

gartner hype cycle 2023 emerging technologies

****Exploring the Gartner Hype Cycle 2023 Emerging Technologies: What's Shaping Our Future****

gartner hype cycle 2023 emerging technologies offers an insightful roadmap into the innovation landscape, revealing which technologies are gaining traction, which are still in their infancy, and which might be overhyped. Every year, Gartner's Hype Cycle provides businesses, investors, and tech enthusiasts with a snapshot of where emerging technologies stand in terms of maturity, adoption, and real-world impact. Understanding this cycle can help organizations make smarter strategic decisions and prepare for the digital future more effectively.

In this article, we'll dive deep into the most notable trends and technologies featured in the Gartner Hype Cycle 2023, unpacking what they mean for industries across the board. Whether you're curious about artificial intelligence breakthroughs, next-gen connectivity, or the rise of immersive experiences, the 2023 report has plenty to unpack.

What Is the Gartner Hype Cycle and Why Does It Matter?

Before jumping into the specifics of this year's emerging technologies, it's important to grasp what the Gartner Hype Cycle actually represents. At its core, the Hype Cycle is a graphical representation that tracks the maturity and adoption of new technologies through five distinct phases:

- **Innovation Trigger:** Early proof-of-concept breakthroughs that spark interest.
- **Peak of Inflated Expectations:** Heightened excitement often accompanied by unrealistic predictions.
- **Trough of Disillusionment:** When early failures or limitations become apparent, enthusiasm dips.
- **Slope of Enlightenment:** Practical applications emerge, and the technology starts gaining traction.
- **Plateau of Productivity:** Widespread adoption and proven benefits solidify the technology's value.

By mapping technologies along this curve, Gartner helps stakeholders identify which innovations are ready for investment and which require more patience and development.

The 2023 edition is particularly fascinating because it highlights how emerging tech is evolving post-pandemic and amid rapid digital transformation worldwide.

Key Highlights from the Gartner Hype Cycle 2023 Emerging Technologies

The 2023 report shines a spotlight on several groundbreaking technologies that are poised to disrupt various sectors. Here are some of the standout trends and where they currently sit on the hype cycle:

1. Generative AI and Large Language Models

One of the most talked-about technologies this year is generative artificial intelligence, especially large language models (LLMs) like GPT and their successors. These tools have moved past the peak of inflated expectations toward the slope of enlightenment, as businesses increasingly find practical use cases in content creation, customer service, and even software development.

The rise of generative AI is transforming how organizations automate complex tasks and augment human creativity. However, ethical concerns and the need for regulation remain part of the ongoing conversation, illustrating the mixed reality of this technology's maturity.

2. Quantum Computing Advances

Quantum computing continues to be a technology with enormous potential but remains largely in the innovation trigger phase. While recent breakthroughs in quantum hardware and error correction have accelerated progress, widespread commercial applications are still years away.

This year's hype cycle emphasizes the importance of staying informed about quantum developments, as industries like pharmaceuticals, finance, and logistics could see revolutionary changes once quantum becomes more accessible.

3. Extended Reality (XR) and the Metaverse

Extended reality, encompassing virtual reality (VR), augmented reality (AR), and mixed reality (MR), remains a hot topic. The 2023 hype cycle positions XR technologies around the trough of disillusionment, reflecting the challenges in creating seamless and scalable metaverse experiences.

Despite some setbacks, investments in XR hardware, immersive content, and spatial

computing suggest that this sector is inching toward the slope of enlightenment. Companies embracing XR for training, collaboration, and entertainment are setting the stage for broader adoption.

4. Digital Twins and Simulation

Digital twins—virtual replicas of physical objects or systems—are gaining momentum as valuable tools for real-time monitoring and predictive maintenance. This technology is moving towards the plateau of productivity in industries like manufacturing, smart cities, and energy management.

By integrating IoT data and advanced analytics, digital twins help organizations optimize operations, reduce downtime, and improve decision-making, making them a prime example of tangible ROI from emerging tech.

