

# The IT Network Infrastructure Revolution in Healthcare

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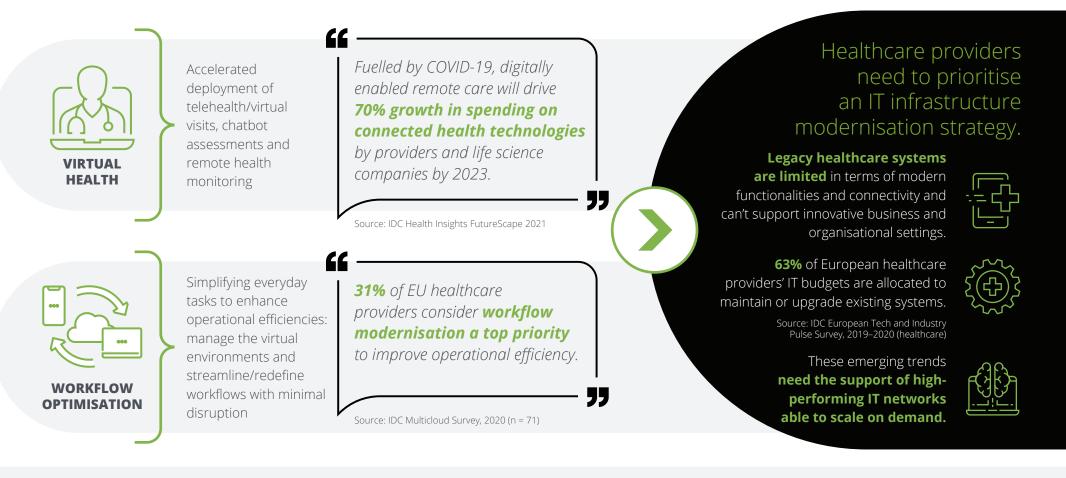
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## ACCELERATION OF IT NETWORK INFRASTRUCTURE MODERNISATION IS CRUCIAL TO STRIVE AND SURVIVE IN THE FUTURE OF HEALTHCARE

The pace of digital network modernisation has ramped up to address the emerging needs of the healthcare ecosystem, which a traditional legacy infrastructure cannot keep up with.





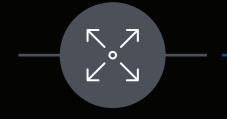


# A MODERN NETWORK INFRASTRUCTURE CREATES THE AGILITY REQUIRED FOR DIGITAL TRANSFORMATION

Healthcare organisations are focusing on their infrastructure modernisation to lay the foundation of a new digital healthcare ecosystem. Network modernisation will help healthcare providers deliver on their priorities and objectives. **Around 43% of European healthcare providers are investing in modern IT infrastructure.** 

Complete visibility into the network user's experience, along with Al-driven troubleshooting tools to speed problem resolution, made Juniper Mist the right choice for Queen Elisabeth Institute.

Stefaan Dewulf, IT architect, KEI





FLEXIBILITY

Keeping pace with a rapidly changing environment to include innovative technologies and support any service both clinical and administrative



Increasing access to clinical data at the point of care when needed to improve resilience and business continuity requirements

# TO T

#### **OPTIMISATION**

Managing a vast amount of data quickly, as well as data transition and delivery, to activate the workflow through applications for clinicians, patients and administration

#### EFFICIENCY

Simplifying network management and keeping TCOs in control, for example by reducing the number of switches in the datacentre to deliver operational savings

### SECURITY

Moving workloads to the cloud to separate applications with different security requirements

**410**<sup>60</sup> "We will invest in technology to close gaps in our digital transformation efforts." **50%** "Having a digitally resilient organisation will help us introduce new business model innovation."

**31%** of EU HCOs prioritise the modernisation of traditional workloads. **28%** of EU HCOs prioritise the modernisation of datacentre infrastructure to improve operations.

IDC Multicloud Survey, 2020 (n = 71)

**29%** of EU HCOs have approved security investment to meet new operational norms after COVID-19.





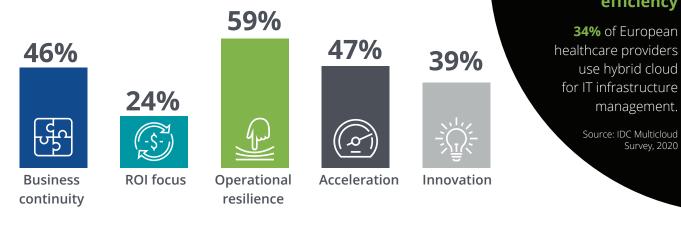
# CLOUD-BASED NETWORKING ENSURES HIGHER **RESILIENCE AND BUSINESS CONTINUITY WHILE** CONNECTING AND SECURING APPLICATIONS END TO

### Healthcare organisations are increasingly considering cloud when:

- Upgrading, expanding or replacing datacentres
- Modernising, transforming or replatforming key applications 0
- Business demands more agility or speed from IT 0

This is supporting every business need across the journey to resilience and digital transformation.

### % of healthcare organisations considering cloud as a key technology across the different stages of return to growth and innovation



To gain efficiencies, optimise workflows, lower the costs associated with healthcare delivery and offer personalisation in care plans to improve outcomes.



**Cloud networking** 

for operational

34% of European

use hybrid cloud

management.

Survey, 2020

Source: IDC Multicloud

efficiency

### **Cloud networking** for workforce experience

healthcare providers have adopted cloud-based productivity platforms to improve workforce experience.

Source: IDC EMEA Future of

63% of European

Work Survey, 2019



#### **Cloud networking** for patient experience

30% of European

healthcare providers have adopted cloud networking for patient data specific solutions (EHR, medical imaging, medical information exchange).

> Source: IDC European Tech and Industry Pulse Survey, 2019-2020 (healthcare)





## SECURITY BY DESIGN TACKLES CHALLENGE OF GETTING THE BALANCE RIGHT BETWEEN COMPLIANCE AND BUSINESS TRANSFORMATION

Infrastructures need to be fit for purpose, supporting clinical workflows and patient experience. At the same time, they need to support compliance to data regulations, keep patient information safe and build trust. To get this balance right, healthcare organisations need to adopt a new layered approach to security to enable scalability, intelligence and automation.

### Key aspects of layered network security technology should include:



**Endpoint security** to manage vulnerabilities for individual devices



**Containerisation** to prevent threats spreading rapidly once they have gained access to the network The nature of cybersecurity threats is changing. Hackers are using AI and ML to create more sophisticated, automated attacks. Digital transformation is further changing cybersecurity requirements, resulting in greater complexity and a perimeter that is disappearing, and all at an accelerating pace.

b **Identity management** to authenticate users and control access



### Trust management

to address the fact that users and resources can reside outside the network perimeter



Secure data exchange to safeguard data in motion



A software-defined architecture to provide the speed required to keep up with digital transformation Healthcare IT executives are looking for solutions to address this complexity and help them become more proactive in managing security risks. In their security strategy:



**39%** of healthcare organisations will prioritise security automation and orchestration.



**29%** of healthcare organisations will prioritise the rationalisation of security tool environments.



