Colocation, Edge Computing, and 5G: The Future of Digital Infrastructure

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Table of Abbreviations



| AI | Artificial Intelligence | EBITDAR | Earnings Before Interest, Taxes, Depreciation, Amortization, and Rent | IPO | Initial Public Offering | REIT | Real Estate Investment Trust |
|-------|---|---|---|------|---|------|----------------------------------|
| APAC | Asia Pacific | ECX | Equinix Cloud Exchange | IT | Information Technology | ROA | Return on Assets |
| AVG | Average | EEA | European Economic Area | LLP | Limited Liability Partneship | ROIC | Return on invested Capital |
| AWS | Amazon Web Services | EMEA | Europe, Middle East, and Africa | LTM | Last Twelve Months | R&C | Racks and Cages |
| BFSI | Banking, Financial Services, and Insurance | EPA | Environmental Protection Agency | LTY | Last Ten Years | R&D | Research and Development |
| Bn | Billions | EPS | Earnings Per Share | MCDC | Major City Data Center | SA | South America |
| BCR | Binding Corporate Rules | EQIX | Equinix | ML | Machine Learning | SaaS | Software as a Service |
| CAGR | Compound Annual Growth Rate | ESG | Environment, Sustainability, and Governance | ММ | Millions | scc | Standard Contractual Clause |
| ССР | Chinese Communist Party | ist Party EU European Union | | MRR | Monthly Recurring Revenue | Sf | Square feet |
| CEO | Chief Executive Officer EV Enterprise Value | | Enterprise Value | MW | Mega-Watts | SEC | Securities exchange commission |
| CFO | Chief Financial Officer | FCF | Free Cash Flow | M&A | Mergers and Acquisitions | SM | Social Media |
| CIO | Chief Information Officer | GDPR | Global Data Protection Regulation | NA | North America | SLA | Service Level Agreement |
| CS | Colocation Services | GIC | Government of Singapore Investment Group | N/A | Not Applicable | ТАМ | Total addressable Market |
| CDN | Content Delivery Network | GRC | Governance Risk Compliance | NRSF | Net Rentable Square Footage | ТМ | Trademark |
| CHIPS | Creating Helpful Incentives to Produce Semiconductors | GPM | Gross Profit Margin | NTM | Next Twelve Months | TMR | Total Market Revenue |
| DC | Data Center | HW | Hardware | N.Y. | New York | TRS | Taxable REIT Subsidiary |
| DCF | Discounted Cash Flow | IaaS | Infrastructure as a service | ΟΙ | Operating Income | τν | Terminal Value |
| DDoS | Distributed Denial of Services | IBM | International Business Machines | PGIM | Prudential Global Investment Management | USA | United States of America |
| DGX | Data center GPU Exchange | IBX | International Business Exchanges | PoP | Point of Presence | VPN | Virtual Private Network |
| DLR | Digital Realty Trust | IDPS | Intrusion Detection and Prevention System | PPA | Power Purchase Agreement | USD | United States Dollars |
| BITDA | Earnings Before Interest, Taxes, Depreciation, and Amortization | s, Depreciation, IoT Internet of Things | | QC | Quantum Computing | WACC | Weighted Average Cost of Capital |
| EBIT | Earnings Before Interest and Taxes | IPL | International Privacy Law | REC | Renewable Energy Certificates | WAN | Wide Area Network |



Executive Summary

Executive Summary

Who should IBM acquire?...



IBM should <u>NOT</u> acquire... EQUINIX

Equinix is a retail data center REIT that provides server rental and colocation services to cloud providers, businesses, and networks

★ Market cap ≈ \$86.11 Bn
 Price per NRSF ≈ \$2,889.60/Sf

- I. IBM has **\$56.5B** in debt and cannot afford to finance this acquisition, would risk **a credit downgrade**
- II. Acquisition could **NOT** result in **less than 35% dilution** without incurring > **\$40 Bn in debt**
- III. Equinix acquisition would be **more than double** the previous largest acquisition in IBM history



DIGITAL REALTY

Digital Realty is a wholesale data center REIT that provides data center rental space and colocation services to cloud providers, businesses, and networks

★ Market cap ≈ \$46.68 Bn
 Price per NRSF ≈ \$892.54/Sf

- I. The market **Undervalued** Digital Realty by 40.5%
- II. Acquisition would result in 17% less debt and ≈50% of the dilution
- III. Digital Realty acquisition would be **similarly sized** to previous largest acquisition in IBM history

Executive Summary

Financial Analysis

Alternative Solution

Industry Overview

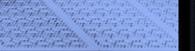


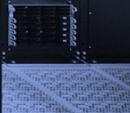
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Data Center Industry Analysis

10.09%



Growing markets in the Southern Hemisphere

Data Center Market Comparison

7.96%

1



Demand in NA continues to increase from its already globally high point. Clients seeking out scalability, reliability, and high bandwidth often look to NA. The projected CAGR for NA is 10.09% with notable hotspots in Northern Virginia and Silicon Valley regions.

Clients in Europe emphasize guality and reliability in terms of DCs. A steady increase in consumption in recent years paints a bullish outlook for 2024, with an expected CAGR of 7.96%. DCs in Europe are increasingly attractive as the diverse network of regulatory laws encompassing the multitude of countries creates tax and regulation havens in certain regions.

An Asian surge in demand has fueled increased usage, rack space, and revenues, a trend that is expected to continue into next year. The continent should see a CAGR of 12.43% in 2024. The spearheads of China and Japan are the second and third largest DS houses, only behind the U.S.

12.43%

CAGR

*Possible overestimates by the CCP may misrepresent profitability.



Growing Markets

An increased demand in cloud services and a heightened awareness of digital transformation regarding AI application coupled with lax trade laws has led to significant growth in SA in recent years. While central infrastructure makes DC construction difficult, motivation is high to increase the supply of DC services in the region. An expected CAGR of 6.57% is forecasted to affected revenues in 2024.

The region has seen steady economic growth alongside a rise in urban populations making demand quickly on the rise in this region. A rough landscape and varying levels of development along with a lack of infrastructure in certain regions require customized solutions. Africa is expected to be affected by a CAGR of 7.14% in 2024. most growth occurring in the South African cities of Cape Town and Johannesburg.

Α growing economy combined with government initiative fuels revenue growth in Australia and Oceania leading implementation of new, green DCs made possible by the region's emphasis on sustainability. The distances between nations poses a unique challenge to providers, who have invested in building a more connected network. Positive market outlook paints a CAGR of 6.11% in 2024.

Key Challenges for 2024

Lack of Space

and

Shortage

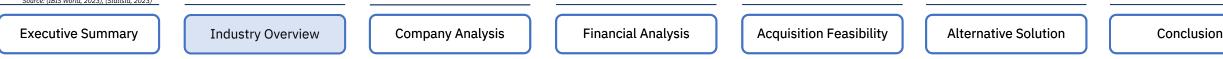
abor

Safe, low rent, easy access locations are uncommon in 2024 as they are often preoccupied. Lack of build sites makes new DC construction and horizontal expansion difficult. More so, higher rent costs in NA further the difficulties of DC construction. Outdated DCs cannot handle the power demand and in recent years, as the demand for generative ai has soaked up the current available DC space. Cooling processes have become more difficult as rack space has become more concentrated and bandwidth demands have increased.

The demands incurred by new computing methods has put strain on the DC energy infrastructures. It is estimated that the global energy demands in this industry will double by 2028. Outdated grids in markets such as Europe and NA limit growth as improvements would require tremendous investments from outside sources. In some cases, grid operators have resorted to partial shutdowns in times of higher demand. Furthermore, geopolitical factors have given rise to an emphasis on low carbon emissions and renewable energy. Sustainable operations require further expansion and funding, putting even more strain on a market with already inhibited growth.

Global labor market troubles are reflected withing the DC industry. Finding and retaining engineers who can build and maintain the infrastructure needed is and has been difficult. Constantly advancing hardware requires constant training. Individuals with specialized skills can become useless as technology advances. Expansion within the industry strains the already limited supply of workers. Finding the funding to hire and train workers constantly puts financial strain on the companies operating these centers.

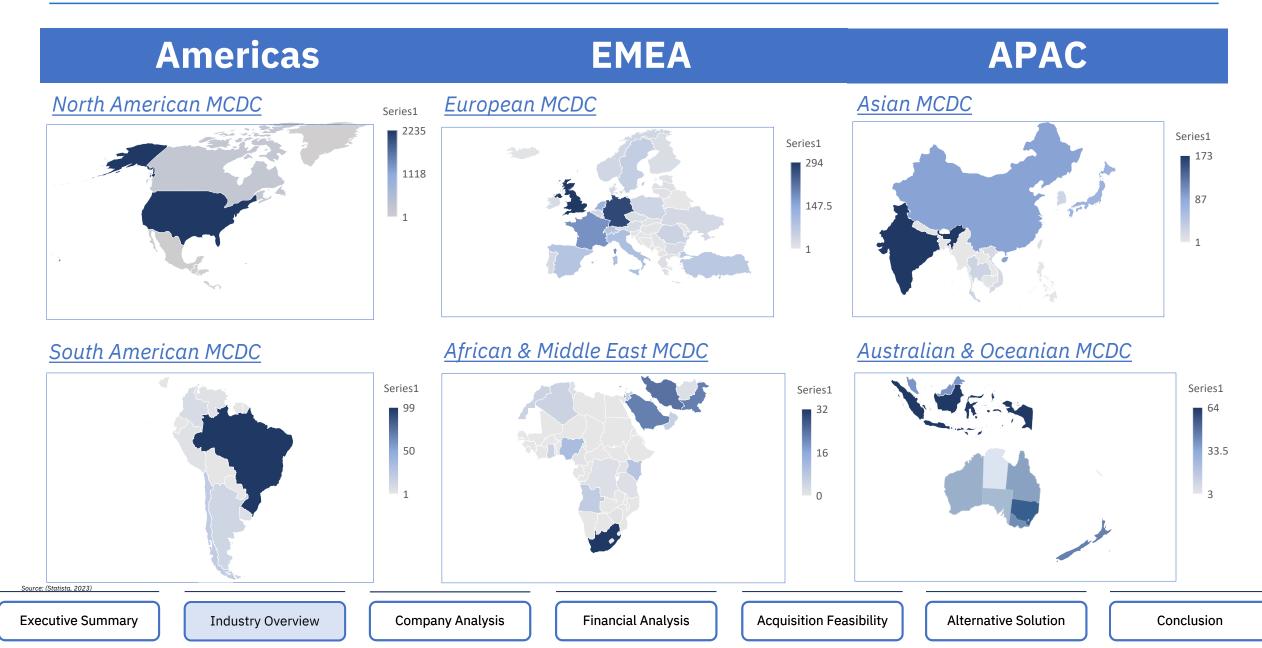
Source: (IBIS World, 2023), (Statista, 2023)



Geographic Spread of Data Centers

Uneven distribution within regional markets





Data Center Industry Outlook and Trends

Positive growth in all major end markets



| DC End Market | General Trend (2022- 2023) | 2024 Outlook | ТАМ |
|-----------------------|-------------------------------|---|--|
| Financials | | Financial transactions require continuously larger amounts of data storage. An increasingly digitized marketspace requires a larger volume of data centers to accommodate for the growing nature of the industry. | \$25 - \$30 Trillion 7.5% - 9.5% CAGR |
| Healthcare | | The healthcare industry continues and will continue to generate sizable amounts of data. Estimates say this industry alone generates 30% of data , a number that will increase to 36% in coming years . | \$7.5 - \$11 Trillion 5.5%-8% CAGR |
| (((p))) IoT | | The Internet of Things has been on the rise for years . As the number of devices on the market increases, so will the amount of data. DCs must adjust in order account for the new types of data . High levels of performance as well as reliability are crucial for the growing sector. | \$300 - \$320 Billion 16.5% - 17.5% CAGR |
| Industry Solutions | | Industry solutions across the board have been changing in recent years. Implementation of AI and machine learning expand the capabilities of firms. However, as these solution improve, so does their need for accessibility and security. | \$37 - \$40 Billion 5.5% - 8% CAGR |
| Customer Service | | As the implementation of AI usage in customer service increases, the DC supply must adapt. With the development of conversational models, demand for bandwidth and reliability are vital . | \$10 - \$12 Billion 9.5% - 12% CAGR |

Source: (Decipher Market Research, 2023), (Yahoo Finance, 2023), (Statista, 2024), (Growth Market Research, 2023), (Market Research, 2023), (Verified Market, 2023), (Verif

Executive Summary

Industry Overview

Financial Analysis

Acquisition Feasibility

Alternative Solution

Real Estate Investment Trusts

Tax benefits and structural restrictions



For a company to qualify as a REIT:

- Invest at least 75% of total assets in real estate, cash, or U.S. Treasuries
- Derive at least 75% of gross income from rents, interest on mortgages that finance real property, or real estate sales
- Pay a minimum of **90%** of taxable income in the form of shareholder **dividends** each year
- Be an entity that's taxable as a corporation
- Be managed by a **board** of directors or trustees
- Have at least **100 shareholders** after its first year of existence
- Have no more than 50% of its shares held by five or fewer individuals

Industry Overview

- [Investopedia.com, 2023]

Data Centers are Commonly Structured as REITs

(Real Estate Investment Trusts)

urce: (Investonedia, 2023

Executive Summary

A REIT is a publicly traded, income producing, real estate project that has specific rules they must follow to be eligible to be filed as such. These rules allow REITs to avoid corporate level taxes, but most income must be distributed as dividends.

