

10 Questions to Kickstart AI Initiatives

Conversation starters for everyone
from IT pros to CEOs

[Get Started](#)



Table of contents

- Introduction 3
- What is AI? 4
- Why AI right now for our business? 5
- What can we accomplish with AI? 6
- Which of our processes could benefit from AI? 7
- What kind of data do we have to work with? 8
- Can our current IT infrastructure support AI? 9
- How will we deploy AI? 10
- How much will it cost, and what's the potential ROI? 11
- How will we mitigate risk? 12
- Who can help us get started? 13
- AI-ready solutions from Dell and NVIDIA 14-19
- Next steps 20

Introduction

Gaining consensus and momentum on an AI strategy for your business can be challenging due to the diverse teams involved and their varying degrees of AI knowledge. This starter guide can help you prepare for and facilitate productive AI discussions between technical and nontechnical stakeholders, including IT, data science, C-suite, finance, and legal. It poses 10 questions that can assist with “right-sizing” AI for your business.

Putting AI to Work for Businesses

Dell Technologies and NVIDIA are committed to providing the information and assistance businesses need to understand AI, launch pilot projects, and successfully implement AI solutions. It begins with developing a smart AI strategy so you can get up to speed quickly and confidently start your AI journey.

AI Affects Everybody



Everyday
knowledge users



Independent
software vendors
(ISVs)



Data scientists



Engineers



Developers

What is AI?

Artificial intelligence (AI) uses computers and software to perform tasks, learn, make decisions, and solve problems in a way that imitates the human mind. Generative AI produces content like text, images, and sound based on its training data. Predictive AI forecasts future behaviors or events based on historical data and patterns.

AI Glossary



AI Algorithms

Mathematical instructions to execute a particular function



AI Training Data

The “source material” used to teach AI to perform specific tasks



AI Models

The results of AI algorithms learning patterns in AI training data



AI Applications

Leverage AI models to provide the functionality required to complete tasks



AI Hardware

The workstations and servers that house the processors (GPUs, CPUs, NPUs, and TPUs), storage, and networking required to develop, manage, and utilize AI applications



AI Platforms

Comprised of hardware architecture and software frameworks that support AI application development, deployment, and management



Why AI right now for our business?

AI is revolutionizing every industry, accelerating processes, boosting productivity, increasing agility, enhancing efficiency, improving quality, and so much more. Starting small now could lead to a big competitive advantage in the future.

AI Across Industries

Business &
Financial Services

Manufacturing &
Engineering

Healthcare &
Life Sciences

Media &
Entertainment

83%

of businesses agree AI will be an essential part of their security strategy¹

65%

of businesses agree the jobs and skills needed in 2030 have not been invented yet¹

82%

of businesses agree there will be greater human and machine partnership within five years¹

What can we accomplish with AI?

Identify a challenge or problem you'd like to address with AI. Gaining alignment on a clear objective tied to business goals will help ensure your AI strategy maintains momentum. Discover how your business can leverage the potential of GenAI with insights, solutions, and strategies for harnessing its transformative capabilities.

Business Challenges That AI Can Help Solve

Decision-making

Analyze vast amounts of data for trends and insights

Use cases: financial planning, strategic planning

Efficiency

Automate repetitive tasks and anticipate maintenance needs

Use cases: inventory management, data entry, CGI rendering

Collaboration

Collaborate in virtual environments to improve and accelerate work

Use cases: remote teams, multilingual teams

Innovation

Simulate processes, run virtual experiments, and generate numerous design alternatives

Use cases: rapid prototyping, design visualizations

Customer Satisfaction

Personalize experiences with recommendations and expedite service with chatbots

Use cases: customer service, technical support

Security

Monitor data for potential security threats and respond in real time

Use cases: fraud detection, customer privacy

Business Continuity

Dynamically reallocate resources, reduce errors, or optimize energy consumption

Use cases: predictive maintenance, quality control



Which of our processes could benefit from AI?

Identify viable tasks for improvement. The following characteristics could help you pinpoint which process you'd like to tackle.

