DELL Technologies

10 Questions to Kickstart AI Initiatives

Conversation starters for everyone from IT pros to CEOs

Get Started

NVIDIA

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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.

Dell AI Factory with NVIDIA

Put AI to work for your business with Dell AI Factory with NVIDIA. Comprehensive, customizable, and secure, it is comprised of products and services tailored for AI workloads—from desktop to data center to cloud. With more than 25 years of joint innovation, Dell Technologies and NVIDIA have a long-standing partnership focused on accelerating innovation and delivering cutting-edge platforms, solutions, and software that enable transformative results for our shared customers.

AI Affects Everybody

- Knowledge workers
- 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 strategy[1]

65%

of businesses agree the jobs and skills needed in 2030 have not been invented yet[1]

82%

of businesses agree there will be greater human and machine partnership within five years[1]

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 AI 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 may 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.

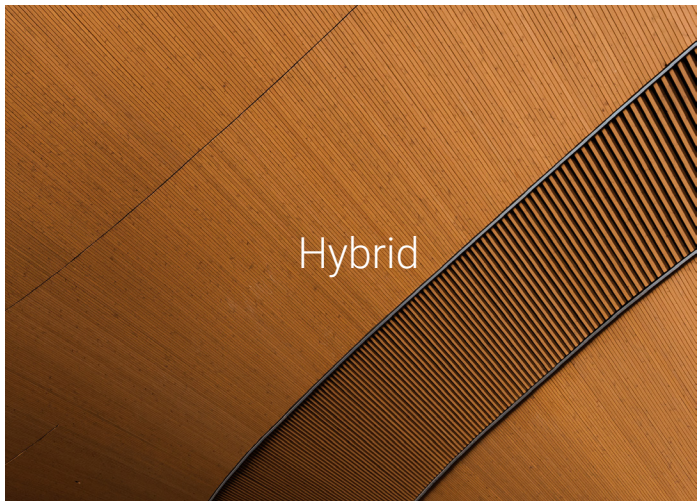
Pros and Cons of AI Deployment Options

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

Operational	Performance Scalability
Security	Cyberattacks Data manipulation Secure intellectual property
Compliance	Data privacy laws Regulatory requirements
Ethical	Bias Transparency Data sources

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 solutions and services from Dell and NVIDIA

AI solutions and services from Dell and NVIDIA

Dell AI Factory with NVIDIA

Accelerate AI adoption and workloads with Dell AI Factory with NVIDIA, the industry's first end-to-end enterprise AI solution. 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.[2]

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 desktop to server.