5. Autonomous Systems and Robotics

Autonomous vehicles, drones, and robotic process automation (RPA) are steadily progressing through the hype cycle. While certain applications like industrial robots are well-established, autonomous systems in logistics and delivery are still navigating the trough of disillusionment due to regulatory hurdles and technical challenges.

The 2023 report encourages businesses to monitor developments closely, as advancements in AI and sensor technologies continue to push autonomous capabilities forward.

How to Leverage Insights from the Gartner Hype Cycle 2023 Emerging Technologies

Understanding where a technology lies on the Gartner Hype Cycle can empower decision-makers to allocate resources wisely and time their market entries more effectively. Here are some practical tips on leveraging these insights:

Align Innovation Initiatives with Organizational Goals

Not every emerging technology will fit your company's strategy or customer needs. Use the hype cycle to identify which innovations align with your long-term objectives and focus pilot projects accordingly. For example, if improving customer engagement is a priority, exploring generative AI applications may be more relevant than investing heavily in quantum computing at this stage.

Balance Risk and Reward

The hype cycle highlights where technologies might be overhyped or underappreciated. Being cautious with technologies at the peak of inflated expectations can prevent wasted investments, while exploring those in the trough of disillusionment might reveal hidden opportunities for early adopters willing to experiment.

Foster a Culture of Continuous Learning

Emerging technologies evolve rapidly. Organizations that encourage ongoing education and cross-functional collaboration will be better positioned to adapt as technologies mature. Attending industry conferences, engaging with vendor roadmaps, and participating in innovation labs can keep teams informed and agile.

The Broader Impact of Gartner Hype Cycle 2023 on Industry Innovation

The influence of the Gartner Hype Cycle extends beyond tech companies—it shapes how sectors like healthcare, finance, manufacturing, and retail approach digital transformation. For instance, healthcare providers are exploring AI-driven diagnostics and digital twins to enhance patient care, while financial institutions investigate blockchain and decentralized finance (DeFi) applications.

Moreover, sustainability-focused innovations such as green hydrogen and energy storage solutions feature prominently in the 2023 cycle, reflecting growing environmental priorities. This intersection of technology and sustainability underscores the dynamic nature of emerging tech trends and their societal implications.

Emerging Technologies Driving Sustainable Innovation

Sustainability continues to be a critical theme, with technologies like advanced energy storage, carbon capture, and reusable rocket technology entering various phases of the hype cycle. Companies eager to meet ESG (Environmental, Social, and Governance) targets can look to these innovations for future-proofing their operations and reducing environmental impact.

Preparing for the Next Wave of Digital Disruption

As the Gartner Hype Cycle 2023 emerging technologies reveal, the pace of change is accelerating. Keeping an eye on nascent trends such as neuromorphic computing, programmable matter, and AI-enabled cybersecurity can provide competitive advantages before these technologies reach mainstream adoption.

Adopting a proactive approach toward these emerging tools can help businesses navigate uncertainty and capitalize on new growth avenues as they evolve.

The insights from the Gartner Hype Cycle 2023 emerging technologies offer a valuable compass for navigating the complex world of innovation. By understanding where technologies stand today and anticipating their trajectories, organizations can make more informed decisions, mitigate risks, and harness the transformative power of tomorrow's breakthroughs. Whether you're leading a startup or steering a global enterprise, staying engaged with these evolving trends can unlock new possibilities and drive sustainable success in an ever-changing digital landscape.

Frequently Asked Questions

What is the Gartner Hype Cycle 2023 for Emerging Technologies?

The Gartner Hype Cycle 2023 for Emerging Technologies is an annual report that maps the maturity, adoption, and social application of specific technologies, helping organizations understand the potential impact and timing of emerging innovations.

Which emerging technologies are featured in the Gartner Hype Cycle 2023?

The 2023 Hype Cycle highlights technologies such as generative AI, autonomous driving, quantum computing, AI-driven cybersecurity, digital twins, 5G evolution, extended reality (XR), and blockchain advancements.

What stage is generative AI in according to Gartner Hype Cycle 2023?

