

APPLIED DIGITAL

Investor Update

June 2024



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This presentation contains forward-looking statements that reflect the Company’s current expectations and projections with respect to, among other things, its financial condition, results of operations, plans, objectives, future performance and business. When used in this presentation, the words “could,” “believe,” “anticipate,” “intend,” “estimate,” “expect,” “project” and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain such identifying words.

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Forward-looking statements may include statements about the Company’s future financial performance, including the Company’s expectations regarding net revenue, operating expenses, and its ability to achieve and maintain future profitability; the Company’s business plan and ability to effectively manage growth; anticipated trends, growth rates, and challenges in the Company’s business, particularly in the fields of High-Performance Computing (HPC) and Artificial Intelligence (AI); further development and market acceptance of technologies related to HPC and AI; further development of the Company’s facilities and customer base for related services; beliefs and objectives for future operations; trends in revenue, cost of revenue, and gross margin; trends in operating expenses, including technology and development expenses, sales and marketing expenses, and general and administrative expenses, and expectations regarding these expenses as a percentage of revenue; increased expenses associated with being a public company; and other statements regarding the Company’s future operations, financial condition, and prospects and business strategies.

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WHO WE ARE

Applied Digital (APLD: NASDAQ) is a U.S. based provider of next-generation digital infrastructure, redefining how digital leaders scale high-performance compute (HPC). With dedicated and experienced leadership in the fields of artificial intelligence/machine learning, power procurement, engineering, real estate & construction, and data center operations, we believe that Applied Digital is positioned to provide purpose-built, cutting-edge infrastructure for HPC + AI based applications.

STRATEGIC PARTNER



SOFTWARE PARTNERS



BUSINESS OVERVIEW

Experienced Leadership



Wes Cummins

CHAIRMAN & CEO

- Holds a BSBA from Washington University in St. Louis, majoring in Finance and Accounting
- Founder and CEO, 272 Capital L.P. (2020 – Present)
- Research Analyst, Nokomis Capital (2012 – 2020)
- President, B. Riley & Co (2002 – 2011)
- Current Board Member at Sequans Communications (NYSE: SQNS)
- Former Board Member at Telenav (NASDAQ: TNAV)



David Rench

CFO

- Holds a BBA from the Neeley School of Business at Texas Christian University and an MBA from the Cox School of Business at Southern Methodist University
- CFO, Hirzel Capital (2017 – 2020)
- Co-founder, VP of Finance and Operations, Ihiji (acquired by Control4 – NASDAQ: CTRL) (2010 – 2017)



Kate Reed

CGO

- Director of Sales, Red Hat at IBM Corporation (2021-2023)
- Strategic Partnership Executive, with Watson at IBM (2019 – 2021)
- Business Unit Executive, IBM Security Trusteer (2017 – 2019)
- Strategy Leader – Enterprise Content Management, IBM Cloud (2014 – 2017)
- Leads teams in designing and integrating technology strategies that align with organizational goals



Jason Zhang

Co-Founder

- Holds a bachelor's degree in Economics from Harvard College
- Angel Investor, Startup Advisor, Serial Entrepreneur
- Sequoia Capital, 2017-2019, Investment Analyst
- MSD Capital (Michael Dell's Family Office), 2015– 2017, Investment Analyst



Mike Maniscalco

CTO

- Holds a degree in Computer Science from the Georgia Institute of Technology
- Serial entrepreneur with multiple startups and exits
- Extensive experience in web3, IoT, financial, telecommunications, and healthcare industries
- Former positions at StanleyX and various Fortune 1000 companies



Todd Gale

CDO

- Over 45 years of experience in data center design, engineering, construction, and mission-critical infrastructure
- Vice President of Engineering, Flexential: Led new data center designs and capacity upgrades
- Senior Vice President, Terremark Worldwide: Oversaw the rapid construction of the NAP of Americas, a major data center project
- Pioneer in high-efficiency cooling systems and direct-to-chip liquid cooling for GPU customers



Erin Kraxberger

CMO

- Holds a B.B.A. in Finance from Texas A&M University
- Nearly two decades of experience in marketing and business development
- Former positions include Chief Operating Officer of 272 Capital LP, Head of Marketing & Investor Relations at SCW Capital Management and Senior Relationship Manager at Carlson Capital, LP



Offering Industry Leading Infrastructure Solutions and Compute Intensive Applications

What We Offer

Who Are Our Customers

Key Segment Stats

HPC DATA CENTERS



Provide hosting infrastructure through purpose build HPC data centers

Large companies looking for data centers that can handle the power requirements of the new AI / GPU demand

100MW data center under construction with over 1GW of total accessible power + more in the pipeline

APPLIED DIGITAL CLOUD SERVICES



Rent AI/ML companies access to cloud servers to train and run applications

Initial customers are startup AI companies with significant funding
We are now seeing demand from mid to large size businesses

Clusters of 1024 GPUs are being installed in our location and third-party data centers

BLOCKCHAIN DATA CENTERS



Provide hosting infrastructure (power and maintenance) to blockchain infrastructure companies

