

What Gartner's 2025 Tech Trends Mean for Healthcare Gartner has announced its **Top 10 Strategic Technology Trends for 2025**

to help IT leaders forge safely into the future. Join us as we dive into this year's list through a healthcare lens, along with actionable steps for each category.

What are they? Autonomous AI systems that are

Agentic Al

actions to achieve pre-defined goals.

What do they mean for healthcare? Al agents can function much like a human healthcare professional—learn, solve

the added ability to crunch massive

capable of making plans and taking

- Tom Coshow, Senior Director Analyst at Gartner **Remote Patient**

competent teammate by providing insights from derivative events that are often not visible to human teammates."

Agentic AI has the potential to perform as a highly

volumes of medical data.

What you can do your organization always gets a foot in the door.

problems, and make decisions—but with





powered agent for data analysis, before committing to full-scale implementation.

+ Pilot agentic AI solutions: Begin with targeted pilot projects, such as the emerging LLM-

Al Governance Platforms

What are they?

of their AI technologies.



What do they mean for healthcare? Gartner predicts that by 2028, enterprises using Al governance platforms will have 30% higher

Systems that help organizations oversee and

manage the ethical, legal, and operational aspects

customer trust ratings.

In healthcare where patients demand the highest level of trust from AI as it directly impacts their lives —that metric will be the key to your success.

+ Al governance training: Build in-house Al governance expertise or partner with experts to train

What are they?

Disinformation Security

- Security solutions that detect and prevent the spread of
- disinformation and help people decide what to trust.

+ Seek assurance from vendors: Ensure your technology vendors are equipped to defend against deepfake attacks. If they can't demonstrate strong detection capabilities, consider it a red flag.

What you can do

during the COVID-19 pandemic. For healthcare

reputation could be on the line too.

What do they mean for healthcare?

Health disinformation has significantly damaged public health efforts, as seen with the anti-vaccine movement

organizations, it's not just public health at risk—your

What are they? Cryptographic algorithms that are secure against



the potential threats posed by quantum computers.

What do they mean for healthcare?

attacks capable in a period of time.

What you can do

Healthcare relies on encryption to protect sensitive information, but quantum computing threatens traditional methods due to the sheer volume of

Scott Crowder, VP of IBM's quantum-safe adoption team, introduced his three-step



What are they?

capturing investors' attention.

Seek help from technology experts

invisible intelligence through these

to start implementing ambient

What you can do

to sustainability.

What are thev?

computational problems.

Hybrid Computing

Combining different computing, storage, and network mechanisms—such as CPUs, GPUs, edge devices as well as quantum and photonic systems—to solve

What do they mean for healthcare?

power provided by the hybrid infrastructure.

As healthcare organizations implement more AI use cases,

they will need the flexibility, scalability, and computing

promising applications:

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process to achieve post-quantum safety:

security of your cryptographic implementations, pinpointing areas susceptible to

What do they mean for healthcare? Think smart beds that adjust to patient movements and wearables tracking vital signs—these are some innovations of ambient invisible intelligence that are

AI-Powered

Charting Tools

Context-Aware IoT

Systems



Ambient Clinical

(ACI)

Energy-efficient Computing

other digital systems in ways that minimize energy

What do they mean for healthcare?

While blockchain has sounded the alarm on energy

demands, AI is the tidal wave. Consumers today require

consumption and carbon footprint.

Ambient

Assisted Living

Systems

💙 What you can do

Using small, low-cost sensors and tags to track the

location and status of various objects and environments.

What are they? Designing and operating computers, data centers, and





+ **Upgrade to energy-efficient hardware:** Invest in servers and devices designed for lower power usage without compromising performance. + Contract with greener providers: Choose technology providers who are committed

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What you can do

Clinicians Employ AR and VR for surgical planning, allowing them to

visualize complex anatomies in

What you can do

3D before procedures.

+ Plan for integration: Update your current infrastructure to ensure compatibility with

healthcare tasks, such as:

Transportation

Robots

Connected systems interop

Rehabilitation



tip the balance.

+ Enable clinician experimentation: Know that spatial computing is still in its experimental phase. Give clinicians hands-on access to uncover practical uses within clinical environments. emerging spatial computing innovations like virtual reality lenses.

Patients

Benefit from immersive

therapy for phobias.

therapies for mental health

conditions, such as exposure

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10 Neurological Enhancement

Merging the physical and digital realities using technologies like augmented or virtual reality to

Medical students

Engage with interactive

human anatomy and

surgical techniques.

simulations to better study

offer immersive experiences.

+ Make wise investments: Identify tasks that can be fully transitioned to robots or shared

between humans and robots. Even if the cost seems high at first, the automation value will + Bring in expertise: Build local or hire external expertise in robotology to ensure polyfunctional robots can be easily repurposed and adapted to meet changing needs.

Robotic Surgical

Assistant

Prescription

Dispensing

Robots

KMS Healthcare is here to help you leverage these trends into your

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information, especially from unauthorized wearables and implantables. + Start with early pilots: Launch small-scale pilots with wearables to explore where neurological

to the brain. What do they mean for healthcare? The FDA's approval of human trials for implantable brain chips has pushed neurotechnology into the mainstream, and we may soon see the rise of brain augmentation applications.

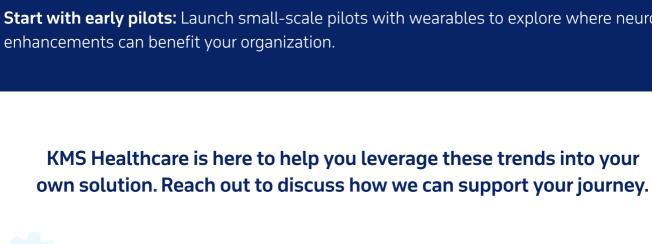
+ Advocate for privacy policy: Enforce data anonymity and privacy policies to protect patient



What do they mean for healthcare?

Polyfunctional Robots What are they? Robots that are capable of performing multiple tasks and seamlessly switching between them as required. What do they mean for healthcare? The marriage between robotics and AI has just begun and will soon create "children" capable of performing multiple

What are they? Improving human cognitive abilities using technologies that read and decode brain activity and optionally write



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What you can do

Contact KMS Healthcare at:

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