Generative AI is placed near the Peak of Inflated Expectations, indicating high visibility and excitement but also some skepticism and inflated expectations before mainstream adoption.

How can organizations use the Gartner Hype Cycle 2023 for strategic planning?

Organizations can use the Hype Cycle to identify which emerging technologies are gaining traction, assess potential risks and benefits, and time their investments and innovation initiatives effectively to maximize competitive advantage.

What does the 'Trough of Disillusionment' signify in the Gartner Hype Cycle 2023?

The 'Trough of Disillusionment' represents a phase where interest in a technology wanes as it fails to meet inflated expectations, leading to disappointment before the technology matures and finds practical use cases.

Are quantum computing technologies progressing according to Gartner Hype Cycle 2023?

Quantum computing remains in the Innovation Trigger phase, indicating early research and experimental development, with significant potential but limited practical applications currently available.

How does the 2023 Hype Cycle address AI-driven cybersecurity?

AI-driven cybersecurity is moving past the Peak of Inflated Expectations towards the Slope of Enlightenment, as organizations begin to realize practical benefits and implement these solutions for enhanced threat detection and response.

What role do digital twins play in the Gartner Hype Cycle 2023?

Digital twins are positioned in the Slope of Enlightenment, reflecting growing adoption as industries leverage virtual models for simulation, optimization, and predictive maintenance in manufacturing, smart cities, and healthcare.

How has 5G technology evolved in the Gartner Hype Cycle 2023?

5G technology is moving into the Plateau of Productivity stage, signifying mainstream adoption, widespread deployment, and established use cases across telecommunications, IoT, and enhanced mobile experiences.

Additional Resources

****Gartner Hype Cycle 2023 Emerging Technologies: A Deep Dive into the Future of Innovation****

gartner hype cycle 2023 emerging technologies offers a revealing snapshot of the most promising and transformative technologies poised to reshape industries across the globe. Every year, Gartner's Hype Cycle provides a comprehensive framework for understanding the maturity and adoption trajectory of new technologies, helping businesses and investors make informed decisions amid a rapidly evolving tech landscape. The 2023 iteration continues to spotlight breakthroughs, tempered by realistic

assessments of their readiness and potential impact.

The Gartner Hype Cycle uniquely captures the lifecycle of innovation — from initial excitement through inflated expectations, disillusionment, and eventual productive deployment. By examining the 2023 edition, professionals can grasp which emerging technologies are nearing mainstream adoption, which remain speculative, and how various sectors might benefit or face disruption in the near future.

Understanding the Gartner Hype Cycle Framework

At its core, the Gartner Hype Cycle maps technologies along five key phases: the Innovation Trigger, Peak of Inflated Expectations, Trough of Disillusionment, Slope of Enlightenment, and Plateau of Productivity. This model serves as a critical tool for strategic planning and investment prioritization, especially in the fast-paced realm of emerging technologies.

In 2023, Gartner's report reflects the broader shifts in global technology trends — emphasizing sustainability, AI advancements, and digital transformation. The framework not only indicates the hype surrounding these technologies but also integrates practical timelines and adoption challenges.

Key Stages in the 2023 Hype Cycle

- **Innovation Trigger:** Technologies at this stage are in their infancy, often backed by initial research breakthroughs or prototypes. Examples include quantum machine learning and AI-augmented software engineering.
- **Peak of Inflated Expectations:** Technologies here generate significant buzz, often leading to unrealistic expectations. Generative AI and autonomous vehicles exemplify this phase in 2023.
- **Trough of Disillusionment:** After initial hype fades, these technologies face setbacks or slower adoption. Blockchain's application beyond cryptocurrencies is often cited in this category.
- **Slope of Enlightenment:** Practical implementations and understanding improve, as seen with edge computing and digital twins gaining traction.
- **Plateau of Productivity:** Mature technologies with proven value and widespread adoption occupy this phase, such as cloud computing and cybersecurity automation.

