

## 14.5: Summary

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Information systems continue advancing at an exponential pace, bringing emerging technologies with new capabilities and disruptions. Several accelerating trends are colliding, including ubiquitous connectivity, vast data generation, improved infrastructure, and new analytics techniques.

Key innovations highlight the technological horizons ahead. Quantum computing promises new computational power by leveraging quantum bits and phenomena like superposition. Blockchain facilitates decentralized, transparent digital transactions and asset tracking. Artificial intelligence is automating cognitive tasks in diverse domains through innovations in machine learning. The Internet of Things embeds connectivity and intelligence into devices and infrastructure.

Adoption of these advances is spreading rapidly. However, prudent governance is required to ensure ethical alignment and responsible innovation. By thoughtfully integrating breakthroughs, organizations can enhance products, services and decisions. But wisdom must accompany technological ingenuity to craft an equitable digital future benefitting all. This chapter illuminated information systems' emerging landscape so we can proactively shape tomorrow.

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