Company Analysis

More than 70% of the world's data centers are REITs

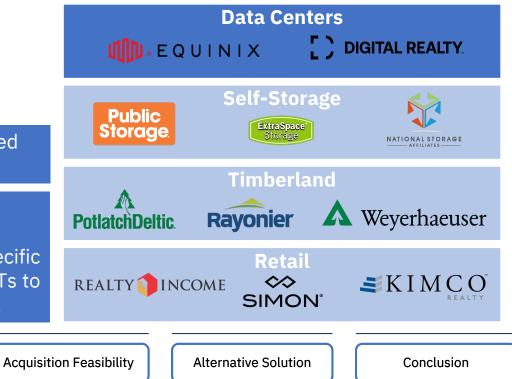


REITs are publicly traded as a mutual fund

Financial Analysis



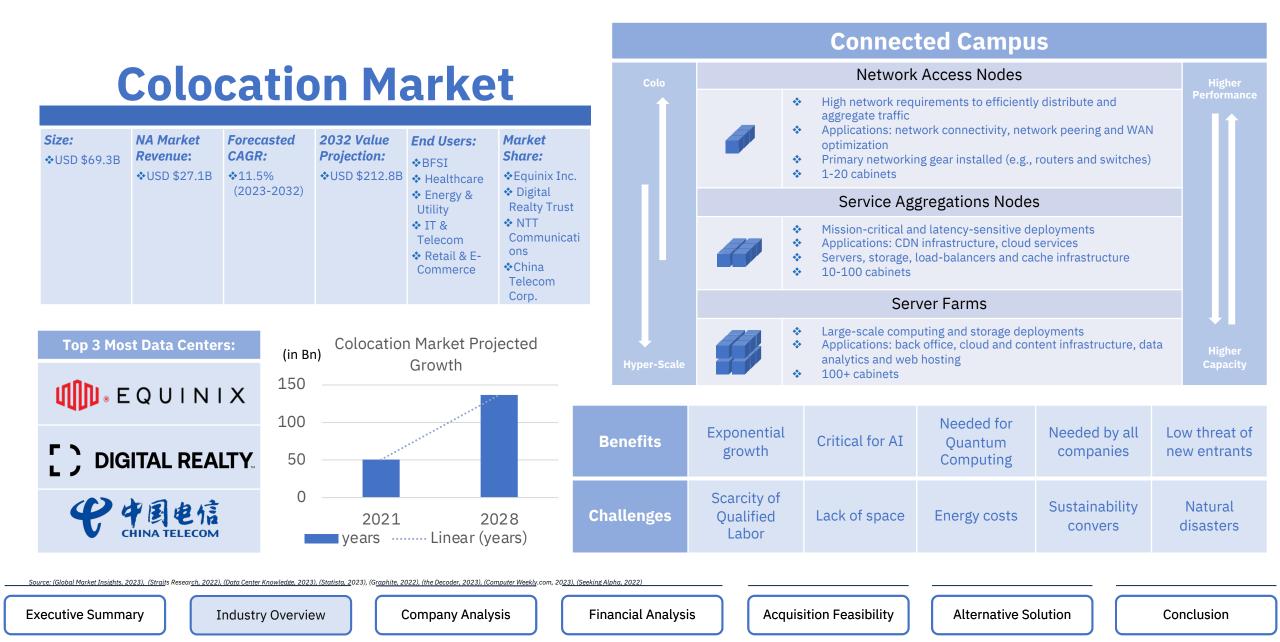
Examples of REITs



Colocation Service Overview

Colocation services bridge the world of data and scalability

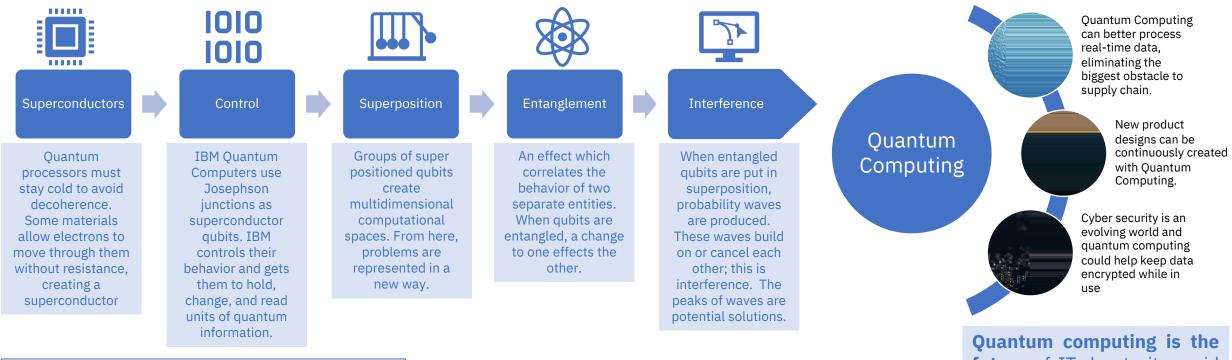


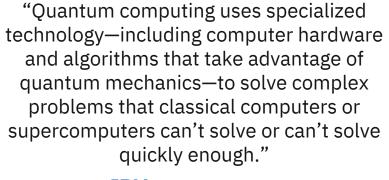


Quantum Computing Overview

The future of computing, applicable to all industries







Value creation potential of quantum computing by 2050, by technology (in Bn) 330 220 220 160 150 100 80 40

future of IT due to its rapid processing times, regardless of its requirement for immense amounts of storage (Similar to AI). Ouantum computing still requires the same amount of processing power as normal computing. it only uses it faster.

- IBM [IBM.com, 2024]

Executive Summary

ource: (IBM, 2024), (Tech target, 2023)

Industry Overview



Cryptography

400

300

200

100

0

Financial Analysis

Optimization

Acquisition Feasibility

Machine learning

Simulation

Alternative Solution Conclusion





IBM Overview

International Business Machines



IBM's Identity:

Source: (IBM Newsroom, 2023

Executive Summary

- IBM is a multinational technology company founded in 1911 headquartered in Armonk, N.Y. They are currently a leading provider of global Hybrid Cloud and AI, along with a team of consultants aimed to enhance business experience.
- ◆ IBM Is looking to expand on their new AI, watsonx™, by acquiring data centers to expand its capabilities and spread its usage to the parts of the world that IBM lacks data centers. IBM's Quantum computing is extremely powerful, it can be used to enhance pre-existing data centers with IBM's infrastructure.
- IBM is best known for its hardware and software products such as: computers, servers, storage systems and networking equipment.
- To implement their products, IBM has established a team of consultants to help companies utilize their technology and business services. These services include, cloud computing, data analytics, and artificial intelligence.
- IBM is an expansive company that spends its' designated
 \$6.78 Bn on research, development, and manufacturing of semiconductors, mainframe technology, artificial intelligence, and quantum computing.

"Europe has some of the world's most advanced users of quantum computers, and interest is only accelerating with the era of utility scale quantum processors," -Jay Gambetta, Vice President of IBM Quantum (IBM, 2023)

Industry Overview

Due to an innovative & growing industry...



Because of a well distributed portfolio...



...IBM is dedicating \$6.78 Billion in...



IBM has seen marginal growth since 2020...

Revenue from Business Activities - Total

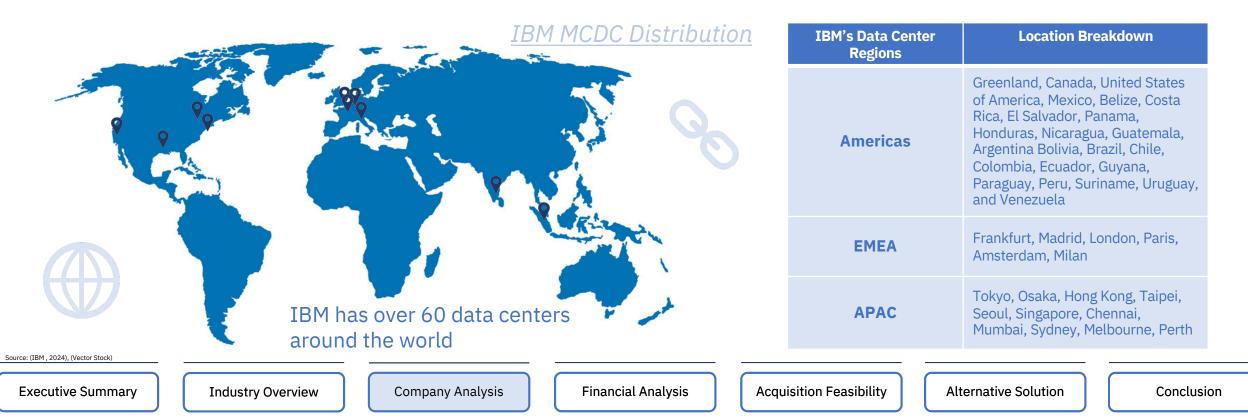


IBM Overview: Data Centers



Small global reach relative to Equinix

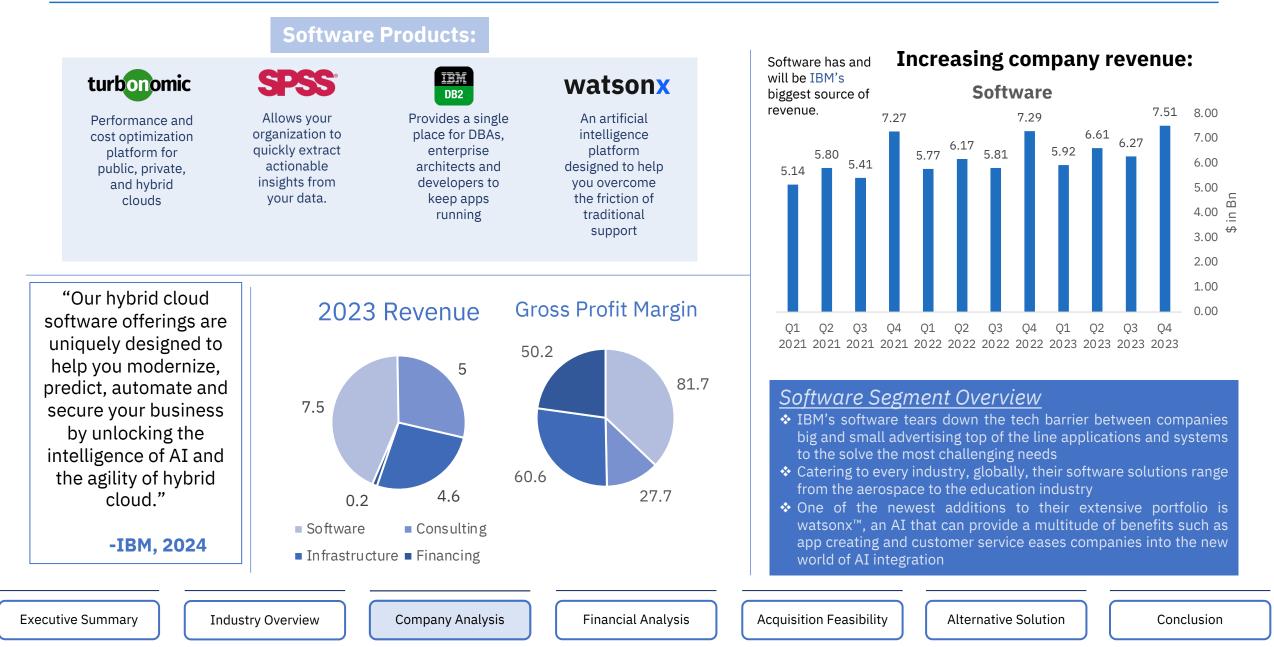
| Location | Multi- Zone Region | Data Center | Federal Data Center | Network PoP | Location | Multi- Zone Region | Data Center | Federal Data Center | Network PoP | Location | Multi- Zone Region | Data Center | Federal Data Center | Network PoP |
|-----------|--------------------------|----------------|---------------------------|----------------|-----------|--------------------------|----------------|---------------------------|----------------|-----------|--------------------------|----------------|---------------------------|----------------|
| Ashburn | \checkmark | \checkmark | \checkmark | \checkmark | Tokyo | \checkmark | | | \checkmark | Frankfurt | \checkmark | | | \checkmark |
| Dallas | \checkmark | \checkmark | \checkmark | \checkmark | Osaka | \checkmark | | | \checkmark | Madrid | \checkmark | | | \checkmark |
| San Jose | | \checkmark | | \checkmark | Singapore | | \checkmark | | \checkmark | London | \checkmark | \checkmark | | \checkmark |
| Toronto | \checkmark | | | \checkmark | Chennai | | \checkmark | | \checkmark | Paris | | \checkmark | | \checkmark |
| Montreal | | \checkmark | | \checkmark | Sydney | \checkmark | | | \checkmark | Amsterdam | | \checkmark | | \checkmark |
| São Paulo | \checkmark | | | \checkmark | | | | | | Milan | | \checkmark | | \checkmark |



IBM Overview | Software

IBM's largest revenue source



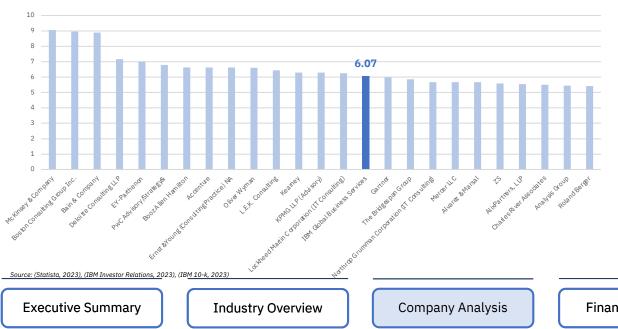


IBM Overview | Consulting

How IBM aids customers

Consulting Segment overview

- IBM's consulting focuses on assisting clients reach their goals, transforming their digital infrastructure with the use of IBM's hyper cloud and AI technologies.
- Hybrid cloud systems are supported by Redhat, a company that provides an open-source software that allows a business' digital infrastructure reliability, security, and adds a vast number of additional features.
- Artificial Intelligence within IBM is attempting a similar approach, employing 16,000 accredited consultants to help support clients with any issues that may arise.



Lead consulting firms in the U.S. 2023, by prestige rating

IBM's consulting revenue: \$5.047Bn (16% increase from Q1 2021)



IBM Consulting Process

When integrating IBM's services, businesses need IBM consultants' assistance to setup inside IBM's cloud infrastructure.

IBM consultants provide on demand service to its users. The service provided by IBM and its consultants is highly regarded in the consulting world, scoring high on the 2023 prestige rating.

IBM aims to work with the customer to help build, design, and ultimately operate inside IBM's cloud.



Financial Analysis

IBM Overview | Artificial Intelligence

Past, present, and future of IBM's AI development





IBM and AI:

Showing off their innovation to the public through demonstrations in professional chess and the TV show "Jeopardy," IBM has shown its goals are to **bring AI to the world**. With its newest version of AI, watsonx[™], IBM is working ever closer to this goal.

What is watsonx[™]?

Watsonx[™] is an AI made for businesses that want to **integrate AI into their digital infrastructure**. It is the substructure to the superstructure of modern and developing business models.



Issues with AI/ML:

22

Without data, ML cannot advance. AI needs **ten times** more samples than features in a dataset. To ensure high accuracy, AI needs more data than previously achievable. For instance, ChatGPT 4.0 consists of **1.76 trillion parameters**, each parameter is 64 bits, ML will never stop growing.

Executive Summary

ource: IBM "History of AI", 2023

Industry Overview

Company Analysis

Financial Analysis

Acquisition Feasibility

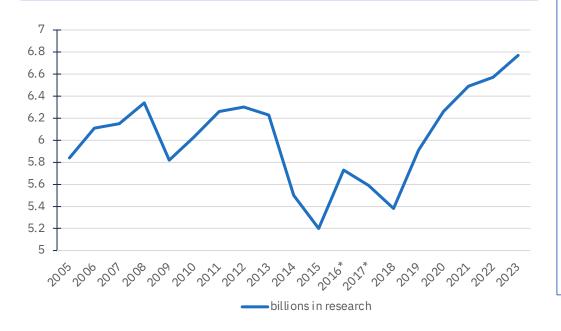
Alternative Solution

IBM Overview | Research & Development

Areas of interest for IBM

IBM

IBM has **\$6.57 Billion In R&D** expenditures, with the objective of R&D geared towards big data, quantum computing, and blockchain technology.



"Failure of Innovation Initiatives Could Impact the Long-Term Success of the Company: IBM has moved into areas, including those that incorporate or utilize hybrid cloud, artificial intelligence, quantum and other disruptive technologies, in which it can differentiate itself through responsible innovation, by leveraging its investments in R&D and attracting a successful developer ecosystem. **If IBM is unable to continue its cutting-edge innovation** in a highly competitive and rapidly evolving environment or is unable to commercialize such innovations, expand and scale them with sufficient speed and versatility or is unable to attract a successful developer ecosystem, **the company could fail in its ongoing efforts to maintain and increase its market share and its profit margins**."

