

# Mirae Asset Global Electric & Autonomous Vehicles ETFs Fund of Fund

*(An open-ended fund of fund scheme investing in overseas equity Exchange Traded Funds which are based on companies involved in development of Electric & Autonomous Vehicles and related technology, components and materials)*

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# Current Status of Electric Vehicle Market

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# The Future is Electric



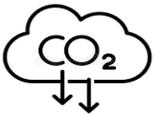
## Lifetime Fuel Consumption ~

30,000 litres of fuel burned per car (₹ 30L) v/s 70 MWh of Electricity charged per car (₹ 4.2L)



## Rising Fuel Prices

Payback period of shifting to an EV could shorten to 3 years if crude oil prices increases to \$120/bbl



## Environmental Impact

30 tons of CO2 v/s 70 tons of CO2 is released into the atmosphere



## Government Incentives

Subsidies and tax credits for electric vehicles and infrastructure increases rate of adoption



## Enhanced Road Safety

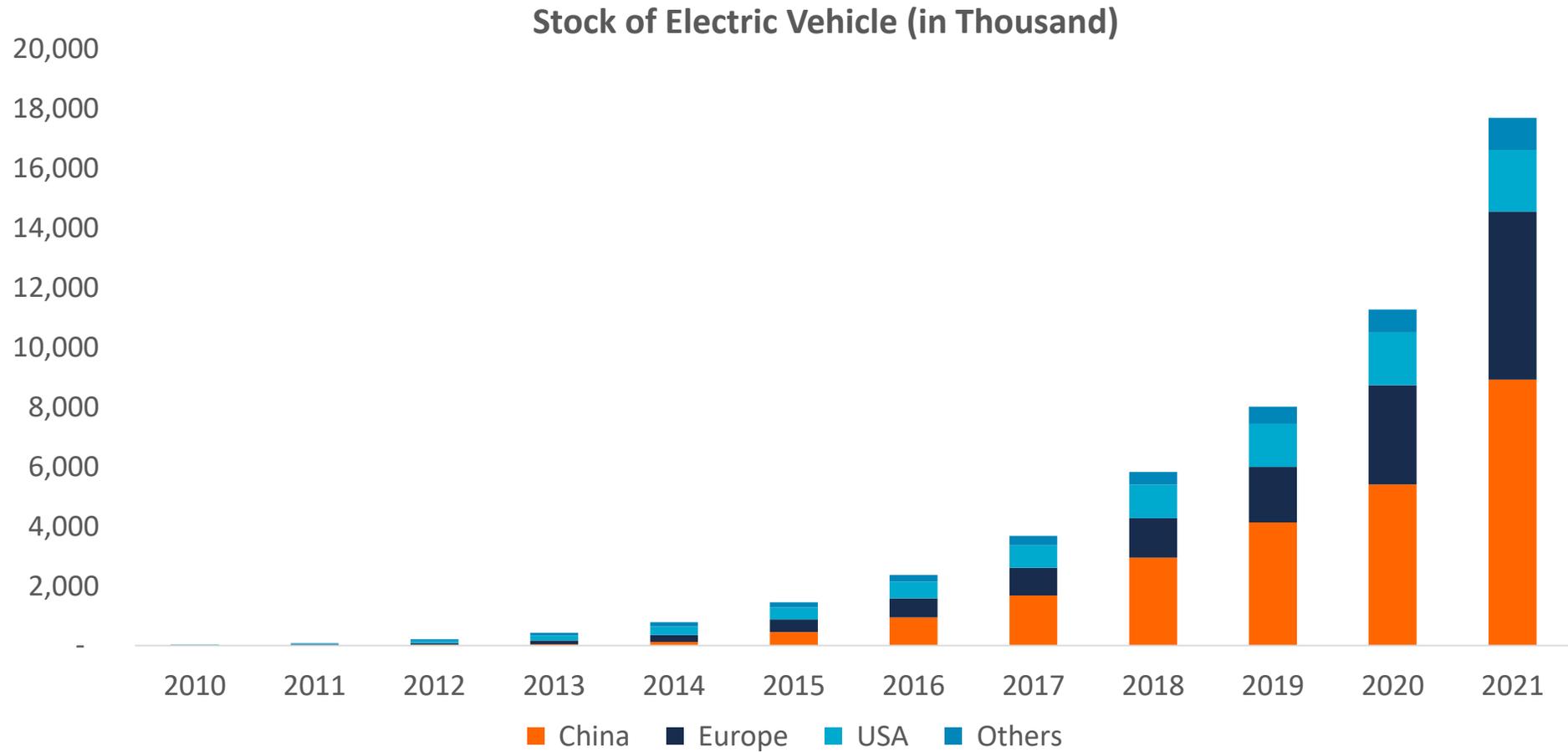
Full Self Driving (FSD) autonomous vehicle technology is involved in accidents 10 times less than human drivers



## Falling Prices

Declining Battery Costs is further expected to lower the cost of EV and boost its demand in the coming future.

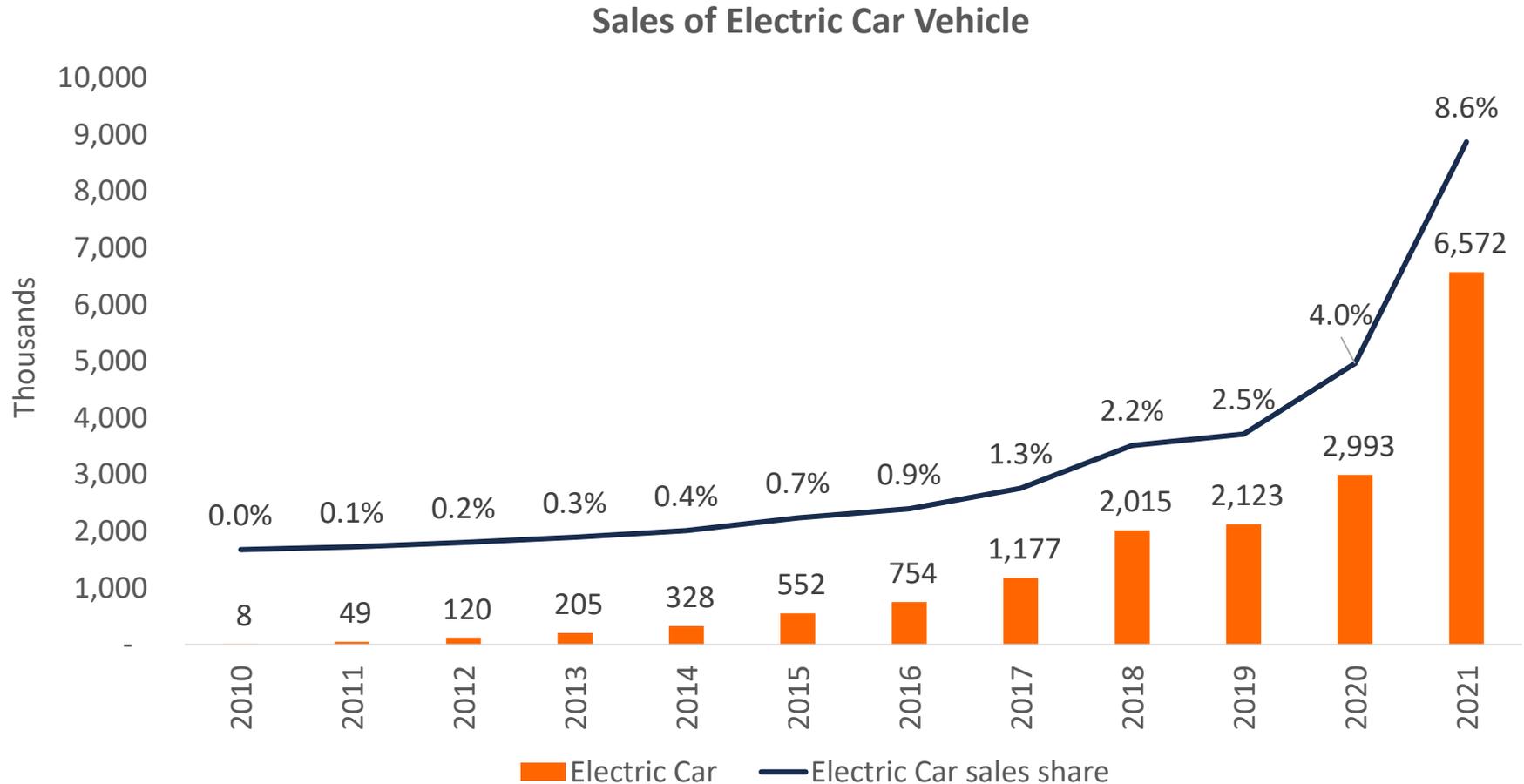
# Global stock of Electric Vehicles stood at 17.7 million



**China accounts for 50% of total global electric vehicle stock followed by Europe (32%) and USA (12%) as of 2021**

Source: Global EV Outlook 2022, International Energy Agency, Data as on December 31, 2021, The global stock consist of electric car, electric van, electric buses and electric truck. The stock of electric vehicle consist of Battery Electric Vehicle (BEV) and Plug in Hybrid Vehicle (PHEV).