Top Emerging Technologies in Gartner Hype Cycle 2023

The 2023 report highlights several innovations that promise to redefine markets and consumer behaviors. These technologies are assessed not just for their novelty but for their realistic potential to scale and integrate into existing systems.

1. Generative AI and AI-Enhanced Automation

Perhaps the most talked-about in 2023, generative AI technologies, including large language models and AI-driven content creation tools, have surged into the Peak of Inflated Expectations. While the capabilities of generative AI are impressive—enabling automated text generation, image synthesis, and complex problem-solving—there remain concerns about ethical use, data bias, and regulatory compliance.

AI-enhanced automation is simultaneously transforming workflows across industries, promising efficiency gains but also raising questions about workforce displacement. Gartner's analysis suggests cautious optimism, emphasizing the need for robust governance frameworks alongside innovation.

2. Quantum Computing and Quantum Machine Learning

Quantum technologies continue their slow but steady march through the Innovation Trigger phase. Quantum machine learning, in particular, merges quantum computing's potential with AI, aiming to solve problems beyond classical capabilities. However, practical quantum advantage remains elusive, with significant technical and infrastructural hurdles delaying widespread deployment.

Despite these challenges, industries such as pharmaceuticals and finance are investing heavily, anticipating breakthroughs that could revolutionize drug discovery and risk analysis.

3. Digital Twins and Metaverse Technologies

Digital twins—virtual replicas of physical assets or systems—are advancing along the Slope of Enlightenment as organizations deploy them for predictive maintenance, urban planning, and supply chain optimization. In parallel, metaverse technologies, while still straddling the Peak of Inflated Expectations, are pushing boundaries in virtual collaboration and immersive experiences.

The Gartner hype cycle 2023 emerging technologies report notes that the integration of digital twins and metaverse platforms could underpin the next wave of digital transformation, especially in manufacturing, real estate, and entertainment sectors.

4. Sustainable Tech and Green IT Innovations

Sustainability remains a core theme, with green IT and climate tech innovations gaining momentum. Energy-efficient data centers, carbon capture technologies, and AI-driven sustainability analytics are all present within the hype cycle, often in the early to mid-stages of maturity.

These technologies are driven by regulatory pressures and corporate responsibility initiatives, but their commercial viability and scalability vary widely. Gartner's insights suggest that sustainable tech will increasingly influence technology strategies and investment decisions.

Industry Implications and Strategic Takeaways

The Gartner Hype Cycle 2023 emerging technologies provide a valuable lens for industries grappling with digital disruption. Understanding where a technology sits on the hype cycle can guide resource allocation, risk management, and innovation roadmaps.

For example, sectors like healthcare and finance are focusing on AI's practical applications, balancing innovation with compliance requirements. Meanwhile, manufacturing and logistics are leveraging digital twins and edge computing to enhance operational resilience.

Balancing Innovation with Realism

One of the critical messages from the Gartner hype cycle is the need to temper enthusiasm with pragmatic assessment. Technologies in the Peak of Inflated Expectations often attract heavy investment but may not deliver immediate returns, necessitating a long-term perspective.

Conversely, mature technologies on the Plateau of Productivity represent safer bets for digital transformation initiatives but might offer incremental rather than disruptive advantages. Organizations must align their technology adoption strategies with their unique risk appetites and business goals.

Emerging Technologies to Watch Beyond 2023

While the Gartner hype cycle 2023 emerging technologies highlights current trends, several nascent fields warrant attention for the coming years:

- **Neuromorphic Computing:** Mimicking brain architecture to achieve energy-efficient AI processing.

- **Advanced Biotechnologies:** Gene editing and synthetic biology poised to revolutionize healthcare and agriculture.
- **Decentralized Finance (DeFi):** Beyond blockchain, enabling new financial ecosystems with greater transparency.

These areas remain mostly in the Innovation Trigger or early hype phases but could become mainstream within a decade.

The Gartner hype cycle 2023 emerging technologies report ultimately serves as both a reality check and a forward-looking guide. It encourages stakeholders to embrace innovation thoughtfully, balancing potential gains with inherent uncertainties. As digital transformation accelerates, understanding these technology cycles will be crucial for staying competitive in an increasingly complex ecosystem.

