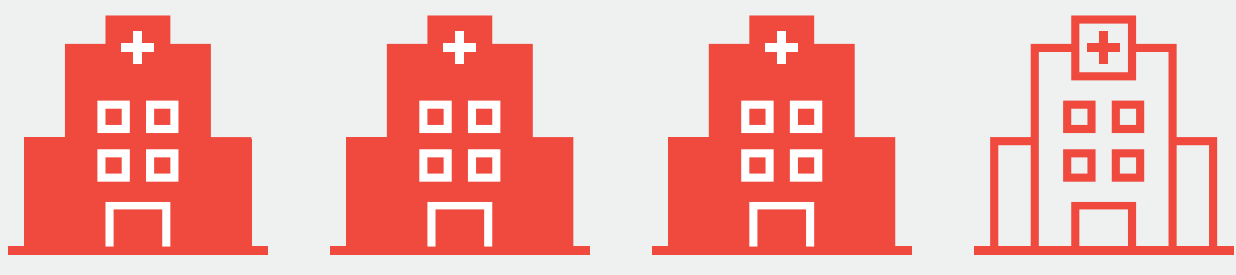# IRIS NETWORKS
Powered by ciena

The Need for Healthcare Network Optimization

As the care delivery model continues to shift and expand, healthcare systems and hospital leaders will expect CIOs to keep them apprised of digital transformation and evolving innovation.

Your Investment

3 out of 4
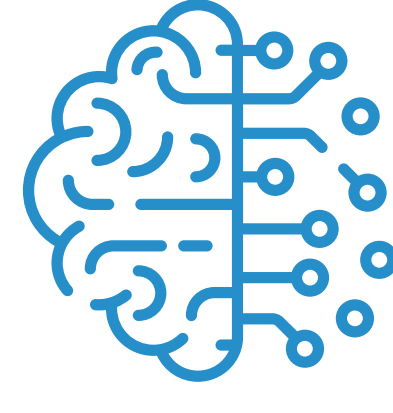healthcare systems are prioritizing digital transformation right now[1]

Security

$9.3M
average cost of a data breach[2]

5G

66% of hospitals
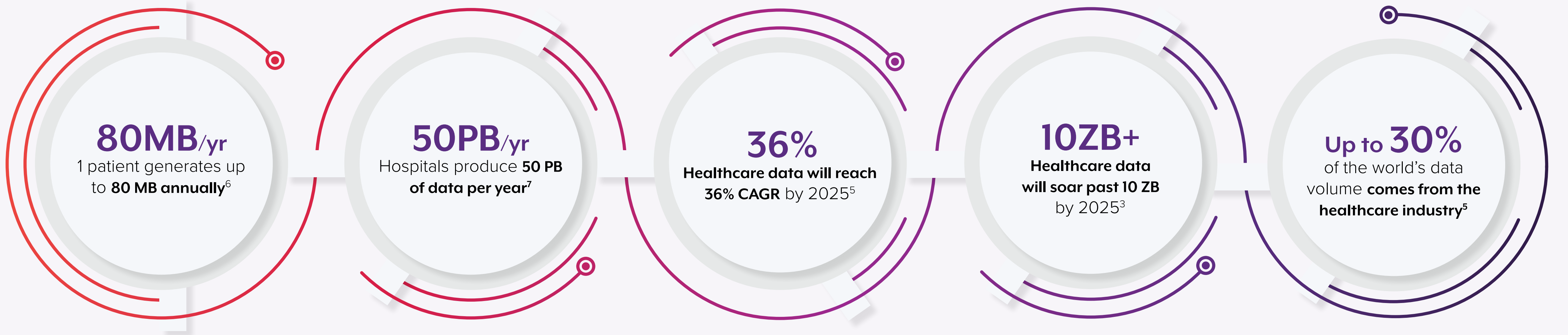will be 5G enabled in less than 5 years[3]

AI

75%+ of clinicians
are already using AI or will be very soon[1]

Outages

$208,600 avg.
amount of lost profits due to down time[4]

Data Volumes

80MB/yr
1 patient generates up to 80 MB annually[6]

50PB/yr
Hospitals produce **50 PB** of data per year[7]

36%
Healthcare data will reach **36% CAGR** by 2025[5]

10ZB+
Healthcare data will soar past 10 ZB by 2025[3]

Up to 30%
of the world's data volume **comes from the healthcare industry**[5]

Bandwidth for Clinical Applications

DBT images can range from **450 MB to 3 GB**[8]

A single CT scan data set can reach **up to 30 GB**[8]

~200 MB avg. cardiac MRI exam[9]

~20 GB avg. ViosWorks exam[9]

USE CASE
Improved Mortality Rates

A multi-facility hospital system upgraded its core network from 1 Gbps to 10 Gbps to support the bandwidth needs of a new remote emergency room patient video monitoring application, which slashed **annual emergency room mortality rates by 40%.**[10]

USE CASE
Cost Savings

A healthcare system replaced physical routers, firewalls and other devices with virtualized network functions across all existing and new affiliated physician offices. **After doing so, it now expects to save $3M.**[10]

[1]HIMSS
[2]Ponemon Institute
[3]IDC
[4]Helpnet Security
[5]RBC Capital Markets
[6]Fierce Healthcare
[7]Frontiers in ITC
[8]Purview
[9]Diagnostic and Interventional Cardiology
[10]Ciena

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