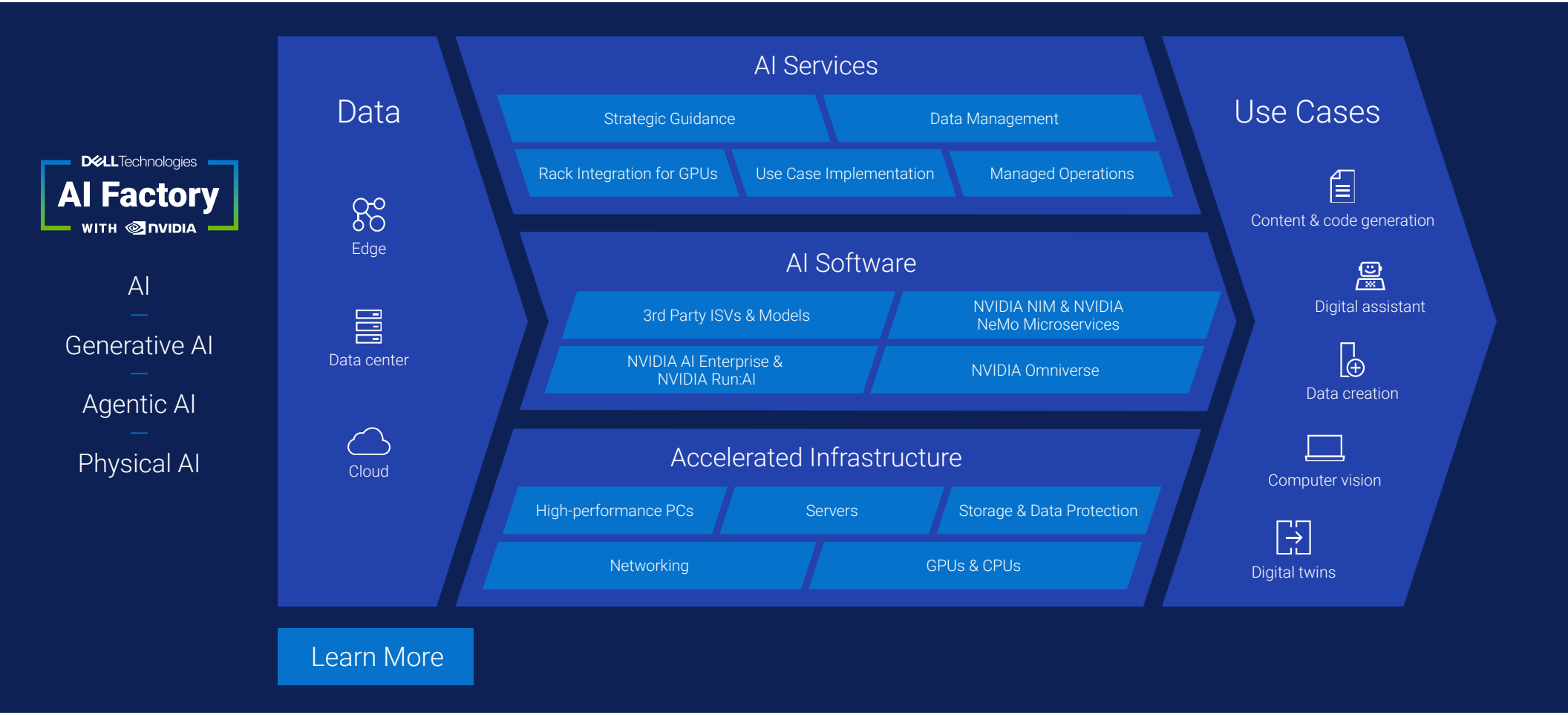
Drive a competitive advantage with hundreds of use cases.

Learn More

AI solutions and services 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 AI 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 solutions and services from Dell and NVIDIA

Dell Pro Max high-performance PCs
Get superior performance and reliability with Dell Pro Max high-performance PCs powered by NVIDIA RTX™ GPUs.[3] With NVIDIA AI Enterprise and AI Workbench GPU-accelerated frameworks, tools, and pre-trained models, get AI projects up and running quickly.

Fixed

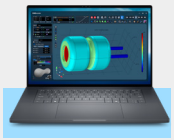
Dell Pro Max Micro
Cost-effective workstations ideal for space-constrained environments and light AI workloads

Dell Pro Max Slim
Mainstream performance for AI development and deployment

Dell Pro Max Tower T2
Ultimate scalable performance for mission-critical AI development and deployment

Mobile

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



Dell Pro Max Premium
Thin and light workstations with the power for heavy-duty AI inference and deployment

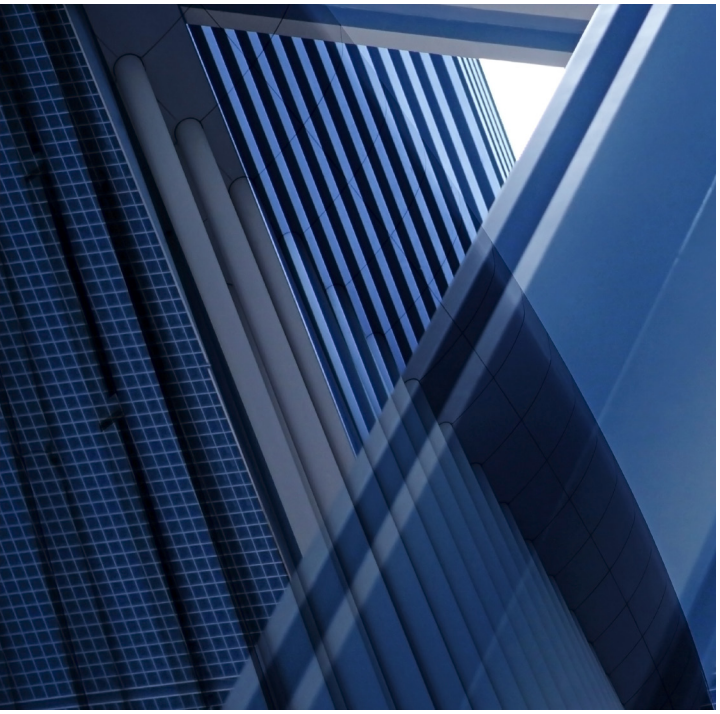
Dell Pro Max Plus
Ultra-performance for the best in AI development and deployment from a mobile workstation

