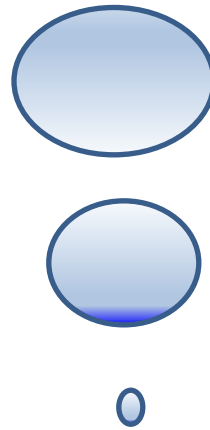


**WinterGreen Research, INC.**



**New Industrial Revolution Sample:  
Market Shares, Strategies, and Forecasts,  
Worldwide, 2019 to 2025**



[www.wintergreenresearch.com](http://www.wintergreenresearch.com)  
(781) 863-5078

**WinterGreen Research, Inc.**  
**Lexington, Massachusetts**

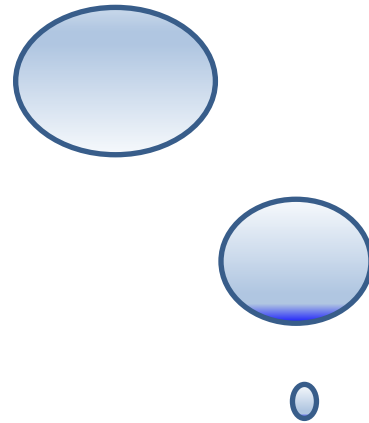
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**CHECK OUT THESE KEY TOPICS**

**New Industrial Revolution Markets: 25 New Trillion Dollar Markets**

New Industrial Revolution  
IoT sensors  
Robot equipment  
AI  
Smart Phones  
Retail

E-commerce  
Wellness  
5G  
Smart Cities  
Bio-Materials  
Industry 4.0  
Marketing Globally

Supply chain  
Ride hailing  
Augmented reality  
Tablets and APPs

**New Industrial Revolution Market Opportunities and Types:**

Industry 4.0 Smart Manufacturing Market Forecast	9
Augmented Reality	9
Supply Chain Automation Market	10
Ride Hailing Services	10
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**Figure 1. New Industrial Revolution Market Shares, Dollars, Worldwide, 2018**

In Millions of Dollars			
	MM\$	% \$	Units
	2017	2017	2017
	2016	2016	2016
Company 1	XX	XX	XX
Company 2	XX	XX	XX
Company 3	XX	XX	XX
Company 4	XX	XX	XX
Company 5	XX	XX	XX
Company 6	XX	XX	XX
Company 7	XX	XX	XX
Company 8	XX	XX	XX
Company 9	XX	XX	XX
Company 10	XX	XX	XX
Company 11	XX	XX	XX
Company 12	XX	XX	XX
Company 13	XX	XX	XX
Company 14	XX	XX	XX
<b>Total (MM\$)</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>

Source: WinterGreen Research, Inc.

The current calibrants available in the market for each equipment type (e.g. ProteoMass for MALDI-ToFs, Ultramark for ESI), analysis is provided.

## New Industrial Revolution Automobile Equipment Market Shares

# WinterGreen Research, Inc.

## US Electric Car Market Shares, Dollars and Units, 2018

In Thousands of Units

In Millions of Dollars

	MM\$ 2018	\$/Unit 2018	Units 2018	% Units 2018	MM\$ %
Company 1	XX	XX	XX	XX	XX
Company 2	XX	XX	XX	XX	XX
Company 3	XX	XX	XX	XX	XX
Company 4	XX	XX	XX	XX	XX
Company 5	XX	XX	XX	XX	XX
Company 6	XX	XX	XX	XX	XX
Company 7	XX	XX	XX	XX	XX
Company 8	XX	XX	XX	XX	XX
Other	XX	XX	XX	XX	XX
<b>Total</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>

Source: WinterGreen Research, Inc.

# WinterGreen Research, Inc.

## European Electric Car Market Shares, Units, 2018

In Thousands of Units

In Millions of Dollars

	MM\$ 2018	\$/Unit 2018	Units 2018 (000).	Units 2018 %	MM\$ 2019 %
Company 1	XX	XX	XX	XX	XX
Company 2	XX	XX	XX	XX	XX
Company 3	XX	XX	XX	XX	XX
Company 4	XX	XX	XX	XX	XX
Company 5	XX	XX	XX	XX	XX
Company 6	XX	XX	XX	XX	XX
Company 7	XX	XX	XX	XX	XX
Company 8	XX	XX	XX	XX	XX
Company 9	XX	XX	XX	XX	XX
Company 10	XX	XX	XX	XX	XX
Company 11	XX	XX	XX	XX	XX
Company 12	XX	XX	XX	XX	XX
Company 13	XX	XX	XX	XX	XX
Company 14	XX	XX	XX	XX	XX
Other	XX	XX	XX	XX	XX
<b>Total</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>

Source: WinterGreen Research, Inc.

