

The background is a solid dark blue. In the top right corner, there are two white geometric shapes: a circle and a teardrop-like shape that overlaps with the circle. A thin white line extends from the top edge of the frame, passing through the shapes. In the bottom left, a large white semi-circle is partially visible, framing the text.

AHEAD

Validated Designs and Hardware Expertise for Simple and Safe AI Adoption at Scale

How Dell Technologies & AHEAD are helping
organizations accelerate AI adoption

AI has become a foundational technology for enterprises across nearly every industry, unlocking new operational efficiencies and driving competitive edge. As organizations seek simple and secure paths for their own AI adoption, however, they realize the need to choose the right use cases and solutions to maximize value.

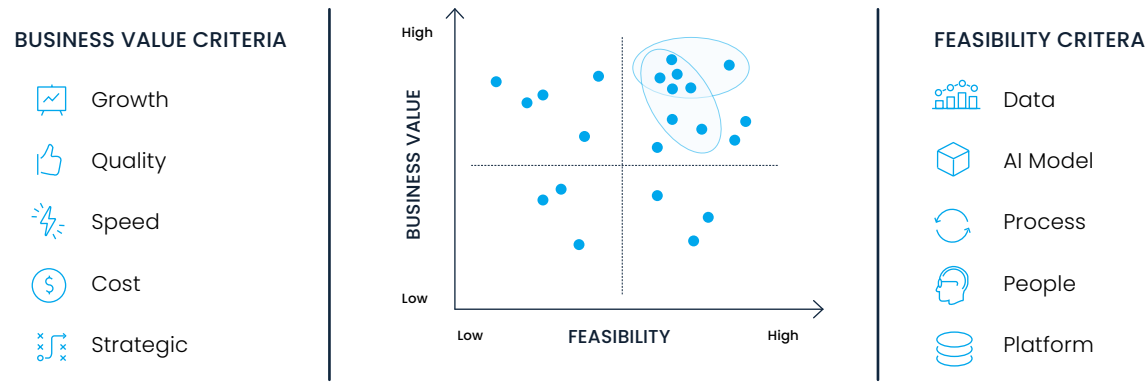
The AI journey from ideation and validation through to deployment can be challenging for many organizations just getting started. That's why Dell Technologies is working to move organizations from AI-possible to AI-proven, and AHEAD ensures these AI use cases quickly become fully operational. Together AHEAD and Dell can bring AI solutions to the data center and hybrid clouds to help organizations stay in control of their data and outcomes.

In this whitepaper, we'll cover the main obstacles to getting started with AI, and how Dell and AHEAD can help organizations at every stage of their AI journey.

The Greatest Challenge with Adopting AI

Developing an AI strategy begins with business ideas, but the greatest challenge is designing real world solutions that generate the most business value. Most organizations have hundreds of use cases to choose from — ranging from business strategy and product design to marketing and operations. This means it's important to evaluate AI ideas based on a consistent set of criteria to ensure success.

Criteria to Prioritize GenAI Use Cases Consistently



Source: Dell Technologies

When evaluating use cases, it's important to understand the trade-off between feasibility, value, risk, and effort. These criteria provide guidance on which use cases should be prioritized, those that may require more up-front discovery or investment before starting development, and which may better be suited for non-AI applications. The goal of this decision-making approach is to identify “quick wins” and determine the potential value of an AI use case before building a full-scale production solution.

How Dell Validated Designs Help Scale AI in Data Centers

[Dell Validated Designs for AI](#) help organizations identify and prioritize the AI use cases that drive the greatest business impact and simplifies the deployment and scaling of those AI use cases and applications. Over 340k engineering hours were spent on design, development, and validation to take the guesswork out of deploying workloads for clients and accelerate their deployments.

These validated designs are tested and proven configurations, designed to dynamically fit the requirements of different use cases. This validated and cost-effective approach reduces AI adoption risks, speeds up clients' time to value, and gives organizations the confidence to scale the adoption of more AI use cases. AHEAD is one of only three partners in the U.S. operating labs with these Dell Validated Designs for AI, with sandboxes for deeper exploration and hands-on access in our state-of-the-art lab.

THE BENEFITS OF VALIDATED DESIGNS INCLUDE:

Accelerated time to value

Leveraging a validated design reduces, or in some cases eliminates, the time it takes to design, test, and integrate components.

Validated to meet specific use cases

The validated designs are proven and documented solutions, via design guides and white papers, to help reduce risk and improve operational efficiency.

Flexible and scalable

Dell's broad portfolio supports a wide range of use cases and helps clients realize the full potential of AI wherever data lives.

DELL VALIDATED DESIGNS FOR AI

Red Hat OpenShift: Process, store, and deploy large-scale AI models efficiently and cost effectively.

Machine Learning Operation: Create standardized ML pipelines based on cnvrg.io that are reliable and repeatable.

Automatic Machine Learning: Automate algorithm selection, feature generation, hyperparameter tuning, iterative modeling, and model assessment.

Conversational AI: Leverage natural language processing, speech to text, text to speech, and machine learning to deliver better customer experiences.

Generative AI: Streamline model inference, augmentation, tuning, and training with a portfolio of validated designs for generative AI to deliver digital assistants, transcription and translation services, and more.

Virtual & Containerized Private Cloud Environments: Leverage private cloud environments to support the development of next-generation AI applications.

Bringing AI to Healthcare on Dell PowerScale

A long-standing [healthcare client](#) wanted to begin leveraging AI but didn't know where to get started with a constrained budget and limited organizational knowledge. AHEAD guided them to begin with leveraging their existing Starburst data lake on Dell PowerScale.

The project was initiated with an AI visioning workshop, then AHEAD worked with Dell and NVIDIA to design a holistic solution for the client that covered the most realistic AI use cases and workloads. As a result, the healthcare provider was able to get started faster and build a roadmap for using the infrastructure at greater scale. This has given the healthcare company a competitive advantage with AI and allows them to deliver a higher quality of care.

AHEAD + Dell: Making AI Infrastructure Designs a Reality

AHEAD is the leader in data, developer, and infrastructure platforms for enterprise organizations. Our consultative approach, technical expertise, and innovative solutions combine to accelerate the impact of technology for every client we serve.

More specifically, AHEAD has the Dell infrastructure expertise, certifications, and extensive partner ecosystem to ensure clients' success when adopting AI. In fact, AHEAD is a [Dell Technologies Titanium Black Partner](#) focused on consultative solutions and in the top 3% of Dell partners globally. We've had 2000+ successful deployments and obtained 400+ certifications and 24 competencies in storage, server, data protection, client, and CI/HCI services.

As a close partner with NVIDIA as well, AHEAD can help you implement an end-to-end enterprise AI solution with technologies from [Dell AI Factory with NVIDIA](#). We're an Elite Solution Provider within the NVIDIA Partner Network and have earned all six of NVIDIA's core AI competencies. This means we're able to offer specific guidance for adopting NVIDIA's various AI products.

The Dell AI Factory with NVIDIA consists of a portfolio of products, solutions, and services optimized for AI workloads. It combines Dell's infrastructure and software with NVIDIA's advanced AI infrastructure and software suite, all underpinned by a high-speed NVIDIA networking fabric. AHEAD's engineering team can take these solutions from Dell and NVIDIA put them through AHEAD Foundry to make them real and deployable.



How AHEAD Foundry Makes AI Infrastructure a Reality

AHEAD Foundry is our comprehensive services for building and integrating all hardware and networking infrastructure at scale in our facility rather than on-site. We can help you seamlessly procure, deploy, orchestrate, and manage large-scale IT systems.

Our AHEAD Foundry offering includes:

- **Pre-deployment Configuration:** Pre-configured products leave AHEAD facilities in a consistent foundational state, ensuring reliability and performance, and economies of scale.
- **Rack Integration:** Integrated solutions decrease DOAs (dead on arrival), reduce missing parts, and improve time to value.
- **Warehousing & Kitting:** Kitting allows organizations to ship all items to our facility, regardless of who they are purchased from. Items are consolidated and palletized to simplify shipments.
- **Global Logistics:** Services performed by a dedicated global logistics team ensures compliance and efficiency across global shipments.
- **[AHEAD Hatch IT Lifecycle Management:](#)** Our proprietary platform consolidates and normalizes all data from various software tools to provide a single-pane view of hardware engineering and logistics.

As part of our AHEAD Foundry offering, we warehouse hundreds of millions of dollars of inventory for a global financial services firm, handling everything from kitting to logistics for new data centers or IT upgrades with visibility in Hatch. For example, AHEAD recently helped the client with a large purchase of Dell equipment, which includes warehousing and kitting everything that is needed to ship along with the racks, servers, workstations, and more.

Dell's Validated Designs for AI, which includes AI-optimized solutions from both Dell and NVIDIA, can jumpstart your AI journey. The portfolio offers the flexibility to customize server components to ensure the right combination of CPU, memory, storage, network adapters, power supply, and more. You'll be able to maintain product support for your AI-enabled hardware at the same level as the rest of your Dell infrastructure.

AHEAD's full-service hardware services can help you with the actual AI infrastructure build out, from procurement through to deployment. [Contact AHEAD](#) to learn more about accelerating the adoption of AI with Dell and NVIDIA hardware.

AHEAD

Combining cloud-native capabilities in software and data engineering with an unparalleled track record of modernizing infrastructure, we're uniquely positioned to help accelerate the promise of digital transformation.

Contact Us

National Hubs

CHICAGO

444 W. Lake Street
Suite 3000
Chicago, IL 60606

NEW YORK

500 Fifth Avenue
Suite 1500
New York, NY 10110

ATLANTA

1117 Perimeter Center
Suite W406
Atlanta, GA 30338

SAN FRANCISCO

2000 Crow Canyon Place
Suite 250
San Ramon, CA 94583