Bitcoin miners – largest customer Marathon Digital
Stock Symbol: \$MARA

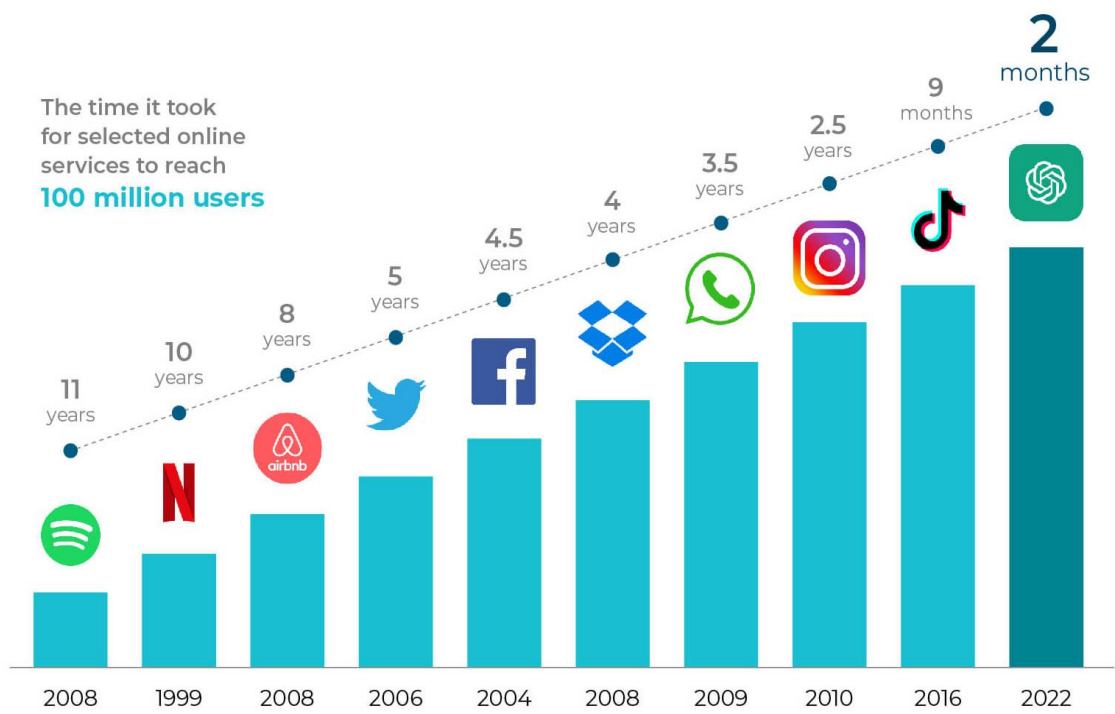
~280MW



THE AI BOOM

The Rise of AI Adoption

Chat-GPT sprints to 100 million users



Source: World of Statistics

ChatGPT Monthly Visits

Month	Number of Visits	Change Over Previous Month (%)
November 2022	152.7 million	-
December 2022	266 million	↑ 74.2%
January 2023	616 million	↑ 131.58%
February 2023	1 billion	↑ 62.34%
March 2023	1.6 billion	↑ 60%
April 2023	1.8 billion	↑ 12.5%
May 2023	1.8 billion	-
June 2023	1.6 billion	↓ 12.5%
July 2023	1.5 billion	↓ 6.25%
August 2023	1.4 billion	↓ 6.67%
September 2023	1.5 billion	↑ 7.14%
October 2023	1.7 billion	↑ 13.33%
November 2023	1.7 billion	-
December 2023	1.6 billion	↓ 5.88%
January 2024	1.6 billion	-
February 2024	1.6 billion	-
March 2024	1.8 billion	↑ 12.5%
April 2024	1.8 billion	-
May 2024	637 million	↓ 64.6 %

