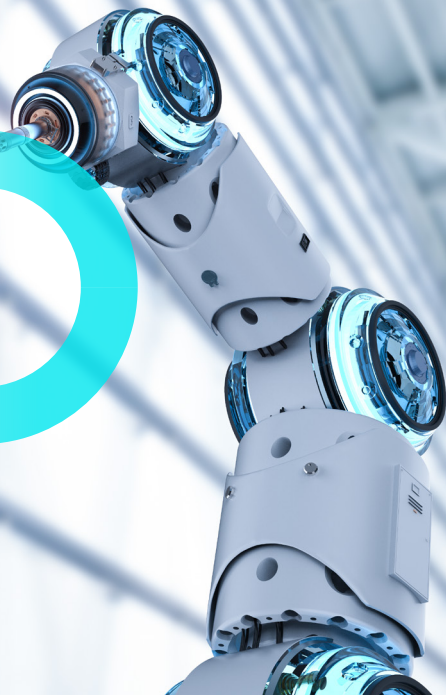# FUJITSU | NetApp®

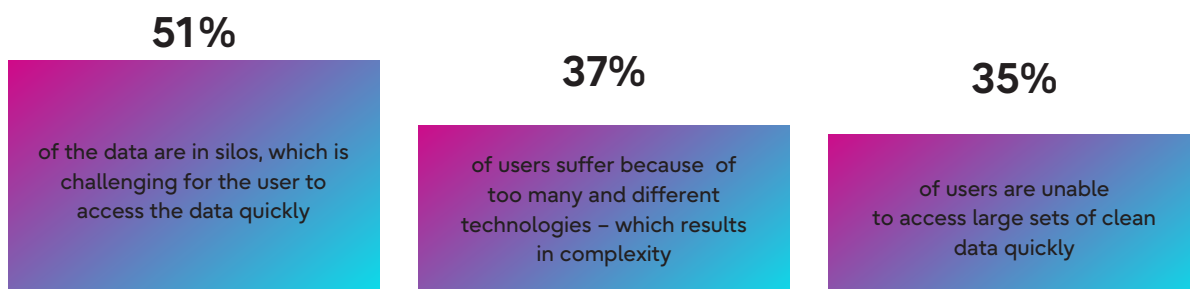# Manage data to achieve Artificial Intelligence success

The data dilemma in AI

Voice assistants, face recognition and even the content of your spam folder are all driven by AI.
AI can ingest vast swathes of data, prepare it for processing, create models for training, and infer insights for the future. Organizations still hold back from implementing AI – and many of the barriers are down to data and how it has to be stored. In an AI workflow, preparing the data relies on extremely fast throughput, good dedup and compression. Deriving or inferring insights from masses of data demands ultra-low latency, ideally with NVMe SSDs. AI model training needs both. And for archiving, volume matters: this requires storage on a truly vast scale.

What holds AI projects back?
Top 3 reasons

While data is the key to making AI work – it's also the problem. In fact, a number of the challenges preventing organizations from moving AI projects to production are data-related. Often, data is stored in silos, in different business units or at different locations. And for many organizations, the view is that getting all technologies to work together is simply a step too far.

51%
of the data are in silos, which is challenging for the user to access the data quickly

37%
of users suffer because of too many and different technologies – which results in complexity

35%
of users are unable to access large sets of clean data quickly

To deploy and run an AI infrastructure organizations need visibility and access to all corporate data whether created on the edge, in the core and/or in the cloud, combined with compute platforms tailored for AI – machine learning and deep learning.

An AI-optimized hardware and software platform helps data move near-instantly to the point of need across all the phases in the AI workflow.

Learn more about Fujitsu and NetApp:
www.fujitsu.com/netapp

# Leverage your AI investment with Fujitsu and NetApp

AI is data hungry - to derive insights, it collects and integrates information from multiple repositories, data lakes and legacy stores at the edge, in the core and in the cloud. In addition, AI is also power hungry – at the heart of AI is deep learning that demands massive compute power to run its multi-layered neural networks. It's also highly energy-intensive with an enormous carbon footprint, which is why deep learning was until recently in the supercomputing domain.

At Fujitsu, we've been developing AI solutions for decades. Using our wide-ranging experience within the field of AI and data-driven business transformation. High performance storage from NetApp lends itself well to a combined AI solution that assures success in an AI implementation.
The co-created solution brings together NetApp's Intelligent Data Infrastructure and Fujitsu PRIMERGY servers for AI resulting in a flexible platform for AI innovation, enabling you to manage data and compute across edge, core and cloud.

