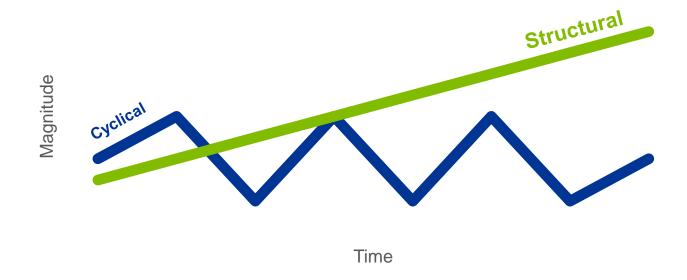
#### **Jeff Spiegel**

September 2019

# BlackRock。 Megatrend Investing

# Structural vs cyclical themes

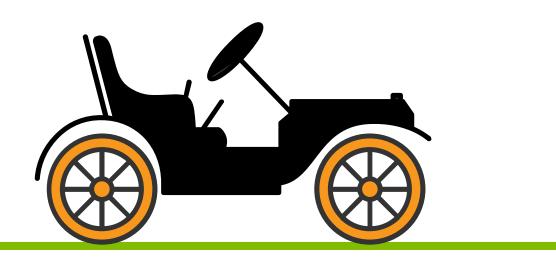


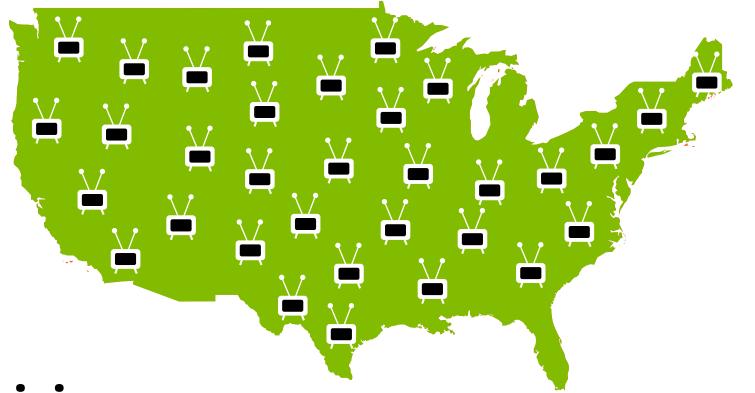
Structural themes are long-term opportunities driven by powerful transformations in our economy and society

# Structural theme: horses vs cars



# Between 1905 and 1930, the number of horse carriages fell 93%.





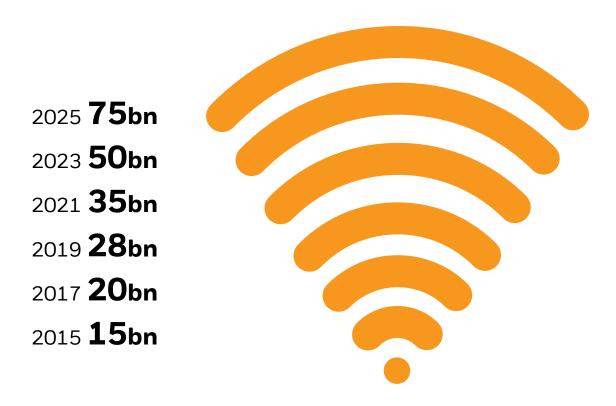
0.01% 1946<sup>1</sup>

83% 1958<sup>2</sup>

Televisions in American households

<sup>1 &</sup>quot;1920s-1960s Television", Elon University School of Communications
2 "Number of TV Households in America", Buffalo History Museum

# Global devices connected to the Internet



# What Americans will sacrifice for 'screen time'

49%

willing to give up desert<sup>1</sup>



74%

willing to give up alcohol<sup>1</sup>



# Investing in the future

bankruptcy

#### Too narrow

Specific stocks can be volatile. Picking winners and losers is hard.

1999 - 2001 total return

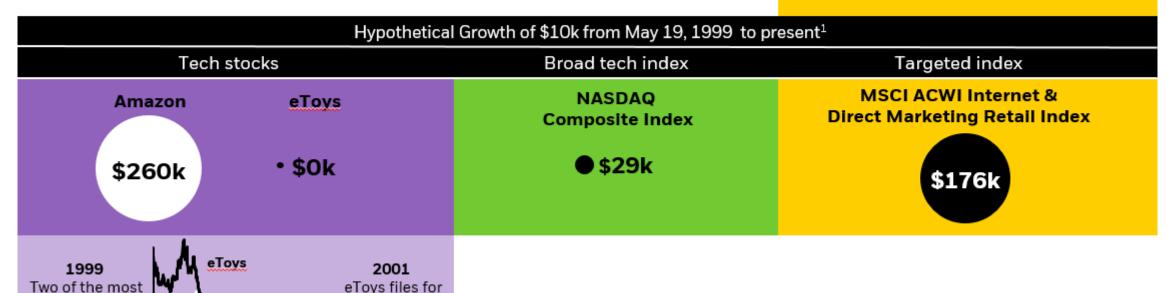
promising brands

#### Too broad

Broad indexes may be too diversified to offer outperformance.

### **Targeted megatrend index**

Seeking balance between specific stocks and broad based indexes.



# BlackRock's 5 Megatrends

Megatrends are the long-term, transformational forces influencing the future of our global economy & society.

BlackRock believes five key trends will drive seismic shifts today and for years to come:



## Technological breakthrough

Technology is driving exponential progress in the tech sector and far beyond

- Artificial intelligence
- Robotics
- Cybersecurity



### Demographics & social change

Longer lifespans and modern lifestyles will change medicine and consumer habits

- Genetics
- Immune system research
- Aging



### Rapid urbanization

Mass migration to cities will require new business models and infrastructure

- Infrastructure
- Megacities
- Transit and transportation



## Climate change & resource scarcity

Demand for a clean, green tomorrow will advance energy and conservation

- Self-driving cars
- Clean energy
- Electric vehicles



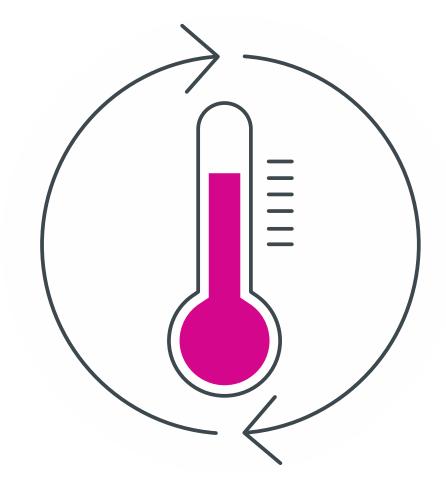
### Emerging global wealth

Newly affluent consumers will expand in Asia and across emerging markets

- Mainland China
- Emerging consumers
- Digital economies

# Climate Change & Resource Scarcity

Renewables are set to represent 3/4 of the \$12T the world invests in new power technology through 20401



# A potential structural growth opportunity

Annual Electric Vehicle (EV) sales globally





11

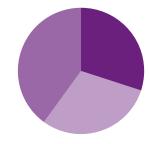
# What's driving the transport revolution?



Consumers







**Technology** 

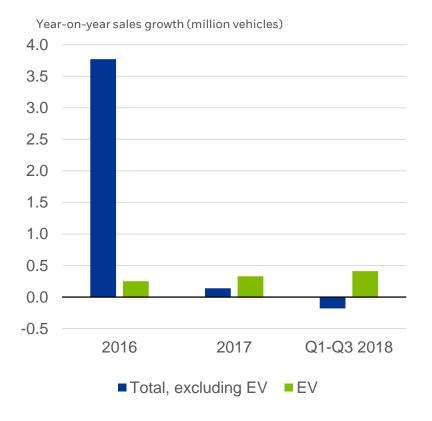
**Economics** 

### Shift to EVs in China

#### Chinese Auto sales growth slowed sharply in September



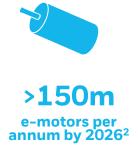
#### EVs are ALL the growth in China's auto market

