

## Edge Data Centers are the new age 'Goldmines'

'Data is the new gold' at first glance, this may seem like a phrase, but today it is a reality.

Today data is more valuable than ever before and with every new day its importance is increasing in our life. We are in need of data for almost every aspect in life and the dependence on data is increasing rapidly, those days are not far when life without it would be impossible.

Today, from getting up in the morning till going to bed at night, the Internet of Things, IoT devices are required for every small need. These devices require very high-speed connectivity to process commands without delay. A delay of 1000th part of a second, micro second and even smaller, a nanosecond can cause irreparable loss.

Today we are moving towards remote surgeries by a doctor sitting hundreds or thousands of miles away. In such a process, imagine that if there is a delay of micro or nano seconds in the command reaching the robot through which the doctor is performing the operation or delay in the camera signals may disturb doctor's control, it can be a cause of life and death for the patient.

Similarly, delay in the traffic signal for the train can lead to a major accident. Similarly, delay of a nano second in the command for driverless car, drone and air traffic control can create a big havoc. On the other hand, at the time of processing of Fastag or entry in the metro, a very slight delay in each scan can lead to long queues of vehicles and passengers.

Edge data centers, being closer to the data source, reduce the distance between the central data center and the user, thereby reducing latency in the delivery of commands or data.

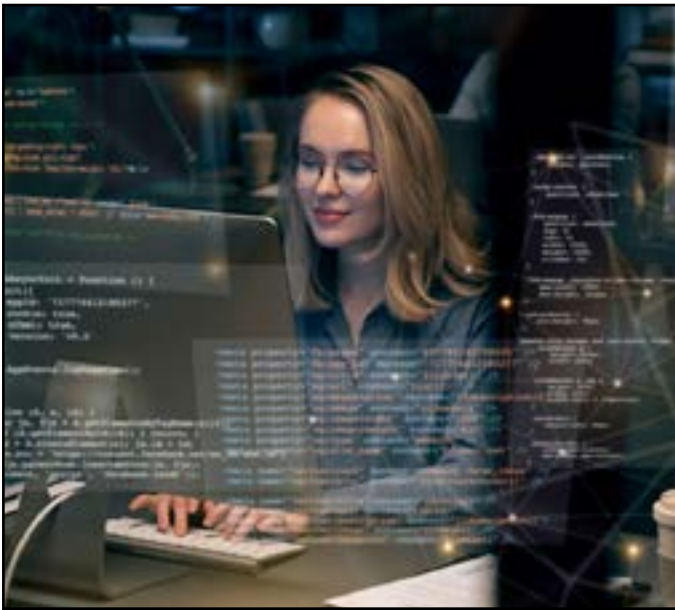
Thus, the presence of an Edge data center makes the device more accurate, reliable and trustworthy. With increasing trust and business competition, the scope and use of IoT devices is increasing rapidly.



Due to the technological development and investment in the telecom and IT sector, internet penetration has increased rapidly in small cities, towns and villages in the last few years, due to which the demand for data is also increasing there. To meet this demand, the need for Edge data centers is also increasing continuously. So, it is clear that if data is gold, then Edge data centers are no less than goldmines.

# How EDCs are building empowered foundation of the Future of IT

In today's digital landscape, where data-driven applications and real-time connectivity reign supreme, the integration of edge-to-cloud technology has revolutionized the way data is processed, analyzed, and stored. At the forefront of this transformation are edge data centers, which have emerged as crucial infrastructure components bridging the gap between the demand of data and IT infrastructure.



## Edge Data Centers and Cloud Integration:

Edge-to-cloud integration refers to the seamless connection and collaboration between edge devices and the cloud, enabling efficient data flow, processing, and analysis. It leverages the power of edge computing, where data is processed closer to the source, and combines it with the scalability and storage capabilities of the cloud. This integration has become increasingly important in supporting emerging technologies like the Internet of Things (IoT), artificial intelligence (AI), and autonomous systems.

## Empowering Real-Time Decision-Making:

One of the key advantages of edge data centers after integration with the cloud is their ability to facilitate real-time decision-making. By bringing data processing closer to the edge devices, latency is reduced, enabling faster insights and responses. This is especially critical in time-sensitive applications such as autonomous vehicles, industrial automation, Banking, financial services and insurance (BFSI) applications and remote healthcare, where split-second decisions can make a significant impact.

## Enhanced Data Security and Privacy:

Edge data centers play a crucial role in addressing concerns related to data security and privacy. With edge-to-cloud integration, sensitive data can be processed and stored locally, minimizing the need for transmitting sensitive information to the cloud. This localized approach enhances data privacy, reduces the risk of unauthorized access, and enables organizations to comply with stringent data protection regulations.

## Scalability and Efficiency:

Edge data centers, combined with cloud resources, offer a highly scalable and efficient infrastructure solution. They can handle the increasing volume of data generated by edge devices and accommodate fluctuating workloads by dynamically scaling resources. By offloading computational tasks to the cloud, edge data centers optimize resource utilization, ensuring efficient processing and cost-effectiveness.