-IBM (10-K (IBM, 2024))

IBM Project Direction

IBM is currently developing its AI, watsonx[™], with intentions for public and private use. With watsonx[™] in mind, IBM will need to invest in digital infrastructure to house their AI. Additionally, for the public to utilize IBM's Quantum Computing in the future, it will require large data centers to run the abundance of HW that Quantum Computing inherently requires.

ource: (IBM (10-k(IBM, 2023))

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Alternative Solution

Company Analysis

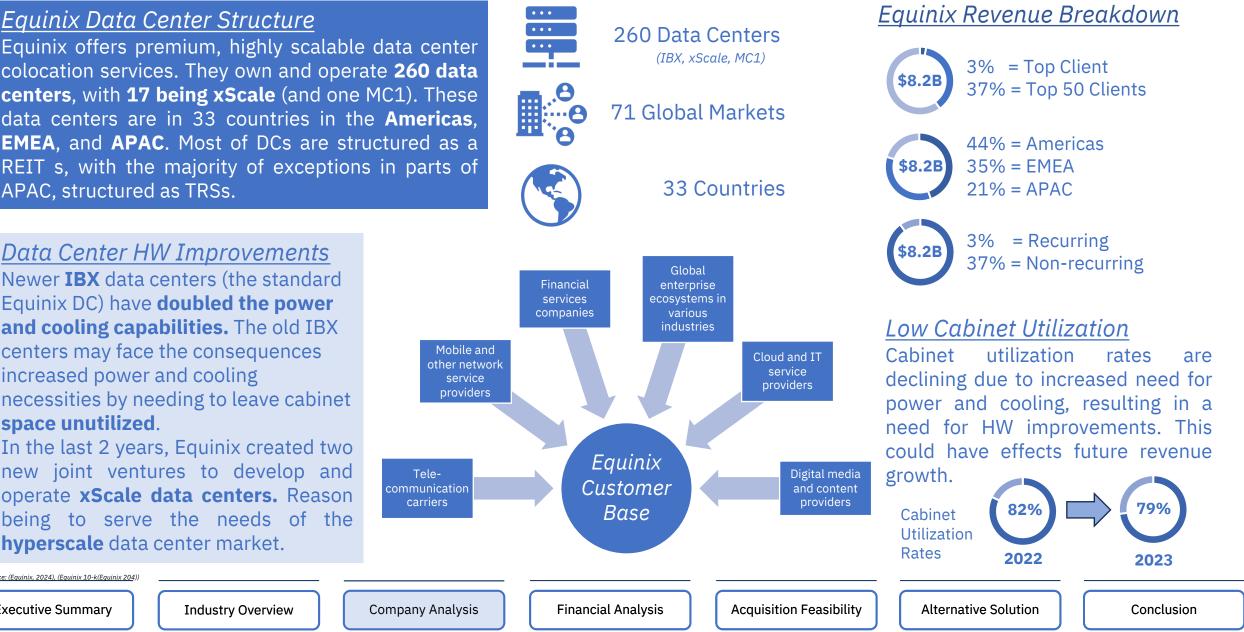
EQUINIX

Strategic Fit

Equinix Overview

Profitability, customer base, and potential for growth.





Data Center HW Improvements Newer **IBX** data centers (the standard Equinix DC) have **doubled the power** and cooling capabilities. The old IBX centers may face the consequences increased power and cooling necessities by needing to leave cabinet space unutilized.

APAC, structured as TRSs.

In the last 2 years, Equinix created two new joint ventures to develop and operate **xScale data centers.** Reason being to serve the needs of the hyperscale data center market.

ce: (Fauinix, 2024), (Fauinix 10-k(Fauinix 204

Executive Summary

Equinix Overview | Colocation and Data Centers



Equinix's large global reach and business services



Number of Equinix IBX data centers worldwide 2016-2022, by region



■ Americas ■ EMEA ■ APAC

Equinix Fabric Features



| | # of IBX | Total Cabinet Capacity | Cabinets Billed | Cabinet Utilization % | MRR per Cabinet |
|----------|-------------|---------------------------|--------------------|--------------------------|--------------------|
| Americas | 108 | 145,400 | 112,900 | 78% | \$2,257 |
| EMEA | 84 | 136,200 | 109,100 | 80% | \$1,991 |
| APAC | 50 | 80,900 | 65,300 | 81% | \$2,104 |
| Total | 242 | 362,500 | 287,300 | | |

000

Equinix MCDC Distribution

Equinix Overview | GDPR Regulation

European data center regulations and their effect on Equinix

GRC



<u>GDPR Overview</u>

The General Data Protection Regulation was a regulatory law often considered to be the strictest in Europe.

<u>Equinix's Infosec</u> <u>Governance, Risk</u> Compliance (GRC)

This program lowers the risk of cybersecurity breaches for Equinix by putting in a centralized, and highly scalable platform. They use Platform Equinix to address important issues such as: "Audit Management, Risk Management, Policy Management, Regulatory Change and Compliance Management." [Equinix, 2022]



Equinix and the GDPR



How Equinix deals with restricted International transfers set in place by the GDPR

Equinix uses a series of Subprocessors like a Standard Contractual Cause (SCC) to aid in the delivery and processing of Equinix's services. Under the circumstance of international data transfer, Equinix engages in their adoption of BCR (Binding Corporate Rules), which are preapproved for data transfer. Essentially, if the BCR does not cover the data transfer, Equinix will engage in an SCC to allow for GDPR abiding data transfer.

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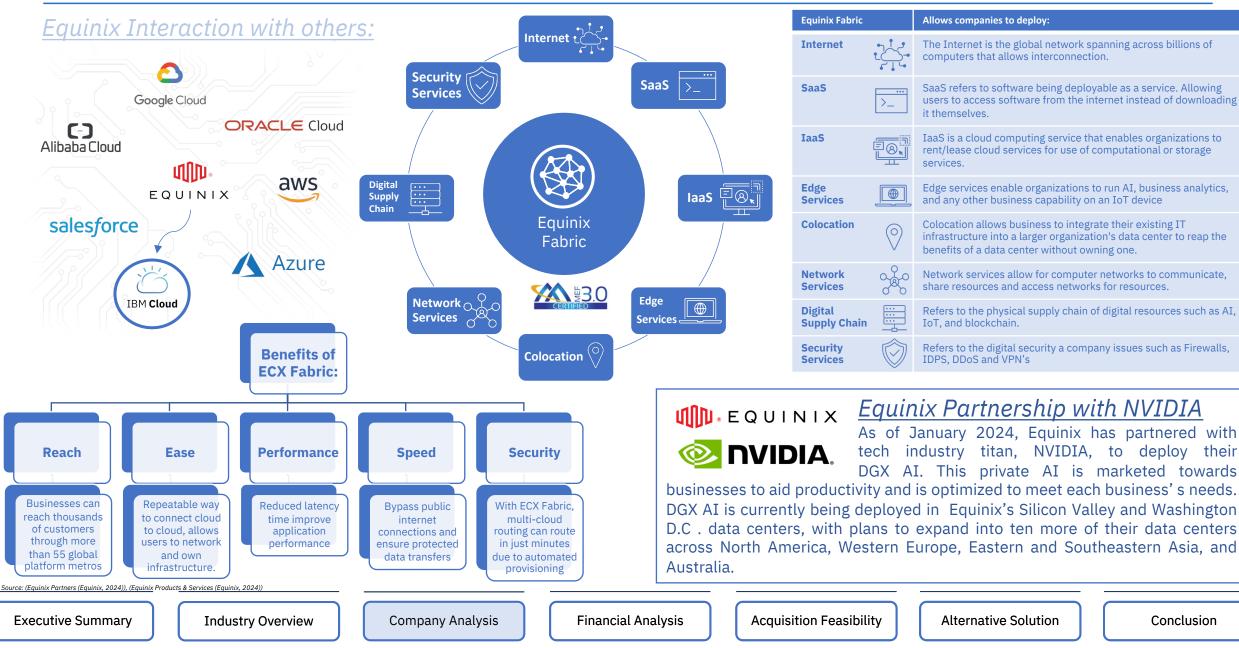
Acquisition Feasibility

Alternative Solution

Equinix Overview | Fabric Capabilities



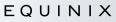
Equinix software and their partnership with NVIDIA



Company Analysis



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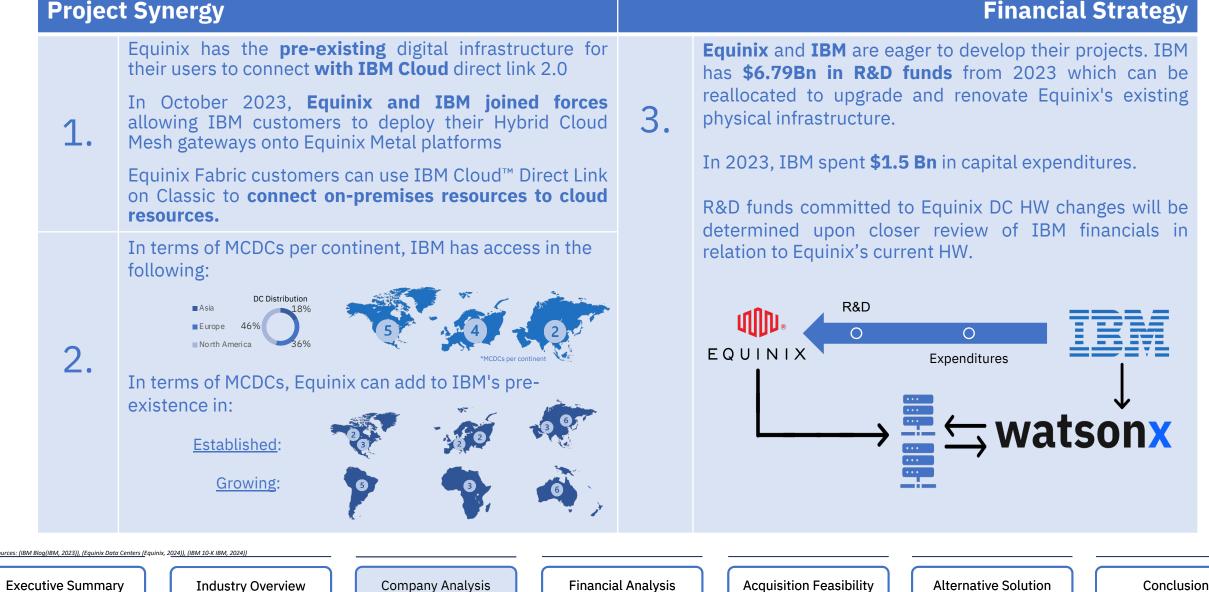


Strategic Fit | Equinix Physical Infrastructure

Data centers and potential improvements



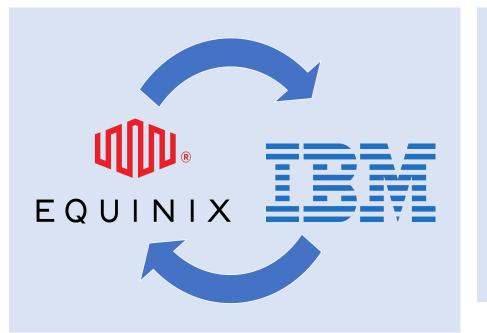
Project Synergy



Strategic Fit | Equinix Digital Infrastructure

Equinix Fabric relation to IBM software





- 1. Equinix offers digital infrastructure in the form of Equinix Fabric: a secure, scalable, multi-cloud colocation service, and physical infrastructure in the form of 250 IBX DCs in 71 metro areas globally.
- 2. IBM offers watsonx: a generative business ai, geared toward in sighting financial opportunity, managing business operations, and even decision making.

Equinix can fuel watsonx, with its global data centers and expand IBM's infrastructure

- Expand global data center infrastructure
- Use R&D expense to cover renovations
- Enable Highspeed computing, low latency connection, vast storage data centers
- Equinix Fabric can host all of IBM's/Redhat's opensource software

Natural Synergy

Currently watsonx[™] is not global and does not have enough data centers to fuel its data needs based on the nature of AI (splicing information). Equinix Fabric allows companies to come together on a centralized platform. Redhat has a software branch called OpenShift which allows developers to create applications, this is already accessible on Equinix Fabric.

Source: (Equinix Products & Services (Equinix, 2024)), (IBM, 2

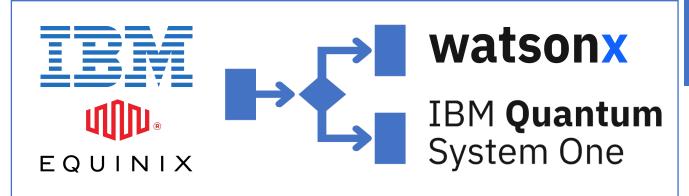
Financial Analysis

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Strategic Fit | Equinix Future Outlook



Equinix potential to improve IBM projects

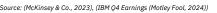


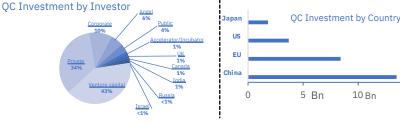
Expansion into new regions of the world allow for a comprehensive customer reach. These regions (South America, Africa, and Oceania) are opportunistic, rapidly-growing markets that Equinix has a large presence in, making them a desirable acquisition for IBM.

IBM's main objective regarding watsonx[™] is implementation into both the public and private business sector. The generative business capabilities of watsonx[™] are expected to increase exponentially over the next few years alongside an increase in available data.

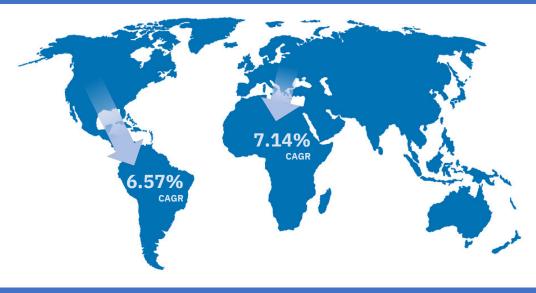
QC HW requires massive amounts of energy that IBM does not currently have the capacity for. With the integration of Equinix's newer IBX DCs (specialized for power management and cooling), IBM would be able to expand their QC operations and continue to meet their sustainability goals.

 Investors confidently support the QC market
 Varying types of investor assures market stability
 Diverse investor group reflect diverse demand





Equinix's wide-spread data center reach paired with the continuous growth the data center REIT industry makes them a target for acquisition by IBM.



With Equinix's NRSF that is not dedicated to IBM's AI or Quantum Computers, **Equinix will continue to operate as a retail data center REIT**. To keep investors confident, IBM should **keep Equinix's current customer base** and allocate a relatively small portion of the total NRSF to Quantum computing development, like Equinix's plan with NVIDIA.

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15 Bn

Acquisition Feasibility

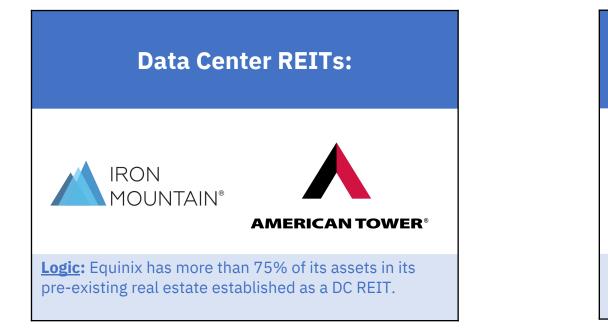
Alternative Solution

Financial Analysis Comps

Financial Overview | Equinix Peers

Data center REITs and colocation service providers





Colocation Service Providers:



Logic: Equinix provides colocation services for a secure data transfer network between businesses and DCs.

