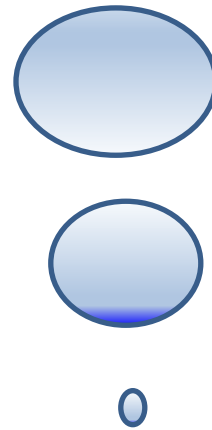




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**Hyperscale Data Centers in Finland, Sample:  
Market Shares, Strategies, and Forecasts, Worldwide, 2019 to 2025**

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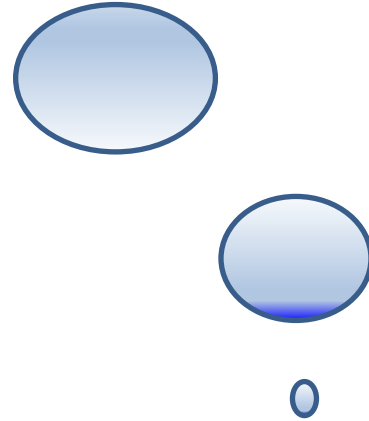
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**Hyperscale Data Centers in Finland Sample:**

**Market Shares, Strategies, and Forecasts, Worldwide, 2019 to 2025**

**Technology that Increases IT Operations Efficiency, Data Center PUE of 1.1**

**Hyperscale Data Centers in Finland: Markets**

LEXINGTON, Massachusetts (July 19, 2019) – WinterGreen Research announces that it has published a new module Hyperscale Data Centers in Finland: Market Shares, Strategies, and Forecasts, 2019 to 2025. The 2019 study has 159 pages and 69 tables and figures. Growth is based on implementation energy efficient data centers , matching the Google PUE of 1.1 in Finland. Access to locations across the world through strategically placed cables promise to make Finland the location of choice for a data center.

Scale is everything in the era of Clos architecture of the data center and optical transceivers for inside the data center. Data moves at the speed of light around the network inside the data center so scale is important. The charter of mission critical messaging relates to automatically interconnected APIs. Robotic software is used to install the automated APIs to achieve process managed by orchestration.

According to Susan Eustis, principal author of the study, “The communication of data accurately is a demanding task. The data center sin Finland are poised to be world-class, supporting interconnectivity to the US, Europe, and Asia.”

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The market for Hyperscale Data Centers in Finland sector at \$5 billion in 2018 is expected to be worth \$17 billion by 2025. Growth is based on implementation of streaming mobile smart phone network connectivity, tablet use for mobile computing, Internet apps, cloud computing, IoT, and business process management systems (BPM) that support collaboration. 5G processes API components to support technology innovation and change. Software API messaging forms the basis of change. Software API streaming message development tools drive innovation. Hyperscale data center implementation is a key aspect of those aspects of web process making IT flexible and adaptable.

Ostrobothnia has fast and reliable communication connections to other parts of Finland and abroad. The Arctic Connect cableway, planned to go through the Arctic Ocean to Asia, passes through Northern Finland.

The data center market in Finland is poised to become world class. With the Google data center functioning at 100 megawatts, the country has demonstrated the ability to host one of the top 5 data centers in terms of size. The center is operating at a PUE of 1.1. This is likewise a world class capability.

When they have a reach into Europe, Moscow, Beijing, the US west coast, the US East coast, all of Asia, Finish data centers will represent true world class capability. The thing that is needed is better security. If Finland could ally with the US and European security agencies to be certified at the highest levels of US Cyber Security it could gain strategic advantage over other locations for data centers.

