



**TECH  
TRENDS**  
By Globant ▶ 2026

# **FIVE FORCES**

**SHAPING THE FUTURE**

# INTRODUCTION

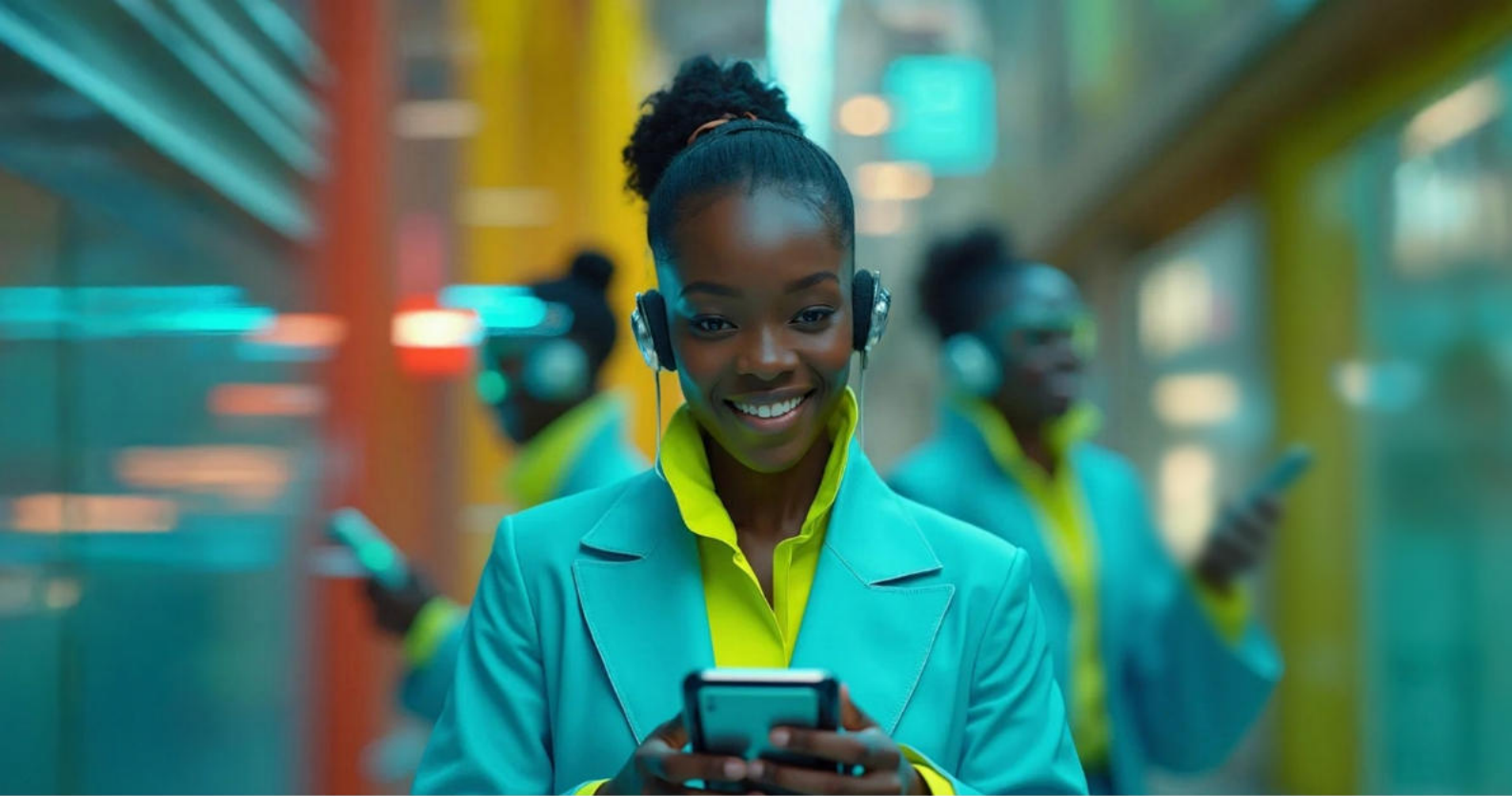
AI today is no longer about sci-fi dreams or lofty, abstract promises, it's about transformation that actually works. After years of sky-high hype cycles and inflated claims of imminent Artificial General Intelligence (AGI), reality is settling in.