Source: (Investopedia, 2023), (Equinix, 2024)

Financial Analysis



Financial Overview | Equinix Related Industries

Equinix with its respecitve industries



| Peer Industries | Market Size | CAGR | Relevance to Equinix | Revenue & Cost Drivers | Invest? |
|---|-----------------|-----------------------------|---|--|------------|
| | \$1.7T | 2.8% (2022-2030) | Equinix's Market Share of REIT Industry Equinix Rest of Market | Power ConsumptionImage: ConsumptionMarket ExpansionImage: ConsumptionInexpensive CoolingImage: ConsumptionNew Client LeasesImage: ConsumptionLegislative RegulationsImage: ConsumptionDevelopmentImage: Consumption | × |
| colocation | \$61.5B | 14.2% (2023-2030) | Equinix Market Share of Colocation Services Equinix Rest of Market | Power ConsumptionImage: ConstructionMarket ExpansionImage: ConstructionInexpensive CoolingImage: ConstructionNew Client | |
| EQUINIX | N/A | N/A | N/A | Power ConsumptionImage: Construct of the sector of the se | N/A |
| Source: (Grandview Research, 2022), (Technavio, 2023) (Refinitiv, 2024) Executive Summary | dustry Overview | Company Analys | is Financial Analysis Acquisition | Feasibility Alternative Solution | Conclusion |

Equinix compared to its peers

| Peers | Gross Margin | EBITDAR Margin | EBITDA Margin | EBIT Margin | Profit Margin |
|---|--|---------------------------------------|---------------|-------------|------------------------------|
| EQUINIX | 48.37% | 48.18% | 45.21% | 17.63% | 11.84% |
| | 56.89% | 45.27% | 35.8% | 19.1%* | 9.76% |
| | 70.74% | 74.8% | 63.59% | 27.14% | 13.31% |
| | 77.1% | N/A | 53.44% | 15.4% | -7.08% |
| Оптрата | 26.42% | 15.5% | 15.18% | 7.38% | 4.28% * Estimated marging |
| Source: (Refinitiv, 2024), (Wharton Database, 2024), (Equin <u>ix 10-k (Equinix</u> , | 2024)), (Iron Mountain 10-k (Iron Mountain 2024)), AMT 10-k (AMT | , 2024)), (NTT Data 10-k (NTT, 2024)) | | | |

Executive Summary

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Equinix compared to its peers

| | Ľ | ТМ | NTM | | | |
|-----------------|-------|------------|-------------|-----------------|--|--|
| Peers | ROA | EV/EBITDAR | Debt/Assets | P/BV | | |
| EQUINIX | 3.92% | 37.29 | 0.50 | 6.75 | | |
| | 2.68% | 13.03 | 0.69 | 104.02** | | |
| | 4.38% | 17.30 | 0.59 | 21.52 | | |
| AMERICAN TOWER® | | | | | | |
| | -1.3% | N/A | 0.37* | 3.94 | | |
| | 2.17% | 9.26 | 0.27* | 2.05 | | |
| | | | | ed on long-term | | |

**abnormally high due to smaller asset holdings and uniform liabilities

Source: (Refinitiv, 2024), (Wharton Database, 2024), (Equinix 10-k (Equinix, 2024)), (Iron Mountain 10-k (Iron Mountain 2024)), AMT 10-k (AMT, 2024)), (NTT Data 10-k (NTT, 2024))

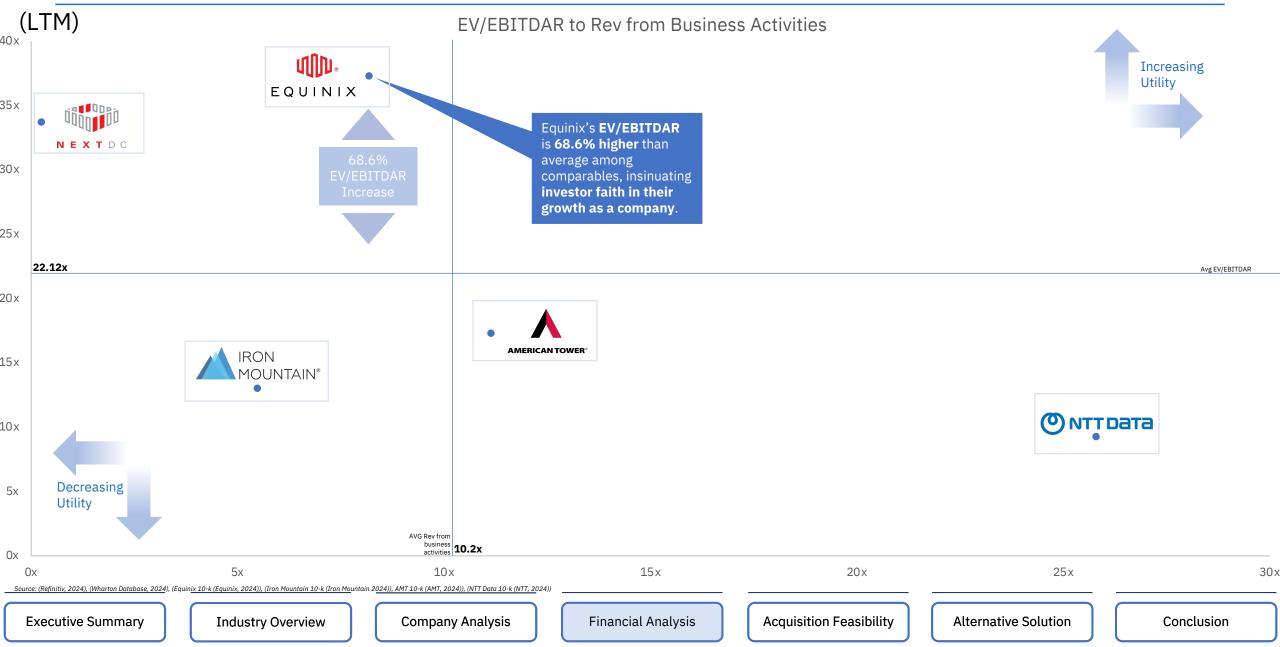
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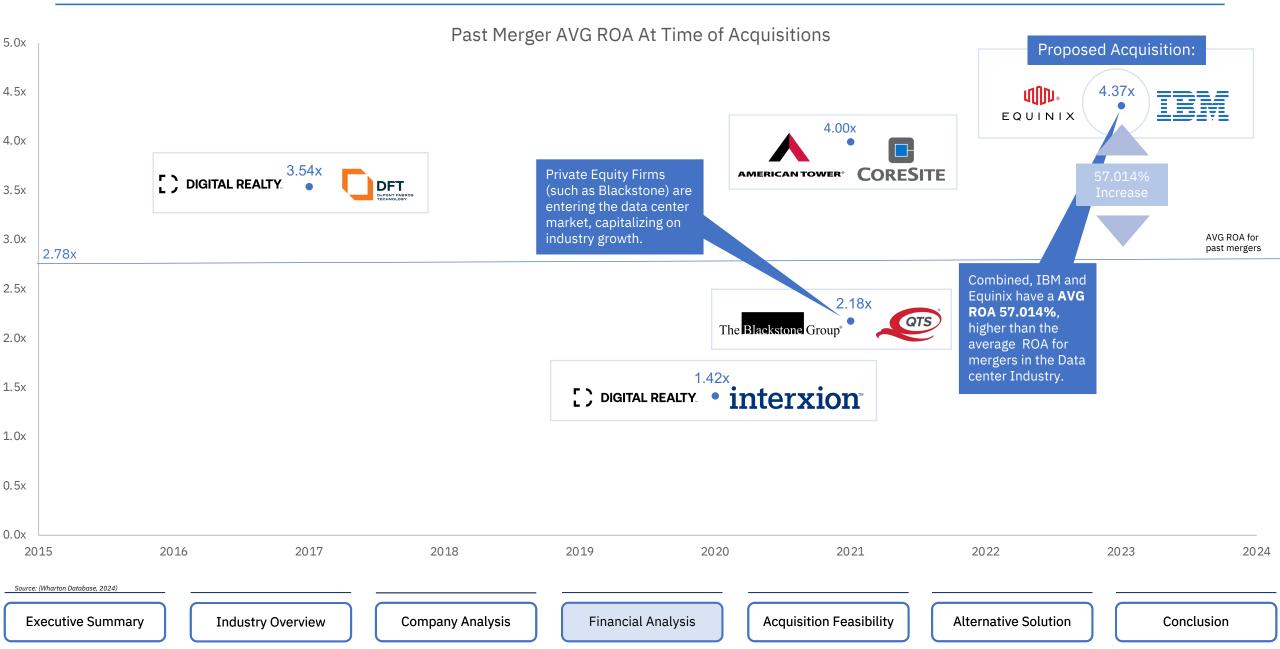
Acquisition Feasibility

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EV/EBITDAR to revenue from business activities



Past industry acquisitions compared



Financial Analysis Discounted Cash Flow

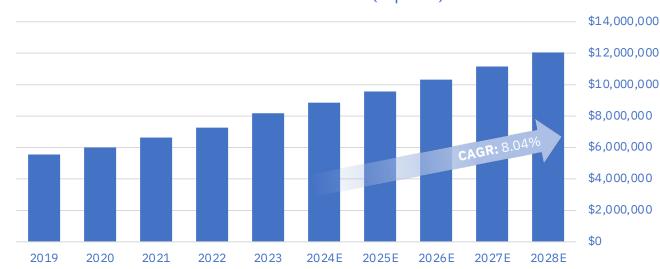
Financial Overview | Equinix Revenue from DCs

Past data and future outlook

Equinix DC Regional Outlook

Equinix aims to improve their connectivity, enhance their security, and to stay environmentally sustainable. Quarter four report of 2023 marked Equinix's 21st year of consecutive quarterly revenue growth.

In the last 2 years, Equinix established two new joint ventures with GIC Private Limited and PGIM Real Estate (in the form of LLPs). These ventures enabled Equinix to develop and operate xScale data centers aiming to serve the needs of the hyperscale DC market. In the future, Equinix aims to halt expansion into new markets and focus on upgrading their current DCs with hyperscaling capabilities.



Revenue Growth (Equinix)

Total Revenue Breakdown By Region (Equinix)

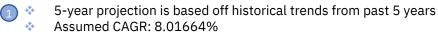


Equinix's valuations and FCF projections



| Fiscal Year Fiscal Year end date | 2022 12/30/22 | 2023 12/30/23 | 2024 12/30/24 | 2025 12/30/25 | 2026 12/30/26 | 2027 12/30/27 | 2028 12/30/28 |
|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | 12/30/22 | 12/30/23 | 12/30/24 | 12/30/23 | 12/30/20 | 12/30/27 | 12/30/20 |
| Revenue | 7,263 | 8,188 | 1 8,857 | 9,554 | 10,320 | 11,147 | 12,040 |
| % growth | 9.458% | 12.7% | 8.2% | 7.9% | 8.0% | 8.0% | 8.0% |
| Gross Profit | 3,512 | 3,9601 | 2 4,296 | 4,634 | 5,005 | 5,406 | 5,840 |
| % margin | | | 48.5% | 48.5% | 48.5% | 48.5% | 48.5% |
| Operating Income | 1,228 | 1,452 | 3 1,635 | 1,763 | 1,905 | 2,057 | 2,222 |
| % margin | | | 18.5% | 18.5% | 18.5% | 18.5% | 18.5% |
| Corporate Tax | | | 4 225.7 | 243.5 | 263.0 | 284.1 | 306.8 |
| After-Tax EBIT | 1,119 | 1,327 | 1,409 | 1,520 | 1,642 | 1,773 | 1,915 |
| Depreciation and Amoritization | | | 2,267 | 2,442 | 2,675 | 2,956 | 2,996 |
| Maintenance CapEX | | | (2,348) | (2,348) | (2,348) | (2,348) | (2,348) |
| Unlevered FCF | | | 1,328 | 1,613 | 1,968 | 2,381 | 2,563 |
| % growth | | | _,(| 21% | 22% | 21% | 8% |
| Discount Factor | | | 93.07% | 86.61% | 80.61% | 75.02% | 69.82% |
| Present Value of Unlevered FC | F | | 1,236 | 1,397 | 1,587 | 1,786 | 1,790 |

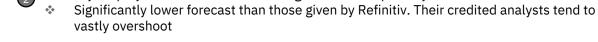
Additional Remarks



5-year projection based off the average GPM of the past 5 years

5-year projection based off average Operating Margin for the past 5 years Assumed Operating Margin of 18.5%

4 * 5-year projection is straight-lined from 2023 results Assumed Tax Rate of 13.81% *



Executive Summary

** 2

•

Source: (Refinitiv, 2024)

Industry Overview

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Calculations leading to weighted average cost of capital

| | | V | 1 |
|--|--|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

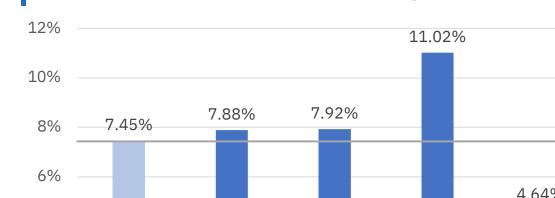
| Cost of Capital Assumptions | |
|-----------------------------|--------|
| Pre-tax Cost of Debt | 5.31% |
| Tax Rate | 13.81% |
| Risk Free Rate | 4.27% |
| Beta (5Y monthly) | 0.59 |
| Market Risk Premium | 11.76% |

| Cost of Debt | |
|------------------------|--------|
| Pre-Tax Cost of Debt | 5.31% |
| Tax Rate | 13.81% |
| After-tax Cost of Debt | 4.58% |

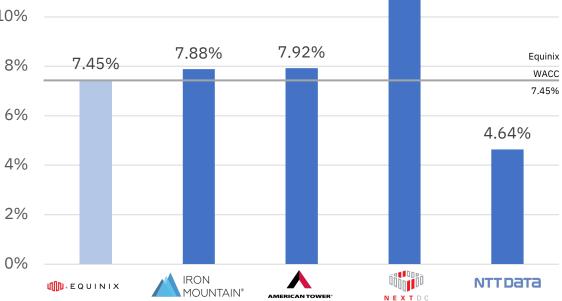
| Cost of Equity | |
|---------------------|--------|
| Risk Free Rate | 4.27% |
| Beta | 0.59 |
| Market Risk Premium | 11.76% |
| Cost of Equity | 11.13% |

Cost of Capital (WACC)

| Capital Weights | | |
|------------------------|------------------|------------|
| | Amount | % of Total |
| Market Value of Equity | \$12,484,499,000 | 43.84% |
| Market Value of Debt | \$15,993,040,000 | 56.16% |
| Cost of Capital (WACC) | | 7.45% |



Selected comparable companies' average cost of capital



Equinix's cost of capital is generally lower than those of its peers. •

- This low cost of capital is mostly attributed to a decreased price . volatility.
- In the property heavy industry they exist in, a low cost of capital makes • Equinix attractive as it reflects an effective top-down management strategy.