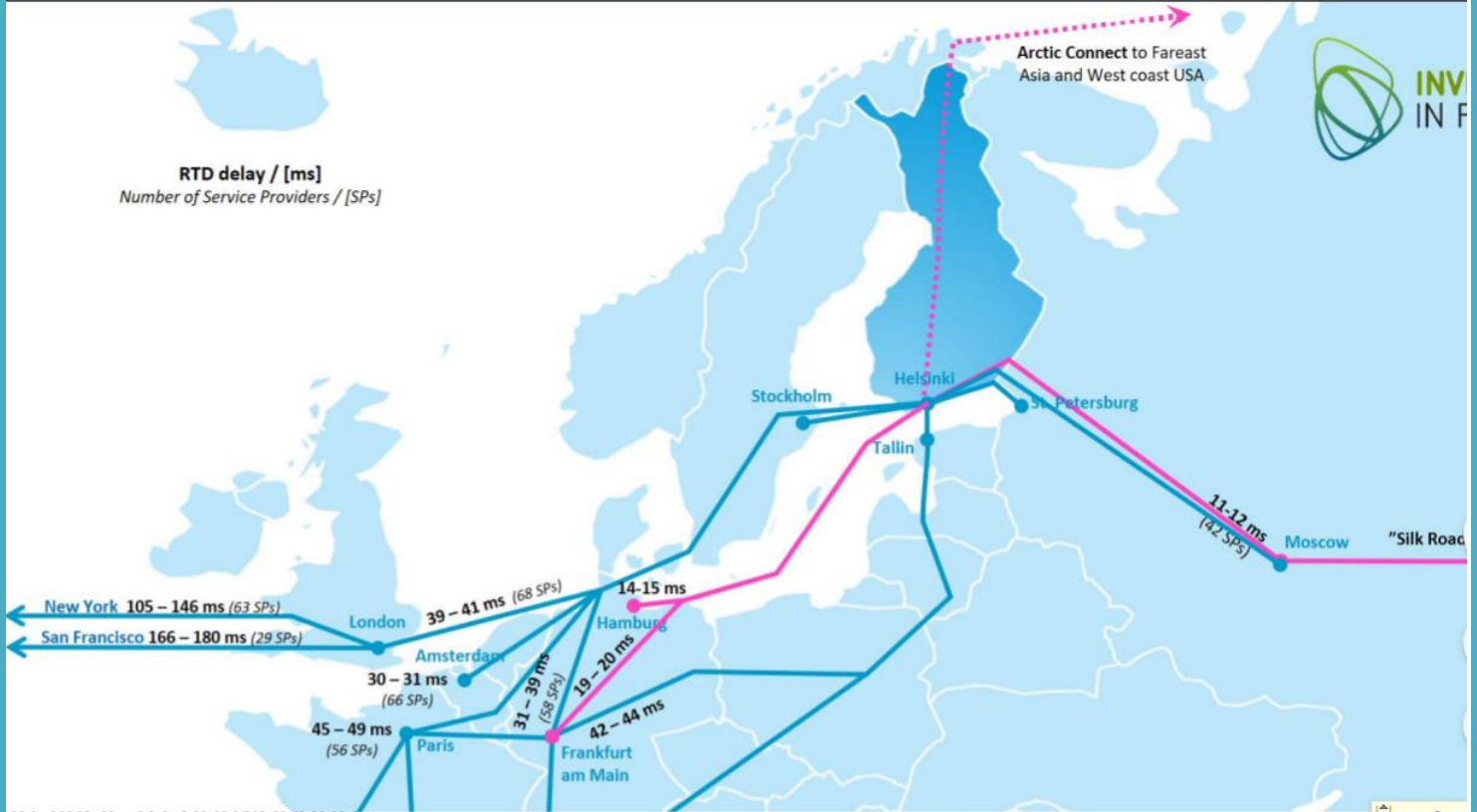
With its ability to sustain a 1.1 PUE for the Google data centers, Finland already has strategic advantage in the data center industry segment. If it could provide cyber security at the highest levels available in the US, it would have a compelling story for managers seeing fuel efficient data centers. .

Figure 1. Hetzner Finland Locations Serve Asia:

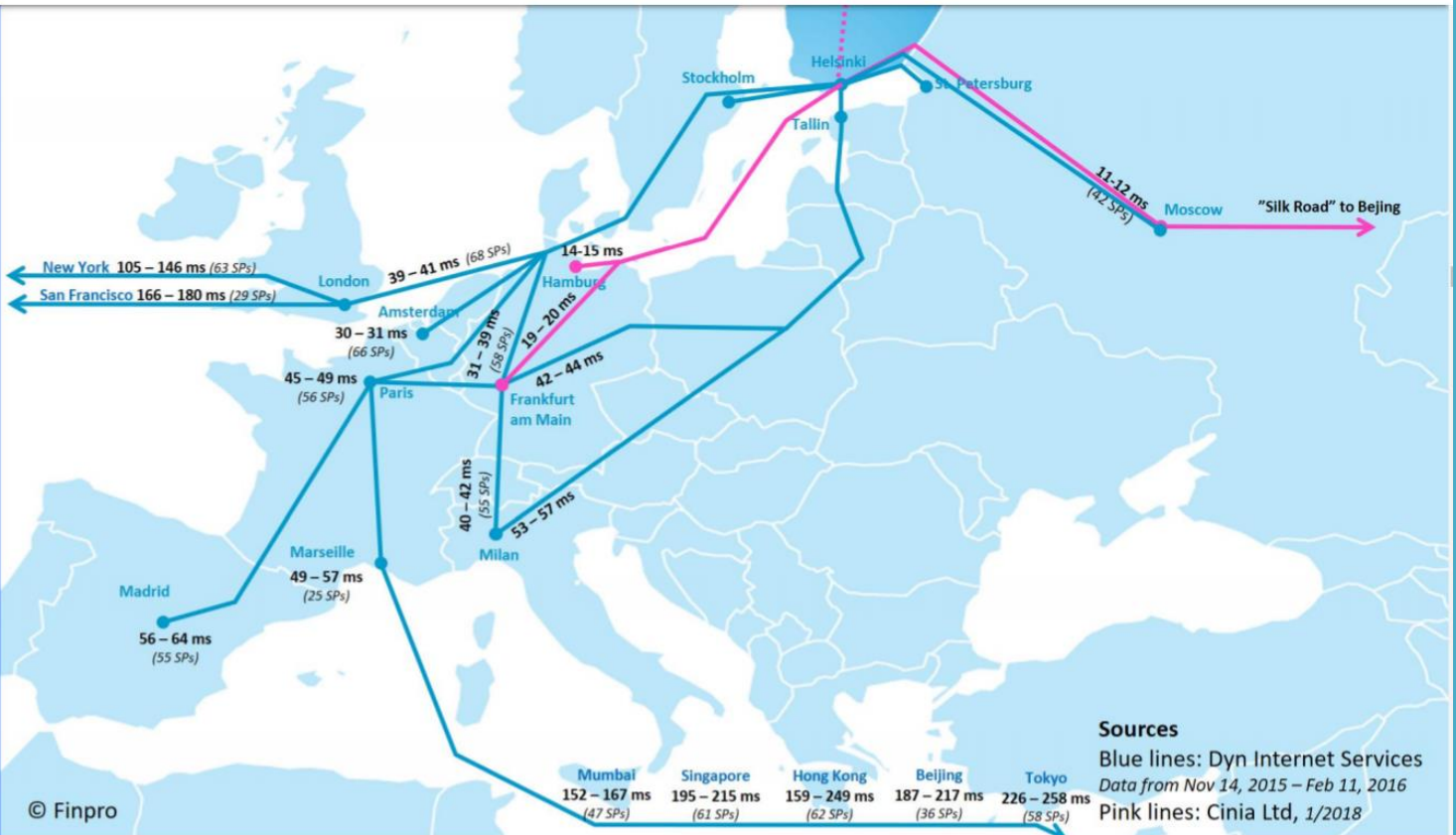


Source Images: Hetzner

Figure 2. Data Centers in Finland Have Global Reach with Mili-second Transfer Rates



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Source: Finpro.

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Figure 3. Google's Hamina Data Centre with PUE of 1.1



Image: Google



Figure 4. Hyperscale Data Centers in Finland Market Shares, Dollars, 2018

	MM\$		%
	2018		2018
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
Other	XX	XX	XX
<b>Total</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>

Source: WinterGreen Research, Inc.

Figure 5. Hyperscale Data Centers in Finland, Megawatts of Power Market Shares, 2018

	2018		2018
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
Other	XX	XX	XX
<b>Total</b>	<b>XX</b>	<b>XX</b>	<b>XX</b>

Source: WinterGreen Research, Inc.

**Figure 6. Finland Data Center Revenue Market Forecast Megawatts of Power, 2019 - 2025**

**Finland Data Center Market Forecast**

**2019 - 2025**

In Megawatts of Power

	2018	2019	2020	2021	2022	2023	2024	2025
Data Center Power	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

**Figure 7. Finland Data Center Revenue Market Forecast Dollars, 2019 – 2025**

**Finland Data Center Revenue Market Forecast**

**Dollars, 2019 - 2025**

In Billions of Dollars

	2018	2019	2020	2021	2022	2023	2024	2025
Data Center Revenue	xx	xx	xx	xx	xx	xx	xx	xx
% Growth	xx	xx	xx	xx	xx	xx	xx	xx

Source: WinterGreen Research, Inc.

## **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.

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## About The Principal Authors

### ABOUT THE PRINCIPAL AUTHORS

**Susan Eustis**, President, co-founder of WinterGreen Research is a senior analyst. She has done research in communications 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, multitprocessing, and electronic voting. She is the author of recent studies of the Solar Renewable Energy, Wind Energy, Thin Film Batteries, Business Process Management marketing strategies, Internet equipment, biometrics, a study of Internet Equipment, 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. Worldwide Who's Who named her Top Female CEO of 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019. She has been twice featured on the cover of the Women of Distinction magazine. She was cited in a recent Time Magazine cover article and major media Washington Post, London Times, New York Times, LA Times, and WSJ articles on Youth Sports market growth. She has been quoted as a reliable industry source in Barron's and by Bloomberg relating to blockchain. She is head of the GBA blockchain group on elections systems.

**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.