MIT recently highlighted that most AI pilots fail to scale, and top tech players are reshaping internal teams, pausing flashy launches, and recalibrating investments.<sup>1</sup>

Let's be clear: this isn't a sign of decline. It's the birth of maturity. AI doesn't leap forward in magic bursts, it evolves in disciplined, incremental steps. And here's the kicker: the winners won't be the companies chasing every shiny new model, they'll be the ones bridging complexity with operational expertise, integrating AI into systems with governance, compliance, and measurable ROI.

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<sup>1</sup> MIT. (2025, July). The GenAI Divide: State of AI business AI 2025.  
[https://mlq.ai/media/quarterly\\_decks/v0.1\\_State\\_of\\_AI\\_in\\_Business\\_2025\\_Report.pdf](https://mlq.ai/media/quarterly_decks/v0.1_State_of_AI_in_Business_2025_Report.pdf)



**At Globant, we see this era as a reset, not a slowdown. Enterprises are moving from pilot chaos to durable, repeatable value.**

The AI narrative is shifting. Agentic AI is no longer a playground; it's a tool for tangible impact. Quantum communication is not just a buzzword, it's a real lever for secure, high-speed data exchange. Robotics is moving past autonomous cars into smart homes, warehouses, and beyond, reshaping mobility and operations. Ambient Intelligence is dissolving friction from consumer experiences, making environments think for us. And cybersecurity? Forget static firewalls; adaptive, AI-driven defense is now table stakes in a world where attacks evolve as fast as the systems themselves.

All these advances are connected by one central force: **AI as the universal foundation for the next decade of innovation.** This isn't theoretical, it's operational. The future isn't coming; it's being built right now, and companies that understand how to integrate AI into every fiber of their operations are the ones that will dominate.

The following pages outline **the five technological forces defining 2026:**



**AGENTIC AI:**  
From Hype to Hard Value



**QUANTUM COMMUNICATION:**  
Security Faster than Light



**POLYFUNCTIONAL ROBOTICS:**  
The Rise of AI-Powered Machines



**AMBIENT INTELLIGENCE:**  
The Era of Invisible Tech



**AI-POWERED CYBERSECURITY:**  
From Defense to Anticipation

Each section isn't just a trend forecast, it's a manifesto for organizations that refuse to settle for incremental change. This is about execution, measurable impact, and competitive advantage.



**01**

# AGENTIC AI:

From Hype to Hard  
Value in 2026

If 2023 and 2024 were about generative assistants and flashy prototypes, 2025 marked the quiet arrival of a new heavyweight: **Agentic AI**. By 2026, the term has moved from conference buzzword to boardroom imperative. The promise is clear: AI that doesn't just answer questions but **sets goals, makes decisions, and executes autonomously**.

This isn't a theory. Gartner reports that **75%** of enterprises are experimenting with AI agents. But here's the truth bomb: only **15%** are deploying fully autonomous, goal-driven systems<sup>2</sup>. The rest? They're still relying on human triggers and constant supervision. That's a step forward, but not revolutionary.

The question for 2026 isn't *if* AI agents will matter, **it's how companies turn them into ROI engines**.

*"As businesses embrace agentic AI, one of the greatest challenges is providing the right business context to agents operating within complex, existing systems. Too often, organizational silos and technology lock-in create dependencies that make it hard to adapt and evolve. Our vision is to break down these barriers—enabling organizations to orchestrate intelligent agents that not only automate tasks, but truly understand and drive business value across the enterprise."*



**Gastón Milano**

CTO of Globant Enterprise AI at Globant.

<sup>2</sup> Gartner, Assessing the Impact of Generative AI and Agentic AI In Enterprise Applications, Max Goss, Matt Cain, Craig Roth, Clarissa Sargeant, September 2025. #4"

# THE REALITY CHECK: BEYOND THE BUZZ

Let's strip the hype. **What are organizations really doing with Agentic AI today?**

- **61%** use LLMs + automation for specific tasks: drafting emails, logging CRM updates, summarizing meetings<sup>3</sup>. Useful? Sure. Transformative? Not even close.
- **Only 15%** run fully autonomous, goal-driven agents that manage processes from start to finish without human oversight.<sup>4</sup>
- **74%** of executives see AI agents as a new attack vector: security, governance, and hallucination risks are top of mind.<sup>5</sup>

The paradox is obvious: everyone agrees on potential, yet few are willing to bet the business. Only **26%** believe AI agents will truly transform productivity<sup>6</sup>. The companies that succeed won't chase technology, they'll align **IT and business strategy**, focusing on areas where AI solves real problems. Enterprises where business and IT are aligned are **1.6x more likely** to describe AI agents as transformative<sup>7</sup>. This isn't a tech problem, it's an organizational problem.