Source: (Refinitiv, 2024)

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Two approaches

IBM

Exit Multiple Approach

| Externations | |
|-------------------------------------|---------|
| Terminal Year EBITDA | 5,218 |
| Terminal Year Multiple | 21.91x |
| Terminal Value | 114,325 |
| Present Value of Terminal Value | 98,141 |
| Present Value of Stage 1 Cash Flows | 1,236 |
| Enterprise Value | 122,121 |
| Implied TV growth rate | 3.10% |

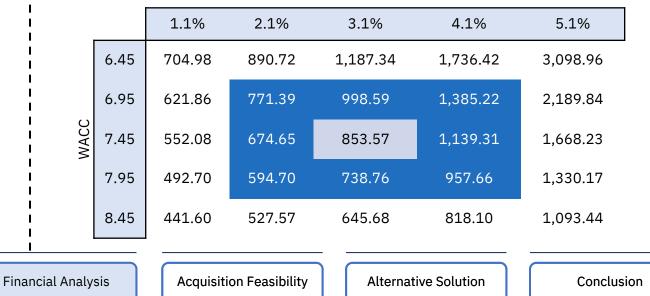
Exit Multiple was determined by the average EV/EBITDA for R.E.I.T.s in the U.S.



| Gordon Growth Approach | |
|-------------------------------------|---------|
| FCF in Last Forecast Period | 2,563 |
| FCF ^(t+1) | 2,642 |
| Long Term Growth Rate (g) | 3.1% |
| Terminal Value | 123,672 |
| Present Value of Terminal Value | 86,345 |
| Present Value of Stage 1 Cash Flows | 1,236 |
| Enterprise Value | 94,141 |
| Implied TV Exit Multiple | 21.91x |

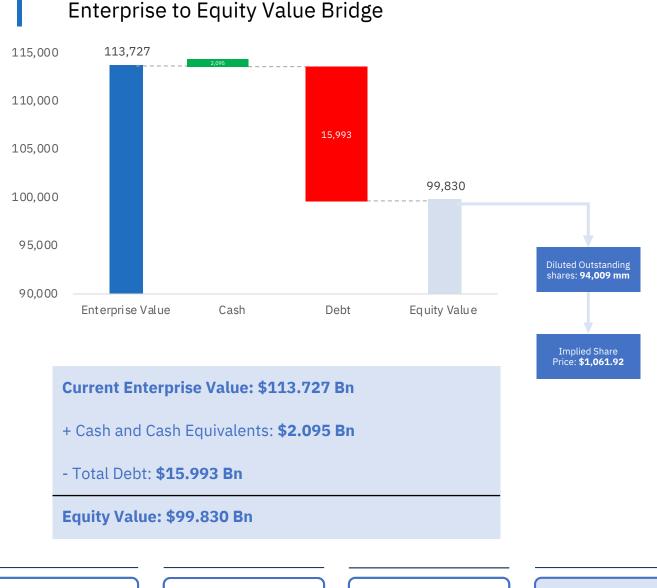
 Gordon Growth model assumes a more conservative growth rate in line with industry wide estimates

Gordon Growth Approach

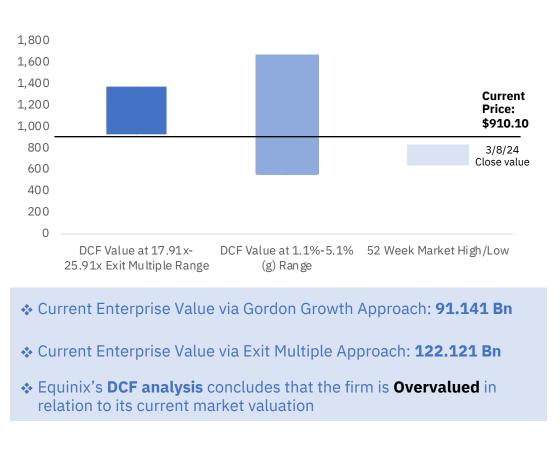


Bridge and football field





Football Field



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Financial Analysis Synergies

Financial Overview | Synergies

Equinix and IBM synergistic overview



| | Cost | Revenue | Post-Merger |
|---------------------------------|--|--|---|
| IBM and Equinix Synergies | Higher productivity Tax cuts Less outsourcing Better resource utilization | CHIPS Act Increased demand for Digital infrastructure Higher retained earnings | Parent company benefits (IBM) Captive REIT benefits (Equinix) New revenue streams |
| | Lower Costs - | – Higher Revenue | A Successful Merger |

| | More details | |
|--|---|---|
| Costs | Revenue | Post-Merger |
| Captive REIT's receive complete tax deductions on interest paid on real estate or renovations on pre-existing real estate properties. Depending on varying jurisdictions, captive REITs can also receive tax deductions for depreciation and capital gains. | In having Equinix as a captive REIT, IBM will have full control over how they will allocate the newly acquired real estate holdings. Assuming IBM makes the correct decisions, they can increase revenue in the future by decreasing their taxable income. The CHIPS Act gives subsidies to semiconductor companies thus enticing them to produce more which drives innovation causing the need for more storage. | As a parent company IBM has full control over Equinix's assets. Equinix will not have to console shareholders thus increasing productivity. They would have IBM's available cash flow and higher R&D margins. |

Source: (Faster Capital, 2023)

Executive Summary

Industry Overview

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Acquisition Feasibility

Alternative Solution

Financial Overview | Synergies

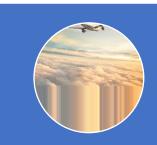
EQUINIX

Important cost synergies



With IBM's capital, Equinix could utilize IBM Cloud & Redhat OpenShift in tandem with their ECX Fabric and Equinix Network Edge. Equinix runs on a private IBX, thus IBM could utilize its public and newly private presence to appeal to investors who express concern about Data Privacy.





IBM's capital will aid in streamlining for Equinix



Higher Efficiency Operations

IBM's experience can help with optimizing resource utilization

Equinix can utilize IBM's \$1.5 Bn Capital Expenditure budget to

physical/digital infrastructure through upgrading cooling systems,

fund new development projects to expand their preexisting

increasing total rack space, and improving latency speeds.

IBM can restructure its R&D costs to reduce overhead and incentivize productivity As mentioned previously, with the help of IBM's limitless resources, Equinix will see a multitude of benefits including but not limited to higher R&D expenditures. IBM could outsource labor in the regions Equinix is already located in decreasing overhead costs.



Source: (Refinitiv, 2024), (Equinix Data Centers (Equinix, 2024)

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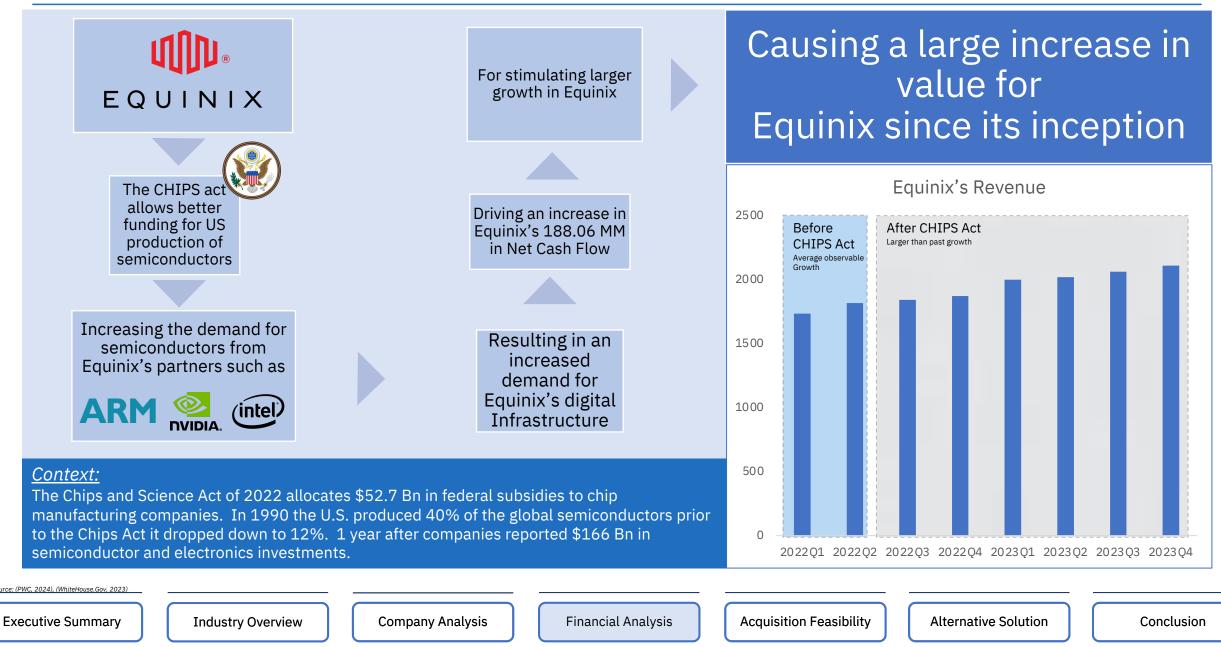
Acquisition Feasibility

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Financial Overview | 2022 CHIPS Act

US attempt to stimulate its semiconductor industry

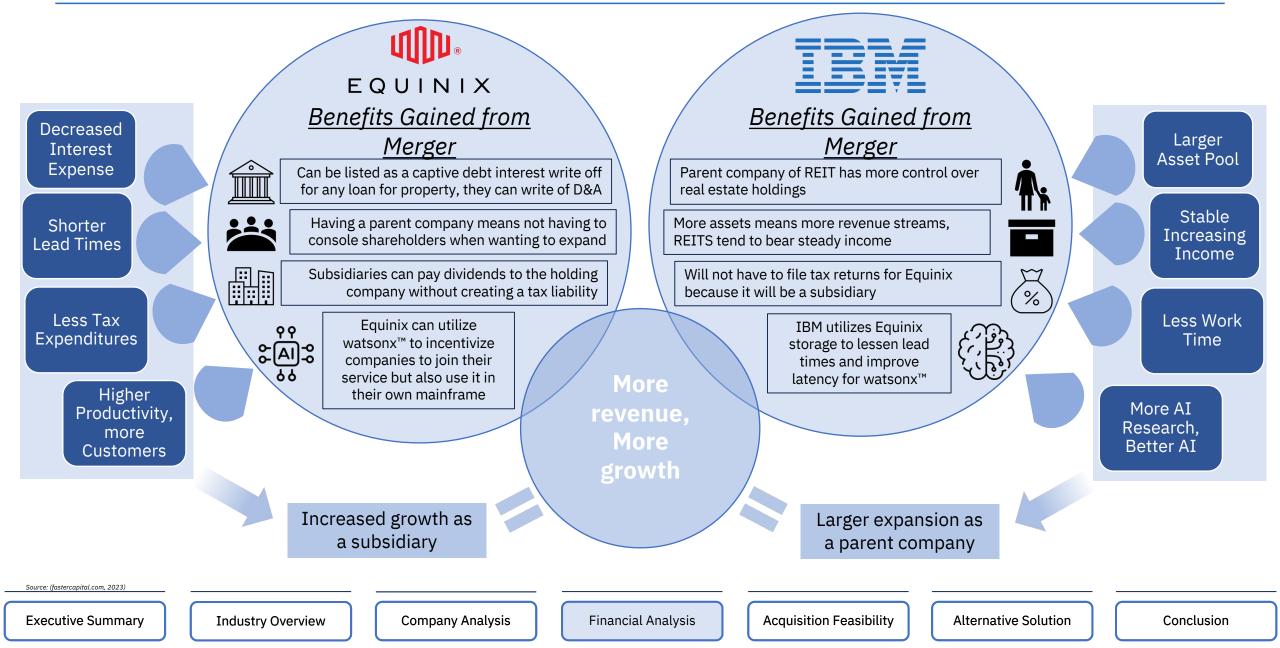




Financial Overview | Synergies

Equinix/IBM post-merger revenue synergies





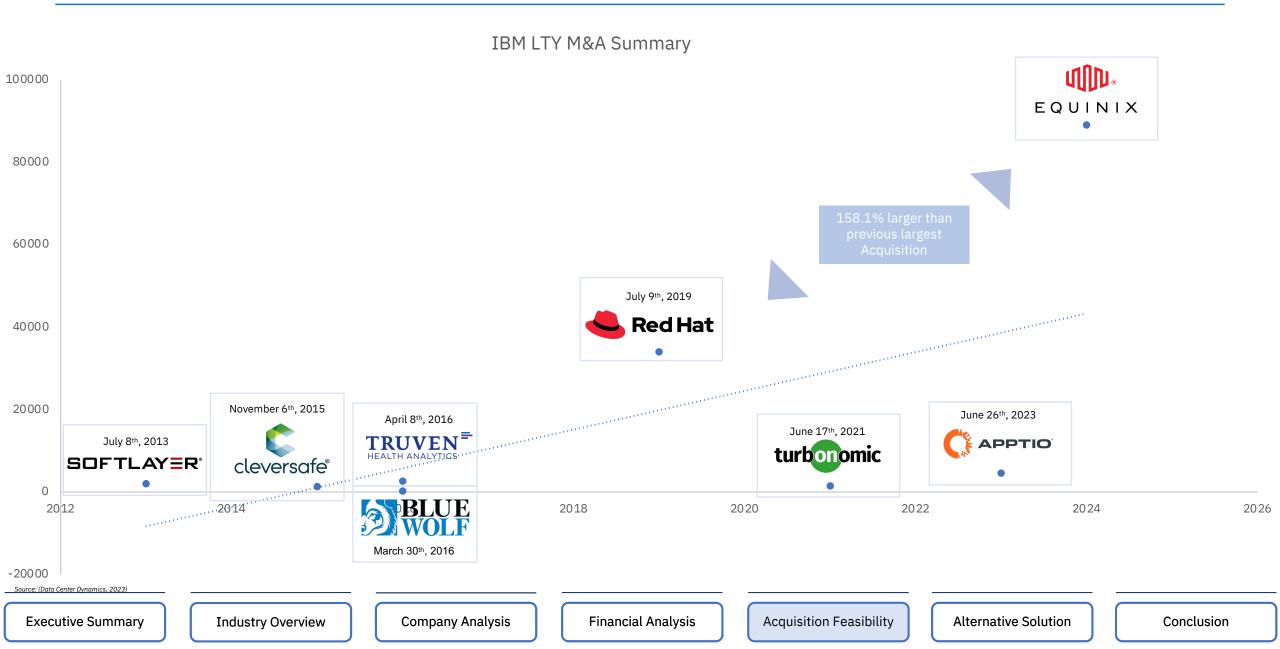
Acquisition Feasibility

-



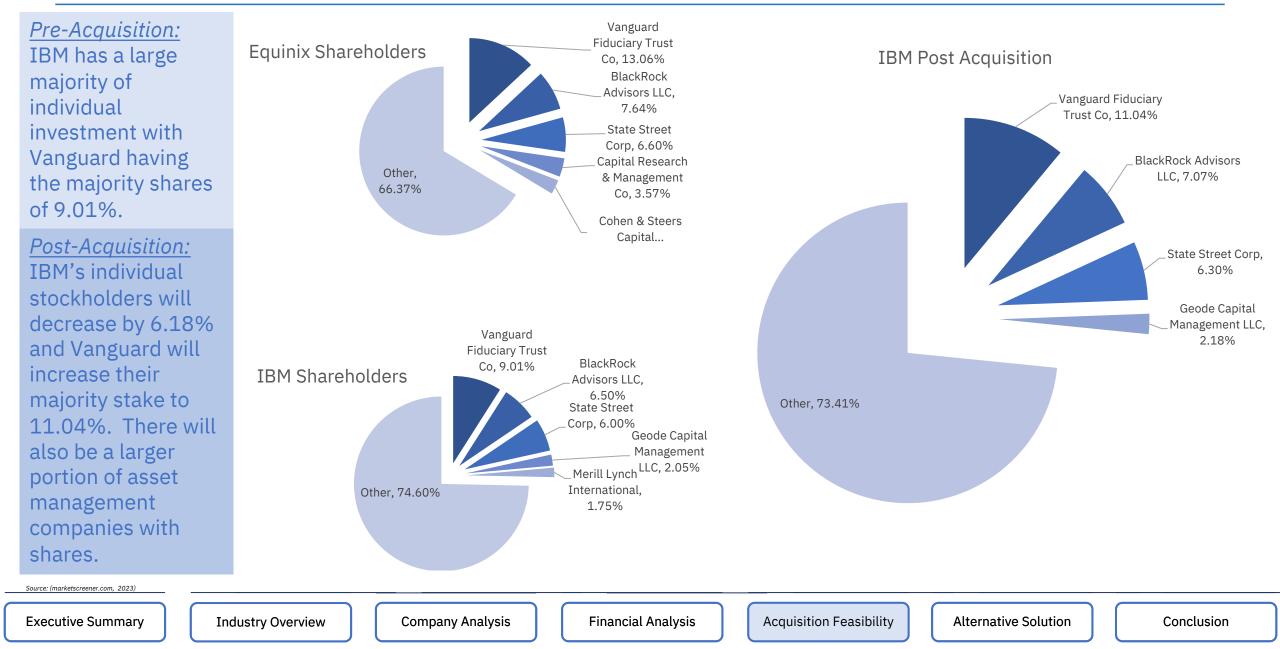
Acquisition Feasibility Analysis | IBM History

IBM past acquisitions



Acquisition Feasibility Analysis | IBM Stock Distribution

Effect of acquisition on stockholder ownership



Acquisition Feasibility Analysis | IBM and Equinix Plans



IBM and Equinix have differing goals

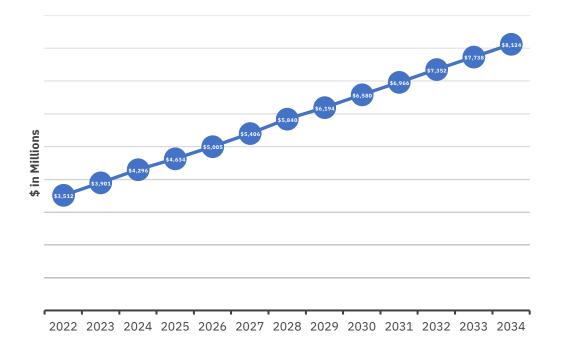
According to the Gross Margin Percentage, it would take 20 years for IBM to see revenue after acquiring Equinix, assuming their growth forecast is a steady 8% a year.