[Gartner Hype Cycle 2023 Emerging Technologies](#)

gartner hype cycle 2023 emerging technologies: *From Emerging Technologies to Business Opportunities* Amy Van Looy, 2024-07-03 This book provides an up-to-date overview and critical discussion of technologies that shape and influence the digital economy, and especially covers artificial intelligence, Internet of Things, virtual and augmented reality, digital twins, blockchain technology, 3D printing, and biochip technology. After two introductory chapters about the digital economy and digital technologies in general, dedicated chapters explain the basics and foundations of each of the selected technologies as well as their potential for industry and services. To this end, these chapters first introduce the specific digital technology, followed by one interview with an academic expert for further describing and explaining the technology plus a second one with a business expert for illustrating a successful business case. Each chapter ends with a recap of the takeaways, supplemented by links to further readings for those who are eager to delve more into the relative topic as well as a self-test to challenge the reader's understanding. The book mainly targets business professionals and advanced undergraduate students in business and computer science. Business professionals (ranging from employees to managers and executives) will become acquainted with the basic terminology and diverse business aspects related to emerging digital technologies. They will benefit from descriptions by academic leaders in the field along with information and advice from industry people. Students will get an overview of the most important technologies which may also help them in selecting the most promising topics in their further education.

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gartner hype cycle 2023 emerging technologies: [The Evolution of Professional Training](#) Matteo Zaralli, 2025-05-23 Structured into three distinct parts, this book is an indispensable resource for navigating the evolution of education and professional training in the age of artificial intelligence (AI) and virtual reality. The book's Introduction speaks to the current context, a period marked by crisis and a digital industrial revolution, emphasizing how the advent of cutting-edge technologies such as artificial intelligence is fundamentally altering work and social dynamics. It

then examines AI, exploring its distinctive features compared to human intelligence and introducing the concept of spatial computing. It illustrates how these technological advancements are expanding the possibilities for human-machine interaction. In the first part, the focus shifts to artificial intelligence, the importance of data in training intelligent systems, and the emerging concept of the augmented worker. This section explores how AI can enhance human capabilities, facilitate more efficient and personalized learning or training, and promote unprecedented professional development. The second part ventures into philosophical reflections and ethical considerations regarding the future of work and AI's impact on daily reality. It discusses the changing work paradigm, the challenges posed by increasing digitalization, how AI contributes to an altered perception of truth, and the implications of the multiple digital identities that people can assume in virtual spaces. A task and reflection that businessmen, executives, and managers need to consider. Finally, the third part emphasizes the critical importance of training, examining how virtual reality and artificial intelligence technologies can accelerate the learning and mastery of hard and soft skills. This section delves into the different sectors that have been or will be transformed by these technologies' integration, offering perspectives on how best to prepare for the challenges and opportunities of the future. This book is not just an analysis of the impact of emerging technologies on learning and professional development; it is also an invitation to reflect on the future of work, the nature of intelligence, and the evolution of human society in the digital age. Balancing technical insights with philosophical considerations, it targets a broad audience, from educators to professionals, policymakers to the curious, providing tools to understand and navigate the rapid transformations of our time.

gartner hype cycle 2023 emerging technologies: Reskilling the Workforce for Technological Advancement Meçik, Oytun, 2024-02-19 The modern workforce is continually evolving, presenting an ongoing challenge to business stakeholders, from workers to administration. Technological advancements, shifting consumer preferences, and the ever-changing global economic landscape have set the stage for a resounding conundrum. How can workers, employers, and society adapt to this rapidly transforming environment? Reskilling the Workforce for Technological Advancement presents an answer in the concept of reskilling existing workforces. As highlighted in the book, reskilling offers a path to not only address the challenges faced by individuals but also to propel businesses and society forward. The first issue at hand is the need for workers to continually develop new skills and adapt to new roles in response to technological advancements. Reskilling the Workforce for Technological Advancement presents a compelling solution by outlining how reskilling can open to new career opportunities, boost earning potential, and provide the necessary tools for individuals to remain competitive.