AI technology foundation to meet both your immediate and future business needs

- Flexible reference designs specific to organizational requirements
- Skills and capabilities to deliver self-learning algorithms and train a neural network
- Ecosystems across AI technology and solutions providers
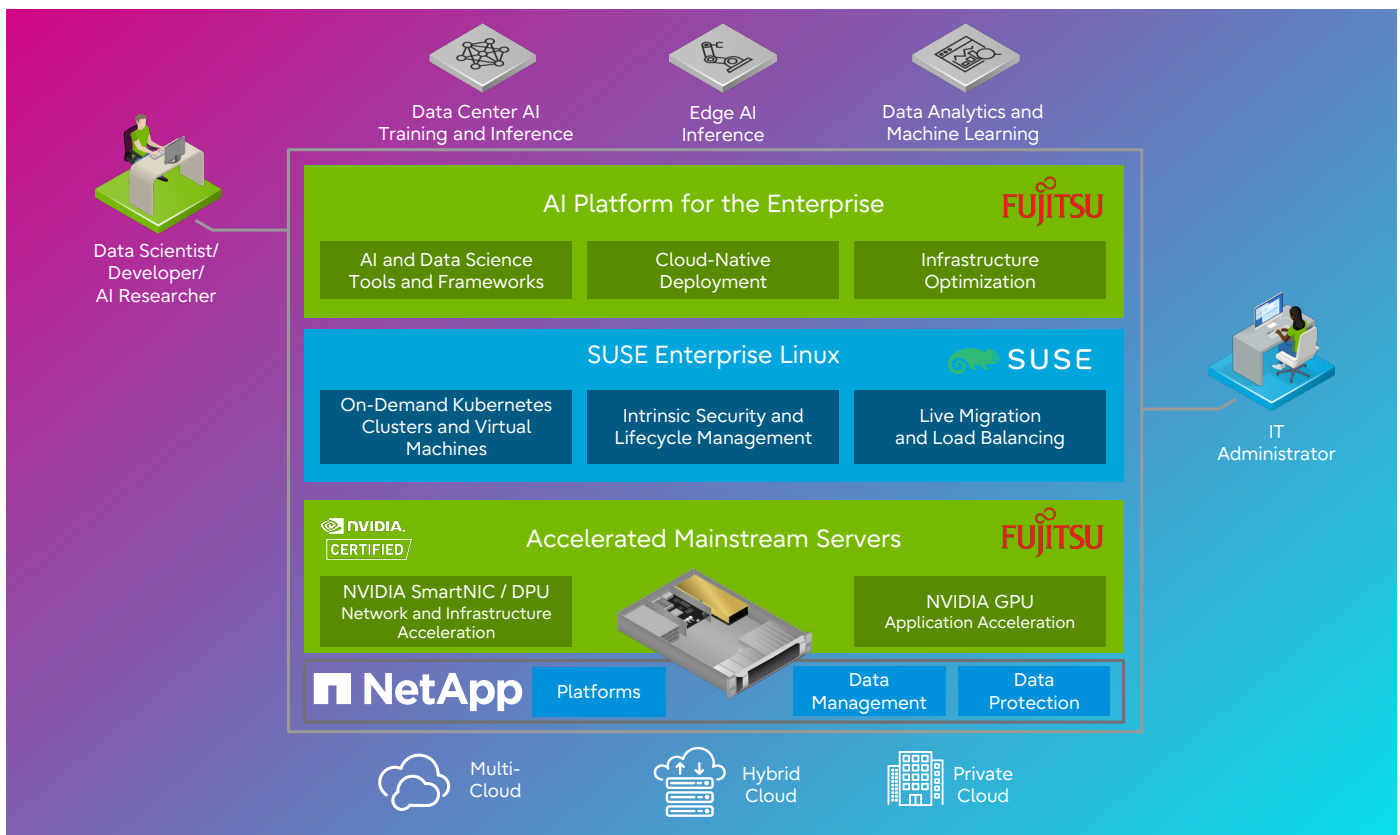- AI solutions across edge-core-cloud

CO_2
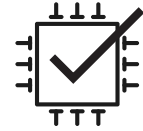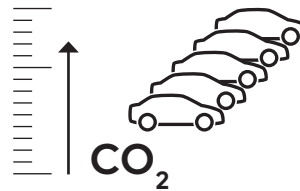
Intensive carbon footprint
Training a single deep learning model in extreme cases can emit as much carbon as five cars in their lifetime.

Fujitsu solution
Arms you with the flexibility to choose the right solution for deep learning and in every stage of the AI work flow.

[Diagram]

Data Center AI Training and Inference

Edge AI Inference

Data Analytics and Machine Learning

Data Scientist/ Developer/ AI Researcher

AI Platform for the Enterprise — FUJITSU

- AI and Data Science Tools and Frameworks
- Cloud-Native Deployment
- Infrastructure Optimization

SUSE Enterprise Linux — SUSE

- On-Demand Kubernetes Clusters and Virtual Machines
- Intrinsic Security and Lifecycle Management
- Live Migration and Load Balancing

IT Administrator

NVIDIA CERTIFIED — **Accelerated Mainstream Servers** — FUJITSU

- NVIDIA SmartNIC / DPU Network and Infrastructure Acceleration
- NVIDIA GPU Application Acceleration

NetApp — Platforms — Data Management — Data Protection

Multi-Cloud | Hybrid Cloud | Private Cloud

Strong alliance for AI

AI adoption is progressing fast, and the data center is set to evolve into a business intelligence center: the source of insights for taking smart, agile business decisions. Build your complete AI solution with Fujitsu and NetApp – and get your business analytics ready for an AI-powered future!

Learn more about Fujitsu and NetApp:
www.fujitsu.com/netapp