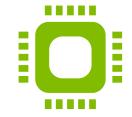


# A potential structural growth opportunity

Components, technology, and infrastructure







95%

Decrease in price of EV battery from 2010-20303



>\$50bn in charging infrastructure by 2030<sup>1</sup>

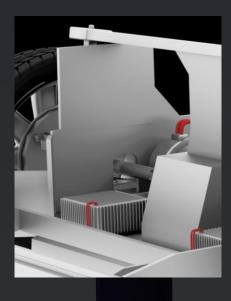
<sup>&</sup>lt;sup>1</sup> "WiTricity Acquires Qualcomm Halo", Feb 2019, WiTricity

<sup>&</sup>lt;sup>2</sup> "Automotive High-Performance EV Market", June 2019, Marketwatch

<sup>&</sup>lt;sup>3</sup> "Behind the Scenes Take Lithium Ion Battery Prices", March 2019, Goldie-Scot, Bloomberg

# Owning the value chain

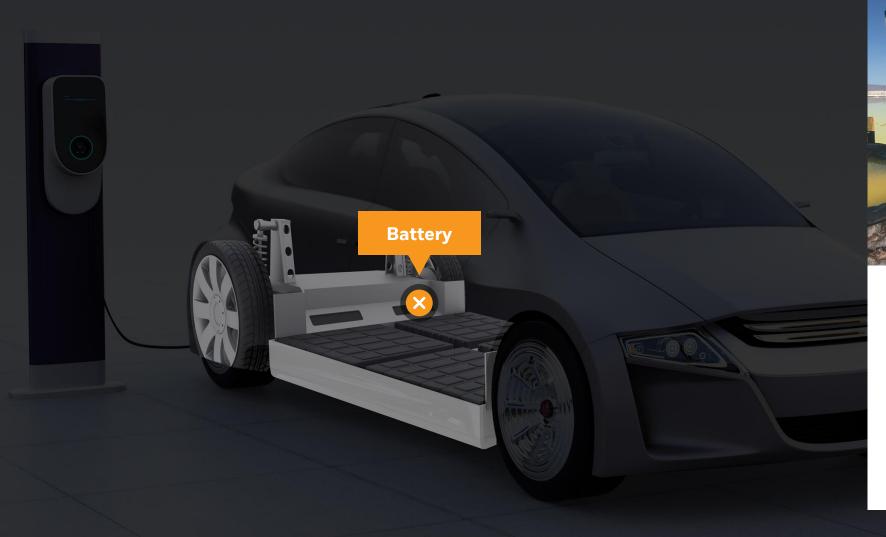




### <u>Valeo</u>

French maker of the electric engines that are EV's hearts and the LiDAR equipment that is a self-driving car's eyes.







# Albemarle Corporation

US-listed producer of lithium and specialty chemicals.

#1 one supplier of lithium in the world.





### <u>Infineon</u>

Germany-listed, leading producer of automotive semiconductors.

Average EV has approximately 15 times the power-semiconductor content of an internal combustion engine vehicle.





### **ABB**

Swiss-based leader in smart power, charging infrastructure and technology.

# Megatrends are shaping our future

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### **Important Information**

Carefully consider the Funds' investment objectives, risk factors, and charges and expenses before investing. This and other information can be found in the Funds' prospectuses or, if available, the summary prospectuses which may be obtained by visiting www.iShares.com or www.blackrock.com. Read the prospectus carefully before investing.

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International investing involves risks, including risks related to foreign currency, limited liquidity, less government regulation and the possibility of substantial volatility due to adverse political, economic or other developments. These risks often are heightened for investments in emerging/ developing markets or in concentrations of single countries.

Funds that concentrate investments in specific industries, sectors, markets or asset classes may underperform or be more volatile than other industries, sectors, markets or asset classes and than the general securities market.

Technology companies may be subject to severe competition and product obsolescence. Technologies perceived to displace older technologies or create new markets may not in fact do so. Companies that initially develop a novel technology may not be able to capitalize on the technology.

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