## Supporting Edge Applications:

Edge data centers are instrumental in supporting a wide range of edge applications. From edge analytics and real-time monitoring to content delivery and edge AI, these data centers provide the necessary computing power and storage capacity for localized processing. This empowers organizations to extract valuable insights from data at the edge, reducing dependence on cloud connectivity and enabling edge devices to operate independently.

## Enabling Edge Innovation:

The integration of edge-to-cloud and the growth of edge data centers foster innovation at the edge. Developers and businesses can leverage the proximity to the data source to create innovative applications and services that capitalize on low-latency interactions and real-time insights. Edge data centers provide the foundation for experimentation, rapid prototyping, and the development of edge-native solutions.

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# Data for All: Leveraging the democratic distribution of information to its full potential

As data creation expands rapidly and applications prioritize latency, the old centralized cloud infrastructure is having difficulty keeping up with the needs of the modern digital era. Consequently, edge computing has emerged, offering faster response times, less network congestion, and better scalability by moving data processing closer to the source. As the only prominent operator in the market, VueNow has led the way in democratizing and distributing data processing

## Empowering Access and Insights for All: Data Democratization

Democratizing data distribution refers to the practice of making data accessible and available to a wider range of individuals and organizations. It involves removing barriers and restrictions that limit access, enabling more equitable and inclusive data sharing, and empowering diverse stakeholders to leverage data for insights, decision-making, and innovation. This can involve initiatives such as open data policies, data marketplaces, and tools that facilitate data sharing and collaboration. The goal is to ensure that data is not concentrated in the hands of a few, but rather distributed in a way that benefits society as a whole and drives progress in various fields

## VueNow on a mission!!!

Businesses of all sizes have traditionally been unable to access and scale data processing and storage because they are confined to large centralized data centers. As an organization dedicated to democratizing data distribution, VueNow was founded by visionary leader, Sukhwinder Singh Kharour, with his vision of decentralizing edge data centers in key locations, bringing computing resources closer to users and sources, and enabling faster processing to democratize data distribution.



## Distributed Data Processing

Edge computing involves the distribution of data processing across a network of edge devices and data centers. VueNow understands the importance of this distributed approach and leverages its expertise to build a robust network of edge data centers. VueNow's vision revolves around harnessing the power of distributed data processing to enable real-time analytics, artificial intelligence, and Internet of Things (IoT) applications.

VueNow revolutionizes the IT industry by democratizing data distribution, providing sustainable IT infrastructure as a service, and breaking down barriers to access, driving innovation, decision-making, and fostering a more inclusive data-driven ecosystem.

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# Unleashing the Data Revolution: India's Data Center Industry Sets Pace, Propelling Demand for 9 million sq. ft by 2025

In India, technology is growing exponentially and the IT sector is expanding, which generates massive amounts of data. As a result, there will be a substantial demand for data center infrastructure by 2025, with projections indicating more than 9 million square feet of real estate will be needed. It is anticipated that this rapid expansion will attract investments of around 4.8 billion USD in both the real estate and data center sectors, according to a study conducted by JLL India.

## Rising Use of Technology and IT Expansion:

IT industry growth and growing reliance on technology demand robust data center infrastructure. From 2023 to 2025, the digital transformation industry will add approximately 678 MW to its capacity as digital transformation continues to reshape various sectors.

## Pre-commitment Pipeline and Capacity Expansion:

The data center industry in India is witnessing a pre-commitment pipeline, which is expected to result in a substantial increase in supply. This expansion is projected to raise the industry's capacity to 14,000 MW by the end of 2025. Such significant growth indicates the confidence and potential for further development in the Indian data center industry.



The Indian data center industry is poised for rapid expansion and development, driven by the rising use of technology, IT expansion, and the need for secure and reliable data storage. With significant investments expected and substantial demand for real estate space, it is one of the best growth opportunities of all times.

## Regional Capacity Additions:

Mumbai, including Navi Mumbai, is predicted to lead the capacity addition with a demand for 4.7 million square feet of real estate space. Chennai follows closely with a requirement of 2.3 million square feet, while Delhi requires 1 million square feet. These regions are at the forefront of the data center industry's growth trajectory, driven by technological advancements and increasing business demands.

## Hyperscale Commitments:

The future of the Indian data center industry looks promising, with a pre-commitment of 350 MW by hyperscale companies. This level of commitment highlights the trust and confidence of major players in the industry, paving the way for sustained growth and development.

## Supply and Share Distribution:

The data center industry in India witnessed a notable supply addition of 71.8 MW in the second half of 2022, resulting in a total supply of 171 MW for the year. Mumbai led the industry with a 43% share, followed by Delhi. This indicates the concentration of data center infrastructure in major metropolitan areas.

## Impressive Growth Trajectory:

According to Samantak Das, Chief Economist and Head Researcher at JLL India, India's data center industry has experienced remarkable growth, doubling its capacity from 350 MW in 2019 to 722 MW in 2022. This impressive Compound Annual Growth Rate (CAGR) of 27% reflects the industry's potential and attractiveness to investors.

## High Absorption and Occupancy:


In 2022, the Indian data center industry witnessed record-high absorption of 160 MW, resulting in a total occupancy of 660 MW, a remarkable 32% increase compared to the previous year. This robust growth in occupancy further signifies the expanding demand for data center infrastructure in the country.




# VueNow

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