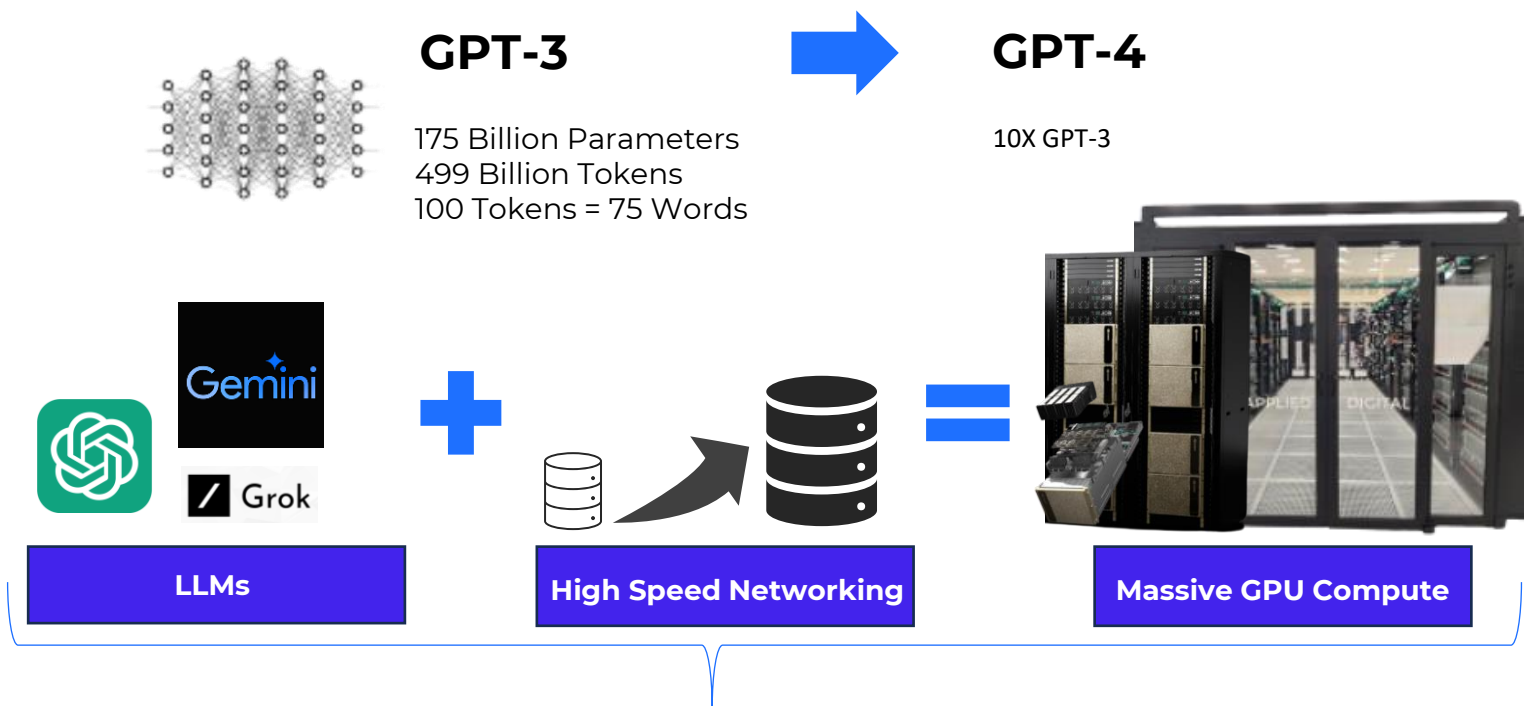
Source: 365DataScience



THE AI BOOM

AI's Demand for Power

As AI models evolve, their complexity and power requirements are rapidly increasing. Each upgrade brings a significant rise in the number of parameters, leading to higher energy consumption.



Model Name	Release Date	Parameters
GPT-1	2018	117 million
GPT-2	2019	1.5 billion
GPT-3	2020	175 billion
InstructGPT	2022	1.3 billion
GPT-3.5	2022	200 billion
ChatGPT	2022	200 billion
GPT-4	2023	8x 220 billion
Code Interpreter	2023	-
GPT-4o	2024	-

Source: 365DataScience



THE AI BOOM

AI's Demand for Power

To keep up with the rapid adoption and evolving requirements of AI, a significant increase in power consumption is necessary.

Data centers' electricity consumption is projected to grow 125% by 2030, using 9% of all electricity in the U.S.

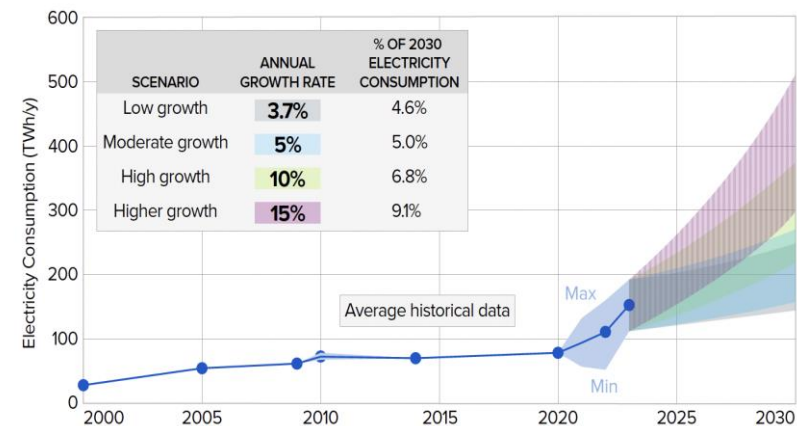


Figure ES-1. Projections of potential electricity consumption by U.S. data centers: 2023–2030. % of 2030 electricity consumption projections assume that all other (non-data center) load increases at 1% annually.

Source: 2024 Electric Power Research Institute

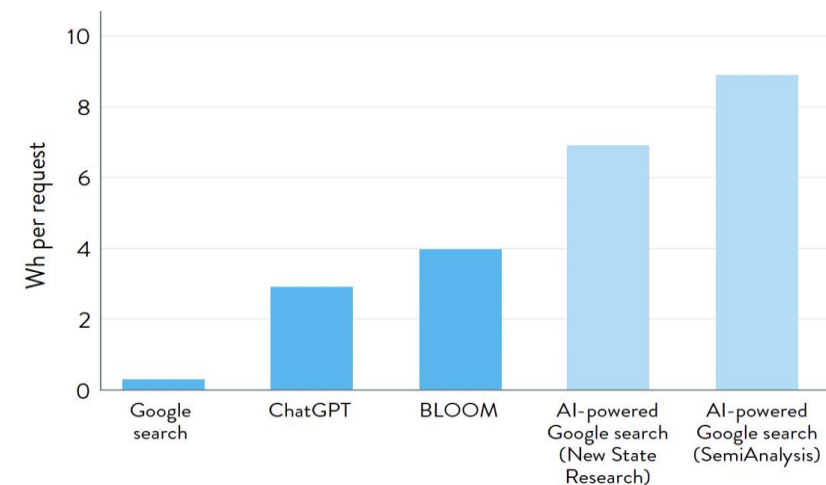
Comparative Power Consumption: AI vs. Traditional Computing

