ArangoDB

Plotting a New Solution for Network Management

Graph databases connect the dots for network operations teams.

manage, but they are increasingly important for business. Technicians and administrators can rethink how they approach their network management with a: graph database.

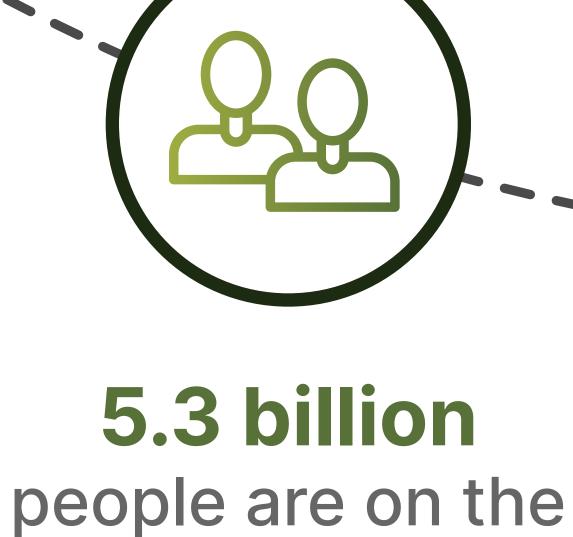
Enterprise networks are becoming more complex and difficult to

Connectivity has become a requirement for modern businesses. Digital

Reliable connectivity is essential in the digital age

interactions are now the norm, whether connecting with customers, employees, or other companies.

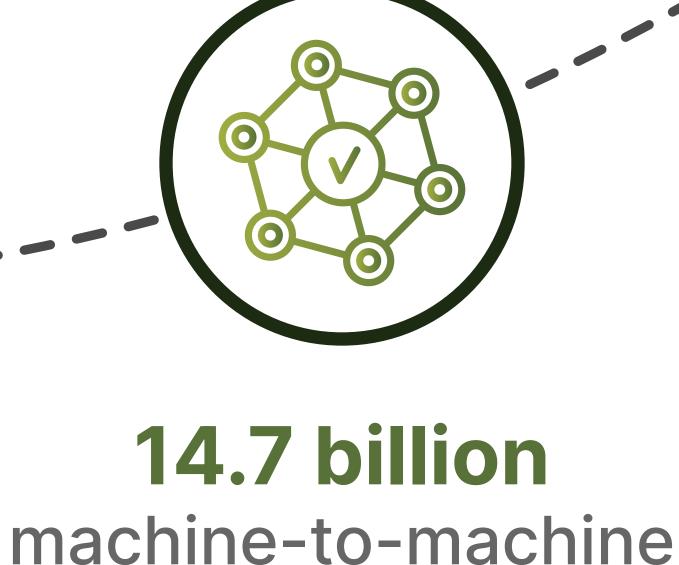
In 2023:



internet worldwide¹



devices per person are connected across the world¹



connections¹

To innovate and protect their assets, enterprises are embarking on initiatives that make their networks more difficult to manage.

Enterprise networks are only getting more complex

by using loT²

of organizations do not have

fully successful network

operations⁴

61%

of execs say they are

staying ahead of competitors

or plan to do so³ But due to ambitious goals and complex infrastructure, many network operations teams have been less than successful.

of all network problems

are caused by manual

administrative errors⁴

97%

of organizations have

implemented Zero Trust Security

73% 27%

is the graph database. But what does that mean?

How can a graph database help?

One tool that naturally lends itself to network management

Graph Database (noun)

An organized collection of information that efficiently

captures, visualizes and analyzes the relationships

(edges) between data (nodes). These nodes can

represent routers, servers, apps, etc.