## 6.5 million electric vehicles were sold in 2021



**Electric Vehicle sales has increased from 120,000 units in 2012 to 6.5 million units in 2021. Sale of EV accounted for 8.6% of total car sales across the globe.**

# Electric vehicles share is rapidly growing across the globe

| Country        | EV Sales Share |
|----------------|----------------|
| China          | 16.0%          |
| Belgium        | 18.4%          |
| France         | 18.9%          |
| United Kingdom | 19.0%          |
| Portugal       | 19.9%          |

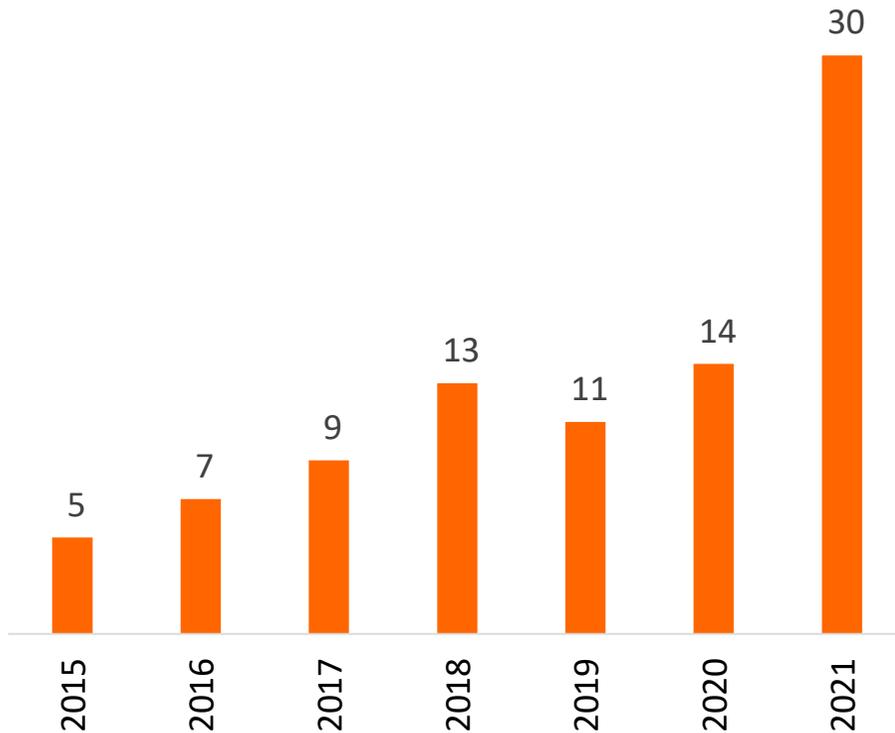
| Country   | EV Sales Share |
|-----------|----------------|
| Australia | 2.9%           |
| USA       | 4.6%           |
| Korea     | 6.2%           |
| Canada    | 6.6%           |
| Italy     | 9.5%           |

| Country     | EV Sales Share |
|-------------|----------------|
| Switzerland | 22.4%          |
| Germany     | 26.0%          |
| Netherlands | 29.7%          |
| Finland     | 30.8%          |
| Denmark     | 35.4%          |

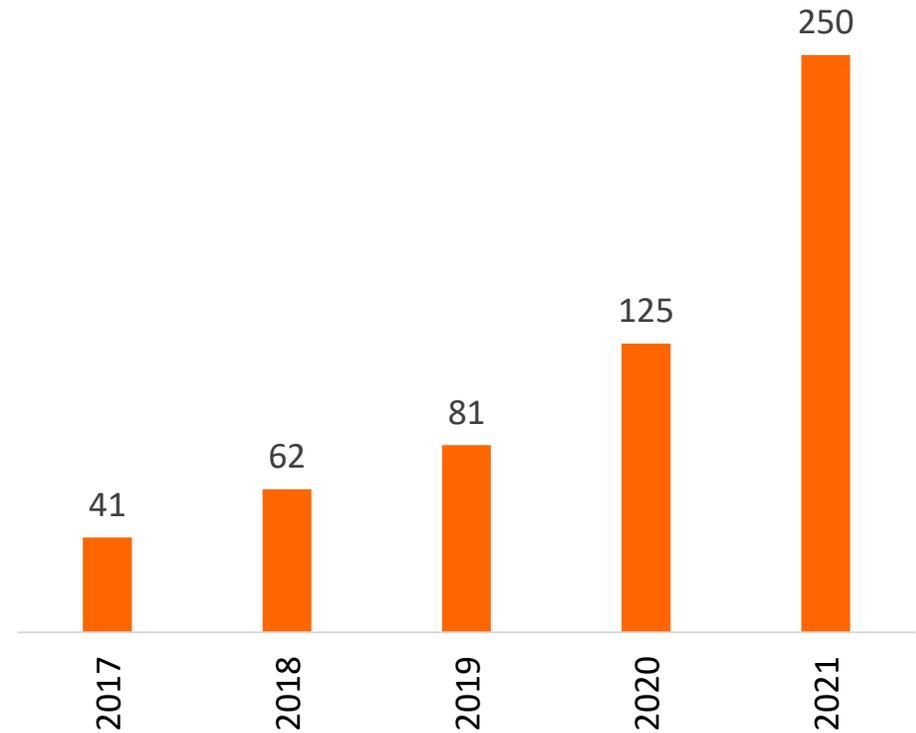
| Country | EV Sales Share |
|---------|----------------|
| Sweden  | 43.3%          |
| Iceland | 71.7%          |
| Norway  | 86.2%          |
| Europe  | 16.6%          |
| World   | 8.9%           |

# Electric Vehicle rapidly shifting from being a “push” to “pull” product

Government Spending (in USD Bn)



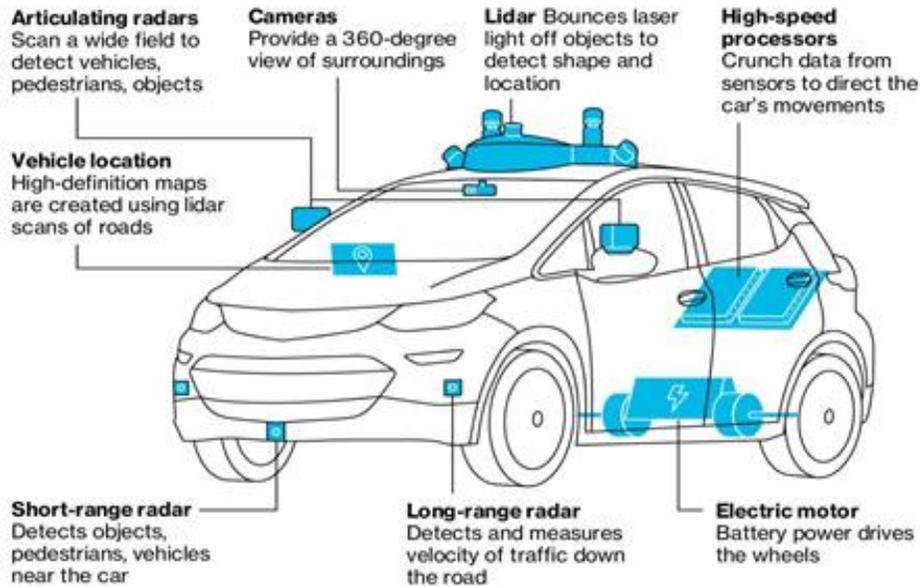
Consumer Spending (in USD Bn)



**Government share of total spending on electric car has reduced from 22% in 2015 to 10% in 2021. This reflects that EV is rapidly moving from being a “push” to “pull” product for consumer.**

*Source: Global EV Outlook 2022, International Energy Agency, Data as on December 31, 2021. Government spending is the sum of direct central government spending through purchase incentives and foregone revenue due to taxes waived specifically for electric cars. Only central government purchase support policies for electric cars are taken into account. Consumer spending is the total expenditure based on model price, minus government incentives. Incentives provided for company cars are not included*

# Autonomous Vehicle (AV): Visualizing the market opportunity!



## Auto Makers & Auto Components

Tesla  
 BYD  
 General Motors  
 Volkswagen  
 Hyundai  
 Honda  
 Bosch  
 Toyota

## Technology & Service Providers

Google  
 Apple  
 Intel  
 NVIDIA  
 Mobileye (Intel)  
 Auto Liv

Its expected by 2030, ~  
 2 in 3 vehicles sold  
 globally may feature an  
 automated driving  
 system (L2+)

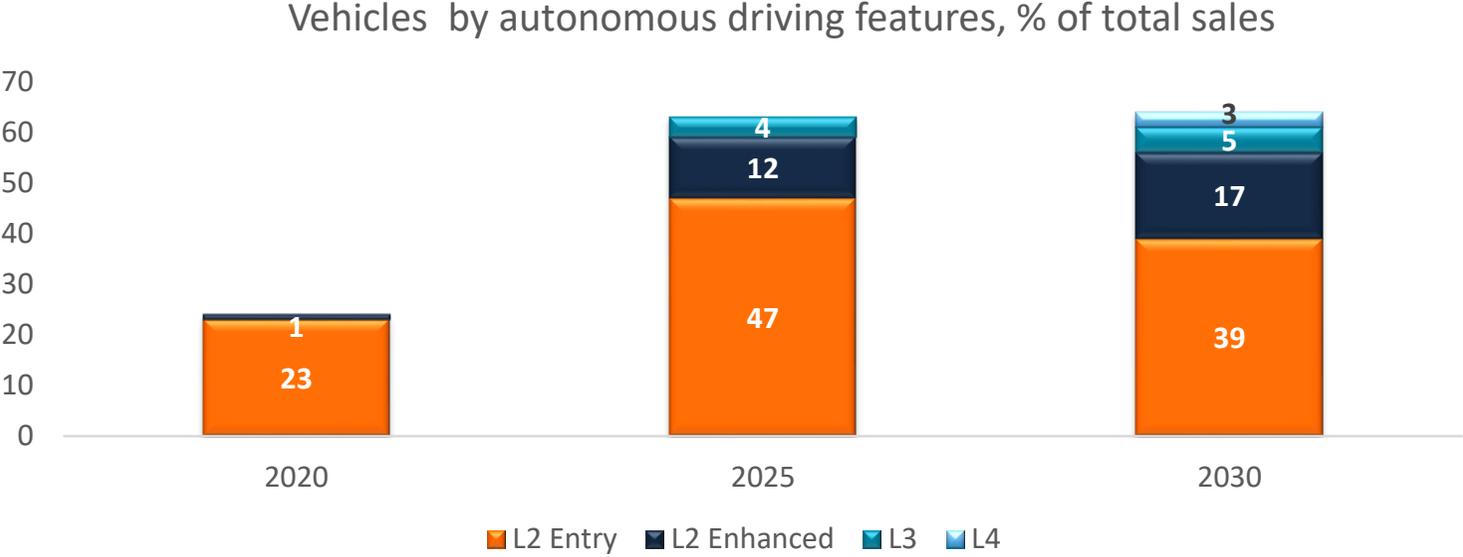
Autonomous Vehicles  
 have driven more  
 than 4 Million miles  
 in 2021

Its projected that 350  
 million vehicles on the  
 road globally will have  
 over-the-air updates  
 capabilities in 2025

Its projected by 2030,  
 AVs could drive roughly  
 300,000 miles before  
 triggering a  
 disengagement event

**0.23 Crashes/ Mn**  
 miles driven by AVs  
 v/s **2.03 Crashes/ Mn**  
 driven miles by Human  
 Drivers

# Autonomous Vehicles landscape



- Level 2 feature will be the main driver of the market until 2025
- Level 3 automation has started but scale may only be visible around middle of this decade
- Level 4 automation is being lead by companies like Baidu, Google and GM



\* Source: Mckinsey, Data as Dec 31, 2020. The companies mentioned above form part of the index portfolio that the underlying ETF may invest in.

