

Edge/Cloud Innovation, Adoption and Infrastructure Financing

PACIFIC TELECOMMUNICATIONS COUNCIL



Edge/Cloud Innovation, Adoption and Infrastructure Financing Cushman & Wakefield: Global Data Center Advisory Group

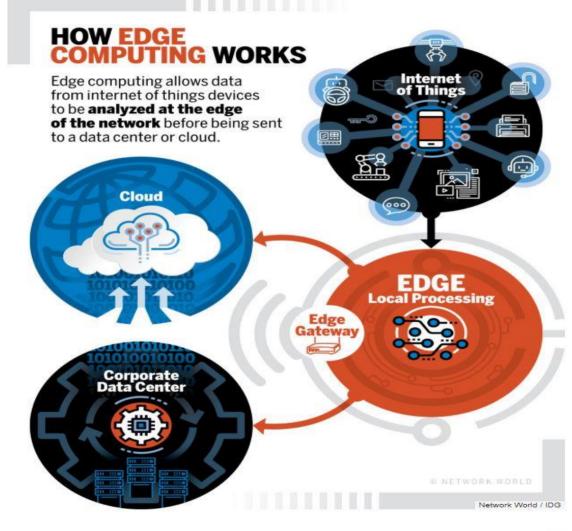


Edge/Cloud Innovation, Adoption and Infrastructure Financing Cushman & Wakefield: Global Data Center Advisory Group



- Randolph Borron,
 Vice Chairman,
 Cushman & Wakefield
- 30 years of experience in data center industry
- How has the industry evolved?
- What can we expect next?

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Edge/Cloud Innovation, Adoption and Infrastructure Financing Edge and Cloud Innovation

How do end users evaluate market options and make business decisions on Edge and Cloud?

- Existing invested infrastructure
- Risks
- Customer data regulatory requirements
- Future needs
- Total costs of occupancy
- Business cases analysis
- Cloud evolution strategy
- Combination of solutions

How do Edge and Cloud providers reach new markets?

- Innovations in design & technology
- Market evolution on site selection
- Network capacities and cost
- Latency
- Sustainability
- Efficiency
- Expansion
- Regional risks
- Own vs lease







Edge/Cloud Innovation, Adoption and Infrastructure Financing Edge and Cloud Adoption

Pros

- Multi-Market Expansion
 Opportunities
- Hub and Spoke deployments (centralized vs decentralized)
- 5G Network connecting us like never before

Challenges

- Limited capital too many markets
- Multi-market needs
 - deploy many sites in short period
- Understanding each market can be difficult





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Market Landscape



• Hyperscalers continue to control pricing in key markets

Interest gaining in region from US players both large and small
Subsea cable investment spurring further buildout of sector Primary markets struggling for power and development approvals
 Secondary markets starting to gain interest amid continued investment



- Reliable power often difficult to come by even in major metro areas
- Deployments will be smaller than other regions for near future





- Primary markets have difficulties
 in land availability
- China and India have a long way to go to market maturity





Edge/Cloud Innovation, Adoption, and Infrastructure Financing C&W Site Selection Methodology

C&W has developed a thoughtful methodology to determine the best location for a data center

- Twelve factors are considered and weighted accordingly, with the model based on a study of 1,200 individual data centers worldwide
- This includes power cost, incentives, taxes, cloud availability, and much else
- Research uncovered several markets that we deem undervalued, particularly in the Western US





Edge/Cloud Innovation, Adoption, and Infrastructure Financing Appendix- Infrastructure Financing