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and Analytics for Empowering Humanity, Vol. 2 D P Goyal, Suprateek Sarker, Somnath Mukhopadhyay, Basav Roychoudhury, Parijat Upadhyay, Pradeep Kumar Dadabada, 2025-07-19 This book provides a platform for interdisciplinary discussions on leveraging emerging technologies and analytics to empower humanity, fostering collaboration between experts in AI and analytics, sustainability, different areas of management, and IT. As the world grapples with complex challenges, from climate change to economic inequality, this second volume of a two-volume proceedings series is a crucial resource for fostering collaboration and exploring untapped potential of emerging technologies. By harnessing the power of AI, blockchain, IoT, and big data, the chapters address critical global challenges towards improving quality of life and promoting inclusive and sustainable development, while keeping in mind ethical implications, and their impact on social justice. The volume will be of use to thought leaders, researchers, innovators, and policymakers from around the globe who are interested in knowing more on how cutting-edge technologies can be harnessed for the greater good of society.

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gartner hype cycle 2023 emerging technologies: Smart Cyber-Physical Power Systems, Volume 1 Ali Parizad, Hamid Reza Baghaee, Saifur Rahman, 2025-03-18 Authoritative, highly comprehensive guide on how emerging technologies can address various challenges in different sectors of smart cyber-physical power systems As the world shifts towards smarter and more resilient energy systems, cyber-physical power systems (CPSs) represent a critical step in modernizing the power infrastructure. Smart Cyber-Physical Power Systems, Volume 1: Challenges and Solutions, Fundamental Concepts, Structure, and Challenges, offers an in-depth exploration of the fundamental concepts, structures, and major challenges that underlie these complex systems. It covers the essential theories and frameworks that drive the integration of digital technologies with physical power systems, including smart grids, microgrids, and the Internet of Energy. This volume addresses a range of crucial topics, from global demand response strategies and microgrid architectures to smart energy management in cities and advanced distributed control strategies. Additionally, it highlights key challenges such as ensuring resiliency, protecting against cyberattacks, and maintaining reliability in the face of rapid technological advancements. Experts from around the world contribute to this volume, sharing vital insights into the transformation of traditional power systems into adaptive, cyber-physical networks. Their focus on the growing importance of privacy, security, and data analytics makes this book a critical resource for anyone involved in power system research, offering essential tools to navigate and shape the future landscapes of energy systems. Whether you're a researcher, engineer, or industry professional, this volume provides the foundational knowledge needed to understand the evolving landscape of smart cyber-physical power systems and the significant challenges they face. Join us on a journey through the landscape of Smart Cyber-Physical Power Systems (CPPSs), where cutting-edge solutions meet the challenges of today and forge the energy paradigms of tomorrow, driven by AI/ML, Big Data, Blockchain, IoT, Quantum Computing, Information Theory, Edge Computing, Metaverse, DevOps, and more.

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business leaders In *Digitally Curious: Your guide to navigating the future of AI and all things tech*, futurist, speaker, and technology trends expert Andrew Grill delivers an easy-to-follow and incisive discussion of current and future technologies, as well as how leading companies are deploying them. The author examines critical business concepts, like the future of work, from a technical and human-centric point of view and how Artificial Intelligence will impact us at work and in society. He includes a broad range of relevant technologies and platforms, offering examples that will be immediately relevant to any industry and business. *Digitally Curious* offers recent and relevant examples via accessible and revealing interviews with global business leaders from various fields. The book also provides: Actionable insights and end-of-chapter takeaways, with links to further information and additional resources Complimentary access to a companion website created and updated by the author, a 30-year veteran of technology and business Immediately applicable steps you can implement right away to create positive change in your business *Digitally Curious* is perfect for managers, executives, board members, and other business leaders. It is the ideal resource for anyone looking for a simple and straightforward explanation of how new and upcoming tech and digital trends will impact you at work and in broader society.