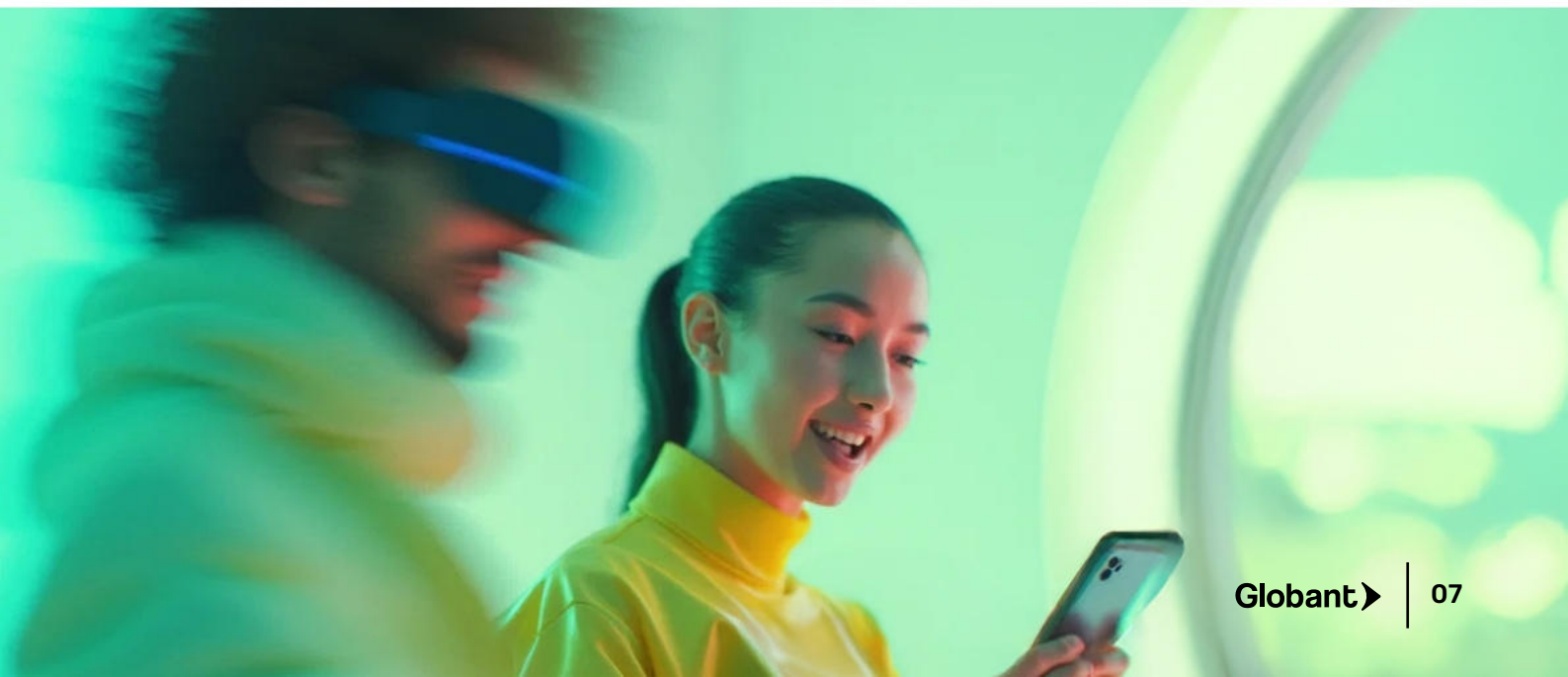
<sup>3</sup> "Gartner, Assessing the Impact of Generative AI and Agentic AI In Enterprise Applications, Max Goss, Matt Cain, Craig Roth, Clarissa Sargeant, September 2025. #23"

<sup>4</sup> "Gartner, Assessing the Impact of Generative AI and Agentic AI In Enterprise Applications, Max Goss, Matt Cain, Craig Roth, Clarissa Sargeant, September 2025. #2"

<sup>5</sup> "Gartner, