

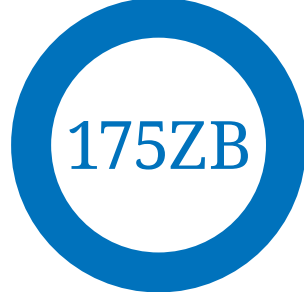
NTT DATA Technology Foresight 2025

Cognitive cloud convergence: the seamless integration of advanced cloud-computing technologies with AI and human cognitive abilities

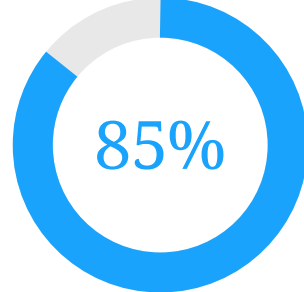
“ Picture a world where limitless possibilities await you at the intersection of technology and thought.

Cognitive cloud convergence: deriving deeper, real-time insights that improve operations and enhance decision-making, enabling organizations to streamline operations and create personalized customer experiences.

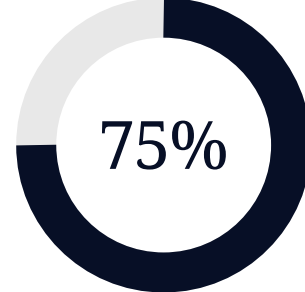
Factors driving cognitive cloud convergence into the mainstream



Projected global data volumes in 2025.



In 2024, the number of large organizations with a multicloud strategy rose from 76% to 85%.



of enterprise-generated data is expected to be created and processed outside a traditional centralized data center or cloud in 2025.

\$2 trillion

Cloud computing sales are forecast to reach by 2030

10% – 15%

of this spending will be accounted for by GenAI

Benefits to organizations



Derive deeper insights from data in real time



Anticipate market trends and customer needs



Better prioritize strategic initiatives



Technological advances to monitor

Containerization

Orchestration tools

Edge-computing platforms

Infrastructure as code

AI and ML services

Research and development



7,000

patents registered in 2023

Approximate figures

Strategies for success

1

Fuse AI and cloud computing.

2

Capitalize on advances in cloud infrastructure.

3

Process data near its source (edge technologies and IoT).

4

Streamline and automate processes.

Future scenarios and Gen AI-powered personas can help organizations:



Explore the possibilities of what lies ahead



Simulate realistic business environments



Minimize risk through scenario-based planning

Navigating blind spots: what if ...?

Like almost every technological breakthrough, cognitive cloud convergence comes with uncertainties:

Data privacy and security

What if giving users control over their data leads to new business models where users can actively participate in and even profit from data usage?

What if regional data privacy solutions become so effective and trusted that they inspire global standards, leading to unified regulations?

Environmental impact and sustainability

What if the cognitive cloud's commitment to eco-friendly practices sets new standards across the tech industry, giving eco-innovators a competitive edge?

What if high compliance costs encourage partnerships between tech and environmental organizations, resulting in shared green technologies that benefit multiple sectors?

Where to next?



Fuse AI and cloud computing

Embed cloud-AI synergy into core functions.



Capitalize on advances in cloud infrastructure

Adopt new infrastructure paradigms to improve agility, resilience and resource allocation.



Process data near its source

Leverage edge technologies and IoT, and incorporate real-time data analytics into cloud strategies.



Streamline and automate processes

Identify the workflow areas that would benefit most from automation.

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