



Hyperscale in Asia-Pacific

The race for the digital frontier

This guide will consider the state of hyperscale data centre requirements in APAC, explain why the region is poised for explosive growth, and outline the advantages of working with an experienced hyperscale data centre partner.

Introduction: A market poised for unprecedented growth

Hyperscale data centre requirements continue to transform the data centre market, as COVID-19 accelerates demand for online, cloud-based services. Yet, even before the pandemic, the race to provide hyperscale solutions from data centre providers was growing more competitive.

In a challenging business climate, organisations and hyperscale cloud service providers (CSPs) need to consider all opportunities and areas for growth. For many CSPs, the APAC region remains largely unexplored – a new frontier for fresh audiences, investment and opportunities.

What's fuelling the rise of hyperscale data centre requirements?

A combination of factors has made APAC so appealing to the major players in finance, IT, telecommunications and SaaS:



Digital transformation

There has been exponential growth in demand for digital services across the region in recent years. The widespread adoption of smart phone technology has seen demand for gaming, streaming and online banking services soar. By 2025, it's predicted 81% of people in the region will own a smartphone¹, accelerating these trends further.

Cloud providers are experiencing double-digit growth across the region. This is being fuelled by a growing middle class, global internet access, social media apps, smart cities and business's hunger for big data. Therefore, organisations and CSPs are investing in largescale data centre building to reach these audiences.



Cultural change

In both the consumer and business spaces, there is growing acceptance of – as well as trust in – cloud technology, accelerated by an increasing number of essential cloud-based services and apps. A conservative projection by IDC² expects 36% compound growth for public cloud throughout APAC until 2023. This is being boosted by a wider acceptance of corporate outsourcing that depends on cloud tech and regional hosting strategies by the big players, including Amazon, Microsoft and Alibaba.



COVID-19

In parts of APAC, local cultures tend to be more conservative and hesitant to adopt technology before its potential is proven. The pandemic has forced many to evolve and, now that they're seeing the benefits, they are more willing and eager to invest in digital. Indeed, 69% of APAC organisations admit to accelerating their digitisation programmes due to the pandemic³. Yet the bandwidth to support this shift is still being built. As a result, hyperscale data centre providers are emerging to help businesses rapidly reach these markets and scale up their capacity.

¹ <https://www.statista.com/statistics/1128693/apac-smartphone-adoption-rate/>

² <https://www.idc.com/getdoc.jsp?containerId=AP44698619>

³ https://www.cisco.com/c/en_au/solutions/small-business/digitalmaturity-2020.html

Why invest in a hyperscale data centre partner in APAC?

APAC has become a strong, reliable source of customer growth. Digital audiences are growing rapidly across the region – a fact that competitive businesses can't afford to ignore. This is as true of mature markets like Japan as it is developing markets like India. Inevitably, a larger proportion of customers will be living in APAC. So businesses must ensure they have the data centre capacity and proximity to provide a seamless, low-latency experience.

However, despite the presence of lucrative new markets, businesses can capitalise on these opportunities at a lower cost compared to other regions. Land prices have skyrocketed in many western economies since the 2008 Financial Crisis. Space for data centres has become saturated and is in short supply, driving up the cost of new construction projects and extensions.

By contrast, land prices have remained more stable throughout much of APAC, meaning the construction of data centre capacity is much cheaper.

A final advantage of the region is the wealth of expertise and infrastructure available. While the differences between individual locations can be stark, the region offers some of the largest and most sophisticated supply and partner networks in the world. Communities of expert contractors and integrators help ensure a hyperscale data centre project gets up and running, on-time and on-budget.

Why partner with Colt DCS?

Colt DCS is one of the original pioneers of hyperscale data centre solutions in APAC. It maintains a leading position today, operating one of Japan's biggest data centres and is soon to complete one of India's largest facilities in Mumbai.

In 2014, Colt DCS completed the acquisition of KVH, an integrated data centre and communications services business, with headquarters in Tokyo. This gave Colt DCS access to a well-established body of regional and technical expertise, infrastructure and equipment – as well as access to a large dark fibre network.

Tokyo Inzai Campus

Consisting of three hyperscale data centres located on one estate, Colt DCS Tokyo Inzai Campus is one of the largest data centre facilities to have been built in Japan. Boasting a total of 50 MW of IT power across 30,000m² of floor space, this campus offers clients the most dynamic and cutting-edge services to support their infrastructural needs.

Tokyo Inzai Three, the third and newest building on the campus, was launched in November 2020. It has been built to satisfy the growing demand for cloud-based solutions in the Japanese market. Offering multi-carrier connectivity, and cloud access on demand, Tokyo Inzai Campus provides excellent connectivity options, driving improved redundancy and optimal uptime.