# WinterGreen Research, Inc.

## Chinese Electric Car Market Shares, Dollars and Units, 2018

In Thousands of Units

In Millions of Dollars

	MM\$ 2018	\$/Unit 2018	Units 2018 (000).	Units 2018 %	MM\$ 2018 %
Company 1	XX	XX	XX	XX	XX
Company 2	XX	XX	XX	XX	XX
Company 3	XX	XX	XX	XX	XX
Company 4	XX	XX	XX	XX	XX
Company 5	XX	XX	XX	XX	XX
Company 6	XX	XX	XX	XX	XX
Company 7	XX	XX	XX	XX	XX
Company 8	XX	XX	XX	XX	XX
Company 9	XX	XX	XX	XX	XX
Company 10	XX	XX	XX	XX	XX
Company 11	XX	XX	XX	XX	XX
Company 12	XX	XX	XX	XX	XX
Other	XX	XX	XX	XX	XX
<b>Total</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>

Source: WinterGreen Research, Inc.

# WinterGreen Research, Inc.

## Units and Dollars, Worldwide, 2018

In Millions of Dollars

	MM\$ 2018	%
Company 1	XX	XX
Company 2	XX	XX
Company 3	XX	XX
Company 4	XX	XX
Company 5	XX	XX
Company 6	XX	XX
Other	XX	XX
<b>Total</b>	<b>XX</b>	<b>XX</b>

Source: WinterGreen Research, Inc.



# WinterGreen Research, Inc.

## Industry 4.0 Smart Manufacturing Market Forecast

Industry 4.0 smart manufacturing market forecast lays bare the base of the new industrial revolution. New ways of managing repetitive process with robots promises more buildings completely full of robots building anything that people want.

### Industry 4.0 Smart Manufacturing Market Forecast Dollars, Worldwide, 2019-2025 In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Smart Manufacturing (Billions \$)	xx	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

## Augmented Reality

Augmented reality is an interesting trillion-dollar market because it can be used for ongoing education. Images of how to perform task can be superimposed on items being manipulated and the correct way to interconnect can be demonstrated in real time on a smart phone or tablet. People think of augmented reality as a game capability, but it is really useful for doing things in the correct way.

The ability to provide an image of how to do something in real time promises to help people work more efficiently.

### Augmented Reality Market Forecast Dollars, Worldwide, 2019-2025 In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Augmented Reality (Billions \$)	xx	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

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## Supply Chain Automation Market

Supply Chain Automation Market is perhaps the most dramatic of the trillion-dollar forecasts. Imaging being able to track every part, every item, every morsel of food from origin to final destination. In this way humanity gets far greater control over the means of production, the parts used in manufacture. The food chain becomes far easier to control.

### Supply Chain Automation Market Forecast Dollars, Worldwide, 2019-2025 In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Supply Chain Automation (Billions \$)	xx	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

## Ride Hailing Services

Ride Hailing Services including Uber have introduced a new category of transportation. The low cost of a ride provides compelling appeal. These types of rides will not replace existing personal transportation, they just add to it. With ride hailing services life is more efficient for many people providing options for transport that simply were not available because of the high cost.

# WinterGreen Research, Inc.

## Ride Hailing Services Market Forecast

Dollars, Worldwide, 2019-2025

In Millions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Ride Hailing Services (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

## Additive Manufacturing Market Forecast

### Additive Manufacturing Market Forecast

Dollars, Worldwide, 2019-2025

In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Additive Smart Manufacturing (MM\$)	xx	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

Additive manufacturing market remakes the manufacturing process, meaning that instead of carving a shape out of a large block, it is built by iterative spraying and molding.

## IoT Technology Market

IoT leverages APIs everywhere, sensor connections, camera connections, video connections to every object so it can be controlled.

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**Internet of Things (IoT) Market Forecast**  
**Dollars, Worldwide, 2019-2025**  
In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Internet of Things (Billion \$)	xx	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

## IoT Technology Market Driving Forces

Continuously improving power performance of electronic devices

Improvement in information technology infrastructure in developing countries

Rise of mega data centers

Evolution of smart phone

Development of portable communication devices

Introduction of cloud technologies

Artificial intelligence

Software-defined networking

Significant growth of social media

Source: WinterGreen Research, Inc.