Visibility Simplicity **Flexibility**

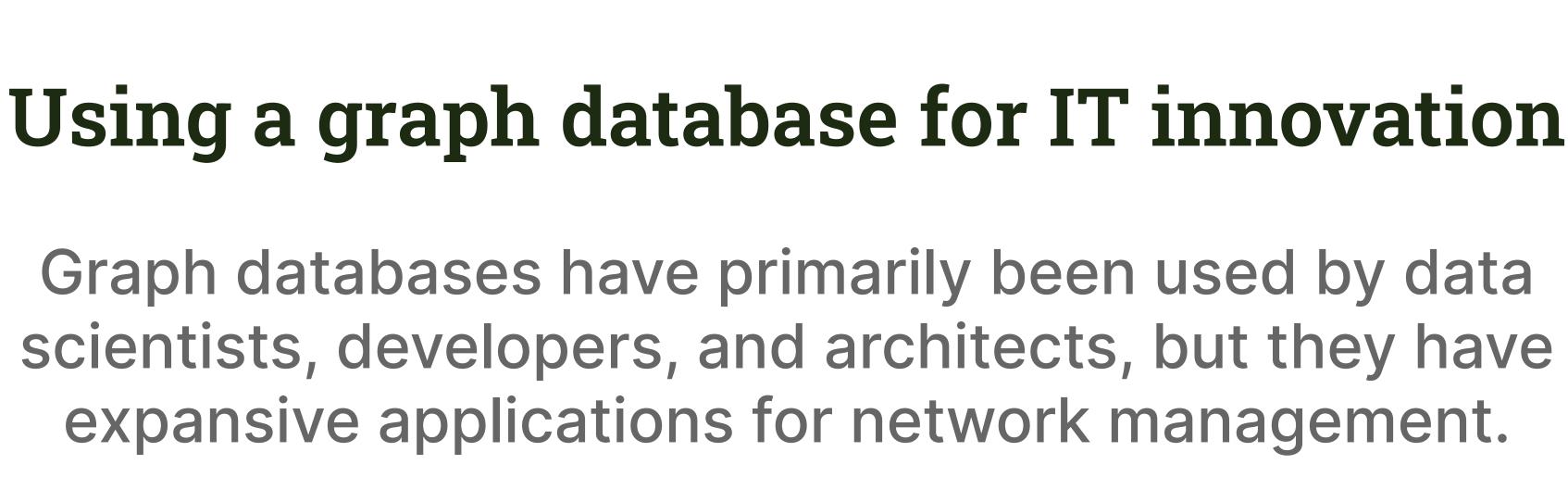
Power

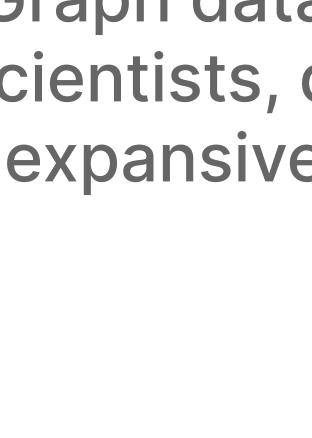
advantages for network operations teams over relational databases or legacy solutions. Benefits:

The format of nodes connected by edges resembles a

network configuration, so graph databases provide numerous

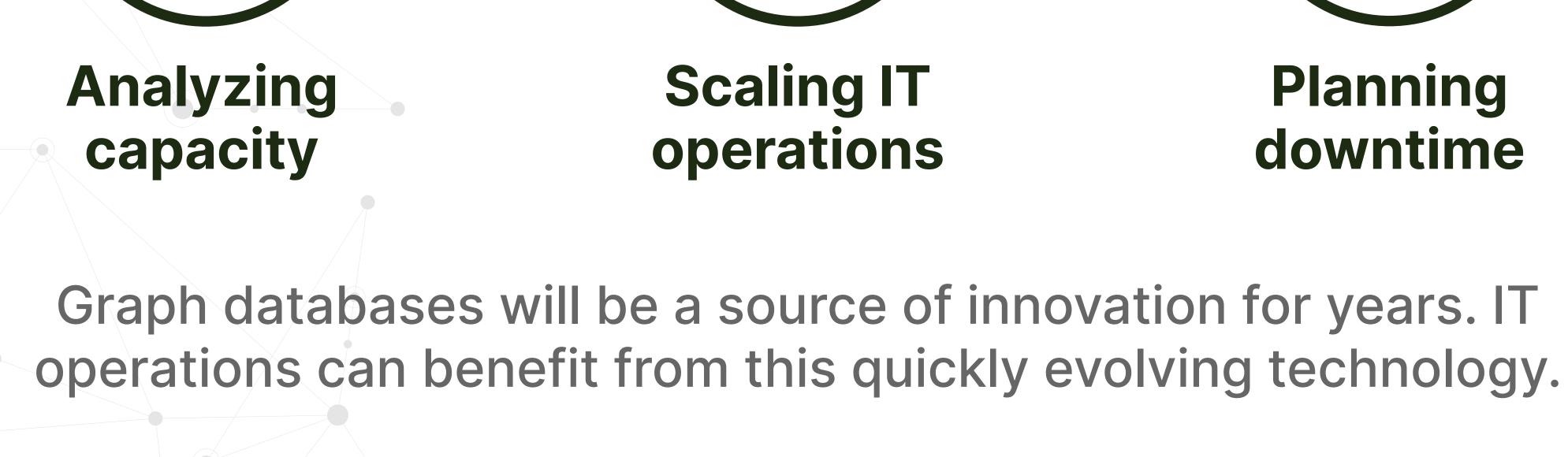






of data innovations will use graph

technologies by 2025⁵

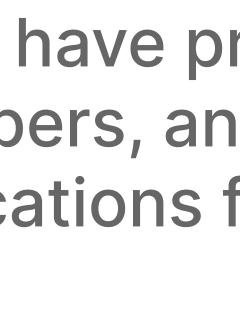


Sources

1 "Cisco Annual Internet Report," Cisco, March 9, 2020.