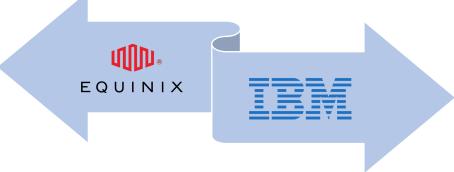
According to the DCF and the fair EV calculator it would cost: **\$118,248,556,260** to acquire Equinix thus crippling IBM financially.

Price per share is over evaluated thus inflating the prices for the existing market and increasing their overevaluation.

- Equinix is a retail DC REIT, comprised of roughly 10000 smaller customers
- IBM has a need for more DCs to support their new technology
- In the process of converting Equinix DCs to IBM tailored DCs, the eligibility of the REIT status could be jeopardized to the low NRSF and the high square footage demand for AI and Quantum Computing

Gross Profit





Separate Trajectories

In their 2023 10K report, **Equinix states they want** to grow organically moving forward. Equinix has made many acquisitions in the past decade and after casting a wide net, they want to focus on upgrading and expanding their current DCs for hyper-scaling capabilities. **IBM is looking to take a company and** ingrate them into their ecosystem, aiming to compliment their technological achievements in AI and Quantum Computing. Equinix's historical dominance in the industry coupled with their new partnership with tech titan, NVIDIA, makes it likely that Equinix will not want to sell.

Due to the large price tag and contradicting objectives of both companies, it seems beneficial for IBM to explore other options for the foreseeable future.

Source: (Equinix 10-k (Equinix, 2024)), (IBM 10-k (IBM, 2024,

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Acquisition Feasibility Analysis | Pro-Forma Breakdown

Analysis of Moody's pro-forma model

MOODY'S A1 S&P Global A+

100% Debt

| Y | 2023 |
|----------------------------------|--------|
| eported Pro Forma pre-tax income | 9,814 |
| Add back Interest expense | 1,245 |
| Add back D&A | 6,241 |
| eported Pro Forma EBITDA | 17,300 |
| Non-Recurring Adjustments | 2 |
| Non-Operating Adjustments | 622 |
| Unusual Items | -368 |
| Pension Adjustments | -1,149 |
| Adjusted Pro Forma EBITDA | 16,407 |

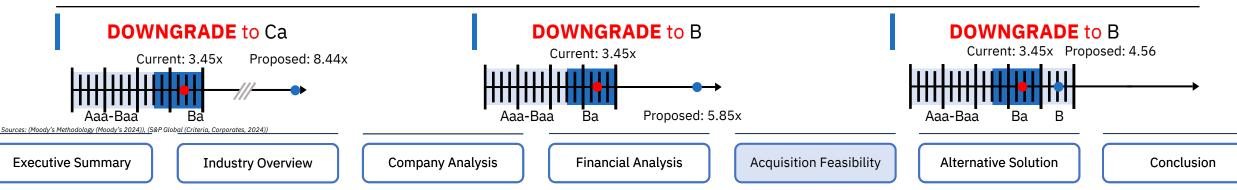
Adjusted Debt Breakdown FY Total unadjusted Debt 56,547 100% Debt financing of Equinix 85,000 Other standard adjustment -3,058 Total adjusted pro forma debt 138,489 Moody's adjusted Pro Forma debt to EBITDA 8.44x

| • | If IBM were to acquire Equinix at |
|---|--------------------------------------|
| | the below levels of debt, they would |
| | be at risk of being downgraded by |
| | Moody's and S&P Global |

50% Debt

| Pro Forma adjusted EBITDA Breakdow | /n |
|------------------------------------|--------|
| FY | 2023 |
| Reported Pro Forma pre-tax income | 1,985 |
| Add back Interest expense | 1,245 |
| Add back D&A | 6,241 |
| Reported Pro Forma EBITDA | 17,300 |
| Non-Recurring Adjustments | 2, |
| Non-Operating Adjustments | 622 |
| Unusual Items | -368 |
| Pension Adjustments | -1,149 |
| Adjusted Pro Forma EBITDA | 16,407 |

| Adjusted Debt Breakdown | |
|---|--------|
| ΞΥ | |
| Total unadjusted Debt | 56,547 |
| 50% Debt financing of Equinix | 42,500 |
| Other standard adjustment | -3,058 |
| Total adjusted pro forma debt | 95,989 |
| | |
| Moody's adjusted Pro Forma debt to EBITDA | 5.85 |



MOODY'S 3.45 S&P Global 3.85

25% Debt

| ΞΥ | 2023 |
|--|-----------------------|
| Reported Pro Forma pre-tax income | 1,98 |
| Add back Interest expense | 1,24 |
| Add back D&A | 6,24 |
| Reported Pro Forma EBITDA | 17,30 |
| Non-Recurring Adjustments | 2,14 |
| Non-Operating Adjustments | 62 |
| Unusual Items | -36 |
| Pension Adjustments | -1,14 |
| Adjusted Pro Forma EBITDA | 16,40 |
| Adjusted Debt Breakdown -γ | |
| Total unadjusted Debt 25% Debt financing of Equinix | 56,54 21,25 |
| Other standard adjustment | -3,05 |
| Total adjusted pro forma debt | 72,29 |
| | |

Acquisition Feasibility Analysis | Privacy Laws

International Privacy Law Risks

IBM

Equinix IPL Risk

In 2020, Equinix was hit by a ransomware lasting 1 month, for \$4.5 MM. This affected financial information payroll accounting audits and data center reports.

More customers...

IBM IPL Risk

According to IBM, avg time to identify a breach in 2022 was 277 days

Data Sovereignty

Data Sovereignty is the notion that any digitalized and localized data that has been put into binary form is subject to jurisdiction of the country it resides in. Bound by law, the company who oversees the caretaking of such data is subject to the penalties of the country it is localized in.

Means more liabilities ...

Data Privacy

Data Privacy entails the complete protection of an individual's personal data from third parties. It also includes the ability for said individual to determine exactly who can and cannot access their data.

Equinix Risk Management Strategy

Equinix has taken the liberty to implement their own Infosec governance risk compliance program. The GRC program entails a reduced cybersecurity risk due to the implementation of a centralized platform used to address their key business requirements as mentioned on slide #44.

Resulting in a need for heightened security...

IBM Risk Management Strategy

IBM works with their clients to reduce data security risks through developing personalized security strategies with customers, synthesizing a legitimate plan to spread awareness of data privacy risks, and consistently updating their security architecture.

Source: (Data Center Dynamics, 2021), (IBM, 2024), (Imperva, 2024), (Equinix Corporate Sustainability (Equinix, 2024)

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Acquisition Feasibility Analysis | Sustainability

Equinix's sustainability past and future

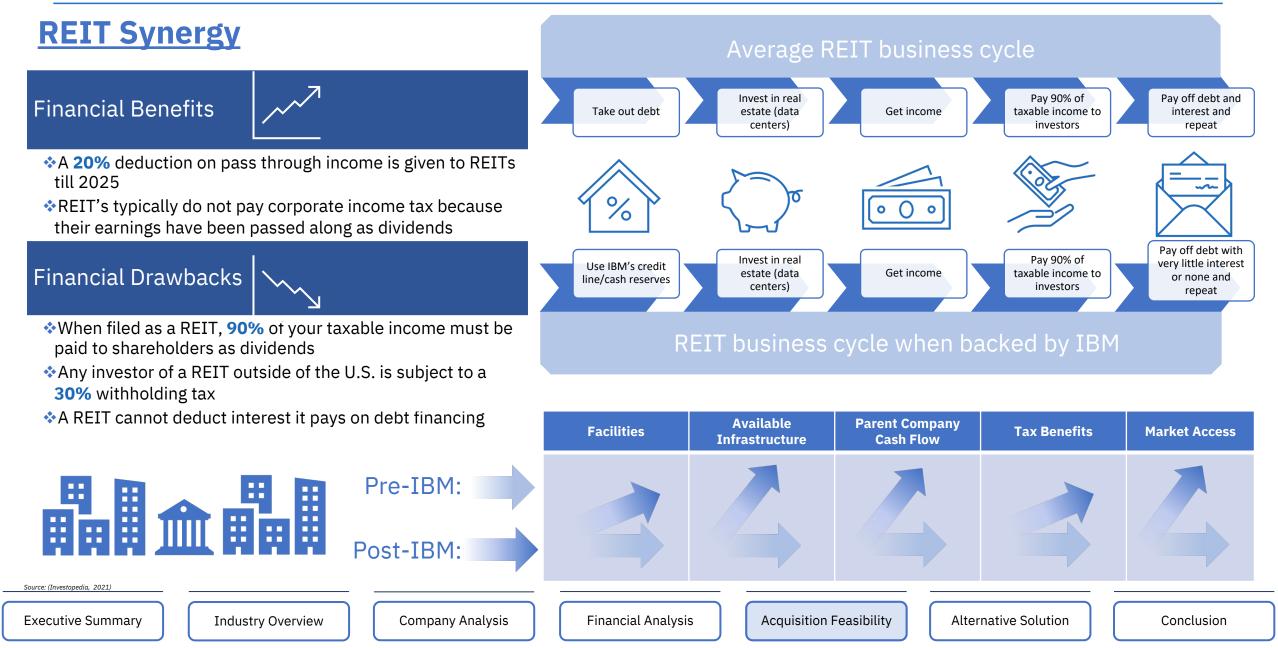


| On the Forefront of Sustainability: | Equi | nix sustainability g | goals |
|--|--|--|--|
| | Environment | Social | Governance |
| Soft IBM and Equinix seek to be net carbon neutral by 2030. AI software can create more sustainable operations and supply chains. Expects to divert 90% of nonhazardous waste from land fill to incineration Fifth year in a row with 90%+ renewable energy. \$ Fifth year in a row with 90%+ renewable energy. \$ 455 million invested in 2022 for sustainability. \$ 23% reduction in operational emissions. \$ Achieved a CDP Climate Rating of A for the first time in 2022 | Driving global operations and value chain emissions down Go from 96% to 100% usage of renewable energy Invest resource conservation data centers | Build an inclusive and diverse work environment Promote good health and emotional wellbeing towards all employees Remove barrier between communities and the | Strive to practice business ethically and be a leading example for the world Build partnerships and cultivate innovation Integrate sustainability into |
| <section-header><section-header><section-header><complex-block><image/><image/><image/><image/><image/><image/></complex-block></section-header></section-header></section-header> | | digital world | the framework of business practices |
| Executive Summary Industry Overview Company Analysis | Financial Analysis Acquis | ition Feasibility Alternative Sc | olution Conclusion |

Acquisition Feasibility Analysis | REIT Status

Importance of Equinix's REIT structure

IBM



Acquisition Feasibility Analysis | Debt to Equity

Proposed acquisition financing

Executive Summary

IBM

Conclusion

Equity/Cash Hybrid

Alternative Solution

| Debt | Financing | П |
|------|-----------|---|
| | | 1 |

Industry Overview

Financing this acquisition with 100% debt using By financing this acquisition with 100% equity, IBM Financing this \$85 billion acquisition through 45% would have to issue 432 million common shares debt and 55% equity would result in a **22%** 10-year notes (4.94%) would have massive implications that would negatively effect IBM's resulting in a 30% decrease in pro forma EPS decrease in pro forma EPS Using a combination of debt and equity allows IBM leverage ratios The cost of equity financing for IT providers is In reference to slide #51, it can be seen that an to **benefit from both instruments**. The company relatively low. The industry average cost of equity of increase in Debt-to-EBITDA of 4.99x would 8.16% compared to the total market average of 8.48% manages to retain ownership of their own company Due to the financial position of the company, investors all while keeping their cost of capital. occur as a result of this influx of debt A gain of this size in Debt-to-EBITDA would result may see financing through equity as more fit, as the This is the most favorable model for this in IBM's credit worthiness being downgrades to company's debt standing as deficient compared to acquisition. However, the **size of the deal is still** Ca their market position massively too large to reduce the structural negatives Institutions hold around 56.93% of shares. Credit Rating downgrade is certain Even with a minimal cash assumption of 1%, Substantial leverage is necessary to leaving a multitude of investors to be negotiated IBM would still be required to fork over х acquire a business with forecasts with and institutional investors feeling the \$857 million S х S vielding insufficient returns pressure of the dilutive effect IBM's on-hand cash and cash equivalents **Risk of default** grows, in turn straining The required issuance of 432 million shares for a **are not sufficient** to purchase Equinix $\overline{\mathbf{r}}$ relations with investors Even if IBM used all their available cash 100% equity financing would be equivalent to х ≈43% of pro forma shares outstanding (\$13Bn), they would still need to raise \approx \$72 Bn to purchase Equinix Dilution effect, not felt by shareholders 100% equity financing would not affect IBM's The debt incurred by 100% debt financing is \checkmark **Benefits** Tax deductibility of interest expense credit rating reduced and therefore so is the risk of default creates an advantage to corporate taxes \checkmark No individual investor holds more than 0.053% WACC is minimally affected. The considered following D&A write-ups of shares meaning dilutive effect would not be felt limits for debt and equity financing are not yet IBM has repertoire in the market which on the individual basis reached gives them negotiating power with \checkmark Financing through equity is cheaper than through debt due to the avoidance of interest expense investors Source: (Refintiv, 2024), (10-K(IBM, 2024)), (10-K(Equinix, 2024))

Company Analysis

Equity Financing

Financial Analysis

Acquisition Feasibility

Acquisition Feasibility Analysis | Merger Model

An acquisition of Equinix would dilute IBM's EPS

Transaction & Financing Assumptions

Accretion/Dilution analysis

Less: Interest expense & Financing fees

Less: Incremental Depreciation

Pro Forma Adjusted EBT

Pro Forma Net Income

Accretion/Dilution Analysis Acquierer Stand-alone Net Income

Earnings Before Taxes

Pro forma Financials Consolidated EBT

Plus: Synergies, net

% Tax Rate

Less: Taxes

IBM Financial Profile

| Fully Diluted Shares Outstanding | 911 |
|--|-----------|
| Current Share Price | \$195.95 |
| Equity Value | \$178,511 |
| Forecasted Earnings per Share (EPS) _{t+1} | \$8.75 |
| P/E Multiple | 22.4x |

| Equinix Financial Profile | |
|-------------------------------------|----------|
| Fully Diluted Shares Outstanding | 94 |
| Current Share Price | \$910.10 |
| Equity Value | \$85,549 |
| Forecasted Earnings per Share (EPS) | \$11.85 |
| Forecasted Earnings per Share (EFS) | <u> </u> |

Transaction & Financing Assumptions

| Offer Value | \$115,600 |
|------------------------|-----------|
| Premium | 36% |
| Offer Price per Share | \$1,229 |
| Transaction assumption | |
| Transaction accumption | |

| Cash Consideration (All-Debt Fun | ided) |
|----------------------------------|-----------|
| Offer Value | \$115,600 |
| <u>% Cash</u> | 45% |
| Total Debt Financing | \$40,460 |
| Financing Fee | \$2,630 |
| Financing Fee % Total debt | 6.50% |
| Borrowing Term | 10 Years |
| Financing Fee Amortization | \$263 |
| % Interest Rate | 4.94% |
| Annual Interest Expense | \$1,999 |

Source: (Refintiv, 2024), (10-K(IBM, 2024)), (10-K(Equinix, 2024))

| ancing Assumptions | |
|--------------------|-----------------------|
| 1 | Form of Consideration |
| \$1,229 | % Stock |

