

BI-WEEKLY

NEWSLETTER

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RSI

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Global News, financial analyses, data center related laws & regulations and further latest updates about technologies transforming the data center industry.

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Cisco reimagines security for data centers and Clouds in era of AI

Cisco has introduced a groundbreaking solution, Cisco Hypershield, aimed at securing data centers and clouds amidst the increasing demands brought about by the AI revolution. This innovation represents a significant shift in how AI and modern workloads are harnessed and protected, tipping the scales in favor of defenders. Cisco Hypershield is designed to safeguard applications, devices, and data across various environments, including public and private data centers, clouds, and physical locations. Leveraging AI from the outset, Hypershield enables organizations to achieve security outcomes previously unattainable with human efforts alone. Chuck Robbins, Cisco's Chair and CEO, views Hypershield as one of the company's most significant security innovations, leveraging Cisco's strengths in data, security, infrastructure, and observability platforms to empower customers in harnessing AI's power securely.

Source : [Cisco](#), April 18, 2024

The most advanced brain-scale computing system is underway from INTEL

Hala Point the latest neuro-morphic based system developed by Intel incorporating Intel's Loihi 2 Processors aiming to support the researchers for future brain-inspired artificial intelligence in order to make the AI more sustainable and efficient.

This system can support up to 20 quadrillion operations per second (20 petaops) which could enable real-time continuous learning for AI applications in fields like scientific problem-solving, logistics, smart cities, and large language models.

Source : [Businesswire](#), April 17th, 2024

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Tokyo-based HPC Systems has developed the innovative “Water-Cooled HPC-AI Series”, set to launch in late May 2024.

This series is designed to optimize the operation of compact, high-integration supercomputers, like those with multiple GPUs, in everyday office and lab environments. The series addresses the growing heat generation issue associated with high-performance CPUs, GPUs, and SSDs. Its water-cooling system enhances cooling efficiency and operates more quietly than fan cooling, allowing high-performance GPUs such as the NVIDIA H100, A800, L40S, and RTX™ 6000 Ada Generation to operate at peak performance without thermal throttling during prolonged use. The system cools all high-heat

components (CPU, GPU, M.2 SSD) and is designed for quiet operation, with multiple ATX power supplies considering the use of a household power supply (100V). This product series is expected to boost AI research and development by providing a comfortable computing environment in offices and labs. HPC Systems is committed to supporting a broad spectrum of researchers and developers by offering optimal solutions for each R&D project.

Source : [HPC](#), April 18, 2024

Microsoft boosts data center capacity to support AI and Cloud growth

Microsoft is reportedly planning a significant expansion of its data center capabilities, aiming to double its new data center capacity in the first half of fiscal year 2024 by adding an extra 1GW of server power. This move, which would increase the company’s total IT capacity to over 5GW, is part of Microsoft’s strategy to accelerate the growth of its data center infrastructure to meet the rising demand for AI and cloud services. The tech giant has set a target of 1.5GW for new data center capacity in the first half of 2025. Microsoft has also been actively acquiring GPUs, crucial for AI systems, and claims to have achieved a “record-level GPU capacity” last year. This expansion is not just about increasing capacity, but also about driving the growth of AI and cloud services, positioning Microsoft for significant growth in the future.

Source : [Datacenterdynamic](#), April 18, 2024

Artificial Intelligence and the practice to deceit the customers

The competition in Artificial Intelligence and the services based on it is becoming gigantic day-by-day. Unfortunately, this competition would cause a term known as the AI washing. Unintentionally (or intentionally) companies are engaging in this concept which represent something as an AI while in reality the role of AI may have been overstated in those services. This practice is done in order to increase the value of a brand, increase the interest from consumer and investors, and stay relevant and competitive in the fast-moving market which unfortunately can backfire and create a stigma for the real ability of the AI and the brand itself. In addition, if a product is misrepresented purposely to gain financial benefits from, it can have legal consequences. Currently, although there is no singular comprehensive law prohibiting AI washing, several emerging restrictive rules and regulation deal with the issues surrounding AI transparency, AI ethics, and AI accountability directly affecting AI washing.