# Future of Electric Vehicle market

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# Major automakers accelerate electrification plans and aim for a fully electric future

| Automaker           | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2030        |
|---------------------|------|------|------|------|------|------|-------------|
| Volvo - Geely Group | 1    | 1    | 1    | 1    | 50%  |      | 100%        |
| Toyota Motor Corp   |      |      |      |      | 15   |      | > 1 Million |
| Ford Motor Co       |      | 40   |      |      |      | 100% |             |
| Honda Motor Ltd     |      |      |      |      |      |      | 40%         |
| Volkswagen AG       |      |      |      |      | 20%  |      | 70%         |
| Hyundai Motor Co    |      |      |      |      |      | 10   |             |
| General Motors Co   |      |      | 22   |      | 30   |      | > 1 Million |
| Nissan Motors       |      | 20   |      |      |      |      |             |

# New EV Models  % of Sales Electric  Annual EV Sales

- Toyota expected to roll-out of 30 Electric Vehicles with a goal of reaching 3.5 million annual sales of EV by 2030
- Volkswagen expects EV's would exceed 70% of European and 50% of Chinese and US sales by 2030
- GM and Ford has announced a \$27 billion and \$29 billion investment respectively in electric and autonomous vehicles
- BYD becomes the biggest EV producer in 2022, by selling about 6.41 Lakh EV in first 6 months of 2022.
- Tesla's Model 3 was the best selling EV in 2021. Tesla aims to reach a market share of 18% by 2030

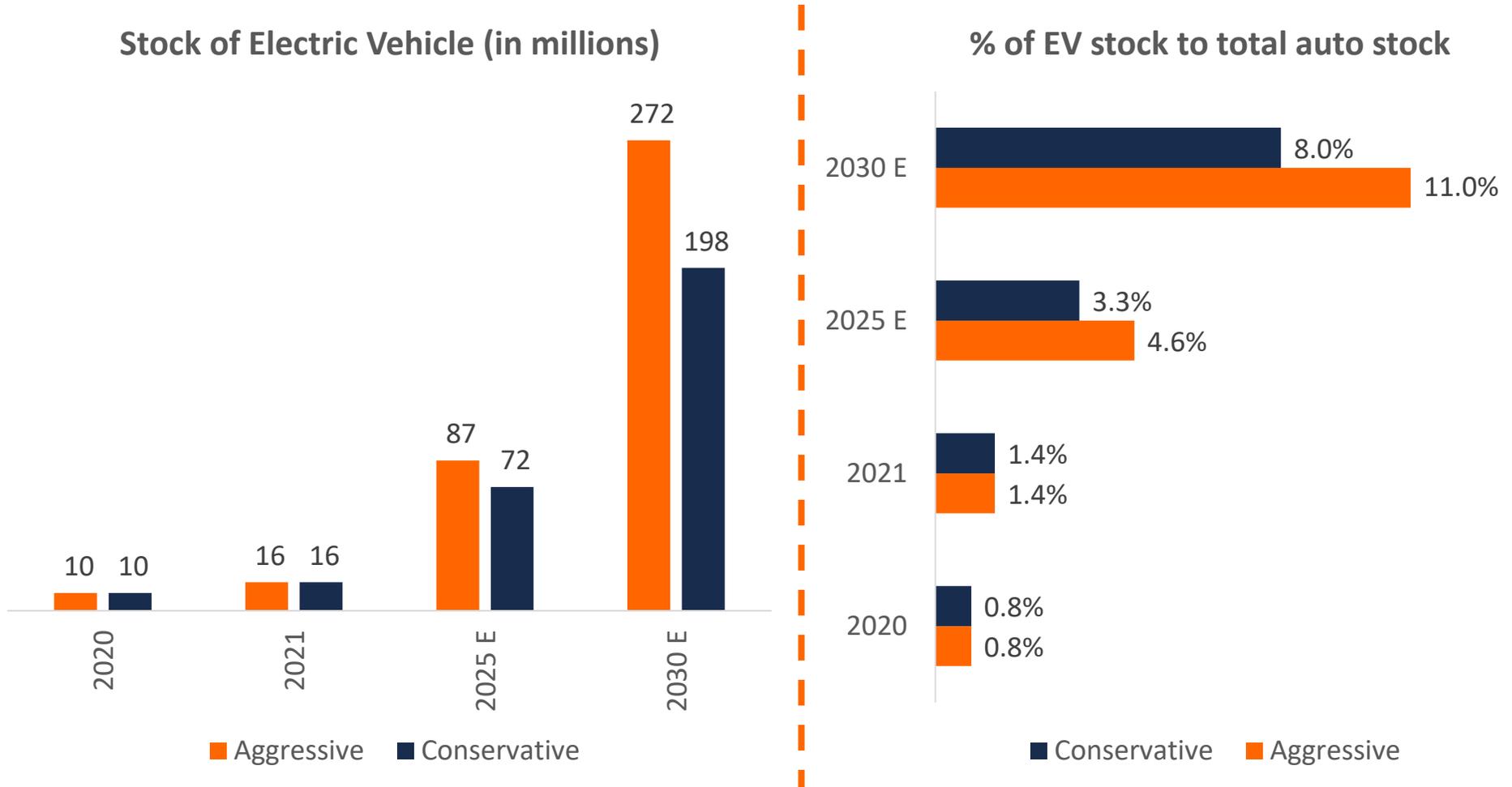
# Governments are boosting policies to promote EV deployment

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- China, the leading EV market announced that it is likely to develop sufficient charging infrastructure to meet the needs of 20 million New Electric Vehicles (NEVs) by 2025
- In United States, government announced its initial targets that include 50% EV sales by 2030
- Canada target for achieving 100% zero emissions Light Duty Vehicles (LDV) sales by 2035
- European Union brought forward a host of policy and stimulus measures to accelerate Zero Emission Vehicle (ZEV) transitions to 100% by 2035
- India, in 2021, extended its EV demand stimulating FAME II policy to 2024. It also increased subsidies for electric two-wheelers and made budgetary commitments for development of EV manufacturing and battery supply capacity.

**Zero Emission Vehicle (ZEV) targets and ambitions are expanding in major car markets**

# Global stock of electric vehicle is expected to jump ~ 12x from current level

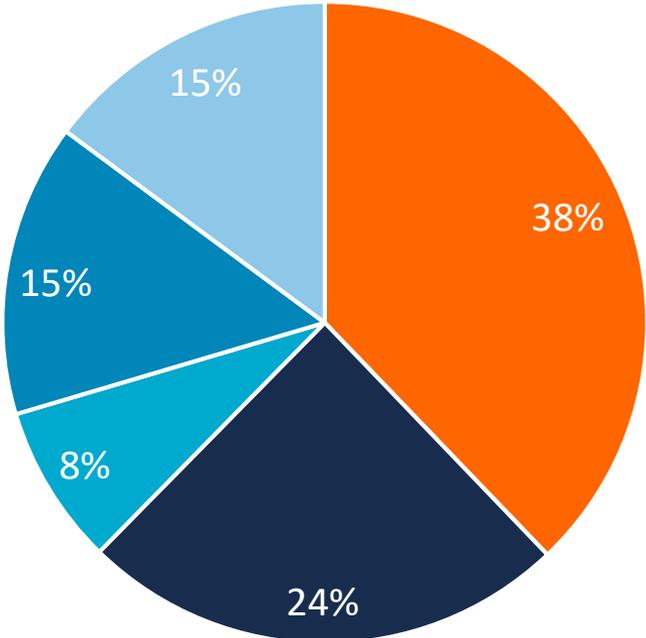


**Stock of Electric Vehicle is expected to jump ~ 8% to 11% of total road vehicle by 2030 from current 1.4%**

Source: Global EV Outlook 2022, International Energy Agency, Data as on December 31, 2021. Sales of electric two/three-wheelers are not included in this figure. Aggressive estimate is based on Announced Pledged Scenario whereas conservative forecast is based on stated policies scenario. E stands for Estimate/forecast that may or may not come true.

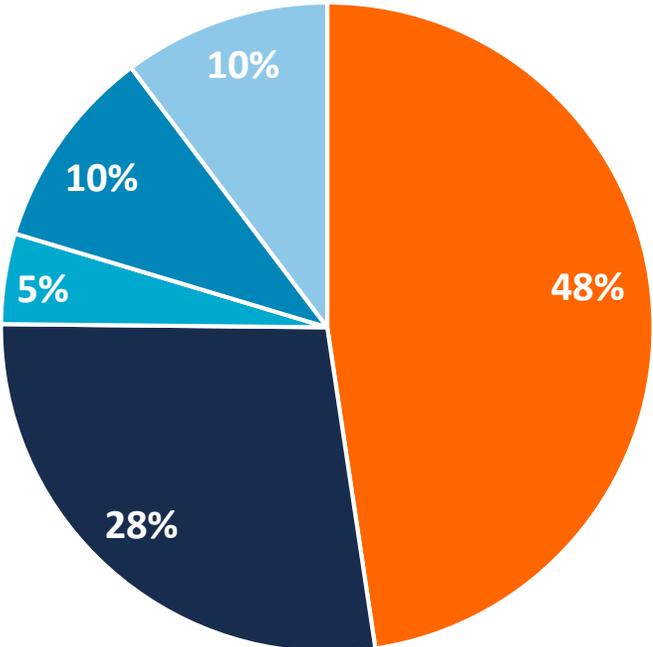
# China is expected to continue dominating Electric Vehicle (EV) market share

Aggressive market share by 2030



China Europe India Rest of the world USA

Conservative market share by 2030



China Europe India Rest of the world USA

**China is expected to continue to maintain its lead being the largest market for Electric Vehicle**

Source: Global EV Outlook 2022, International Energy Agency, Data as on December 31, 2021. Sales of electric two/three-wheelers are not included in this figure. Aggressive estimate is based on Announced Pledged Scenario whereas conservative forecast is based on stated policies scenario.