~ ~ ~

| % Cash | 45% |
|---------------------|----------|
| Stock Consideration | |
| Offer Value | ¢115 600 |

| Offer Value | \$115,600 |
|----------------------------------|-----------|
| % Stock | 55% |
| Stock Consideration | \$63,580 |
| Number of Acquirer Shares Issued | 324 |

| Deal Assumptions | |
|--------------------------------|---------|
| Synergies, net | \$401 |
| Transaction Fees | \$2,601 |
| Transaction Fees % Offer Value | 2.25% |

| \$8,528 | Earnings Before Tax | \$1,102 |
|---------------|-------------------------------|---------|
| <u>13.67%</u> | <u>% Tax Rate</u> | 13.67% |
| \$7,502 | Target stand alone Net Income | \$969 |
| | | |

| Pro Forma EPS | 46.074 |
|--|---------------------|
| Pro Forma Net Income | \$6 <i>,</i> 974 |
| Pre-Deal Acquirer Shares Outstanding | 911 |
| Plus: New Shares Issuance | 324 |
| | |
| Pro Forma Diluted Shares | 1,235 |
| Pro Forma Diluted Shares Pro Forma EPS | 1,235 \$5.65 |
| | |

by (35%)

| Price Purchase Accounting | |
|-------------------------------|-----------|
| Offer Value | \$115,600 |
| Less: Net Tangible Book Value | (10,784) |
| Purchase Premium | \$104,816 |
| Add: PPE Write-Down | 2,183 |
| Less: Intangibles Write-Up | (3,778) |
| Add: Deferred Tax Liabilities | 1,540 |
| Goodwill Created | \$104,761 |

| Asset Write-Ups | |
|-----------------------------|----------|
| % Allocation to PPE | 2.08% |
| Useful Life Assumption | 20 years |
| Incremental Depreciation | \$109 |
| % Allocation to Intangibles | 3.60% |
| Useful Life Assumption | 20 years |
| Incremental Amortization | \$189 |

Executive Summary

Industry Overview

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Acquisition Feasibility

\$9,629

(1, 320)

401

(632)

\$8,078

\$1,104

\$6,974

55%

Alternative Solution



Alternative Solution

IBM+[) DIGITAL REALTY

Alternative Solution | Digital Realty Overview

Digital Realty leadership, disaster recovery, and customer base



CEO Andrew **Power**

Power has been CEO since 2021. Prior to that, he held the position of CFO since 2015. Before joining **Digital Realty, Power** worked for Bank of America Merrill Lynch and Citigroup, where he has managed the execution of over \$30 Bn of public and private capital raises included the largest REIT IPO to date.

ource: (Digital Realty, 2024), (Enlyft 2024), (DCF, 2024)

Executive Summary



CFO Matt Mercier

First joining Digital Realty in 2006, Mercier became the Senior VP of Global Finance and Accounting. Prior to his current position, Mercier was employed with Equity **Office Properties** Trust in asset management and before that worked in auditing at KPMG.

Industry Overview



CIO Greg Wright

Wright currently manages Digital Realty's investments along with other capital allocation activities. Before his current position, Wright was Co-Head of the Americas Real Estate, and Managing Director of the Real Estate, Gaming & Lodging Group at Bank of America Merrill Lynch. During his 25-year career he has completed over \$200 Bn of M&A transactions.



Digital Realty Trust (DLR) is a data center and colocation REIT. It was first founded in 2004 by a group of executive in the telecommunications and real estate industries. In 2007, they released their IPO and became the first publicly traded data center REIT. Their largest acquisition to date is the purchase of DuPont Fabros Technology in 2018 which helped them expand into central and east coast regions of the U.S. The Vanguard Group, Inc. is their largest stakeholder with an 11.3% share.



Alternative Solution | Digital Realty Alignment to IBM

Digital Realty is the industry's best fit for IBM

| | Company | Product Alignment | Strategic Alignment | Acquisition Feasibility | Rational | Decision |
|-----------|---|----------------------|------------------------|----------------------------|--|------------------|
| | الالثانية. DIGITAL BRIDGE | C | | | <u>Product</u> : Investment in domestic and international private tech companies. <u>Strategy</u> : Find a growing company, buy a majority investment, and let them flourish. <u>Acquisition Feasibili</u> ty: Moderate, lots of assets, valuated fairly. Wide portfolio, does not operate the companies . | × |
| | | | | | <u>Product</u>: Paper Document Digitalization & Storage of Such. <u>Strategy</u>: Management of lifetime company documents <u>Acquisition Feasibility</u>: Good, one of the oldest data warehouses, priced fairly, does not have a large enough stance in the colocation industry. | × |
| | | | | | Product: Australian data center and colocation services <u>Strategy</u> : Intra-Austalia Data centers <u>Acquisition Feasibility</u> : moderate, low cost for acquisition, mediocre revenue, exclusive to Australia. | × |
| | | 0 | 0 | 0 | Product: Wholes Data center REIT and colocation services. Strategy: Wholesale leasing of data centers along with usage of colocation service in tandem Acquisition Feasibility: Very good, higher cost, good return on assets (relative to industry), large amount of data centers, their aim aligns with IBM. Best Fit | |
| Source: (| Source: (Digital Realty, 2024), (Enlyft 2024), (DCF, 2024) Version Source: (Digital Realty, 2024), (Enlyft 2024), (DCF, 2024) | | | | | |
| Exe | ecutive Summary | ustry Overview C | ompany Analysis | inancial Analysis | cquisition Feasibility Alternative Solu | ution Conclusion |

Alternative Solution | Digital Realty Outlook

Digital Realty's plans and goals

IBM

Conclusion

What is Digital Realty's future vision?

- DLR continues expansion into new markets to satisfy increased demand for hyper scaling and AI customers
- DLR plans on expanding the use of Apollo AI to optimize productivity and ESG

How will this be achieved?

- DLR's 2023 joint ventures allowed the conversion of leverage to cash, giving DLR liquidity for future ventures in high demand regions
- DLR expects 900 MW of new capacity by 2026 to be allocated to its customers

How Can DLR satisfy IBM's cloud infrastructure and AI needs?

- If IBM were to merge with DLR, then IBM can leverage DLR's DC & colocation service infrastructure, Platform DIGITAL, and integrate its system satisfying the privacy/latency needs of customers
- DLR's experience with AI service providers coupled with high-density colocation offering makes DLR fit for IBM's future vision

Source: (The Motley Fool, Q4 Earnings Call, 2024) Source: (Digital Realty, 2024), (Enlyft 2024), (DCF, 2024)

| Executive S | ummary |
|-------------|--------|
|-------------|--------|

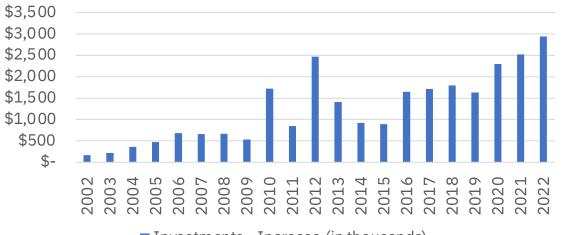
Industry Overview Company Analysis

Financial Analysis

DLR Expansion

- DLR is focusing on meeting heightened demands from AI and hyperscale this allows for higher prices
- DLR is shooting for 900 MW of new capacity by 2026
- AI service providers already use platform digital's highdensity colocation offering to expand AI as a service, proving that IBM's expansion of watsonx[™] in DLR DCs is feasible

DLR Annual Increase in Investments



Investments - Increase (in thousands)

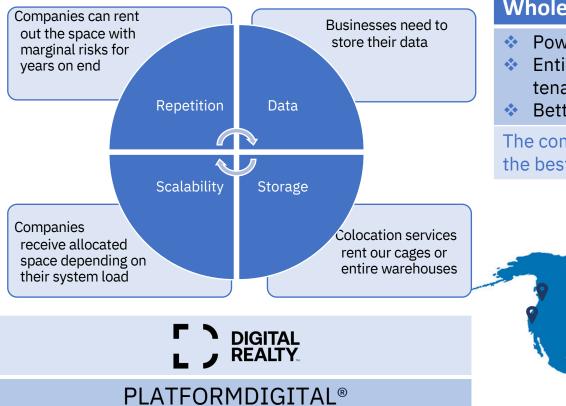
Alternative Solution

Acquisition Feasibility

Alternative Solution | Digital Realty Synergies

Digital Realty REIT status and HW feasibility





PlatformDigital is Digital Realty's premier data center platform which serves as a hub of data collaboration and provides comprehensive business solutions. Some of DLR's DCs already contain IBM Cloud Infrastructure.

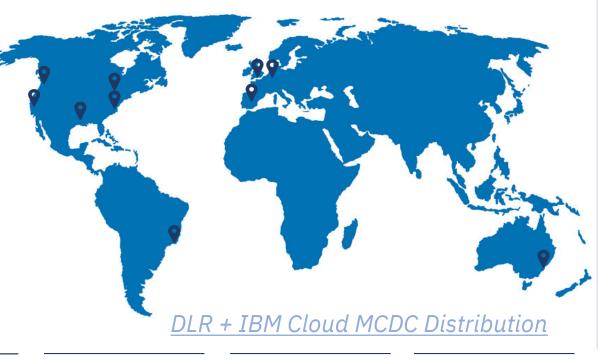
Wholesale Data Center REIT

- Power cost are pushed onto the tenant
- Entire data center is rented out to 1 tenant
- Better for large companies

Retail Data Center REIT

- Power costs are included in pricing
- 1 data center is rented out too many tenants
- Better for smaller companies

The combination of DLR's high intensity colocation offering and the Nvidia DGH X100, the best AI processing server, making DLR a great fit for IBM's vision for watsonx.



In addition to the synergies with clouds and AI, the vast amount of DCs can be utilized for quantum computing data storage in the future for IBM. DLR already specializes in wholesale data storage, Quantum computing requires copious amounts of storage, more data means it can advance further.

Source: (Nvidia, 2018), (Digital Realty, 2024)

Executive Summary

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Acquisition Feasibility

Alternative Solution

Alternative Solution | Digital Realty vs. Equinix

IBM

Table comparing important aspects of DLR and EQIX

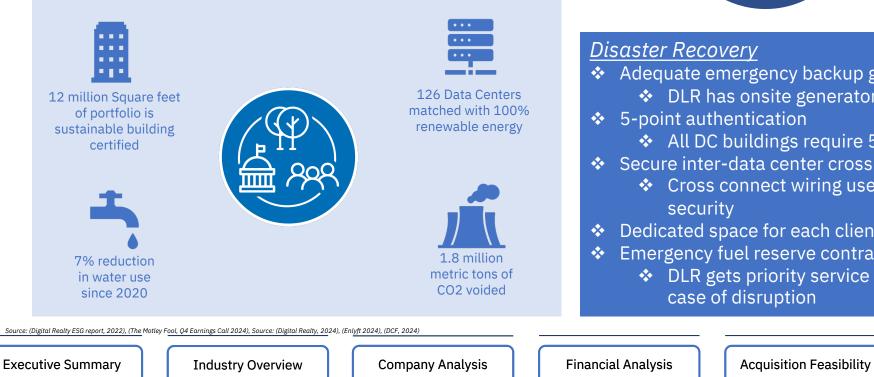
| DIGITAL REALTY | | | EQUINIX |
|---|--------------------------|-----------------------|---|
| 300+ (52.3M NRSF) | # of Data | a Centers | 260 (29.8M NRSF) |
| \$892.54/Sf | Price/ | NRSF | \$2889.60/Sf |
| \$1,634.78 MM | Operating cash flow 2023 | | \$3,216.6 MM |
| 1.56% | ROIC 2023 | | 4.66% |
| 17.62% | NTM ROIC | | 1.21% |
| 2.53 | Asset | /Debt | 2.04 |
| 23.9 | EV/EE | BITDA | 26.91 |
| 2.22% | ROA | | 3.08% |
| igital Realty, 2024)), (10-K (Equinix Inc. 2024)), (Refinitiv, 2024), Source: (Digital Realty, 2024), (Enlyft 2024), (DCF, 2024) ive Summary Industry Overview Compan | y Analysis Financia | l Analysis Acquisitio | n Feasibility Alternative Solution Conclu |

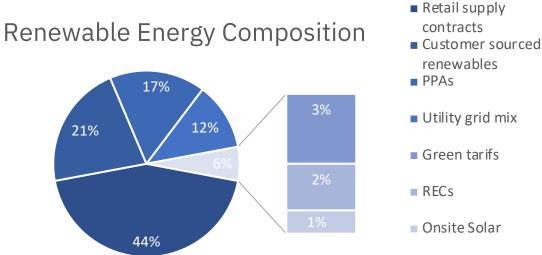
Alternative Solution | Digital Realty Sustainability

Digital Realty's sustainability efforts and disaster recovery

DLR's Environmental Reputation

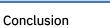
- DLR is an industry leader in ESG ranked 8th on the US EPA's Green Power partnership National Top 100 for renewable energy usage
- Placed as 2nd on Sustainability Magazine's List of top 10 sustainable data center providers
- DLR continues to push for better sustainability to improve their carbon footprint and optimize operations with the usage of their AI Apollo





- Adequate emergency backup generators
 - DLR has onsite generators in the event of power disruptions
- 5-point authentication
 - All DC buildings require 5-point authentication for entry
- Secure inter-data center cross connects
 - Cross connect wiring uses industry standard SONET rings for
- Dedicated space for each client
- Emergency fuel reserve contracts
 - DLR gets priority service from fuel providers to power generators in case of disruption

Alternative Solution





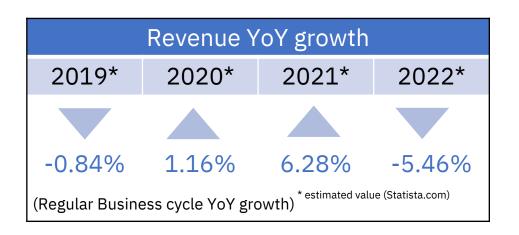
Alternative Solution | Digital Realty Revenue

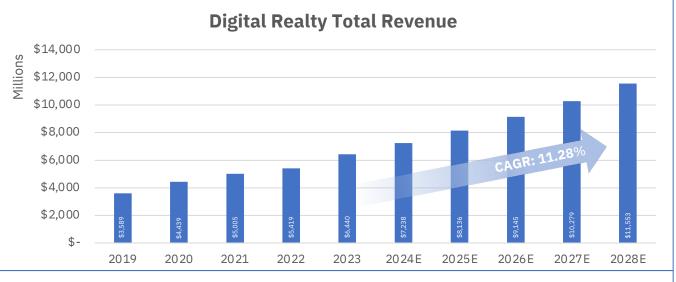
Digital Realty's stability and growth

IBM

DLR Revenue Analysis

Most of the Digital Realty's revenue comes from its operations. Operations include **colocation services**, **digital infrastructure**, and **wholesale DC leasing**. With the REIT requirements including 75% of income coming from recurring revenue causing **revenue streams from operations to remain stable**. The wholesale aspect of DLRs business model could lead to the instability of revenue in the future due to the weight of each individual customer. However, the diversity of DLR's customer base and the focus on long term clients, it should not be a concern for investors.