AI hardware demands significantly more power than traditional computing devices:

- Typical CPU in a data center uses approximately 300 watts per hour.
- Nvidia H100 GPU can use 700 watts per hour (comparable to an average American household).

AI queries require 10x the electricity of traditional Google queries:

- *Google request*: 0.3 watt-hours
- *ChatGPT request*: 2.9 watt-hours



Source: 2024 Electric Power Research Institute



EVOLUTION OF DATA CENTERS

Understanding AI Data Centers

TRADITIONAL DATA CENTERS

- Low IT MW Load
- Low-Power Density Design (12-15kW)
- Located Near Major Cities
- Optimized for High-Speed, Ultra Low Latency



NOT efficient to convert legacy to AI data centers due to design layout and power demands

NEXT-GEN AI DATA CENTERS

- Requires Purpose Built Infrastructure Designed to Support Significant Energy Consumption
- High Density Support (Up to 120kW)
- Better Suited for More Remote Geographies
- Training is Latency Insensitive



Traditional Data Center Purpose Built for These Markets

Next-Gen AI Data Centers

Web 1.0

- Internet backbone
- Individual Servers
- Buffering and Waiting

Web 2.0

- Internet backbone
- Centralized Data
- Streaming Apps-Instantaneous

High Performance Compute

- Artificial Intelligence
- Machine Learning
- Language Processing
- Drug Discovery
- Graphics Rendering



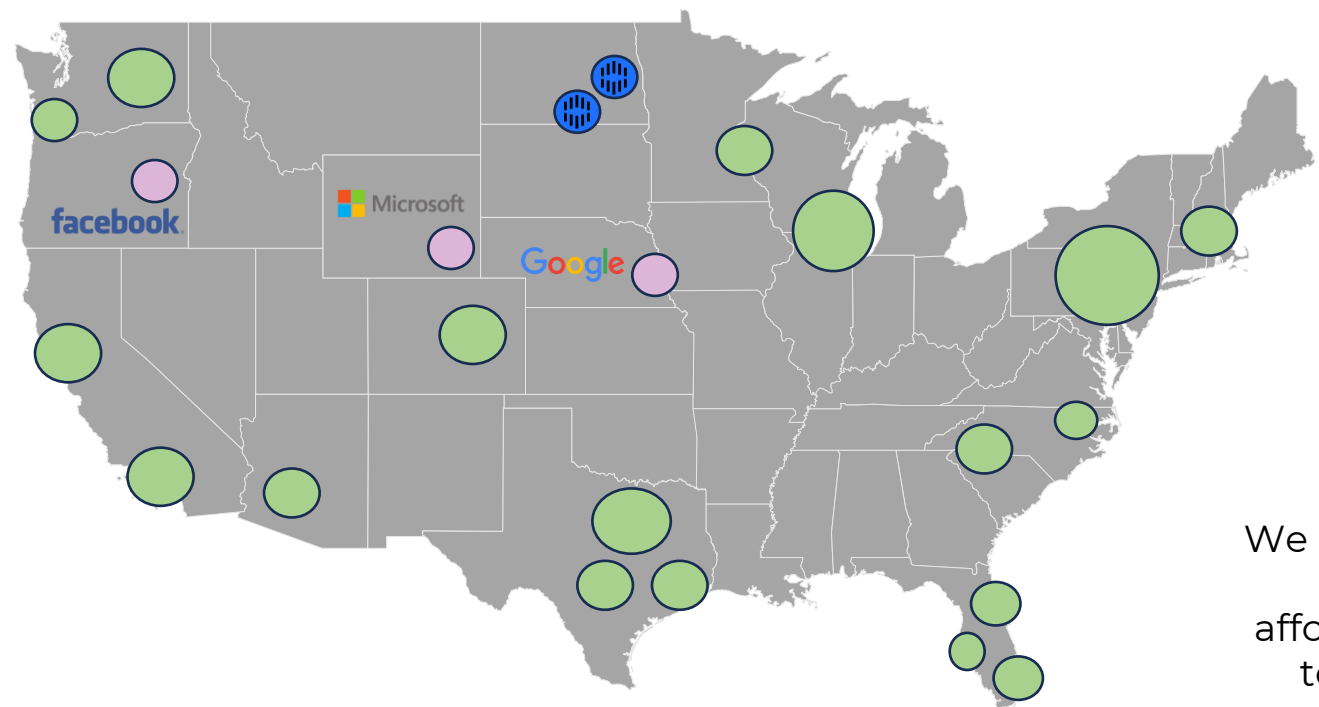
EVOLUTION OF DATA CENTERS

From Population to Power

The number of data centers in the U.S. has doubled in three years

AI data centers are shifting the paradigm. They are less dependent on being near population centers and consume up to 300% more power compared to traditional data centers

New data centers are being built with capacities from 100 to 1000 MW—roughly equivalent to the load from 80,000 to 800,000 homes.