# EV across the globe is expected to account for 20% of overall sale of automobiles

| Conservative Estimate |       |       | Aggressive Estimate |       |       |
|-----------------------|-------|-------|---------------------|-------|-------|
| EV sale mix           | 2021  | 2030  | EV sale mix         | 2021  | 2030  |
| China                 | 12.2% | 38.8% | China               | 12.2% | 44.0% |
| Europe                | 6.4%  | 33.0% | Europe              | 6.4%  | 43.8% |
| India                 | 0.4%  | 7.3%  | India               | 0.4%  | 22.5% |
| Rest of the world     | 0.8%  | 5.5%  | Rest of the world   | 0.8%  | 13.5% |
| USA                   | 4.6%  | 21.0% | USA                 | 4.6%  | 35.5% |
| World                 | 8.6%  | 17.8% | World               | 8.6%  | 26.8% |

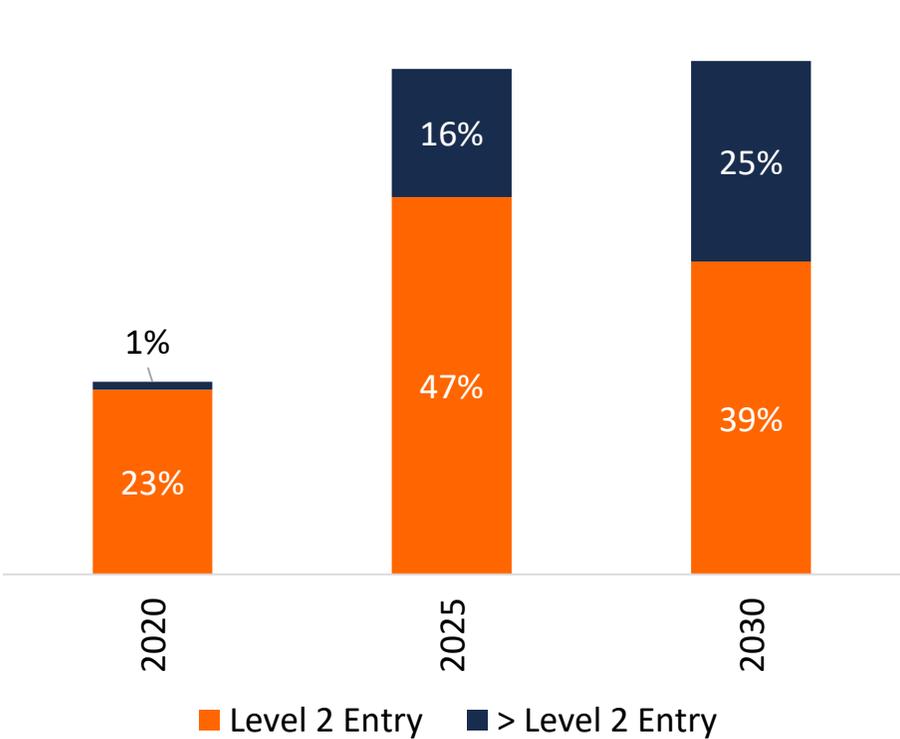
  

| Units of EV Sold  | 2021 | 2030  | Units of EV Sold  | 2021 | 2030  |
|-------------------|------|-------|-------------------|------|-------|
| China             | 35.2 | 129.7 | China             | 35.2 | 133.2 |
| Europe            | 23.5 | 84.5  | Europe            | 23.5 | 111.5 |
| India             | 0.12 | 27.2  | India             | 0.12 | 64.7  |
| Rest of the world | 3.45 | 40.6  | Rest of the world | 3.45 | 96.1  |
| USA               | 6.3  | 34.7  | USA               | 6.3  | 78.4  |
| World             | 65.7 | 316.7 | World             | 65.7 | 483.8 |

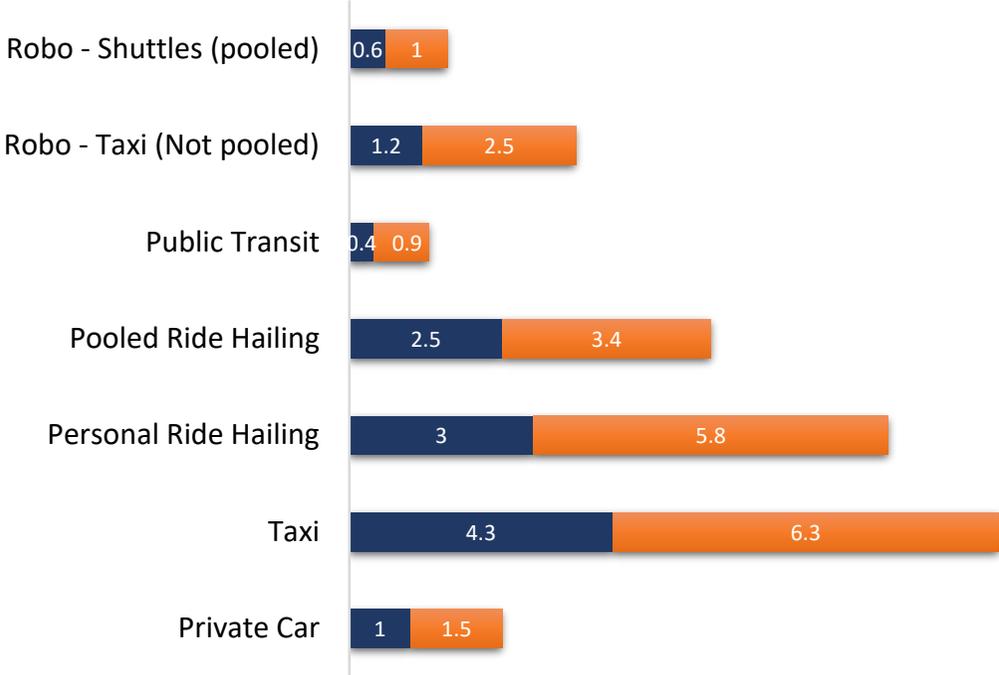
**Electric Car Vehicle (EV) sales share across the globe is expected to increase from 6.5 million in 2021 to ~ 30 million with China leading the pack**

# Autonomous driving feature will continue to evolve significantly

Vehicle with Autonomous Driving Feature, % of total vehicle sale



End customer cost, per mile relative basis  
Lower range - Upper range

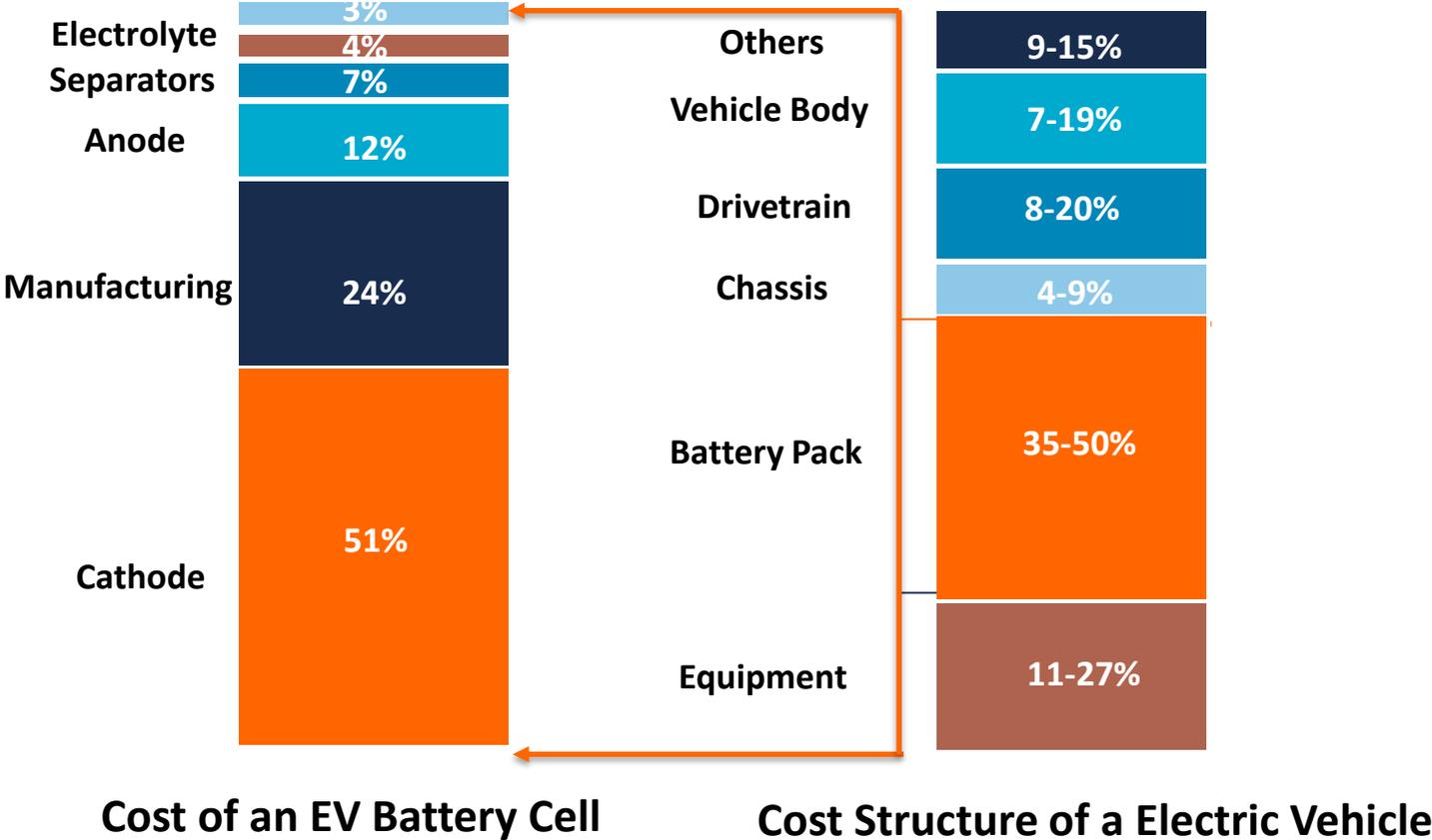


Source: Poised for disruption: Cost per mile for mobility in 2030 (Jan 2022) and Private autonomous vehicles: The other side of the robo-taxi story, McKinsey (December 2020)

