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# Nikko Asset Management China Electric Vehicles and Future Mobility

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# CHINA ELECTRONIC VEHICLE SECTOR

IBKR webinar, March 2022

### JOE BIDEN STATE OF THE UNION ADDRESS

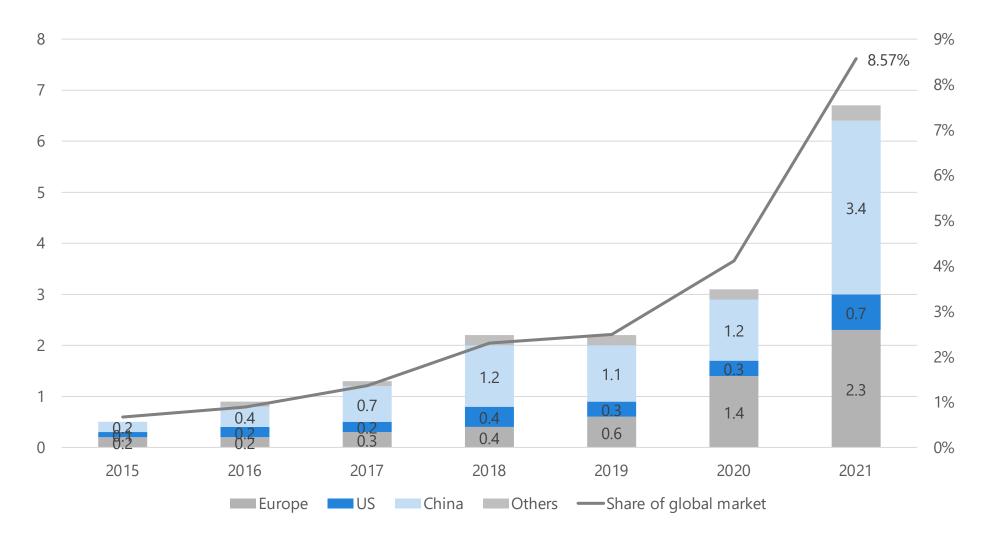


Source: Fortune.com, article by Nicholas Gordon "Elon Musk is fuming after President Biden snubbed Tesla once again during his State of the Union address"