Source : [Techopedia](#), April 10, 2024

Google invests \$1 billion in two new subsea cables connecting the United States and Japan

Google has recently committed to a \$1 billion investment for the development of two new undersea fiber cable routes, Proa and Taihei, linking the US and Japan. These cables, constructed by NEC Corp of Japan, are set to bolster digital connectivity and reliability in the region. The Proa cable will establish a new connection between Japan,

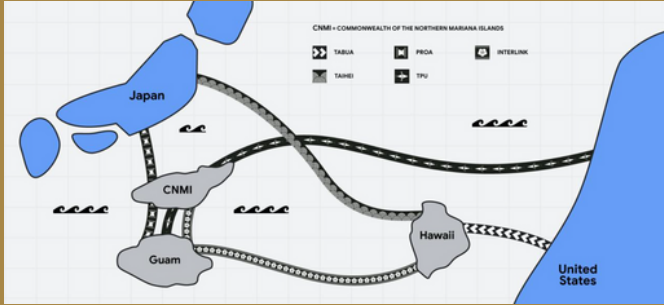


Image from [GoogleCloud](#)

the Commonwealth of the Northern Mariana Islands, and Guam, while the Taihei cable, symbolizing 'peace' and 'Pacific Ocean' in Japanese, will link Japan and Hawaii. This significant investment forms part of Google's Japan Digitization Initiative, undertaken in collaboration with KDDI, Arteria, and Citadel Pacific, among others, with the aim of enhancing the digital communications infrastructure across the United States, Japan, and Pacific Island Nations. In essence, this initiative underscores Google's commitment to digital transformation and improved reliability in the region.

Source : [GoogleCloud](#), April 11, 2024

Is it time for the datacenters to go nuclear?

The datacenter providers are already under keen observation to change their power usage in order to reduce their carbon footprint and meet the goals set for the net zero by various organizations and governments. The invention of AI and the application that will be built around AI, requires for more power to be directed into data centers which make the energy problem far worse than it is.

Nuclear energy, as an alternative power source for energy transition, is likely to provide sustainable, secure (stable and reliable), clean, and cost effective (long term) energy for the datacenters, and solve the problem rising with power-hungry new technologies as well as energy sources with a high carbon footprint. Though, this broad trend in the tech industry still faces challenges associated with obtaining the standards set by governments and efficient waste management, in addition to obstacles related to the public perception of nuclear energy, among others.

Source : [Datacenters](#), April 16, 2024

Vantage DC : First Dublin Campus featuring next-generation energy solution

Vantage Data Centers has announced its entry into the Irish market with the development of a multi-phase data center campus, DUB1, representing an investment of over €1 billion. The campus, located near Dublin City Center in Profile Park, Grange Castle, will feature two initial phases with a combined IT capacity of 52MW. The first phase is set to be operational by late 2024. DUB1 will be Vantage's 14th EMEA campus, expanding its presence across seven countries.

The campus will be highly efficient, with plans to achieve an industry-leading Power Usage Effectiveness (PUE) of 1.2 while using minimal water for cooling. The DUB1 campus will feature an on-site 100MVA multi-fuel generation plant that runs on a mix of hydrotreated vegetable oil (HVO), a renewable fuel, and gas from Gas Networks Ireland, offering flexibility and supporting renewable energy use. Additionally, Vantage is committed to achieving net zero carbon emissions by 2030, aligning with both Ireland's climate action plans and the environmental goals of its customers.

Source : [Vantage Data Centers](#), April 24, 2024



Micron releases 'What makes us Micron' 2023 Diversity, Equality and Inclusion report

Our DEI commitments

1 Increase hiring from nontraditional pathways, underrepresented groups and disadvantaged populations

2 Drive equitable pay and inclusive benefits

3 Champion advocacy and strengthen our culture of inclusion

4 Engage with diverse financial institutions for cash management

5 Increase diverse supplier representation and spending

Micron Technology, Inc. from Boise, Idaho, announced the release of its sixth annual diversity, equality, and inclusion (DEI) report, titled "What Makes Us Micron." The report highlights the company's progress in meeting its five DEI commitments, emphasizing the importance of an inclusive culture in fostering innovation and business success.

Micron's President and CEO, Sanjay Mehrotra, stated the company's focus on cultivating a work environment where diverse perspectives drive innovative solutions to technology challenges, reflecting their vision for a semiconductor workforce that mirrors the diversity of the world.

"This impressive engagement underscores the vibrant, supportive community Micron fosters," said Vice President and Chief Diversity Inclusion Officer Fran Dillard. "Members of Micron's ERGs play a pivotal role as influential ambassadors in creating an inclusive culture for all, ensuring every team member feels valued and empowered to contribute their best ideas and work."

Source : [Micron Technology](#), March 5, 2024

RSI's Advisory Services

For those considering data center related new business

Wide variety of industries are beginning to enter and invest in the data center sector

RSI provides advisory services supports for companies eager to invest in a data center related new business. Recently, companies in a variety of industries have shown a growing interest in services for which RSI provides advisory supports, including but not limited to data center investment, land development, and investment in advanced technologies such as high-load servers for generative AI.



Financial

Data Center Related New Business
Business Analysis Support



Real estate

Business Planning Support
Land and Telecom Due Diligence



**Enterprise
Data Center**

Data Center And Rack Design For
High Power Load Generative AI



Construction

Immersion Cooling And Container
Data Center Design And Operations



**Other
Industries**

Data Center Related Services
New Business Planning Support

For further information please reach out to us

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