Learn More

AI solutions and services from Dell and NVIDIA

Dell Pro Max high-performance PCs
Get ultimate professional-grade performance with Dell Pro Max PCs powered by NVIDIA RTX PRO™ Blackwell Generation GPUs. Up to 36% more powerful than the previous generation, Dell Pro Max desktops and laptops are designed for the most demanding workloads.[4]

Benefits



Extraordinary desktop performance	Handle intensive workloads, power demanding applications, run AI inferencing, and fine tune large language models.
Elevated mobile experiences	Take innovation to the next level with features like advanced OLED displays, high-resolution cameras, and battery-saving technology.
Tested, trusted, and secure	Rely on secure PCs that are tested, optimized, and certified to run the most demanding professional applications.

Learn More

AI solutions and services from Dell and NVIDIA

Dell Pro Max high-performance PCs for AI developers
Purpose-built for AI developers and powered by NVIDIA Grace Blackwell Superchips, Dell Pro Max with GB10 and Dell Pro Max with GB300 are setting the new standard for AI development at the deskside.

The Future of AI Development

Dell Pro Max with GB10

Incredible power in a compact design
- 1,000 TFLOPS of FP4 computing power
- Supports up to 200 billion parameter models
- Supports one or two stacked configurations
- Powered by the NVIDIA GB10 Grace Blackwell Superchip and the NVIDIA AI Software stack

Dell Pro Max with GB300

Massive performance for heavy-duty workloads
- Up to 20,000 TFLOPS of FP4 computing power
- Supports up to one trillion parameter models
- Powered by the NVIDIA GB300 Grace Blackwell Ultra Desktop Superchip and the NVDIA AI software stack

Learn More

AI solutions and services from Dell and NVIDIA

Accelerator services for RAG

Dell's expert consultants can set up a ready-to-use mobile AI lab on a Dell Pro Max PC and implement a retrieval-augmented generation (RAG) use case with your data. This convenient, cost-effective approach to AI 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.

Fast-track AI Innovation with Mobile Testing Labs

Rapid prototyping in a pre-validated environment

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

Convenient, portable AI testing and demonstration

Flexibility to scale based on business needs while paying for what's needed

Watch Video

AI solutions and services from Dell and NVIDIA

Dell Professional Services for digital assistants
We can help you develop an AI digital assistant with a humanistic AI avatar interface personalized for your audience, optimized for your use case, integrated with your data, and deployed on a trusted framework.

Transform Self-service and Boost Operational Efficiency

Simplify digital assistant implementation and minimize risk with a trusted solution.

Tailor solutions with AI trained on your data to deliver dynamic user experiences.

Personalize interactions with natural facial expressions, gestures, and nearly 100 languages.

Improve efficiency and savings across customer service, tech support, training, and more.

Learn More

AI software from Dell and NVIDIA

NVIDIA AI Workbench and NVIDIA AI Enterprise
Dell and NVIDIA provide a comprehensive range of software to kickstart and accelerate your AI initiatives. By pairing Dell Pro Max PCs with one or more of the offerings listed below, you can get your AI projects up and running quickly and efficiently.

NVIDIA AI Workbench

With NVIDIA AI Workbench, developers can set up GPU environments easily and collaborate across platforms regardless of skill level.

Learn More

NVIDIA AI Enterprise

NVIDIA AI Enterprise, an end-to-end, cloud-native AI and data analytics software platform, offers frameworks and containers that simplify development and deployment.

Learn More

NVIDIA AI Enterprise Essentials

Available on select Dell Pro Max PC configurations, the NVAIE software platform accelerates AI development and deployment with more than 100 frameworks, pre-trained models, and libraries.

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?

- Get additional information about the latest AI-ready solutions from Dell and NVIDIA
- Find out more about Dell Pro Max for AI Developers
- Learn more about Dell Pro Max high-performance PCs

[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] 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.
[3] Previously referred to as Dell Precision workstations
[4] Based on internal evaluation of the new Dell Pro Max 14 and the previous generation, Precision 3490. February 2025