# Electric Vehicle Supply Chain

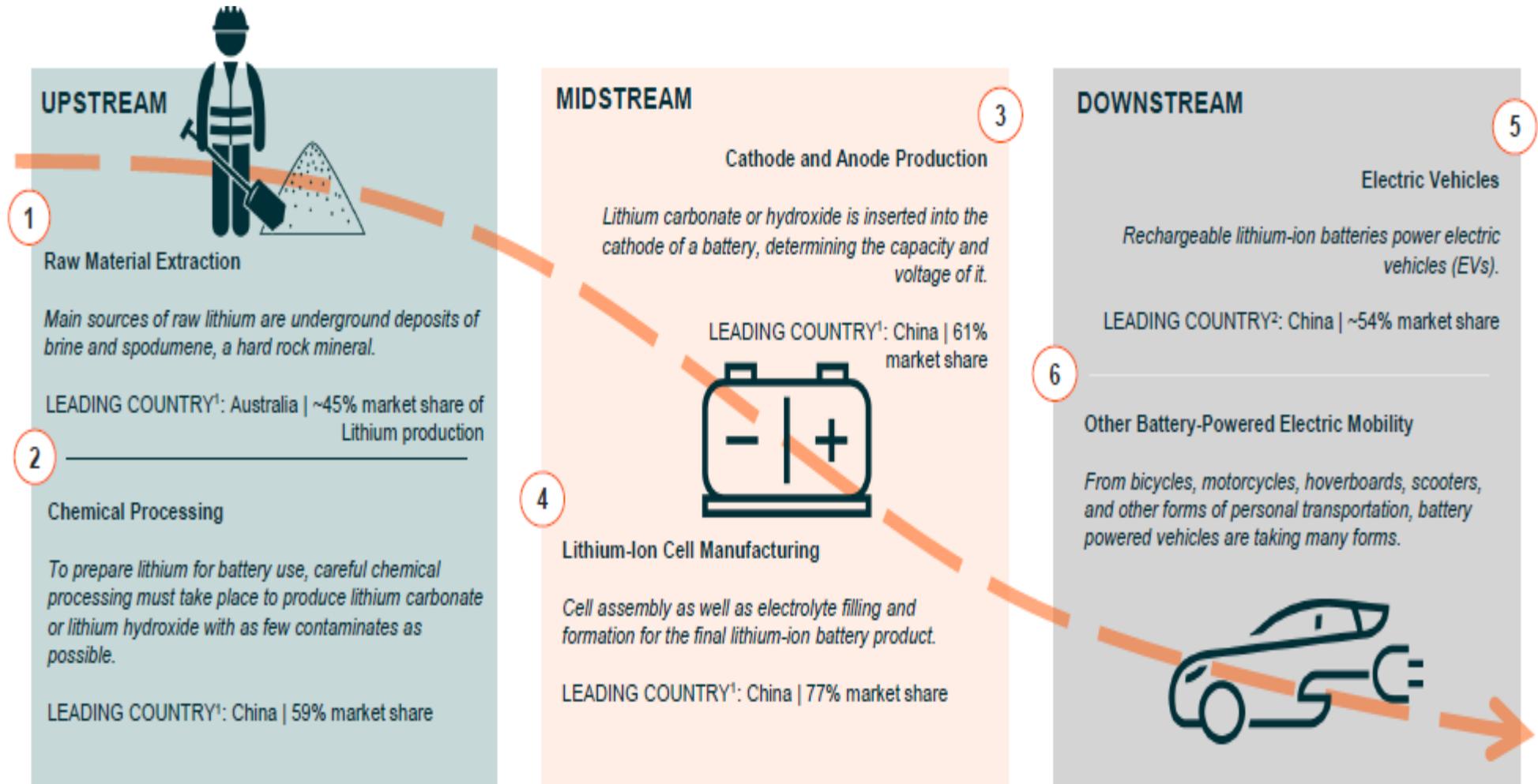
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# Cost Dynamics of a Battery-powered Electric Vehicle



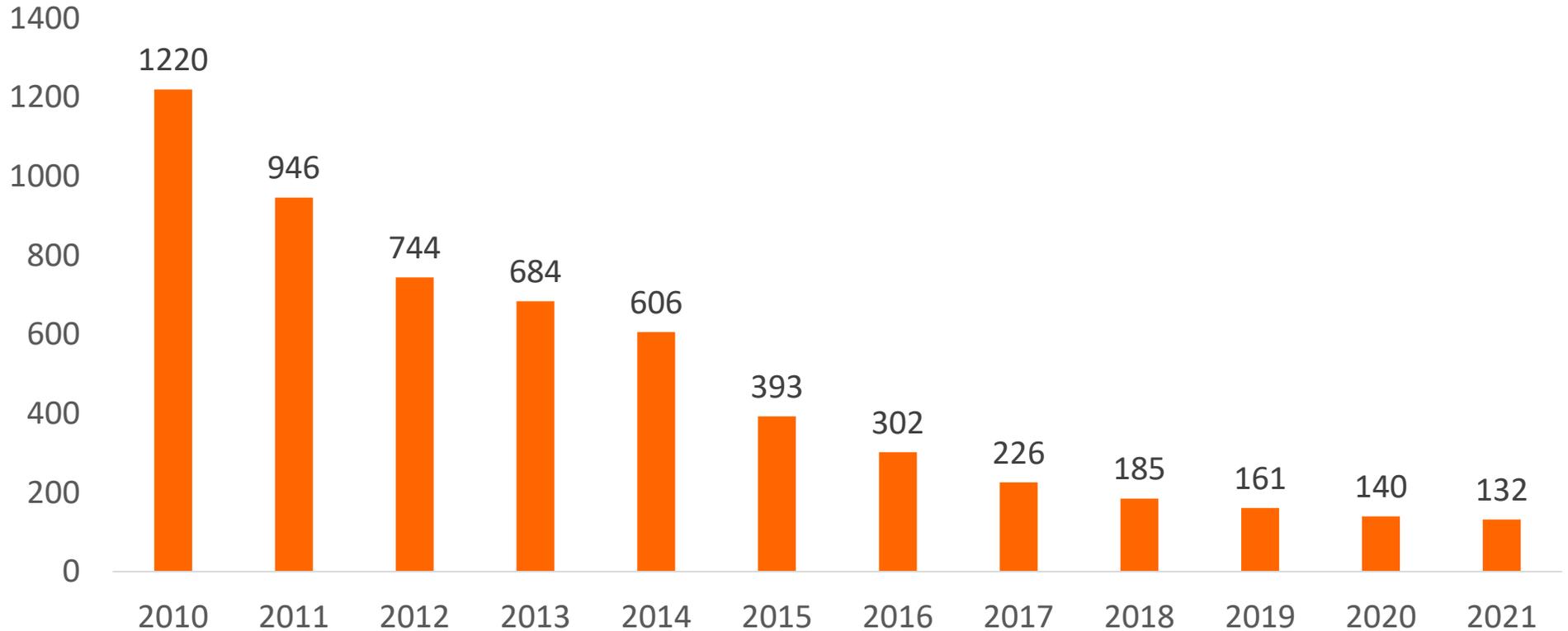
Source: An-Overview-of-Costs-for-Vehicle-Components-Fuels-Greenhouse-Gas-Emissions-and-Total-Cost-of-Ownership-Update, University of California.; Bloomberg NEF

