13.3%	5.7%	12.5%	2.3%		
5 Years	12.0%	6.5%	17.7%	1.7%		
3 Years	21.3%	2.1%	18.3%	2.3%		
2 Years	12.3%	-4.4%	20.8%	2.0%		
1 Years	-31.7%	-10.8%	25.6%	1.1%		
6 months	-31.5%	-19.4%	10.3%	-0.3%		
3 months	-7.0%	-4.7%	-1.3%	0.0%		

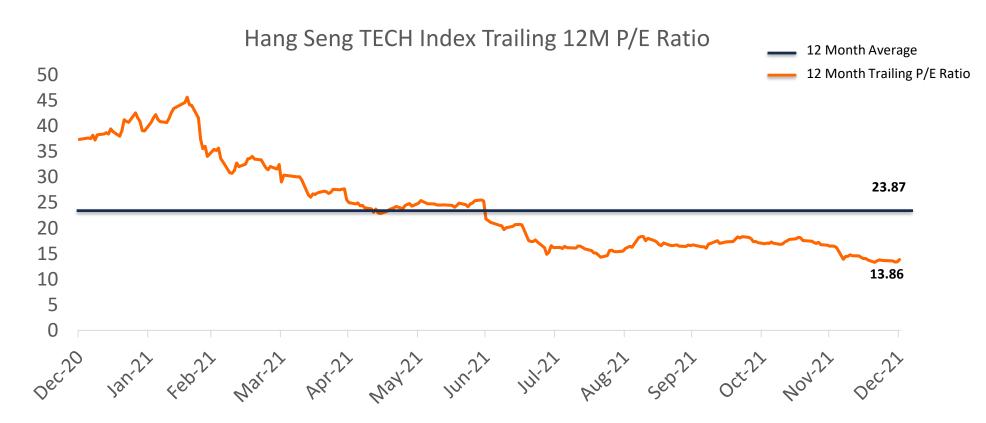
# Despite regulatory crackdown and headwinds on Chinese Tech Sector, Hang Seng TECH Index has generated a return of 13.3% since inception

Source: Bloomberg data as on Dec 31, 2021; Exchange rate of Bloomberg are used for conversion of index value from HKD to INR. Past performance may or may not sustain in future. The index return are in Total Return Variant. The data shown above pertains to the Index and does not in manner indicate performance of any scheme of the Fund. Risk is nothing but computed as annualized standard deviation of daily return observation for specific investment horizon for all the indices using their INR total return variant.

# Hang Seng TECH Index Industry and stock weighing

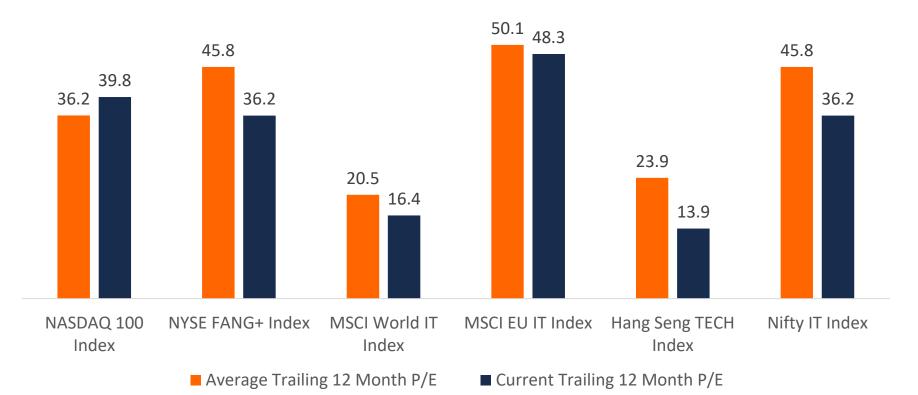
S.No.	Industry Name	Weight (in %)	Company Name	Weight(in %)
1	Internet & Direct Marketing Retail	26.8	Sunny Optical	8.90
2	Interactive Media & Services	17.4	Tencent Holdings Ltd	8.46
3	Technology Hardware, Storage	12.1	Xiaomi Corp	8.34
4	Electronic Equipment, Instrument	10.2	Meituan	8.06
5	Semiconductors & Semiconductor	7.8	Alibaba Group Holding Ltd	7.94
6	Entertainment	7.8	Kuaishou Technology	7.21
7	Software	5.2	JD.com Inc	6.86
8	Household Durables	4.6	SMIC	4.83
9	Health Care Technology	1.8	1.8 NetEase Inc	
10	Hotels, Restaurants & Leisure	1.3	Haier Smart Home Co Ltd	4.57
11	Media	1.3	JD Health International Inc	3.97
12	Insurance	1.1	Lenovo Group Ltd	3.75
13	<b>Communications Equipment</b>	1.3	KINGDEE INT'L	3.38
14	Health Care Providers & Services	0.6	ALI HEALTH	1.80
15	IT Services	0.7	Kingsoft Corp Ltd	1.77

#### Hang Seng TECH Index may be in attractive valuation zone



- The recent correction in Hang Seng TECH Index has resulted in Hang Seng TECH Index being trading at relatively attractive trailing 12 month price to earning ratio
- The index is currently trading at 13.9x 12M trailing price to earning ratio whereas historical average has been around 23.87x i.e. 41% discount to its historical averages.