- New Hyperscale Data Centers
- Traditional Data Centers
- Applied Digital Locations

We believe our advantage lies in our access to 100s of megawatts of affordable energy, coupled with our team’s ability to rapidly construct quality data centers



REGION OVERVIEW

Data Center Footprint

Custom Built HPC Data Centers



Region	Total Power	Initial Energization
North Dakota, JMS	7.5MW	Energized
North Dakota, ELN	Up to 600MWs	Q1 2025

Applied Digital Cloud (Third-Party Colocation Data Centers)

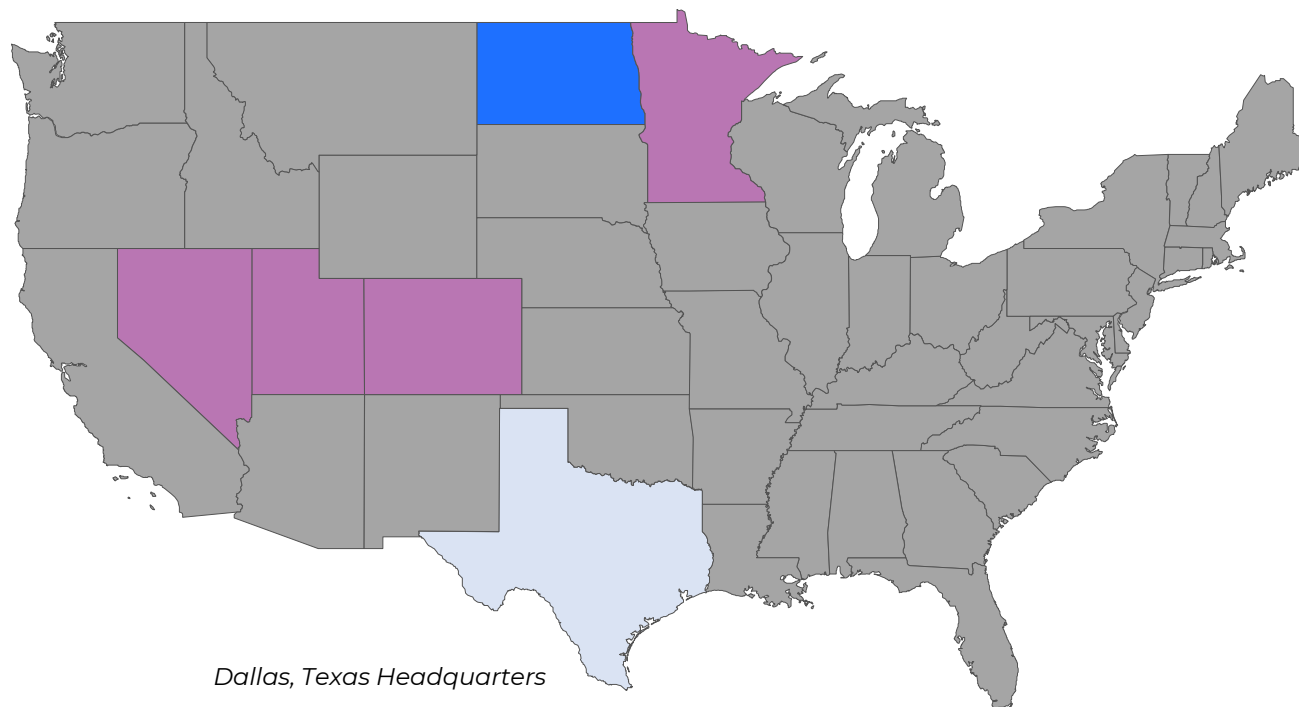
Region	Total Power
Minnesota	1.5MW
Utah	12.5MW
Nevada	2.25MW
Colorado	4.5MW