# Understanding Electric Vehicle Supply Chain



# Declining Battery cost is expected to drive up the demand of EV & lithium

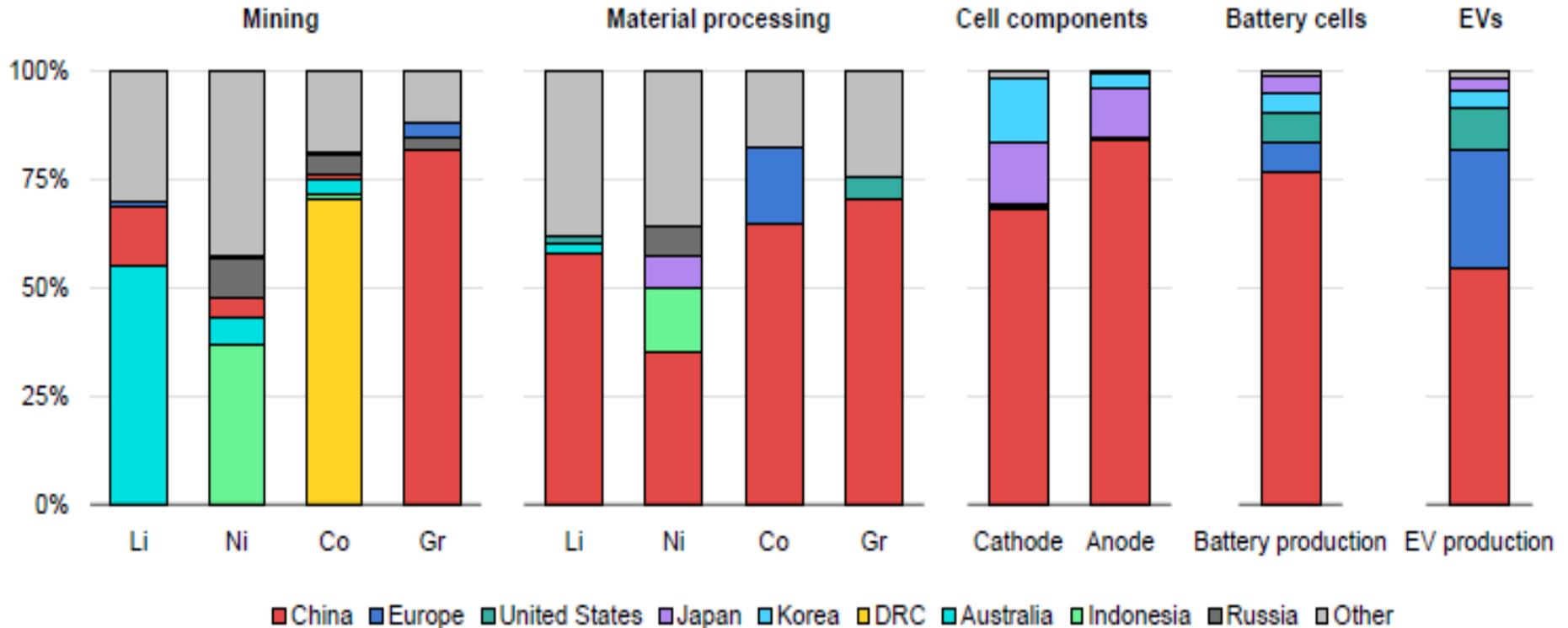
Average Lithium Ion Battery Pack Price(\$/ kWh)



**Continuous fall in the battery cost has made Electric Vehicle (EV) cheaper and is expected that that battery costs could be cut in half by 2030.**

# China dominates the entire downstream EV battery supply chain

Geographical distribution of the global EV battery supply chain



**China dominates production at every stage of the EV battery supply chain.  
Three-quarters of battery cell production capacity is in China**

# Exploring the Future Mobility Landscape

Albemarle Corp  
Ganfeng Lithium  
Livent  
SQM Chile SA

**Raw Material Extraction**

BYD  
Samsung SDI  
Panasonic  
CATL

**Battery Producers**

Intel Corp  
Honeywell Auto  
NVIDIA Corp  
Qualcomm Inc

**Midstream Suppliers**

Tesla  
NIO  
Lucid Group  
XPeng Inc

**Pureplay EV Players**

Volkswagen  
Toyota Motors  
Kia Corp  
General Motors

**Traditional Auto OEMs**

Tesla  
Baidu  
Geely Automotive  
Alphabet

**Autonomous Vehicles**

*\* The companies shown above form part of the index portfolio that the fund may invest in. The weights shown are based on a proposed allocation of 70% : 15% : 15% to Solactive Autonomous & Electric Vehicle Index, Solactive Global Lithium Index and Solactive China Electric Vehicle & Battery Index respectively. The proposed portfolio and their respective weights are shown in slide 34, 35.*

# Portfolio that captures entire ecosystem of Electric & Autonomous Vehicles space \*

## Albemarle

Controls 25% of the lithium market

## Tesla

14% Market Share in Global EV Sales

## XPeng

Leading Player in terms of Auto Technology Patents

## Volkswagen

2<sup>nd</sup> Largest EV Player in the World

## Google

Google's Wyamo leads the race for L4 automation

## Ganfeng Lithium

China's largest Lithium Compound Producer

## Baidu

Achieved Level 4 in Autonomous Driving

## Toyota

30 EV Models by 2025

## Intel

Industry Leader in PLD Tech used by Automotive Sector

## NIKOLA

Uses Hydrogen Fuel Cell Tech for Commercial EVs

*Source: Bloomberg data as on Jun 30, 2022, Company annual reports, Global X Charting Disruption Report; Fortune 500. \* The companies shown above form part of the index portfolio that the fund may invest in. The weights shown are based on a proposed allocation of 70% : 15% : 15% to Solactive Autonomous & Electric Vehicle Index, Solactive Global Lithium Index and Solactive China Electric Vehicle & Battery Index respectively. The proposed portfolio and their respective weights are shown in slide 34, 35.*

# About Mirae Asset Global Electric & Autonomous Vehicles ETFs Fund of Fund

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# About the scheme : Mirae Asset Global Electric & Autonomous Vehicles ETFs Fund of Fund

## **Objective of the fund:**

- The investment objective of the scheme is to provide long-term capital appreciation from a portfolio investing in units of overseas equity ETFs which are based on companies involved in development of Electric & Autonomous Vehicles and related technology, components and materials.

## **What kind of an exposure an investor will get ?**

The fund intends to give exposure to

- manufacturer of electric and autonomous vehicles and components including batteries, fuel cells, car components, communication equipment, Electronic Components, semiconductor, electrical and power equipment's,
- Software's including communication, sensors, mapping, artificial intelligence, Advanced Driver Assistance Systems, ride-share platforms and network-connected services for transportation.
- Chemicals and raw materials including metal mining and products (for example lithium, cobalt etc.)

## **Where will the Fund invest?**

The Fund invests in:

- Global X Electric and Autonomous Vehicles ETF/UCITS
- Global X Lithium & Battery Tech ETF/UCITS
- Global X China Electric Vehicle and Battery ETF

## **Benchmark of the fund?**

- Solactive Autonomous & Electric Vehicles Index (TRI) (INR)

## Description of investments in underlying Exchange Traded Funds (ETFs)

| ETF   | Description   | Proposed Fund of Fund Exposure (Approx. range) |
|---|---|--|
| Global X Lithium & Battery Tech ETF             | <ul style="list-style-type: none"> <li>➤ Th ETF seeks to invest in companies that are active in lithium mining, exploration or a closely related activity, and/or production of lithium batteries.</li> <li>➤ The minimum number of constituents is 20 and the maximum number of constituents is 40.</li> </ul>   | 10%-15%  |
| Global X Autonomous & Electric Vehicles ETF     | <ul style="list-style-type: none"> <li>➤ The ETF seeks to invest in companies that have or are expected to have significant exposure to Electric Vehicles and Autonomous Driving segments.</li> <li>➤ The companies are classified into three type namely Electric Vehicle (EV) Company, Electric Vehicle Component (EVC) Company and Autonomous Vehicle Technology (AVT). 15, 30 and 30 company on maximum are selected for EV, EVC and AVT segment each respectively.</li> </ul>                                | 70% -80 %                                      |
| Global X China Electric Vehicle and Battery ETF | <ul style="list-style-type: none"> <li>➤ The ETF seeks to invest in 35 Chinese companies positioned to benefit from increasing penetration of electric vehicles, including companies that produce electric vehicles (“EVs”), EV components such as lithium batteries, equipment for battery production, and critical battery materials such as lithium and cobalt.</li> <li>➤ The company must be headquartered in mainland China or Hong Kong. The security can be listed in Hong Kong, China or U.S.</li> </ul> | 10%-15%  |

The Fund of Fund will usually invest around the above mentioned range with some deviation based on parameters like momentum and/or volatility. The Fund of Fund may choose to invest in other ETFs and alter the allocation in accordance with the scheme Information Document.

Source: Global X and Solactive Benchmark as on March 31, 2023; The above mentioned allocation is the proposed framework for the Scheme within the provisions of the Scheme Information Document and may or may not change in future without any prior notice.

## Details of the underlying Exchange Traded Funds (ETFs)

| Underlying ETF                                  | Inception Date | TER   | Net Asset  | Underlying Index                                   | No. of holdings | Listing   |
|---|----------------|-------|------------|--|-----------------|-----------|
| Global X Autonomous & Electric Vehicles ETF     | 13-04-2018     | 0.68% | \$ 850 Mn  | Solactive Autonomous & Electric Vehicles Index.    | 75              | U.S.      |
| Global X Lithium & Battery Tech ETF             | 22-07-2010     | 0.75% | \$ 3.28 Bn | Solactive Global Lithium Index                     | 42              | U.S.      |
| Global X China Electric Vehicle and Battery ETF | 16-01-2020     | 0.68% | \$ 404 Mn  | Solactive China Electric Vehicle and Battery Index | 35              | Hong Kong |

The scheme may choose to invest in the UCITS ETF where available due to lower cost. The details of UCITS listed ETF are as follows:

| Underlying ETF                                    | Inception Date | TER   | Net Asset   | Underlying Index                                   | No. of holdings | Listing |
|---|----------------|-------|-------------|--|-----------------|---------|
| Global X Autonomous & Electric Vehicles UCITS ETF | 16-11-2021     | 0.50% | \$ 10.02 Mn | Solactive Autonomous & Electric Vehicles v2 Index. | 80              | London  |
| Global X Lithium & Battery Tech UCITS ETF         | 07-12-2021     | 0.60% | \$ 37.05 Mn | Solactive Global Lithium v2 Index                  | 44              | London  |

## Periodic performance comparison

| Particular  | Since Apr'19  | 3 Year        | 2 Year       | 1 Year        | 3 month       |
|---|---------------|---------------|--------------|---------------|---------------|
| Solactive Autonomous & Electric Vehicles Index (INR) <b>(A)</b>     | 21.56%        | 33.89%        | 1.38%        | -5.16%        | 18.27%        |
| Solactive Global Lithium Index (INR) <b>(B)</b>                     | 28.51%        | 48.26%        | 12.25%       | -9.84%        | 6.91%         |
| Solactive China Electric Vehicle and Battery Index (INR) <b>(C)</b> | 30.57%        | 32.90%        | 5.44%        | -18.29%       | -4.16%        |
| <b>Weighted Average Return (INR) * (Ratio A:B:C)</b>                | <b>25.46%</b> | <b>37.58%</b> | <b>4.89%</b> | <b>-6.71%</b> | <b>13.03%</b> |
| NASDAQ-100 Index (INR)  | 21.37%        | 23.54%        | 6.98%        | -2.77%        | 19.94%        |
| S&P 500 Index (INR)   | 16.22%        | 22.10%        | 9.25%        | 0.07%         | 6.76%         |
| Nifty 50 Index (INR)  | 11.74%        | 27.82%        | 9.99%        | 0.59%         | -4.03%        |
| INR/USD   | 4.42%         | 2.94%         | 5.76%        | 8.46%         | -0.69%        |

Source: Bloomberg data as on March 31, 2023; Exchange rate of FBIL are used for conversion of index value from USD 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. \* Weighted Average Return is based on allocation to underlying three indices of 70% : 15% : 15% to (A) Solactive Autonomous & Electric Vehicle Index, (B) Solactive Global Lithium Index and (C) Solactive China Electric Vehicle & Battery Index respectively, reset on a daily basis. Since April 1, 2019. IF INR appreciates against the currency in which investments are made then the value of foreign asset declines as a result of which the fund investing in such foreign asset will also bear the impact of it

## Periodic volatility comparison

| Particular  | Since Apr'19 | 3 Year       | 2 Year       | 1 Year       | 3 month      |
|---|--------------|--------------|--------------|--------------|--------------|
| Solactive Autonomous & Electric Vehicles Index (INR) <b>(A)</b>     | 28.4%        | 27.2%        | 27.1%        | 30.9%        | 24.0%        |
| Solactive Global Lithium Index (INR) <b>(B)</b>                     | 29.3%        | 28.5%        | 26.5%        | 25.0%        | 20.6%        |
| Solactive China Electric Vehicle and Battery Index (INR) <b>(C)</b> | 38.0%        | 39.1%        | 38.1%        | 35.4%        | 21.6%        |
| <b>Weighted Average Risk* (INR) (Ratio A:B:C)</b>                   | <b>25.6%</b> | <b>24.6%</b> | <b>23.9%</b> | <b>25.9%</b> | <b>20.6%</b> |
| NASDAQ-100 Index (INR)  | 27.9%        | 26.7%        | 26.7%        | 31.3%        | 23.1%        |
| S&P 500 Index (INR)   | 23.3%        | 20.5%        | 20.0%        | 23.9%        | 17.6%        |
| Nifty 50 Index (INR)  | 20.7%        | 18.1%        | 15.3%        | 15.0%        | 11.8%        |

**Lower correlation among the three underlying indices aids diversification at portfolio level resulting in relatively lower aggregate portfolio volatility**

*Source: Bloomberg data as on March 31, 2023; Exchange rate of FBIL are used for conversion of index value from USD 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. \* Weighted Average RISK is based on allocation to underlying three indices of 70% : 15% : 15% to (A) Solactive Autonomous & Electric Vehicle Index, (B) Solactive Global Lithium Index and (C) Solactive China Electric Vehicle & Battery Index respectively, reset on a daily basis. Since April 1, 2019.*

## Exposure to entire spectrum of Electric Vehicle supply chain

| GICS Sub-Industry            | Solactive Autonomous & Electric Vehicles Index | Solactive Global Lithium Index | Solactive China Electric Vehicle & Battery Index | Weighted Avg. Industry Exposure* (70%-15%-15%) |
|------------------------------|--|--------------------------------|--|--|
| Automobiles                  | 23.3%  | 14.6%                          | 10.2%  | 20.0%  |
| Semiconductors               | 20.4%  | 3.1%                           | 1.7%   | 15.0%  |
| Chemicals                    | 5.6%   | 29.1%                          | 37.5%  | 13.9%  |
| Electrical Equipment         | 6.4%   | 17.0%                          | 30.5%  | 11.6%  |
| Automobile Components        | 11.1%  | 0.7%                           | 2.9%   | 8.3%   |
| Metals & Mining              | 8.2%   | 13.0%                          | 2.8%   | 8.1%   |
| Machinery                    | 4.6%   | 2.4%                           | 13.9%  | 5.6%   |
| Electronic Equipment         | 2.5%   | 13.9%                          | 0.6%   | 3.9%   |
| Interactive Media & Services | 4.8%   | -                              | -  | 3.3%   |
| Software                     | 4.3%   | -                              | -  | 3.0%   |
| Industrial Conglomerates     | 4.1%   | -                              | -  | 2.9%   |
| Technology Hardware          | 3.5%   | -                              | -  | 2.4%   |
| Household Durables           | 1.2%   | 6.2%                           | -  | 1.8%   |

Source: Bloomberg data as on March 31, 2023. 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. \* Weighted Average Industry Exposure is based on allocation to underlying three indices of 70% : 15% : 15% to Solactive Autonomous & Electric Vehicle Index, Solactive Global Lithium Index and C. Solactive China Electric Vehicle & Battery Index respectively. The sector(s )/stock(s)/issuer(s) mentioned in this presentation do not constitute any research report/recommendation of the same and the Fund may or may not have any future position in these sector(s )/stock(s)/issuer. GICS stands for Global Industry Classification Standard

## Diversified country exposure

| Country       | Solactive Autonomous & Electric Vehicles Index | Solactive Global Lithium Index | Solactive China Electric Vehicle and Battery Index | Proposed Weighted Average Exposure * (70%-15%-15%) |
|---------------|--|--------------------------------|--|--|
| UNITED STATES | 55.6%  | 21.8%                          | -  | 42.2%  |
| CHINA         | 4.4%   | 36.1%                          | 100.0%   | 23.5%  |
| JAPAN         | 10.5%  | 11.9%                          | -  | 9.1%   |
| SOUTH KOREA   | 3.7%   | 12.1%                          | -  | 4.4%   |
| AUSTRALIA     | 2.6%   | 11.5%                          | -  | 3.5%   |
| CANADA        | 4.6%   | 0.8%                           | -  | 3.4%   |
| NETHERLANDS   | 4.2%   | -                              | -  | 3.0%   |
| GERMANY       | 4.1%   | -                              | -  | 2.8%   |
| FRANCE        | 2.0%   | -                              | -  | 1.4%   |
| CHILE         | 1.0%   | 4.1%                           | -  | 1.3%   |
| SWITZERLAND   | 1.7%   | -                              | -  | 1.2%   |
| IRELAND       | 1.4%   | -                              | -  | 1.0%   |
| TAIWAN        | 0.9%   | 0.6%                           | -  | 0.7%   |
| LUXEMBOURG    | 0.9%   | -                              | -  | 0.6%   |
| BRITAIN       | 0.9%   | -                              | -  | 0.6%   |
| HONG KONG     | 0.8%   | -                              | -  | 0.6%   |
| ISRAEL        | 0.6%   | -                              | -  | 0.5%   |

### Geographically diversified exposure to relevant companies belonging to EV and AV ecosystem

Source: Bloomberg data as on March 31, 2023. 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. \* Weighted Average exposure of the fund is based on allocation to underlying three indices of 70% : 15% : 15% to Solactive Autonomous & Electric Vehicle Index, Solactive Global Lithium Index and Solactive China Electric Vehicle & Battery Index respectively.

## Why you may consider investing in the fund ?

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- Endeavours to provide exposure to the entire ecosystem of Electric and Autonomous Vehicles, from Mining to Vehicle Manufactures.
- Seeks to have a diversified portfolio with exposure to companies from multiple countries catering to the theme.
- Comparatively lower cost due investments in Exchange traded funds. Also ensures higher portfolio transparency and lower active risk ~
- Thematic investments may seek to provide exposure to upcoming segments with high potential but are also associated with higher risk/Volatility.

Source: Bloomberg data as on March 31, 2023; Exchange rate of FBIL are used for conversion of index value from USD 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. \* Weighted average return is based on allocation to underlying three indices of 70% : 15% : 15% to Solactive Autonomous & Electric Vehicle Index, Solactive Global Lithium Index and Solactive China Electric Vehicle & Battery Index respectively. ~Investors may note that they will bear recurring expenses of the underlying scheme in addition to the expenses of this scheme.

## Constituent from underlying ETFs forming part of the fund (Part 1)\*

| Sr. No. | Company Name                 | Weight* | Sr. No. | Company Name              | Weight* |
|---------|------------------------------|---------|---------|---------------------------|---------|
| 1       | TESLA INC                    | 3.99%   | 26      | GENERAL MOTORS CO         | 1.12%   |
| 2       | NVIDIA CORP                  | 3.30%   | 27      | BAIDU INC - SPON ADR      | 1.11%   |
| 3       | APPLE INC                    | 2.42%   | 28      | STELLANTIS NV             | 1.10%   |
| 4       | CONTEMPORARY AMPEREX TECHN-A | 2.26%   | 29      | FORD MOTOR CO             | 1.08%   |
| 5       | ALPHABET INC-CL A            | 2.23%   | 30      | HONDA MOTOR CO LTD        | 1.05%   |
| 6       | ALBEMARLE CORP               | 2.20%   | 31      | PILBARA MINERALS LTD      | 1.04%   |
| 7       | QUALCOMM INC                 | 2.06%   | 32      | HYSTER-YALE MATERIALS     | 1.00%   |
| 8       | INTEL CORP                   | 2.03%   | 33      | APTIV PLC                 | 0.99%   |
| 9       | TOYOTA MOTOR CORP            | 1.94%   | 34      | SAMSUNG SDI CO LTD        | 0.98%   |
| 10      | EVE ENERGY CO LTD-A          | 1.87%   | 35      | INDIE SEMICONDUCTOR INC-A | 0.94%   |
| 11      | GANFENG LITHIUM GROUP CO L-A | 1.86%   | 36      | KIA CORP                  | 0.90%   |
| 12      | PANASONIC HOLDINGS CORP      | 1.76%   | 37      | IGO LTD                   | 0.90%   |
| 13      | HONEYWELL INTERNATIONAL INC  | 1.73%   | 38      | DENSO CORP                | 0.89%   |
| 14      | MICROSOFT CORP               | 1.58%   | 39      | ENERSYS                   | 0.88%   |
| 15      | TIANQI LITHIUM CORP-A        | 1.55%   | 40      | LUCID GROUP INC           | 0.88%   |
| 16      | BYD CO LTD -A                | 1.52%   | 41      | BYD CO LTD-H              | 0.88%   |
| 17      | SHENZHEN INOVANCE TECHNOLO-A | 1.50%   | 42      | ALLKEM LTD                | 0.85%   |
| 18      | LG ENERGY SOLUTION           | 1.41%   | 43      | VOLKSWAGEN AG-PREF        | 0.85%   |
| 19      | QUIMICA Y MINERA CHIL-SP ADR | 1.32%   | 44      | HYUNDAI MOTOR CO          | 0.85%   |
| 20      | INFINEON TECHNOLOGIES AG     | 1.28%   | 45      | LIVENT CORP               | 0.81%   |
| 21      | GUANGZHOU TINCI MATERIALS -A | 1.23%   | 46      | NISSAN MOTOR CO LTD       | 0.79%   |
| 22      | HITACHI LTD                  | 1.16%   | 47      | WABTEC CORP               | 0.78%   |
| 23      | NXP SEMICONDUCTORS NV        | 1.16%   | 48      | LITHIUM AMERICAS CORP     | 0.78%   |
| 24      | STMICROELECTRONICS NV        | 1.16%   | 49      | QUANTUMSCAPE CORP         | 0.78%   |
| 25      | ON SEMICONDUCTOR             | 1.14%   | 50      | ATI INC                   | 0.77%   |

Source: Bloomberg data as on March 31, 2023. Past performance may or may not sustain in future. \* The Proposed Weighted Average Holdings is based on allocation to underlying three indices of 70% : 15% : 15% to Solactive Autonomous & Electric Vehicle Index, Solactive Global Lithium Index and Solactive China Electric Vehicle & Battery Index respectively.

## Constituent from underlying ETFs forming part of the fund (Part 2)\*

| Sr. No. | Company Name                 | Weight* | Sr. No. | Company Name                 | Weight* |
|---------|------------------------------|---------|---------|------------------------------|---------|
| 51      | BLACKBERRY LTD               | 0.76%   | 76      | BALLARD POWER SYSTEMS INC    | 0.59%   |
| 52      | XPENG INC - ADR              | 0.75%   | 77      | AMBARELLA INC                | 0.59%   |
| 53      | GS YUASA CORP                | 0.75%   | 78      | GEELY AUTOMOBILE HOLDINGS LT | 0.58%   |
| 54      | FAURECIA                     | 0.73%   | 79      | BLOOM ENERGY CORP- A         | 0.55%   |
| 55      | VISTEON CORP                 | 0.72%   | 80      | AMERICAN AXLE & MFG HOLDINGS | 0.55%   |
| 56      | CONTINENTAL AG               | 0.72%   | 81      | SUNWODA ELECTRONIC CO LTD-A  | 0.55%   |
| 57      | TDK CORP                     | 0.72%   | 82      | GENTHERM INC                 | 0.54%   |
| 58      | NIO INC - ADR                | 0.71%   | 83      | NEXTEER AUTOMOTIVE GROUP LTD | 0.52%   |
| 59      | LEAR CORP                    | 0.71%   | 84      | GANFENG LITHIUM GROUP CO L-H | 0.51%   |
| 60      | LUMINAR TECHNOLOGIES INC     | 0.71%   | 85      | PLUG POWER INC               | 0.49%   |
| 61      | TOMTOM NV                    | 0.70%   | 86      | WUXI LEAD INTELLIGENT EQUI-A | 0.49%   |
| 62      | RENAULT SA                   | 0.70%   | 87      | MINERAL RESOURCES LTD        | 0.47%   |
| 63      | CABOT CORP                   | 0.69%   | 88      | NAURA TECHNOLOGY GROUP CO-A  | 0.47%   |
| 64      | ITT INC                      | 0.68%   | 89      | INNOVIZ TECHNOLOGIES LTD     | 0.45%   |
| 65      | MICROVISION INC              | 0.65%   | 90      | CNGR ADVANCED MATERIAL CO -A | 0.45%   |
| 66      | APERAM                       | 0.64%   | 91      | MICROVAST HOLDINGS INC       | 0.43%   |
| 67      | CEVA INC                     | 0.63%   | 92      | SHENZHEN CAPCHEM TECHNOLOG-A | 0.40%   |
| 68      | YUNNAN ENERGY NEW MATERIAL-A | 0.62%   | 93      | GOTION HIGH-TECH CO LTD-A    | 0.40%   |
| 69      | COHERENT CORP                | 0.62%   | 94      | NINGBO RONBAY NEW ENERGY T-A | 0.38%   |
| 70      | PIEDMONT LITHIUM INC         | 0.62%   | 95      | RIVIAN AUTOMOTIVE INC-A      | 0.37%   |
| 71      | LUNDIN MINING CORP           | 0.62%   | 96      | BEIJING EASPRING MATERIAL-A  | 0.36%   |
| 72      | JOHNSON MATTHEY PLC          | 0.61%   | 97      | NINGBO SHANSHAN CO LTD-A     | 0.35%   |
| 73      | ADVANCED ENERGY SOLUTION HOL | 0.61%   | 98      | NIKOLA CORP                  | 0.30%   |
| 74      | SHANGHAI PUTAILAI NEW ENER-A | 0.61%   | 99      | L&F CO LTD                   | 0.29%   |
| 75      | STANDARD LITHIUM LTD         | 0.60%   | 100     | SHENZHEN DYNANONIC CO LTD-A  | 0.27%   |

Source: Bloomberg data as on March 31, 2023. Past performance may or may not sustain in future. \* The Proposed Weighted Average Holdings is based on allocation to underlying three indices of 70% : 15% : 15% to Solactive Autonomous & Electric Vehicle Index, Solactive Global Lithium Index and Solactive China Electric Vehicle & Battery Index respectively.

## Constituent from underlying ETFs forming part of the fund (Part 3)\*

| Sr. No. | Company Name                 | Weight* |
|---------|------------------------------|---------|
| 101     | ZHEJIANG HUAYOU COBALT CO -A | 0.25%   |
| 102     | FUYAO GLASS INDUSTRY GROUP-A | 0.23%   |
| 103     | ZHEJIANG SANHUA INTELLIGEN-A | 0.21%   |
| 104     | ZHUZHOU CRRC TIMES ELECTRI-A | 0.17%   |
| 105     | PYLON TECHNOLOGIES CO LTD-A  | 0.17%   |
| 106     | GEM CO LTD-A                 | 0.17%   |
| 107     | STARPOWER SEMICONDUCTOR LT-A | 0.17%   |
| 108     | LIONTOWN RESOURCES LTD       | 0.16%   |
| 109     | CANMAX TECHNOLOGIES CO LTD-A | 0.12%   |
| 110     | HONGFA TECHNOLOGY CO LTD-A   | 0.11%   |
| 111     | DO-FLUORIDE NEW MATERIALS -A | 0.11%   |
| 112     | SIGMA LITHIUM CORP           | 0.10%   |
| 113     | CHENGXIN LITHIUM GROUP CO-A  | 0.10%   |
| 114     | NINGBO TUOPU GROUP CO LTD-A  | 0.10%   |
| 115     | SHENZHEN KEDALI INDUSTRY C-A | 0.10%   |
| 116     | GUANGZHOU GREAT POWER ENER-A | 0.10%   |
| 117     | WUXI AUTOWELL TECHNOLOGY C-A | 0.10%   |
| 118     | SHENZHEN SENIOR TECHNOLOGY-A | 0.10%   |
| 119     | XIAMEN FARATRONIC CO LTD-A   | 0.09%   |
| 120     | ENOVIX CORP                  | 0.09%   |
| 121     | SIMPLO TECHNOLOGY CO LTD     | 0.09%   |
| 122     | JAPAN STEEL WORKS LTD        | 0.07%   |
| 123     | CORE LITHIUM LTD             | 0.05%   |
| 124     | FREYR BATTERY SA             | 0.05%   |
| 125     | SAYONA MINING LTD            | 0.05%   |

Source: Bloomberg data as on March 31, 2023 . Past performance may or may not sustain in future. \* The Proposed Weighted Average Holdings is based on allocation to underlying three indices of 70% : 15% : 15% to Solactive Autonomous & Electric Vehicle Index, Solactive Global Lithium Index and Solactive China Electric Vehicle & Battery Index respectively.

# Disclaimers

Since the scheme is in existence for less than 6 Month, as per SEBI regulation performance of the scheme has not been shown

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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](http://www.miraeassetmf.co.in)

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

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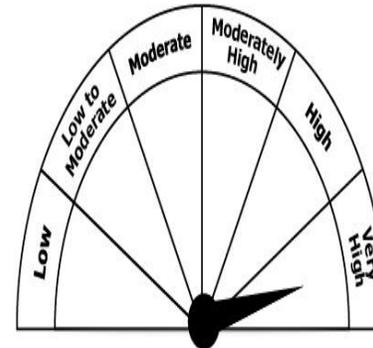
# PRODUCT LABELLING

Mirae Asset Global Electric & Autonomous Vehicles ETFs Fund of Fund is suitable for investors who are seeking\*

- To generate long-term capital appreciation/income
- Investments in units of equity ETFs which are based on companies involved in development of Electric & Autonomous Vehicles and related technology, components and materials

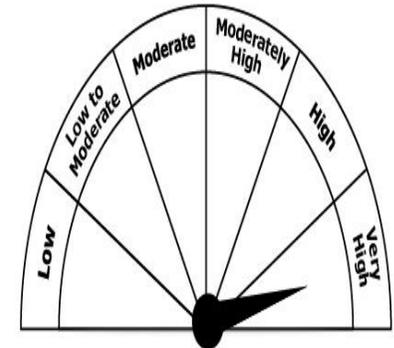
\*Investors should consult their financial advisors if they are not clear about the suitability of the product.

Scheme Riskometer



Investors understand that their principal will be at Very High Risk

Scheme Benchmark: Solactive Autonomous & Electric Vehicles Index (TRI) (INR)



The Benchmark is at Very High Risk

THANK YOU