Why partner with Colt DCS?

Partnering with Colt DCS – whether to use one of its existing hyperscale facilities or to construct an entirely new site – has many advantages:

Scale & Power

Colt DCS hyperscale sites offer the freedom to scale up or down, as infrastructure needs evolve with demand. Providing IT power in MW, their sites allow for powering infrastructure at the most effective storage densities and PUE levels.

Location

Built in some of the world's most metropolitan cities, Colt DCS hyperscale facilities are perfectly situated to compliment and support connectivity needs. This includes access to other connected data centres, multiple diverse routes to key carrier hotels, or access to a high concentration of fibre routes.

Global support & integration

Hyperscale data centre requirements often depend on teams from cross-functional areas of a business, from technical design to operations and procurement. Colt DCS has access to all of this in the APAC region, thanks to support from a global project team with multi-lingual support capabilities. Customers can access the full package, from consultation, design and build, right through to operation and post-project service management.

Osaka Keihanna

Scheduled for completion by the end of 2022, Colt DCS Osaka Keihanna hyperscale data centre will deliver over 40MW of IT power across 15,000m². The fitting of the facility is expected to be carried out in phases, with the first phase set to deliver 4.8MW of IT power across 1,800m².

Why partner with Colt DCS?

Stability & reliability

Colt DCS is owned by Fidelity Investments. The company considers every customer relationship to be a long-term investment built on customer security.

Sustainability

Colt DCS strives to be environmentally and socially responsible. It uses renewable energy where possible to power many of its hyperscale facilities to offer cost efficient and reliable commercial offerings, as well as support customer sustainability goals.

Neutrality

All of Colt DCS hyperscale facilities are 100% carrier, cloud, and IX-neutral. This provides better cost efficiencies, improved redundancy, optimal uptime, and multi-cloud access available on demand.

Mumbai

Providing 100 MW of IT power across 62,000m² and powered by a significant proportion of renewable energy, this hyperscale facility will be one of the largest data centres in India by its completion in early 2022. Colt DCS has entered the Indian data centre market to support the country's unprecedented growth in mobile internet and data consumption. Built in the prime location of Navi Mumbai, the site is perfectly situated to compliment and support all customer connectivity needs; including access to other highly connected data centres in close proximity, and access to multiple diverse routes to key carrier hotels. This is in addition to access to a high concentration of fibre routes for the very best quality connections.

Conclusion: The digital frontier

APAC has all the components needed to support a successful and profitable hyperscale data centre facility. It's a critical market where demand and the world's largest companies are all converging. Yet there's still an opportunity to begin investment while the data centre landscape is in its formative years.

Of course, there are risks to every implementation and many local processes and relationships to manage that may be outside a company's comfort zone. An organisation needs to ensure it is working with a skilled hyperscale data centre partner, one that offers local expertise and global technical capabilities. Colt DCS can help to capitalise on APAC's potential while navigating its unique challenges. It delivers the infrastructure, performance and expertise to help you scale fast, sustainably and successfully.



China Mobile International

Global telecom provider, China Mobile International (CMI) needed a local data centre operator that could help it quickly establish telecommunications services in Japan. Yet it also needed a facility with room for it to quickly scale up and expand its operations rapidly as needed – something traditional colocation data centres did not provide.

That's where Colt DCS hyperscale capabilities came in. Colt DCS Tokyo Inzai Three, provided the capacity and room for growth that CMI needed to expand into the Japanese market. As a result, CMI has acquired a data hall of 500m² for its equipment and servers, with a total power density of approximately 1.65MW.



CASE STUDY



International

“ We are a global telecommunications company, but we need partnerships to support our business around the world. That’s why we value Colt DCS as such a critical partner. We can be confident that, no matter what region or market, Colt DCS will have the infrastructure, capacity and resource to help our operations scale with our customers’ desires.”

Billy Wang, Solution Manager,
China Mobile International

Our Hyperscale Data Centre Locations

EUROPE

Frankfurt West
London North
London West
Paris South West
Rotterdam

ASIA

Mumbai
Osaka Keihanna
Tokyo Inzai Campus
(Inzai 1, 2, & 3)

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 **Colt Data Centre Services**

When it comes to data centres, scale matters.

At Colt Data Centre Services we are experts in hyperscale. With over 20 years' experience, we have been designing, building and operating data centres since 1992.

Considered both global and local, we have multiple sites located across Europe and Asia Pacific.

From 24/7 manned environments to intelligent security monitoring systems, we ensure the security of our client's infrastructure is paramount.

100% carrier neutral, our connectivity solutions offer access to global and multi-cloud platforms on demand.

We are hyperscale.

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Accreditations
ISO 27001, ISO 14001

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