Characteristics of Common Tasks for AI Integration

 Repetitive

Examples: Data entry, maintenance protocols, CGI texture mapping

 Error-prone

Examples: Quality control, logistics, financial transactions

 Time-consuming

Examples: Data analysis, motion capture processing, inventory management

 Complex

Examples: Predictive analysis, natural language processing, image and video analysis

 Urgent

Examples: Supply chain logistics, just-in-time manufacturing, image and video upscaling

 Personalized

Examples: Product recommendations, content suggestions, customer service

 Rule-based

Examples: Machine setup and adjustments, CGI ray tracing

What kind of data do we have to work with?

Assess your data to determine availability, quality, and scalability, all of which affect the performance of AI models.

What to Consider When Reviewing Data for Use with AI



Availability

- > Sources
- > Types
- > Formats
- > Quantity
- > Consolidation

Quality

- > Accuracy
- > Completeness
- > Consistency
- > Bias
- > Timeliness

Scalability

- > Volume
- > Complexity
- > Variety
- > Velocity
- > Security

Can our current IT infrastructure support AI?

Evaluate your existing systems to understand how your AI solution will integrate, what you need to upgrade to ensure performance and security, and how you'll scale up and down.

AI Infrastructure Checklist



Integration

How will your AI solution work with your current IT infrastructure?

Example: Data silos and incompatible formats need to be addressed to ensure AI runs smoothly.



Scalability

How will you handle usage spikes and future growth?

Example: As the amount of AI data grows, so does the need for more powerful processing, storage, and networking.



Performance

Do you have the required processing power, storage capacity, and networking bandwidth/latency?

Example: Deep learning workloads require the kind of significant computing power provided by high-performance GPUs.



Security

Does your existing infrastructure meet the security, privacy, and regulatory requirements of your AI workloads?

Example: To help prevent data poisoning, AI model monitoring processes need to be implemented.

How will we deploy AI?

Explore your deployment options. Your best choice depends on what's most important to your business: security, scalability, cost, or integration.

Pros and Cons of AI Deployment Options



On Premises



Cloud



Hybrid



Pro: Control



Con: Cost



Pro: Scalability



Con: Privacy



Pro: Flexibility



Con: Integration

How much will it cost, and what's the potential ROI?

Conduct a cost-benefit analysis to weigh your investment against the return you can expect. The following questions can help you explore potential tangible and intangible returns on investment.

ROI Thought Starters

Time



How much time is required to complete a specific task?

Errors



How often are errors made when performing certain tasks?

Satisfaction



What percentage of users are dissatisfied with a particular customer experience?

Resources



What is the current cost of resources required for complex data analysis?

Delivery



How often does a particular task result in late delivery?



How will we mitigate risk?

Consider operational, regulatory, and ethical risks when developing your AI strategy. Completing a comprehensive risk assessment and developing strong AI governance can help you anticipate potential issues.

Considerations for AI Risk Mitigation



Who can help us get started?

The right technology partners for your AI journey will guide you through strategy, implementation, and beyond. They'll have technical know-how, proven experience, and the most innovative solutions.

What to Look for in an AI Partner



Expertise



Ecosystem



Performance



Longevity



Innovation

Why Dell and NVIDIA for AI

Expertise

Dell and NVIDIA are your expert advisors with the most advanced knowledge, proven experience, and a commitment to helping businesses implement AI.

Ecosystem

Simplify deployment and scalability with Dell and NVIDIA's comprehensive portfolio of co-designed AI solutions tailored to your business.

Performance

With AI workstations and cutting-edge GPU acceleration, Dell and NVIDIA help you tackle the most demanding AI workloads.

Longevity

Get peace of mind working with two established technology leaders. Dell and NVIDIA are with you every step of the way.

Innovation

Count on Dell and NVIDIA to deliver the continuous optimization you need to maintain a competitive edge as AI advances.

AI-ready solutions from Dell and NVIDIA

Get superior performance and reliability with Dell Precision AI workstations powered by NVIDIA RTX™ GPUs. Configurable with up to four NVIDIA RTX™ 6000 Ada Generation GPUs on the Dell Precision 7960 Tower, they run AI software frameworks 80% faster than the previous generation.² Combine Dell Precision workstations with NVIDIA AI Enterprise and AI Workbench GPU-accelerated frameworks, tools, and pre-trained models to get AI projects up and running quickly.

Dell Precision AI Workstation Series

Fixed



Dell Precision 3000 Series

Cost-effective workstations ideal for space-constrained environments and light AI workloads



Dell Precision 5000 Series

Mainstream performance for AI development and deployment



Dell Precision 7000 Series

Ultimate scalable performance for mission-critical AI development and deployment

Mobile



Dell Precision 3000 Series

Small on size and cost with enough power for AI usage, such as inferencing



Dell Precision 5000 Series

Thin and light workstations with the power for heavy-duty AI inference and deployment



Dell Precision 7000 Series

Ultra-performance for the best in AI development and deployment from a mobile workstation

[Learn More](#)

AI-ready solutions from Dell and NVIDIA

NVIDIA AI Workbench and NVIDIA AI Enterprise



With NVIDIA AI Workbench, GenAI and deep-learning developers can set up GPU environments easily, giving them the freedom to work and collaborate across various platforms regardless of skill level. NVIDIA AI Enterprise is an end-to-end, cloud-native AI and data analytics software platform optimized so every organization can excel at AI. Simplify AI development and deployment with the included AI frameworks and containers to gather insights faster and deliver business value sooner.

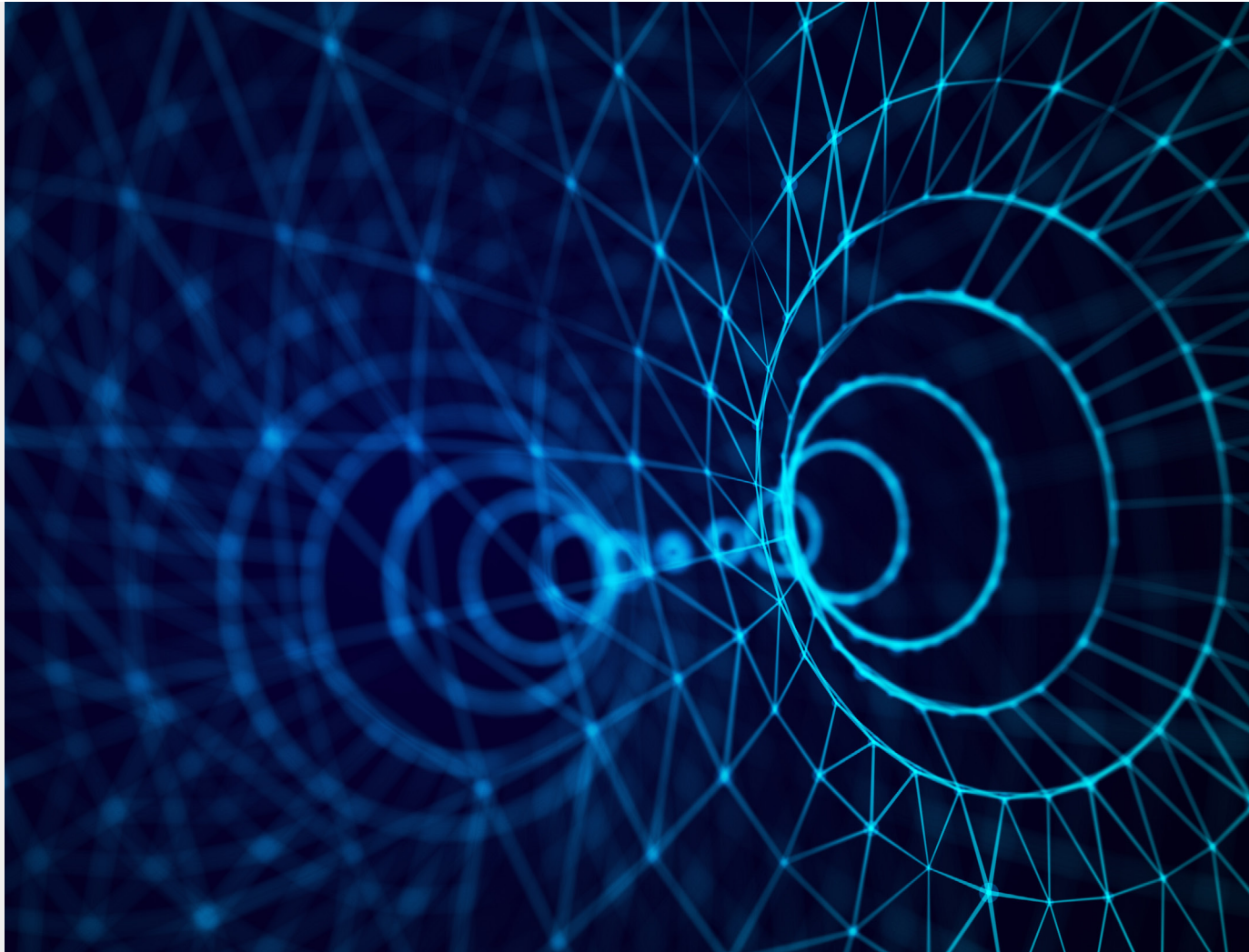
[Learn More](#)

AI-ready solutions from Dell and NVIDIA

NVIDIA AI Enterprise Essentials (NVAIE) on Dell Precision workstations

Available on select Dell Precision fixed and mobile workstations, NVAIE is a cutting-edge software platform offering more than 100 frameworks, pre-trained models, and libraries to accelerate the development and deployment of AI applications. NVAIE's easy-to-use microservices optimize model performance and help ensure enterprise-grade security, support, and stability in the cloud, data center, and on workstations. Dell Precision workstations with eligible NVIDIA RTX™ Ada Generation GPUs deliver the computational power required for training, fine-tuning, and inferencing AI workloads.

[Learn More](#)





AI-ready solutions from Dell and NVIDIA

Dell AI Factory with NVIDIA

Accelerate AI adoption and workloads using Dell AI Factory with NVIDIA, the industry's first comprehensive AI solution designed to help enterprises quickly capitalize on AI investments. It integrates Dell's compute, storage, client device, software, and services capabilities with NVIDIA's advanced AI infrastructure and software suite, all supported by a high-speed networking fabric.⁵



End-to-end AI Acceleration Framework

Start quickly with full-stack AI-powered use cases and optimized infrastructure with services.

Scale up and out with complete use-case workflows while maintaining performance.

Simplify deployments with automated workflows and turnkey installations.

Enable the workforce to start where they are, from PC desktop and workstation to server and edge.

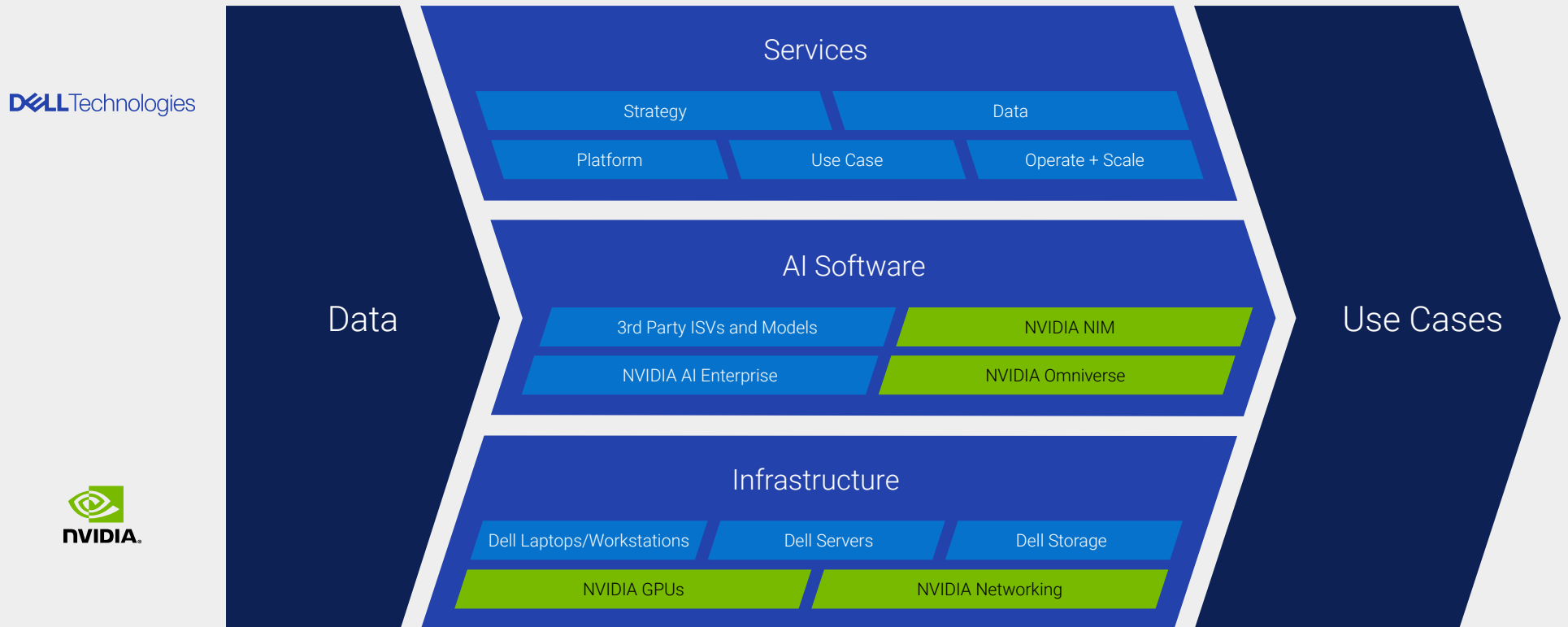
Drive a competitive advantage with hundreds of use cases.

[Learn More](#)

AI-ready solutions from Dell and NVIDIA

Dell AI Factory with NVIDIA

From model creation and tuning to augmentation and inferencing, Dell AI Factory with NVIDIA expedites the entire GenAI lifecycle. Customers can also take advantage of professional services that help enterprises accelerate their strategy, data preparation, implementation, and adoption of Dell AI Factory with NVIDIA.



AI-ready solutions from Dell and NVIDIA

Accelerator services for RAG on Dell Precision workstations

Dell's expert consultants can set up a ready-to-use mobile GenAI lab on a Dell Precision workstation and implement a retrieval-augmented generation (RAG) use case with your data. This convenient, cost-effective approach to GenAI exploration enables developers to experiment and demonstrate outcomes in a sandbox environment. This service includes installation and configuration of NVIDIA AI Workbench. Dell transfers knowledge to your team throughout the process so they're prepared to take on new projects.

Jumpstart your GenAI journey



Rapid prototyping
in a pre-validated
environment



Cost-effective,
low-risk exploration of
GenAI use cases



Convenient,
portable GenAI testing
and demonstration



GenAI skills
expansion

[Learn More](#)

Next steps

Ready to Get Started?

→ Contact a Dell Technologies Solutions Expert to discuss next steps in your AI journey

Want to Learn More?

- Dell Precision AI Workstations
- Dell Precision AI Workstations Infographic
- Dell Precision Workstations AI Industry Brochure

Deep Dive Resources

- Dell Technologies AI Quick Reference Guide
- Dell Technologies Deploying AI on Workstations White Paper
- Dell Technologies AI for Design and Engineering Workflows White Paper

DELLTechnologies



¹ Innovation Catalysts Study, Dell Technologies February 2024 <https://www.delltechnologies.com/asset/en-us/solutions/infrastructure-solutions/briefs-summaries/innovation-catalysts-study.pdf.external>

² Tests run on an Intel i9-12900K, 64GB RAM, Windows 11 Enterprise x64, NVIDIA driver 526.99. Test scores relative performance of PyTorch GNMT V2 Training tests scores. Preliminary results on pre-production hardware and software, final performance may vary.

³ Based on internal study of competitors and Dell workstation products, January 2024

⁴ Based on Dell internal analysis, September 2023. Applicable to PCs on Intel processors. Not all features available with all PCs. Additional purchase required for some features.

⁵ Based on Dell analysis, March 2024. Dell offers solutions with NVIDIA infrastructure and software engineered to support AI workloads from Workstations PCs to Servers for High-performance Computing, Data Storage, Cloud Native Software-Defined Infrastructure, Networking Switches, Data Protection, HCI and Services.