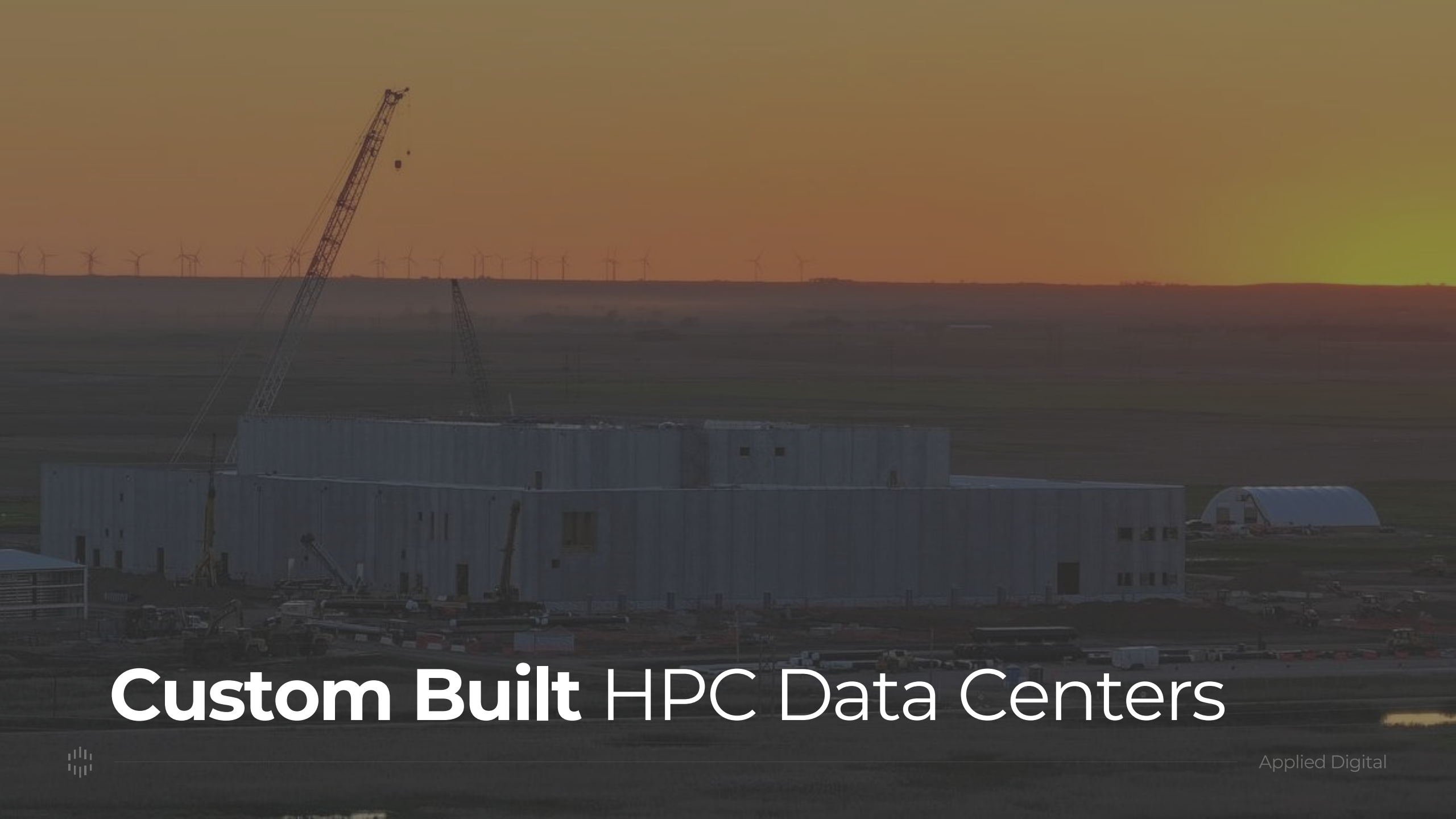
Blockchain Datacenters



Region	Total Power
North Dakota, JMS	~106MW
North Dakota, ELN	~180MW

*Currently, we are no longer accepting new clients for blockchain hosting.