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## Infrastructure Robots Market Forecasts

### Infrastructure Robots Market Forecasts

Dollars, Worldwide, 2019-2025

In Millions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Infrastructure Robots (Billions\$)	XX	XX	XX	XX	XX	XX	XX	XX	XX
% Growth	XX	XX	XX	XX	XX	XX	XX	XX	XX

Note: Industrial Robots Not Included in this forecast.

Source: WinterGreen Research, Inc.

## Smart Phones, Tablets, and Apps Market Forecasts

### Smart Phones, Tablets, and Apps Market Forecasts

Dollars, Worldwide, 2019-2025

In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Smart Phones, Tablets, and Apps (Billion\$)	XX	XX	XX	XX	XX	XX	XX	XX	XX
% Growth	XX	XX	XX	XX	XX	XX	XX	XX	XX

Source: WinterGreen Research, Inc.

# WinterGreen Research, Inc.

## Artificial Intelligence (AI)

### Artificial Intelligence Market Forecasts

Dollars, Worldwide, 2019-2025

In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Artificial Intelligence (\$ Billions)	xx	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

## Retail E-Commerce

### Retail Online E-Commerce Market Forecasts

Dollars, Worldwide, 2019-2025

In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Retail E-Commerce (\$ Billions)	xx	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

Amazon has led the way with retail e-commerce. Amazon will be broken up and there will be competition, or other strong companies will emerge in the space. This represents several trillion-dollar new industrial revolution markets. Automated package delivery to the door-step is the next evolution of Amazon.

## Bio Materials

Growing demand for drug composition and bimolecular analysis comes from life sciences and bio technology. Companies with market share

Agilent Technologies

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Bruker Corporation

Perkin Elmer, Inc.

ThermoFisher Scientific, Inc.

Danher, Inc.

## Biomaterials Market Forecasts

Dollars, Worldwide, 2019-2025

In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Biomaterials (\$ Billions)	XX	XX	XX	XX	XX	XX	XX	XX	XX
% Growth	XX	XX	XX	XX	XX	XX	XX	XX	XX

Source: WinterGreen Research, Inc.

## Wellness Market

With remote monitoring, wellness becomes a trillion-dollar market. Without health, living is severely

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## Wellness Market Forecasts

Dollars, Worldwide, 2019-2025

In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Wellness (\$ Billions)	xx	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

## Smart City

Revenue in key smart city technologies will grow from \$xx billion in 2018 to \$xx billion by 2025. The average growth rate is 25%. Interest in and focus on smart cities relates to the quality of life improvements achieved. A large number of vendors across the value chain are offering IoT portfolios that take advantage of this beckoning opportunity.

## Smart Cities Market Forecasts

Dollars, Worldwide, 2019-2025

In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
Smart Cities (\$ Billions)	xx	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

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## Robot Market Forecasts by Sector

Robot Market Forecasts  
 Dollars, Worldwide, 2019-2025  
 In Millions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
<b>Total Robot (Million\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>% Growth</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Military (\$Million)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Industrial (\$Million)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Agricultural (\$Million)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Healthcare (\$Million)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Cleaning (Million\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Automotive (Million\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Media / Entertainment (\$Million)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Military Drones (\$Million)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>First Responder (Million\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Retail Services (Million\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Financial Services (Million\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Total (Billions\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Total Growth (%)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX

Source: WinterGreen Research, Inc.

# WinterGreen Research, Inc.

## 5G Market Forecasts by Sector

### 5G Market Forecasts

Dollars, Worldwide, 2019-2025

In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
5G (Billion\$)	xx	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

5G will support 22 million jobs and \$22 trillion dollars of goods and services. WinterGreen Research has identified 2 trillion IoT connections to be made in the next 5 years. CTIA citing an Accenture analysis suggests that 5G stands to create 3 million jobs in the US while yielding investment of \$275 billion and encouraging GDP growth of \$500 billion.

5G increases Internet speeds by a factor of up to 100.

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# WinterGreen Research, Inc.

## 5G Market Forecasts

Dollars, Worldwide, 2019-2025

In Billions of Dollars

	2017	2018	2019	2020	2021	2022	2023	2024	2025
<b>5G (Billion\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>% Growth</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Telecommunications (\$Billion)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Energy (\$Billion)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Agriculture (\$Billion)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Healthcare (\$Billion)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Manufacturing (Billion\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Automotive (Billion\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Media and Entertainment (\$Billio</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Military (\$Billion)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>First Responder (Billion\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Retail Services (Billion\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Financial Services (Billion\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>%</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Total (Billions\$)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX
<b>Total (%)</b>	XX	XX	XX	XX	XX	XX	XX	XX	XX

Source: WinterGreen Research, Inc.