Troubleshooting

network errors



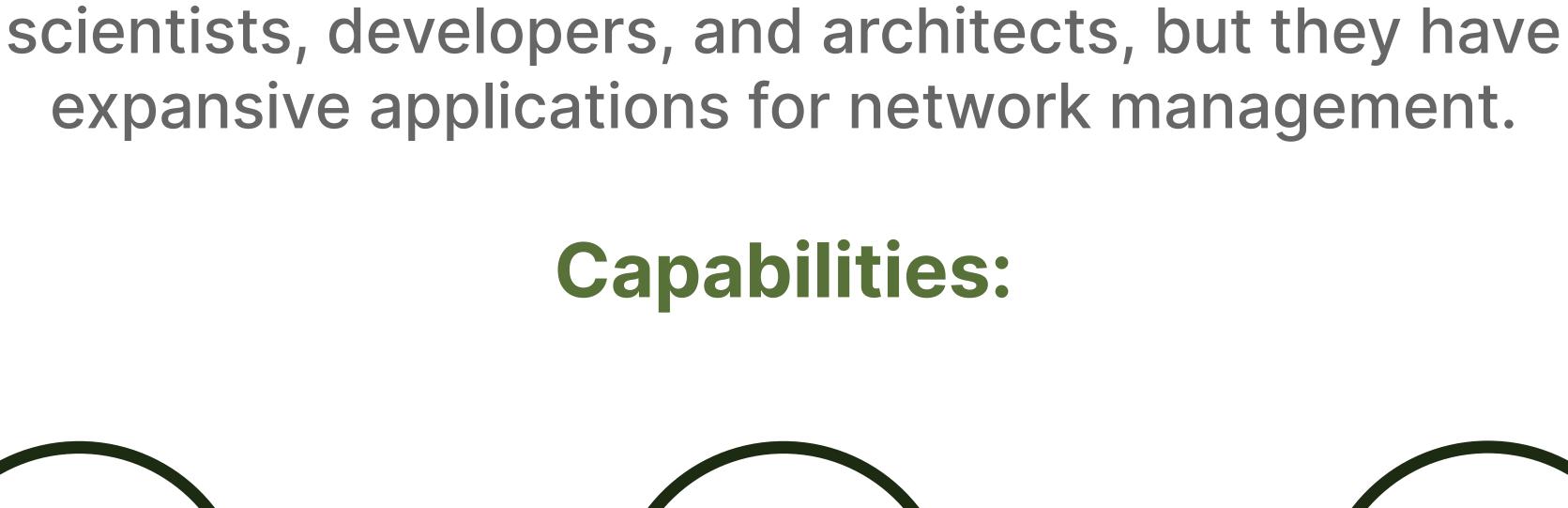
Efficiency

Capabilities:



Cataloging

assets



Optimizing infrastructure design

Planning downtime

Graph databases will be a source of innovation for years. IT

operations

technologies sector by 2030⁶

\$11.25 billion

valuation of the graph

ArangoDB helps companies innovate with a next-generation graph

data and analytics platform: ArangoGraph Insights Platform. ArangoGraph is a cloud-based graph data and analytics platform

that uncovers insights in data that are difficult or impossible

to obtain with traditional relational, document, or even other

graph databases. Learn how you can improve network

Powerful Insights from ArangoDB

management with insights from ArangoDB. Visit ArangoDB.com to Learn More

2 "2019 Internet of Things Survey," PwC, January 2020. https://www.pwc.com/us/en/products/connected-solutions.html 3 "The State of Zero Trust Security 2022," Okta, August 10, 2022. https://www.okta.com/resources/whitepaper-the-state-of-zero-trust-security-2022/ 4 McGillicuddy, Shamus, "Network Management Megatrends 2022: Navigating Multi-Cloud, IoT, and NetDevOps During a Labor Shortage," EMA, April 2022. https://www.broadcom.com/company/industry-analyst-report/ema-research-report-network-management-megatrends-navigating-multi-cloud-iot-and-netdevo ps-during-a-labor-shortage

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5 Avidon, Eric, "Gartner Predicts Exponential Growth of Graph Technology," TechTarget, October 5, 2021.

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