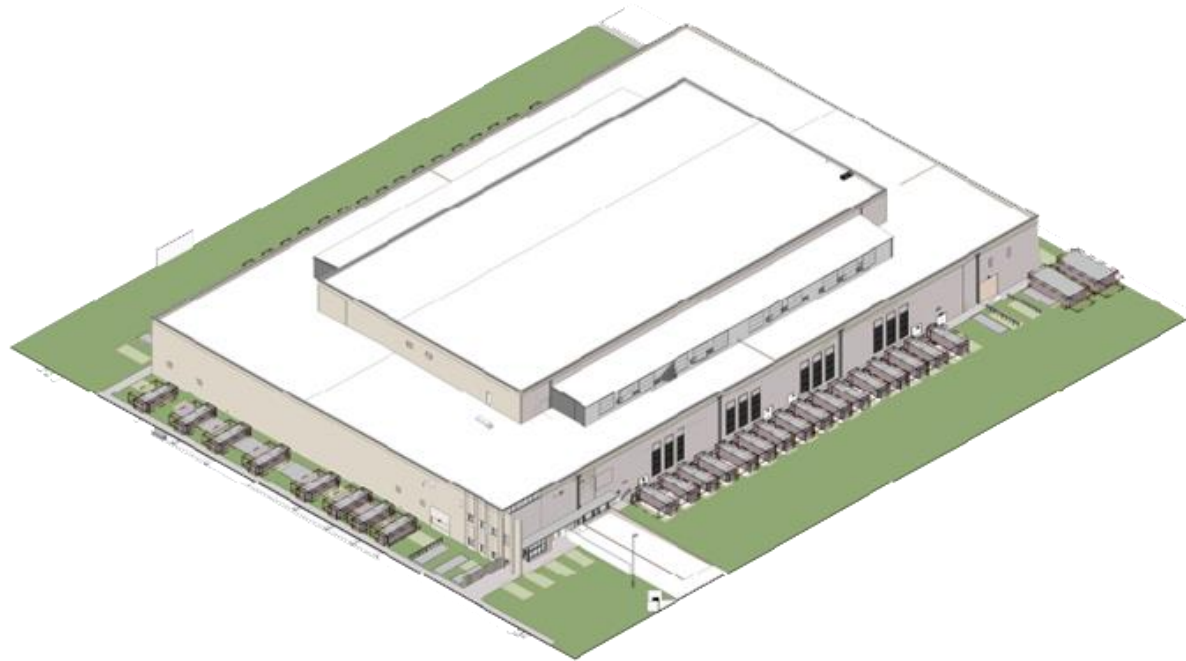
Custom Built HPC Data Centers



HPC DATA CENTERS

Data Center Solutions

Applied Digital aims to provide next-generation infrastructure solutions, engineered to bring workloads directly to the point of generation. Our data centers are being purpose-built for high power density, optimized performance, and energy efficiency. By leveraging a power-centric design and innovative liquid cooling technologies, we aim to ensure maximum efficiency and reliability. Customers will benefit from a managed hosting environment with state-of-the-art equipment, enabling them to execute critical AI, ML, and HPC workloads effectively.



Ellendale AI Data Center: High-Level Overview

Data Center Block - Building A

- Critical IT Capacity – 100MW

Typical Building

- Three story building
- 369,000 GSF building
- 1st floor – Central Utilities
- 2nd & 3rd floors – Data Halls
- 2 Data Halls – 50MW IT Load Each

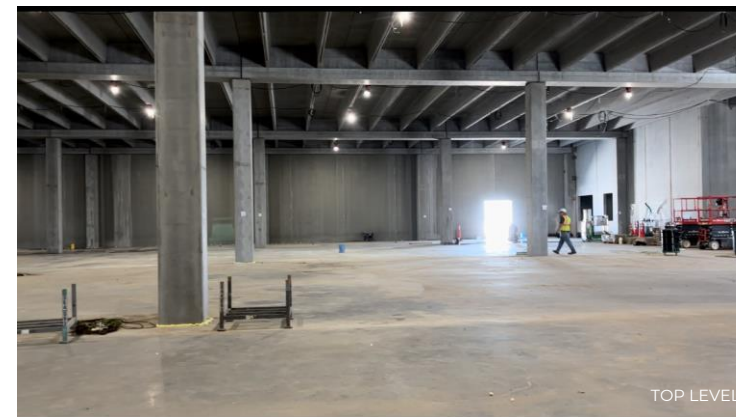
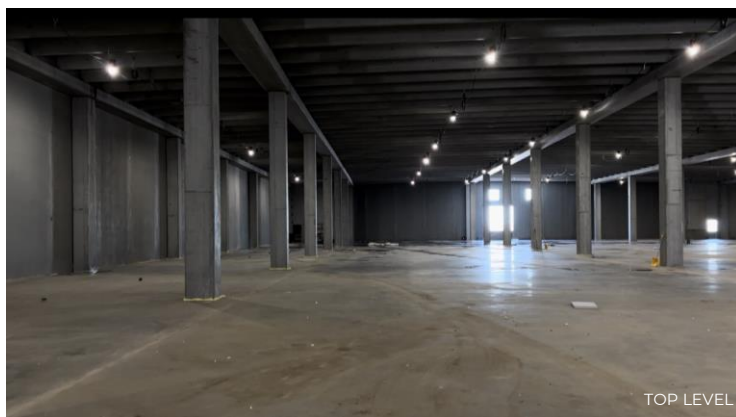
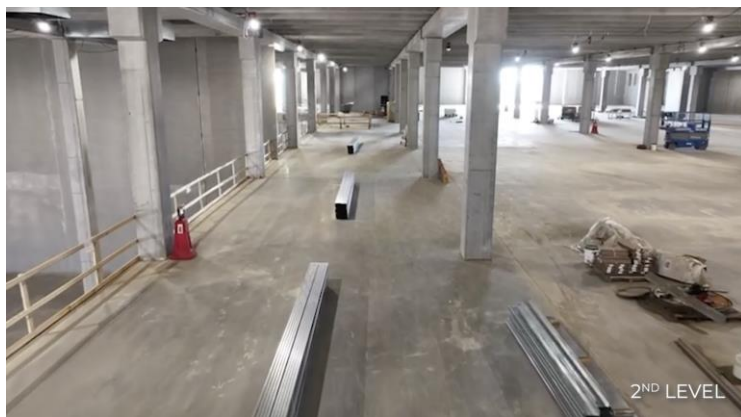
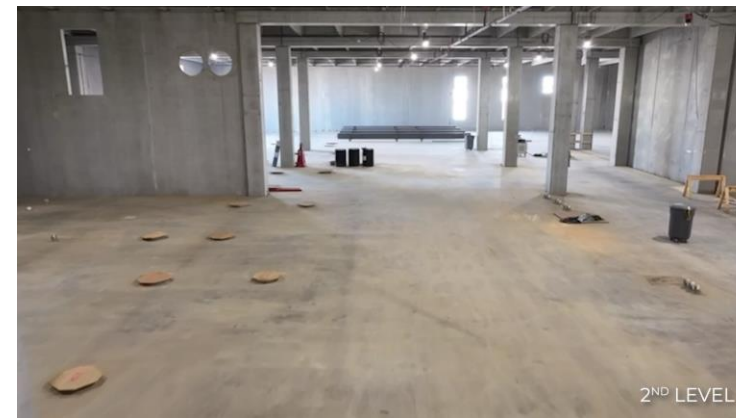
Technical Details

- Peak rack load of 120kW/rack
- Cooling mediums for servers – Direct Liquid to Chip Cooling and Air Cooling
- Peak PUE of 1.3 annual average of 1.2
- Designed to provide higher levels of availability in accordance with industry standards



HPC DATA CENTERS

Ellendale Construction Progress



Hyperscalers Look for New Markets

Constraints are pushing hyperscalers to explore rural markets and outsource builds

Record Pace of Demand Growth



Description: The recent AI boom is driving significant increases in data center demand. AI applications are highly compute-intensive and will continue to require more computational power as they evolve.

Impact: Deployment sizes in data centers are much larger, consume more power, and need to support new compute requirements. Hyperscalers are increasingly outsourcing to meet this demand.

Resource Availability



Description: Power is increasingly scarce in America, and major data center hubs face significant land constraints, limiting expansion opportunities.

Impact: Hyperscalers are outsourcing to rural markets where power and land are more readily available, enabling more effective data center expansion.

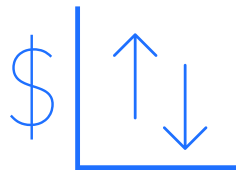
Supply Chain Constraints



Description: Supply chain disruptions are affecting the availability of critical components and equipment needed for data center expansion.

Impact: Deployment sizes in data centers are much larger, consume more power, and need to support new compute requirements. Hyperscalers are increasingly outsourcing to meet this demand.

Rising and Unstable Pricing



Description: Increasing demand and constrained supply are driving up prices, with build costs significantly rising. Additionally, yields have stabilized, adding pressure on profitability.

Impact: To manage costs effectively and mitigate the impact of stabilized yields and rising build expenses, hyperscalers are looking at rural markets for data center expansion.



Strategic Advantages in North Dakota

Capitalizing on First Mover Advantage Ahead of Growing Demand

Abundant Energy ✓

North Dakota's excess energy supply supports our operational stability and growth.

North Dakota exports the majority of power generated, ensuring a reliable energy source for data centers.

Low Build and Operational Cost ✓

Competitive energy costs lower our operational expenses, maximizing profitability

Energy costs in our North Dakota locations are below national and state averages, potentially saving millions per year on electricity for a 100 MW data center.

Favorable Climate ✓

North Dakota's cold weather offers natural cooling benefits for our data centers.

Leveraging the cold climate, along with advanced liquid cooling technologies, can drive down Power Usage Effectiveness (PUE) and significantly increase cost savings

Economic Incentives ✓

State incentives reduce initial capital expenditure and ongoing operational costs.

Sales tax exemption for owners, operators, and tenants on the information technology equipment and computer software, including replacement equipment and software, of a qualified data center.

First Mover Advantage ✓

Locked in energy prior to the AI movement, ensuring ample resources amidst rising demand

2024 Electric Power Research Institute (EPRI) projects that electricity consumption in North Dakota data centers will nearly double from 15.4% in 2023 to 31.1% in 2030.



Applied Digital Cloud

GPU as a Service



Applied Digital Cloud

Applied Digital Cloud, a wholly-owned subsidiary of Applied Digital, offers GPU compute solutions to help customers cost-effectively execute critical AI, ML, rendering, and other HPC workloads. Our infrastructure is purpose-built for high performance at low cost. Customers pay a fixed rate to the Company in exchange for a managed hosting environment supported by Company-provided equipment.

Supercomputer Experts



Our specialists ensure smooth deployments, enabling customers to leverage advanced expertise for optimal performance

Leading GPU Deployment



Our access to cutting-edge GPUs enables us to drive substantial growth and scalability

Proven Success



Signed leading AI clients like Together.ai

Deployed 4096 GPUs last quarter

Growth Potential



Competitors' multi-billion-dollar valuations indicate strong prospects for raising capital for Applied Digital Cloud.



Applied Digital Cloud Service Overview

GPU Inventory

Applied Digital Cloud owns, maintains, and has access to cutting-edge GPUs

Colocation Deployment

GPUs are deployed and maintained by in-house supercomputer experts in various third-party locations

GPU as a Service

GPUs are available for rent, providing flexible and scalable solutions to meet diverse computational needs



Blockchain Data Center

Operation Update



OVERVIEW

Blockchain Data Center

Applied Digital operates data centers to provide energized space to blockchain mining customers. The Company has two Blockchain data centers with a combined capacity of ~286MWs. These data centers are dedicated to third-party hosting; Applied Digital does not own any equipment and solely focuses on the infrastructure and supporting services.

Operation Update:

- Ellendale location faced power outages & transformer issues starting in early 2024.
 - ✓ Installing replacement transformers and bringing the power back online.
- Sold 200 MW Garden City location in Texas (non-core strategic asset)



Jamestown, North Dakota Facility
106MWs



Ellendale, North Dakota Facility
180MWs





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