#### Hang Seng TECH Index in attractive valuation zone



Trailing 12 Month P/E Ratio of Leading Tech Indices

Hang Seng TECH Index is currently in a attractive valuation zone, with its 12 Month Trailing P/E trading at a 41% discount to its 12 Month average.

Source: Data as on Dec 31, 2021; period range from Dec 2020 – Dec 2021, considered. 12M Trailing P/E based on Bloomberg. Past performance may or may not sustain in future. The index return are in Total Return Variant. The data shown above pertains to the Index and does not in manner indicate performance of any scheme of the Fund.

## Why invest in Mirae Asset Hang Seng TECH ETF and Fund of Fund ?

- Provides exposure to **30 largest Tech centric Chinese companies** listed on Hong Kong Stock Exchange
- Portfolio which aims to provide exposure to multiple tech themes including Cloud, AI, IOT etc. which are priority sector as per 14<sup>th</sup> FYP\* of China
- As per the latest 2021-25 and 2035 plan, China is expected to promote digitalization, hard Tech and R&D significantly, with focus on innovation and quality of growth.
- Index which is expected to evolve as the Hong Kong markets evolves with changing dynamics in Tech space and new listings.
- Investor should assess their risk profile before investing in these products since volatility of Chinese market including Hang Seng TECH has been higher due to regulatory headwinds and other idiosyncratic risk.
- Hang Seng TECH Index has outperformed Nifty50 Index in 5 out of 7 calendar years with significant outperformance in 2019 and 2020 but underperformance in 2018 and 2021 (Refer Slide 24 and 25). With recent corrections, the china market may provide an attractive investment opportunity at lower valuations.

Past performance may or may not sustain in future. The index return are in Total Return Variant. The data shown above pertains to the Index and does not in manner indicate performance of any scheme of the Fund. \* FYP: 5 Year Plan

## **Disclaimers**

**BSE/NSE Disclaimer:** Every person who desires to apply for or otherwise acquires any unit of this Fund may do so pursuant to independent inquiry, investigation and analysis and shall not have any claim against the Exchange whatsoever by reason of any loss which may be suffered by such person consequent to or in connection with such subscription/ acquisition whether by reason of anything stated or omitted to be stated herein or any other reason whatsoever

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Statutory Details: Trustee: Mirae Asset Trustee Company Private Limited; Investment Manager: Mirae Asset Investment Managers (India) Private Limited

(AMC); Sponsor: Mirae Asset Global Investments Company Limited.

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#### Mutual fund investments are subject to market risks, read all scheme related documents carefully.

For further information about other schemes (product labelling and performance of the fund) please visit the website of the AMC: www.miraeassetmf.co.in

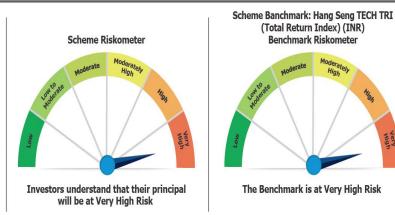
#### Please consult your financial advisor or mutual fund distributor before investing

#### **PRODUCT LABELLING**

#### Mirae Asset Hang Seng TECH ETF is suitable for investors who are seeking\*

- Returns that are commensurate with the performance of Hang Seng TECH Total Return Index, subject to tracking error and foreign exchange movement
- Investments in equity securities covered by Hang Seng TECH Total Return Index

\*Investors should consult their financial advisers, if they are not clear about the suitability of the product.

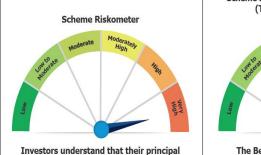


#### PRODUCT LABELLING

# Mirae Asset Hang Seng TECH ETF Fund of Fund is suitable for investors who are seeking\*

- To generate long term capital appreciation/income
- Investments predomiantly in units of Mirae Asset Hang Seng TECH ETF

\*Investors should consult their financial advisers, if they are not clear about the suitability of the product.



will be at Very High Risk





The Benchmark is at Very High Risk