gartner hype cycle 2023 emerging technologies: *Autonomous Consumer Business* Julian Morgen, 2024-07-23 Eine immer mehr digital vernetzte Welt führt zu einer sehr großen Menge von unterschiedlichen Daten, die in Echtzeit generiert werden („Big Data“). Ein großer Teil dieser Datenproduzenten sind Nutzer von Social Media oder auch smarten Geräten, wie bspw. Fitnesstrackern oder mit dem Internet verbundenen Waschmaschinen („IoT“). Unternehmen, die sich diese Daten aus der direkten Lebenswelt der Konsumenten zu Nutze machen, können sehr präzise Einblicke bspw. über Einstellungen, Verhalten oder auch die Bedürfnisse potenzieller Kunden erhalten, wodurch der Weg zu einer „automatisierten Vermarktung“ geebnet wird. Zielsetzung dieses Buches ist die Entwicklung eines Konzeptes für ein Autonomous Consumer Business (ACB), das als maximal eigenständig agierendes und durch Künstliche Intelligenz getragenes Geschäftsmodell verstanden wird, bei dem Unternehmen die Bedürfnisse auf der Konsumentenseite automatisch erkennen und durch entsprechende Leistungsangebote befriedigen können. Weiterhin werden zentrale Bestimmungsgrößen, welche die konsumentenseitige Inanspruchnahme eines ACB im besonderen Maße beeinflussen, sowie potenzielle Kundengruppen empirisch identifiziert, wodurch Hinweise zur konkreten Ausgestaltung eines ACB gewonnen werden können.

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decision-making processes for technology investments Addresses critical topics such as cost-benefit analysis, stakeholder collaboration, and long-term infrastructure planning Highlights long-term developments and trends shaping the future of digital construction Managing Construction Technology: People, Process, and Product is ideal for advanced undergraduate and graduate students in construction technology, BIM, and digital project management within architecture, engineering, and construction management programs. It is also an invaluable reference for contractors, developers, architects, engineers, technology managers, and other professionals in the AEC industry.

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gartner hype cycle 2023 emerging technologies: ChatGPT and Global Higher Education: Using Artificial Intelligence in Teaching and Learning Editor) by Xi Lin (Author (Roy Y Chan (Editor), Shyam Sharma (Editor), & 1 more), ROY. Y CHAN XI LIN (SHYAM SHARMA, KRISHNA BISTA.), 2024-04-03 ChatGPT and Global Higher Education: Using Artificial Intelligence in Teaching and Learning

gartner hype cycle 2023 emerging technologies: Designing Robots to Improve Quality of Life for Older Adults Wendy A. Rogers, Tracy L. Mitzner, 2025-08-26 With adults over sixty becoming an ever-increasing proportion of the global population, the challenge of accommodating the needs, preferences, and abilities, of this heterogeneous population has increased. One such method is with robots, which can be used to support everyday activities for older adults and enhance their quality of life. Older adults have been found to be quite open to the idea of interacting with robots, albeit with preferences for the nature of the task they want the robots to do. This book provides a comprehensive state-of-the-art review of the topic of designing robots for older adults. This book translates research on aging, human factors, and human-robot interaction (HRI) into guidance that will be usable for practitioners who design robots for a range of applications. It offers a framework for HRI with a focus on personal characteristics, robot functionality, task demands, and interaction context. The application of this HRI framework for older adults provides the basis for the book. It covers the fundamentals of aging, a review of the different types of robots available now and in the future, the known facilitators and barriers for adoption and the potential of robots for different everyday activities including social engagement, health and wellness, home maintenance

and security. Throughout, the authors emphasize the need to follow fundamental human factors processes and participatory design approaches that engage older adults in the design process, thus allowing the reader a thorough and contemporary understanding of robots as an essential future for assisting an aging population. *Designing Robots to Improve Quality of Life for Older Adults* is intended for a broad professional audience, especially the design community, gerontologists, and human factors/ergonomics practitioners. It will also be suitable for students at the undergraduate and graduate level as a supplementary textbook for courses in human factors, design for aging, and HRI.

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