2 March 2022



# GLOBAL SALES AND SALES MARKET SHARE OF ELECTRIC CARS, 2010-2021





# VERY REAL IN SINGAPORE AS WELL





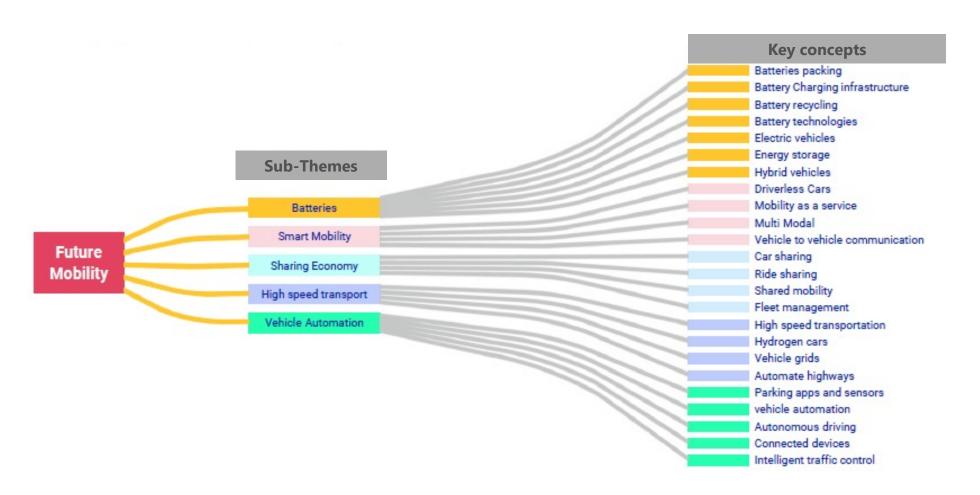
# VERY REAL IN SINGAPORE AS WELL





#### THE FUTURE OF MOBILITY

## MSCI China All Shares IMI Future Mobility Top 50 Index





# MSCI CHINA ALL SHARES IMI FUTURE MOBILITY TOP 50 INDEX

#### TOP 10 HOLDINGS OF INDEX

Name	Index Weight (%)	Description				
Contemporary Amperex Technology	12.64	Battery manufacturer for electric vehicle and energy storage systems				
NIO	9.71	Premium EV manufacturer				
Geely Automobile Holdings	9.32	Automobile manufacturer with key brands Geely, Geometry, and Lynk&Co				
BYD (H-share)	5.81	Automobile manufacturer with business in				
BYD (A-share)	5.13	EVs, energy storage and rail				
Eve Energy	4.78	Battery manufacturer for electric vehicle and energy storage systems				
XPeng	4.51	Premium EV manufacturer				
Jiangxi Ganfeng Lithium (A-share)	4.17	Mining of lithium and manufacturer of lithium chemicals				
Yunnan Energy New Material	4.04	Manufacturer of film products including lithium ion isolation films				
Sungrow Power Supply	3.60	Photovoltaic inverter manufacturer with business in power station system integration				



# MSCI CHINA ALL SHARES IMI FUTURE MOBILITY TOP 50 INDEX

About 70% of Index constituents by weight are listed in Hong Kong and China.

EV, electrical equipment, chemicals, and metals & mining companies make up bulk of the Index

#### **Index Weight by Exchange Index Weight by Industry** Classification Road & Rail, 0.9% Auto Components,... Semiconductors & Machinery, Hong Kong, 0.5% Semiconductor,... 15.8% Containers & Packaging, 3.2% Chemicals, China A on Automobiles, 13.7% Connect, 36.5% US, 19.2% 54.1%



Metals &

Mining,...

**Electrical** 

Equipment,



# WHY INVEST IN THE CHINA ELECTRONIC VEHICLE SECTOR?



1. Policy – Tailwinds from government intervention and support



2. Demand – Leading the way in terms of consumer acceptance



3. Supply – Mega production capacity



4. Not Just EV – It's really about Future Mobility



# WHY THE CHINA ELECTRONIC VEHICLE SECTOR? 1. Policy - Tailwinds from government intervention and support

## CHINA IS COMMITTED TO CLIMATE CHANGE

#### China's national climate targets (2020)

# © CO2 emissions

Goal	By 2030	By 2060
Achieve	Peak	Carbon neutrality

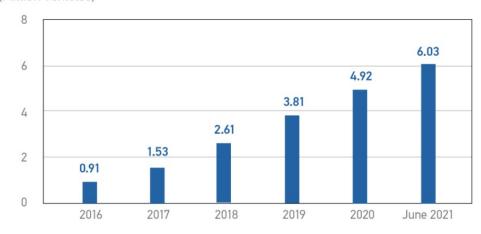
Note: Carbon peak refers the year of highest greenhouse gas emissions. Carbon neutral refers to a policy of not increasing carbon emissions

# Total installed capacity of wind and solar power

Goal	By 2030
Achieve	1.2 billion kW

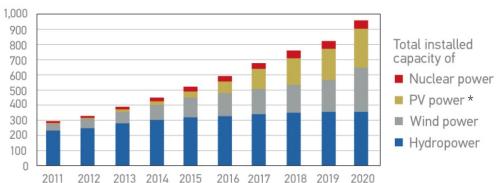
#### New energy vehicle in China

(Million vehicles)



#### Installed capability of non-fossil energy power generation

(Million kW)



<sup>\*</sup> Photovoltaics is the conversion of light into electricity using semiconducting materials

Source: CGTN news, China's National Bureau of Statistics, White Paper Responding to Climate Change: China's Policies and Actions released by Chinese

State Council Information Office in October 2021.



#### DEVELOPMENT OF CHINA FUTURE MOBILITY MARKET

Idea of New Energy vehicles was conceived as early as 1986

500 EVs in 2008 Beijing Olympics

Pre 2009

National EV Strategy in 2009.

Targeting 500,000 EVs by 2012

Fraud in 2016

2009 – 2016 Carrot to stick, greater regulatory oversight

Dual-credit system

Abolish Foreign Ownership Caps on Automotive Joint Ventures

2016 –

- 1. Go big or go home
- 2. More tech entrants
- 3. Greater emphasis on customer segmentation via different price points



# MSCI CHINA ALL SHARES IMI FUTURE MOBILITY TOP 50 INDEX

 State Council blueprint released in November 2020 advocated for the development of NEV sector from 2021 – 2035. Aim for EVs to be 20% of new car sales by 2025.