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## **ABOUT THE COMPANY**

**WinterGreen Research**, research strategy relates to identifying market trends through reading and interviewing opinion leaders. By using analysis of published materials, interview material, private research, detailed research, social network materials, blogs, and electronic analytics, the market size, shares, and trends are identified. Analysis of the published materials and interviews permits WinterGreen Research senior analysts to learn a lot more about markets. Discovering, tracking, and thinking about market trends is a high priority at WinterGreen Research. As with all research, the value proposition for competitive analysis comes from intellectual input.

**WinterGreen Research**, founded in 1985, provides strategic market assessments in telecommunications, communications equipment, health care, Software, Internet, Energy Generation, Energy Storage, Renewable energy, and advanced computer technology.

Industry reports focus on opportunities that expand existing markets or develop major new markets. The reports access new product and service positioning strategies, new and evolving technologies, and technological impact on products, services, and markets. Innovation that drives markets is explored. Market shares are provided. Leading market participants are profiled, and their marketing strategies, acquisitions, and strategic alliances are discussed. The principals of WinterGreen Research have been involved in analysis and forecasting of international business opportunities in telecommunications and advanced computer technology markets for over 30 years.

The studies provide primary analytical insight about the market participants. By publishing material relevant to the positioning of each company, readers can look at the basis for analysis. By providing descriptions of each major participant in the market, the reader is not dependent on analyst assumptions, the information backing the assumptions is provided, permitting readers to examine the basis for the conclusions.

WinterGreen Research is positioned to help customers facing challenges that define the modern enterprises. The increasingly global nature of science, technology and engineering is a reflection of the implementation of the globally integrated enterprise. Customers trust wintergreen research to work alongside them to ensure the success of the participation in a particular market segment.

WinterGreen Research supports various market segment programs; provides trusted technical services to the marketing departments. It carries out accurate market share and forecast analysis services for a range of commercial and government customers globally. These are all vital market research support solutions requiring trust and integrity.

# WinterGreen Research, Inc.

## About the Principal Authors

**Susan Eustis**, President, co-founder of WinterGreen Research, is a senior analyst. She has done research in communications, healthcare equipment, and computer markets and applications. She holds several patents in microcomputing and parallel processing. She has the original patents in electronic voting machines. She has new patent applications in format varying, multiprocessing, electronic voting, and oxygen management. She is the author of recent studies of the drone and robot marketing strategies, Internet equipment, biometrics, biomaterials, a study of Internet Equipment, Artificial Intelligence, IoT, Worldwide Telecommunications Equipment, Top Ten Telecommunications, Digital Loop Carrier, Web Hosting, Web Services, and Application Integration markets. Ms. Eustis is a graduate of Barnard College. Ms. Eustis was named Top Woman CEO in 2012 by Who's Who Worldwide. She was named Top Woman Market Research Analyst in 2012, 2013, 2014, 2015, and 2016. She has been twice featured on the cover of the Women of Distinction magazine. She was cited in a recent Time Magazine article and major media articles on Youth Sports market growth. Recently she has been quoted by Bloomberg, The Wall Street Journal, The London Times, The Los Angeles Times, and others on sports markets, blockchain, and cybercurrency.

**About the WinterGreen Research Team:** The WinterGreen Research Team is comprised of senior analysts that prepare the market research and analysis that is offered to the client and developed using an iterative process to achieve a final study. Typical projects include providing market/viability research. The team can look at how drones can be applied to critical infrastructures safety, including: type of market existing, Barriers, forecast demand and competitors, SWOT and competitive advantages, Price Analysis, product design recommendations (marketing orientation).

Research is typically for many different regions or localities, for example EU countries including Spain, UK, Nordic, Germany, and France. Typical projects profile the United States and areas of Asia. It is common to three representative countries from South America, Brazil, Argentina, Chile, and Mexico. Representative countries from Asia APAC typically include Japan, China, India, and Australia.

Critical infrastructure safety, including: type of market existing, barriers to entry and to faithful execution of product provision, forecast of demand, market share, SWOT, competitive advantage of major competitors, identification of new technologies and new companies, price performance analysis, product design recommendations, and marketing considerations are typical topics covered.

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