Digital Realty Revenue Breakdown



Source: (Digital Realty, 2024), (Enlyft 2024), (DCF, 2024)

Executive Summary

nary Industry Overview

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Acquisition Feasibility

Alternative Solution

Alternative Solution | Digital Realty DCF

Valuation of Digital Realty

| | 2022 | 2022 | 2024 | 2025 | 202(| 2027 | 2020 |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Fiscal Year | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
| Fiscal Year end date | 12/30/22 | 12/30/23 | 12/30/24 | 12/30/25 | 12/30/26 | 12/30/27 | 12/30/28 |
| Revenue | 4,692 | 5,477 | 1 6,095 | 6,783 | 7,548 | 8,400 | 9,347 |
| % growth | | | 11.28% | 11.29% | 11.28% | 11.29% | 11.27% |
| Gross Profit | 2,465 | 2,780 | 2,942 | 3,273 | 3,643 | 4,054 | 4,511 |
| % margin | | | 48.27% | 48.25% | 48.26% | 48.26% | 48.26% |
| Operating Income | 662 | 704 | 2 983 | 1,094 | 1,217 | 1,355 | 1,507 |
| % margin | | | 16.13% | 16.13% | 16.12% | 16.13% | 16.12% |
| Corporate Tax | | | 159 | 176 | 196 | 219 | 243 |
| After-Tax EBIT | 630 | 629 | 3 824 | 917 | 1,021 | 1,136 | 1,264 |
| Deprectiation & Amortization | | | 2,327 | 2,589 | 2,904 | 3,263 | 3,047 |
| Maintenance CapEX | | | 2,663 | 2,663 | 2,663 | 2,663 | 2,663 |
| Unlevered FCF | | | 489 | 843 | 1,262 | 1,737 | 1,648 |
| % growth | | | | 72.39% | 49.70% | 37.64% | -5.12% |
| Discount Factor | | | 92.60% | 85.75% | 79.40% | 73.52% | 68.08% |
| Present Value of Unlevered FCF | | | 453 | 723 | 1,002 | 1,277 | 1,122 |

- \bigcirc \diamond 5-year projection based off historical averages from the past 5 years
 - Assumed CAGR: 11.28%
 - Higher CAGR than comparable companies is as result of expansion focused operations
- 2 * 5- year projection based off historical averages from the past 5 years
 - Assumed % margin: 16.13%

Industry Overview

Source: (10-K(Digital Realty, 2024)



Company Analysis

Financial Analysis

years

Assumed Tax Rate: 7.37%

Acquisition Feasibility

5-year projection based off historical averages from the past 5

Alternative Solution



Alternative Solution | Digital Realty DCF

5.2900%

E

Digital Realty sensitivity analysis

| | 1 |
|--|---------------|
| | |
| | |
| | |
| | V Participant |
| | |

Cost of Capital Assumptions Pre-tax Cost of Debt

| Tax Rate | 7.37% |
|---------------------|--------|
| Risk Free Rate | 4.27% |
| Beta (5Y monthly) | 0.56 |
| Market Risk Premium | 11.68% |

| Tax Rate After-tax Cost of Debt | <u>7.37%</u> 4.90% |
|---------------------------------|------------------------------|
| Pre-Tax Cost of Debt | 5.2900% |
| Cost of Debt | |

| Cost of Equity | |
|---------------------|--------|
| Risk Free Rate | 4.27% |
| Beta | 0.56 |
| Market Risk Premium | 11.68% |
| Cost of Equity | 10.81% |

| Cost of Capital (WACC) | | |
|------------------------|------------------|------------|
| Capital Weights | | |
| | Amount | % of Total |
| Market Value of Equity | \$ 19,117,534.00 | 52.31% |
| Market Value of Debt | \$ 17,425,907.00 | 47.69% |
| Cost of Capital (WACC) | | 7.99% |

| xit Multiple and Gordon Growth Sensitivity Analysis | | | | | | |
|---|------|--------|--------|--------|--------|--------|
| Equity Value per Share | | | | | | |
| Exit Multiple Approach | | | | | | |
| | | 17.91x | 19.91x | 21.91x | 23.91x | 25.91x |
| | 6.99 | 226.20 | 255.42 | 284.65 | 313.88 | 343.11 |
| U | 7.49 | 225.96 | 255.18 | 284.41 | 313.64 | 342.87 |
| WACC | 7.99 | 225.72 | 254.95 | 284.18 | 313.41 | 342.63 |
| \$ | 8.49 | 225.49 | 254.72 | 283.95 | 313.18 | 342.40 |
| | 8.99 | 225.27 | 254.50 | 283.72 | 312.95 | 342.18 |

Gordon Growth Approach 2.1% 2.6% 3.6% 4.1% 3.1% 7.59 152.69 172.60 196.94 227.38 266.54 7.79 144.29 162.62 184.86 212.40 247.41 WACC 7.99 136.47 153.40 173.78 198.81 230.27 129.18 163.59 186.42 214.83 8.19 144.85 8.39 122.36 136.90 154.18 175.07 200.84

- Weighted Average Cost of Capital represents the average amount of each dollar of funding that must be returned to shareholders and lenders (\$0.07992)
- Digital Realty's WACC OF 7.99% also represents the discount rate in the company's DCF analysis

Source: (10-K(Digital Realty, 2024)

Executive Summary

Industry Overview

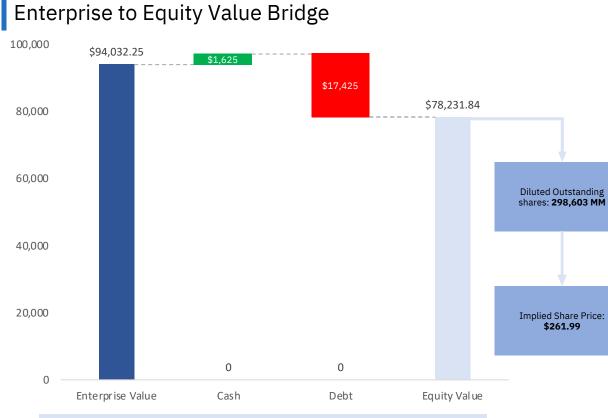
Company Analysis

Financial Analysis

Alternative Solution | Digital Realty DCF

Digital Realty value bridge and football field





Current Enterprise Value: \$94.032 Bn

- + Cash and Cash Equivalents: **\$1.625 Bn**
- Total Debt: **\$17.425 Bn**

Equity Value: \$78.232 Bn

Source: (Refintiv, 2024), (10-K(IBM, 2024)), (10-K(Equinix, 2024))

Executive Summary

Industry Overview

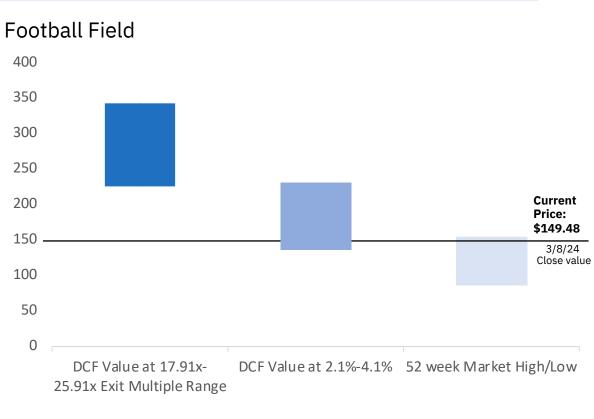
Company Analysis

Financial Analysis

Acquisition Feasibility

Alternative Solution

Conclusion



Current Enterprise Value via Gordon Growth Approach: 72.416 Bn

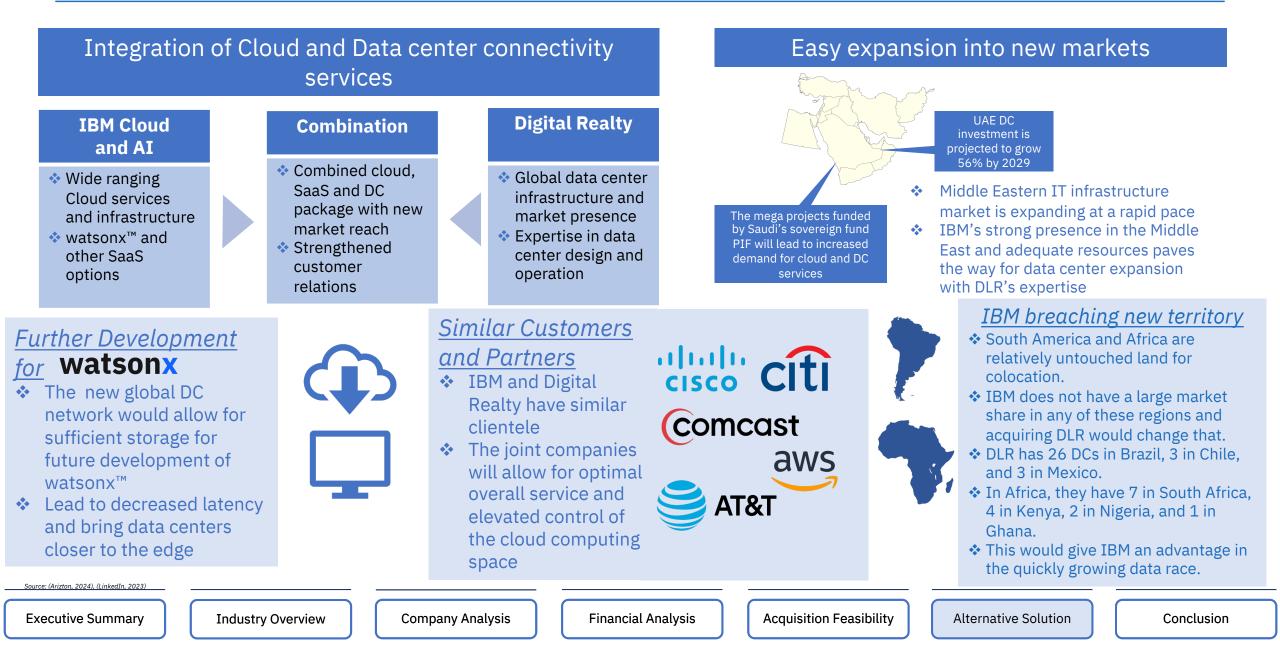
Current Enterprise Value via Exit Multiple Approach: 106.816 Bn

DLR's **DCF analysis** concludes that the firm is **overvalued** in relation to its current market valuation

Alternative Solution | Digital Realty Post Acquisition

Integration of IBM infrastructure into Digital Realty





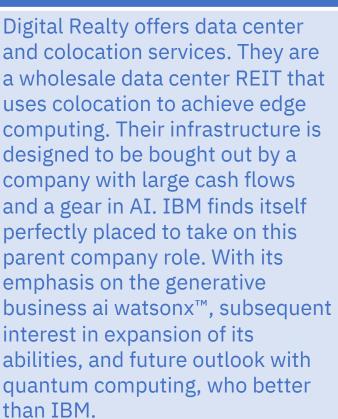
Conclusion

20

Conclusion | IBM and Digital Realty

Upsides of acquiring Digital Realty

Digital Realty Product Integration



Financial synergies **IBM & DLR**



Digital Realty has 1.4 billion in net cash flow and is valued at a purchase price 78.232 Bn and they have immense resources for IBM to take advantage of such as Wholesale Data centers. With IBM financial backing, expansion of watsonx is endless

Upside of picking DLR over EQIX



Digital Realty has an Enterprise value of \$94,032,248,310, 20Bn less than Equinix, yet they have half the market cap. Indicating a large value within the data center REIT market.

Quantum Computing **& AI**



Digital Realty furthers the potential of quantum computing and AI

Upside of the opportunities that arise



With expansion of watsonx[™], and feasibility of digital realty data centers of expansion with IBM's quantum compiuting scheme will open the door for large profit in the future. IBM can further their digital infrastructure with the new data

Conclusion



To achieve an expanded digital infrastructure, IBM must take a dilutive hit to their shares, this hit would be greatly reduced by choosing DLR.

ource: (Digital Realty, 2024), (Enlyft 2024), (DCF, 2024)

Financial Analysis

Acquisition Feasibility

Alternative Solution

Appendix



Appendix | IBM and Digital Realty Merger Model

An acquisition of DLR would be significantly less dilutive to IBM's EPS than an acquisition of Equinix



Transaction & Financing Assumptions

IBM Financial Profile

| Fully Diluted Shares Outstanding | 922 |
|--|-----------|
| Current Share Price | \$195.95 |
| Equity Value | \$178,511 |
| Forecasted Earnings per Share (EPS) _{t+1} | \$8.75 |
| P/E Multiple | 22.4x |

| Digital Realty Financial Profile | |
|-------------------------------------|----------|
| Fully Diluted Shares Outstanding | 199 |
| Current Share Price | \$149.48 |
| Equity Value | \$29,747 |
| Forecasted Earnings per Share (EPS) | \$6.5 |
| P/E Multiple | 23.0x |

Transaction & Financing Assumptions

| Offer Value | \$61,100 |
|------------------------|----------|
| Premium | 30% |
| Offer Price per Share | \$650.00 |
| Transaction assumption | |
| | |

| Cash Consideration (All-Debt Fu | nded) |
|---------------------------------|----------|
| Offer Value | \$61,100 |
| <u>% Cash</u> | 55% |
| Total Debt Financing | \$33,605 |
| Financing Fee | \$2,184 |
| Financing Fee % Total debt | 6.50% |
| Borrowing Term | 10 Years |
| Financing Fee Amortization | \$218 |
| % Interest Rate | 4.94% |
| Annual Interest Expense | \$1,660 |

Industry Overview

Source: (Refintiv, 2024), (10-K(IBM, 2024)), (10-K(Digital Realty, 2024))

Executive Summary

Accretion/Dilution analysis

| Accretion/Dilution Analysis | | |
|---|---------|--------------|
| Acquierer Stand-alone Net Income | \$7,502 | Target |
| <u>% Tax Rate</u> | 13.67% | <u>% Tax</u> |
| Earnings Before Taxes | \$8,528 | Earnin |
| Pro forma Financials | | |
| Consolidated EBT | \$9,60 | 7 |
| Less: Interest expense & Financing fees | (985) | |
| Plus: Synergies, net | 69 | 5 |
| Less: Incremental Depreciation | (716 | 5) |
| Pro Forma Adjusted EBT | \$8,60 | 2 |
| Less: Taxes | \$1,17 | 6 |
| Pro Forma Net Income | \$7,42 | <u>:6</u> |
| | | |

| Form of Consideration | |
|-----------------------|-----|
| % Stock | 45% |
| % Cash | 55% |

| Stock Consideration | |
|----------------------------------|----------|
| Offer Value | \$61,100 |
| % Stock | 45% |
| Stock Consideration | \$27,495 |
| Number of Acquirer Shares Issued | 140 |

| Deal Assumptions | |
|--------------------------------|---------|
| Synergies, net | \$695 |
| Transaction Fees | \$1,375 |
| Transaction Fees % Offer Value | 2.25% |

| ,528 | Earnings Before Tax | \$1,080 |
|------------|-------------------------------|---------|
| <u>67%</u> | <u>% Tax Rate</u> | 13.67% |
| ,502 | Target stand alone Net Income | \$950 |
| | | |

| Pro Forma EPS | |
|--------------------------------------|---------------|
| Pro Forma Net Income | \$7,425.56 |
| Pre-Deal Acquirer Shares Outstanding | 911 |
| Plus: New Shares Issuance | 140 |
| Pro Forma Diluted Shares | 1,051 |
| | \$7.07 |
| Pro Forma EPS | 5711/1 |
| | |
| & Accretion/Dilution | (<u>19%)</u> |

by (19%)

| Price Purchase Accounting | |
|-------------------------------|----------|
| Offer Value | \$61,100 |
| Less: Net Tangible Book Value | (16,614) |
| Purchase Premium | \$44,486 |
| Add: PPE Write-Down | 2,491 |
| Add: Intangibles Write-Down | 534 |
| Add: Deferred Tax Liabilities | 2,297 |
| Goodwill Created | \$49,808 |

| Asset Write-Ups | |
|-----------------------------|----------|
| % Allocation to PPE | 5.6% |
| Useful Life Assumption | 20 years |
| Incremental Depreciation | \$125 |
| % Allocation to Intangibles | 1.2% |
| Useful Life Assumption | 20 years |
| Incremental Amortization | \$28 |

Acquisition Feasibility

Alternative Solution

Conclusion

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