 Further highlighted in the 14th 5-year plan (2021 – 2025) that NEVs will be one of the strategic emerging industries to account for almost one-fifth of China's GDP by 2025

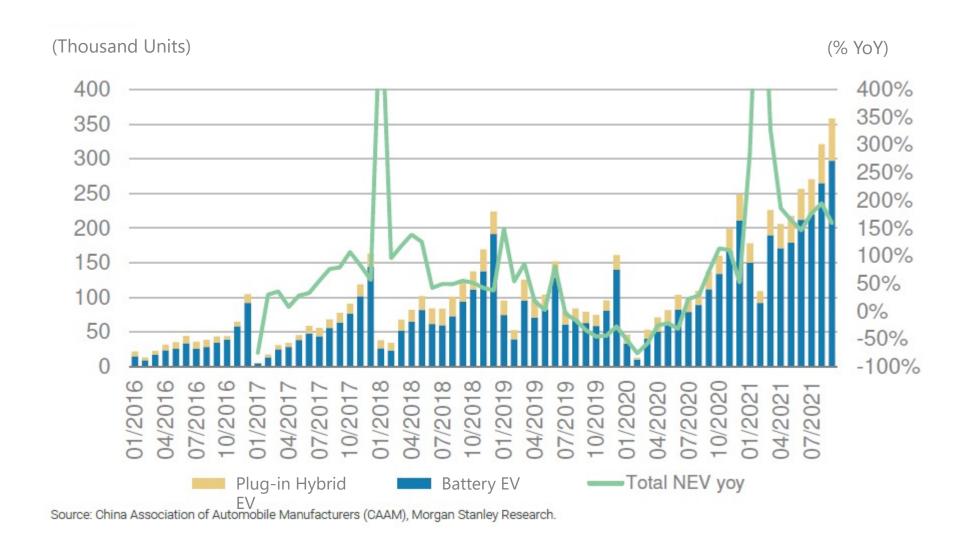
China, 54%

China's Expected
Share of Global Light
Electric Vehicles Sales
in 2025

Rest of the world,
46%



# CHINA MONTHLY NEW ENERGY VEHICLE (NEV) SALES





# WHY CHINA ELECTRONIC VEHICLE SECTOR?

2. Demand - Leading the way in terms of consumer acceptance

#### GLOBAL EV OWNERSHIPS AND EV PENETRATION IN AUTO OWNERSHIPS

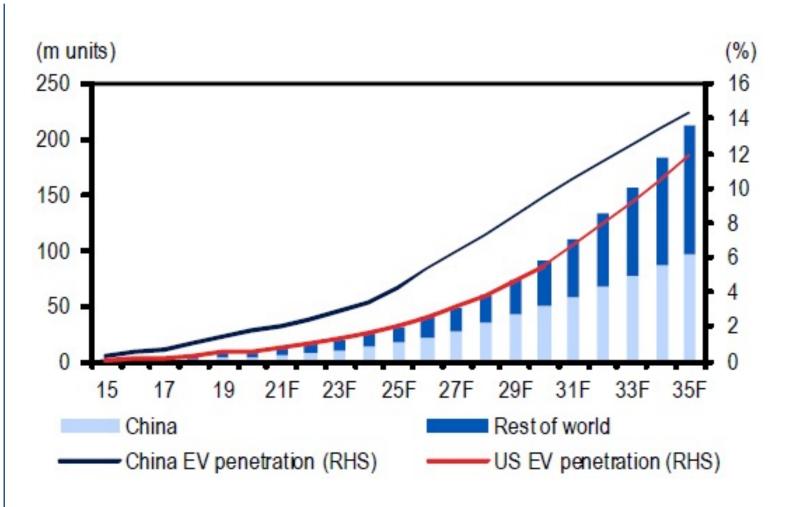
Electric Vehicle penetration in China is currently low at under 5% and has a long runway for growth.

BYD, an important Index constituent, is the largest seller of new energy vehicles in China (including pure EVs and plug-in hybrids)

Index companies such as **Geely, NIO, Li Auto and XPeng** will also benefit from the expected rising EV penetration rates.

Other beneficiaries are **Contemporary Amperex Technology**, the largest battery producer in the China (53% market share) and **BYD**, second largest in China (21% share).





Source: Wards Intelligence, IEA, UOB Kay Hian research report, 17 December 2020 Any forecast is not necessarily indicative of the future performance of the market or the related ETF. Confidential – Not For Redistribution. This material must be read in conjunction with the 'Important Information' statement on the last page

# INNOVATION AND AFFORDABILITY

Baojun E100. Tiny, dirt cheap EVs that cost around USD 7,000

Top speed: 100km/h Range: 250 km/charge Battery: Lithium Iron-Phosphate (LFP)

More for urban driving than long road trips.





## INNOVATION AND AFFORDABILITY

Wuling Hong Guang Mini EV.

One of the cheapest EV cars. Costs around USD 5,000. Range: 120/170km per charge

Top selling EV model for first ten months of 2021. Sells even better than Tesla Model 3.

CATL or Comtemporay Amperex Techlnology is one of the main suppliers of EV batteries to SAIC- GM-Wuling, the company which produces this car.

CATL also supplies EV batteries to Tesla, BMW, Honda, Volkswagen, Volvo, Dongfeng Motor



Wuling Hong Guang Mini EV. Wuling Motors. Source: Business Insider article, "This tiny \$4,500 EV with just 27 horsepower is crushing the Tesla Model 3 in China", 17 May

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# WHY THE CHINA ELECTRONIC VEHICLE SECTOR?

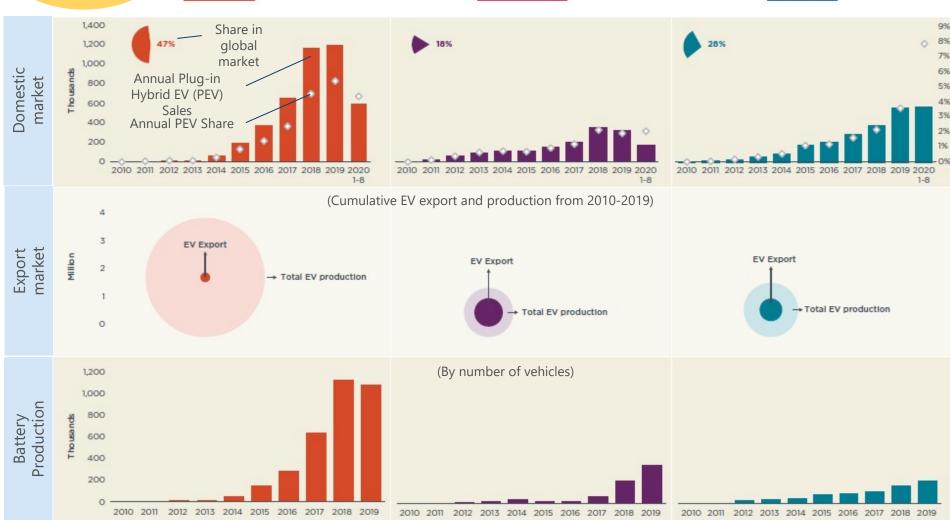
3. Supply – Mega production capacity

Leader in PEV sales, EV & battery production

# CHINA HAS SUPPLY SIDE LEADERSHIP

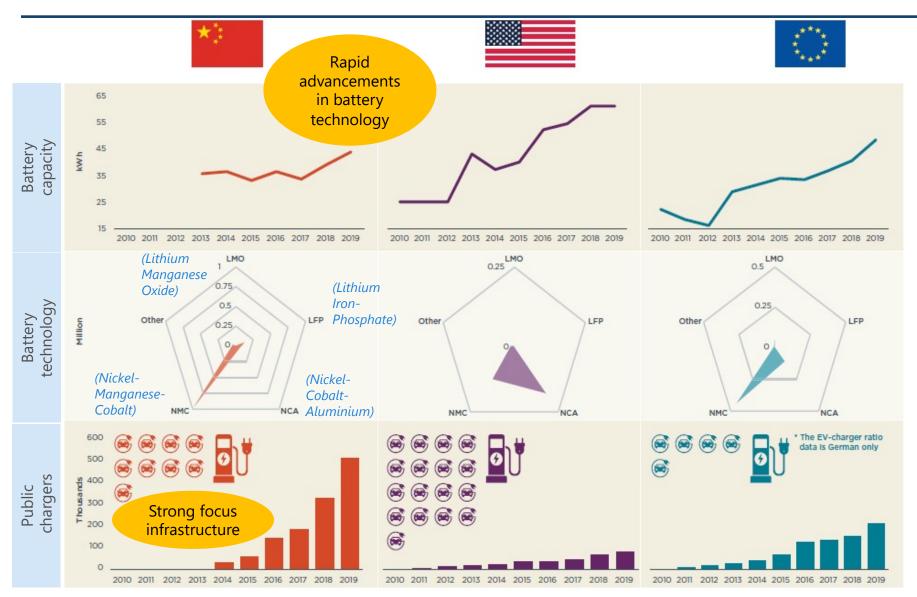








# CHINA HAS SUPPLY SIDE LEADERSHIP



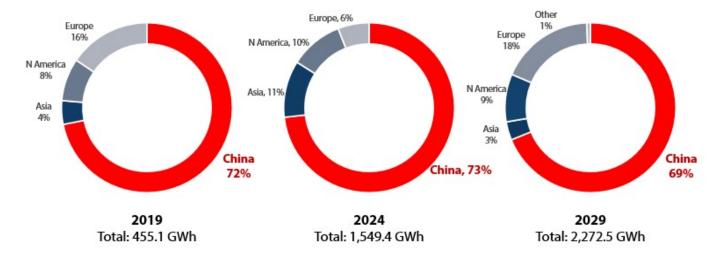


# DOMINANT SHARE OF LITHIUM-ION MEGA-FACTORY PRODUCTION

Chinese EV makers will benefit from a highly developed value chain domestically, due to the country's key strength in critical components such as batteries as well as important battery raw materials.

For 9m21,
Contemporary
Amperex Technology is
the largest battery
producer in the world
with 31% market share.
BYD is fourth largest (8% share).

#### China is expected to take the lion's share of global lithium-ion battery production

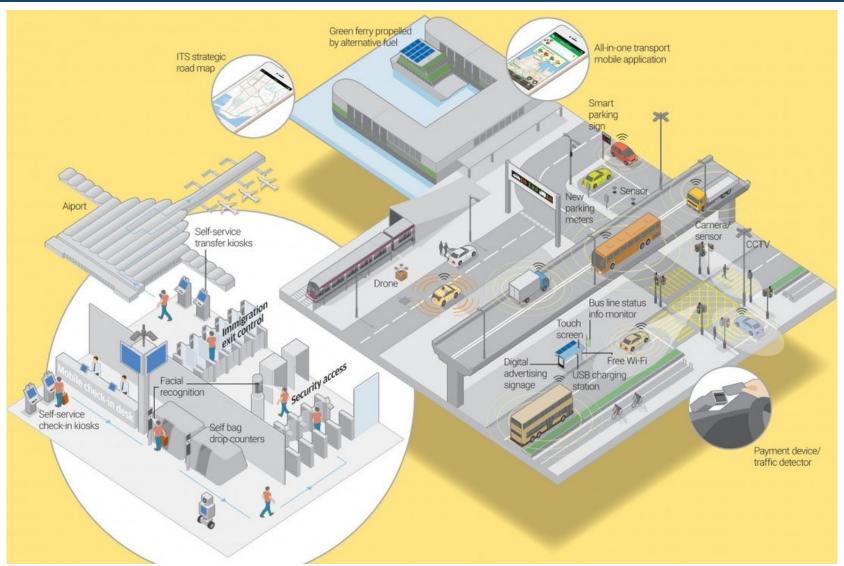




# WHY THE CHINA ELECTRONIC VEHICLE SECTOR?

4. Not Just EV – It's really about the Future of Mobility

# THE GRAND PLAN OF FUTURE MOBILITY AT A GLANCE

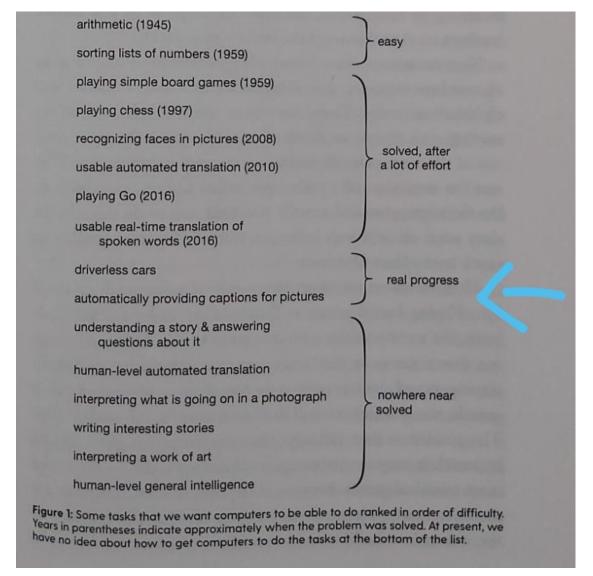


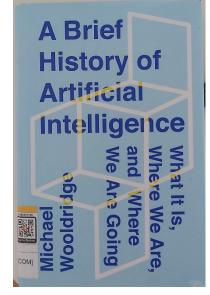
An illustration by Dennis Wong on the smart mobility segment of Hong Kong's smart city initiative includes the development of an intelligent transport system. Source: South Morning China Post article "How Hong Kong's smart mobility ambitions will be boosted by 5G roll-out", 8 June 2020.

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## ARTIFICIAL INTELLIGENCE IS RIPE FOR ELECTRIC VEHICLES

Why is Al Hard?







## POSSIBLE FLYING CARS IN 3 YEARS!

**XPeng** HT Aero New Flying Car to be launched in 2024

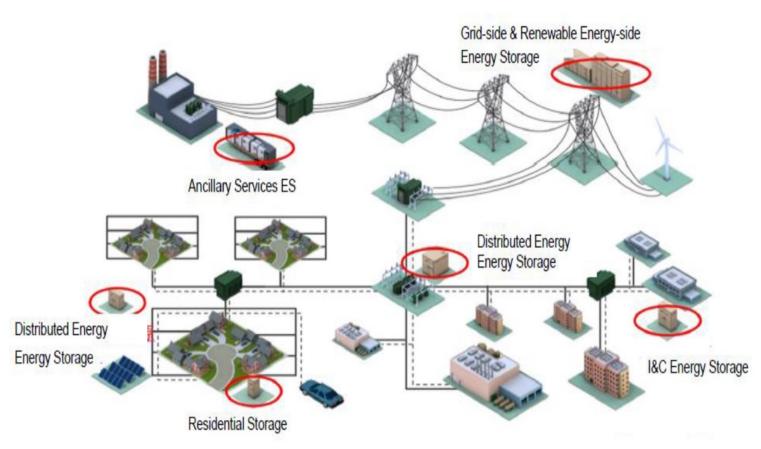




#### DISTRIBUTED ENERGY STORAGE

Electric vehicle battery advancements applies to broader distributed (electrical) energy storage solutions for consumer electronics, in power generation, and off-grid electricity transmission

Index constituent companies such as Beijing Easpring Material Technology, Yunnan Energy and Guangzhou Tinci Materials are actively developing battery technologies



Source: China Energy Storage Alliance (CNESA), ESA, and Macquarie Research, 30 June 2021. Reference to any particular securities is purely for illustrative purposes only and does not constitute a recommendation to buy, sell or hold any securities or to be relied

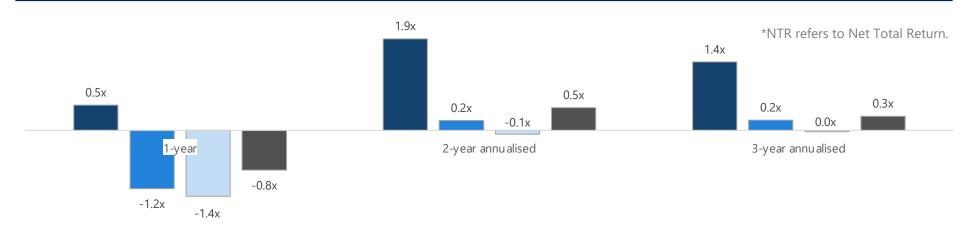


MSCI CHINA ALL SHARES IMI FUTURE MOBILITY TOP 50 INDEX

### HISTORICAL RISK ADJUSTED RETURNS

Demonstrated superior risk adjusted returns against broad based China and Emerging Market indices

Sharpe Ratio Comparison across the 1, 2 and 3-year Periods (x)



■ MSCI	China Al	Shares	INAL	Future	Mohility	Ton	50	NITR	In de	v
■ 1VI3CI	CIIII a Ai	Jilai C3	11411	i utui e	IVIODITILY	100	20	11111	III ue.	Λ

■ MSCI China All Shares NTR Index

■ MSCI China NTR Index

	Total Returns (USD)			Annualized Returns (USD)			Annualized Volatility ^			Sharpe Ratio ^		
	1-year	2-year	3-year	1-year	2-year	3-year	1-year	2-year	3-year	1-year	2-year	3-year
MSCI China All Shares IMI Future Mobility Top 50 NTR Index	19.2%	196.6%	239.1%	19.2%	72.2%	50.2%	36.6%	37.9%	34.8%	0.5x	1.9x	1.4x
MSCI China All Shares NTR Index	-24.6%	9.3%	16.0%	-24.6%	4.6%	5.1%	20.3%	21.8%	20.4%	-1.2x	0.2x	0.2x
MSCI China NTR Index	-33.4%	-3.7%	0.6%	-33.4%	-1.9%	0.2%	24.5%	25.1%	22.7%	-1.4x	-0.1x	0.0x
MSCI Emerging Market NTR Index	-12.2%	20.1%	19.1%	-12.2%	9.6%	6.0%	14.9%	20.0%	17.9%	-0.8x	0.5x	0.3x

Source: Bloomberg as of 28 February 2022

^ Volatility is a measure of risk, expressed as the standard deviation of returns.

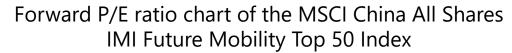
^ Sharpe Ratio is calculated taking index returns less the risk free rate and dividing the result by the volatility of the index returns. Performance of the index presented here are for illustrative purposes only and do not represent the actual performance of the corresponding or related ETFs. Index performance does not factor in any management fee, transaction costs or fund expenses of an ETF. One cannot invest directly in an index. Past performance is not necessarily indicative of the future performance.

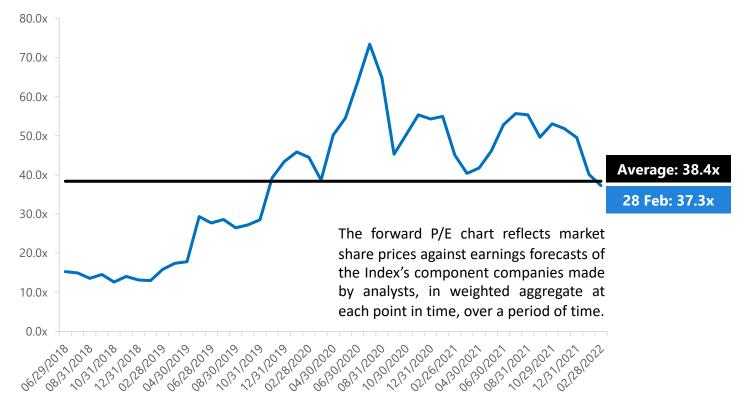


# FORWARD PRICE EARNINGS RATIO (P/E)

China future mobility sector trades at a forward P/E ratio of 37x of as 28 February 2022.

This is slightly below the 3-year average of 38x





Source: MSCI as of 28 February 2022.

Forward P/E ratio of the Index presented here are for illustrative purposes only and do not represent the actual performance of the corresponding or related ETFs. Index performance does not factor in any management fee, transaction costs or fund expenses of an ETF. One cannot invest directly in an index. Past performance or any forecast is not indicative of future performance. Not For Redistribution. This material must be read in conjunction with the 'Important Information' statement on the last page



<sup>^</sup> Forward Price to Earnings is a financial ratio comparing the market value of a company to its future earnings forecasted in this case for the next 12 months

#### ... EXPECTED TO DECLINE ON STRONG EARNINGS GROWTH

Strong earnings are forecasted for the China future mobility sector and this is expected to lower the forward price/earnings ratio of the Index to cheaper levels over the next two years, based on current price level.



Source: Bloomberg as of 28 February 2022.

The chart presented here is for illustrative purposes only and do not represent the actual performance of the corresponding or related ETFs. Index performance does not factor in any management fee, transaction costs or fund expenses of an ETF. One cannot invest directly in an index. Past performance or any forecast is not indicative of future performance.

Note: (1) "n.m." denotes not meaningful as EPS was negative in FY21 Confidential – Not For Redistribution. This material must be read in conjunction with the 'Important Information' statement on the last page



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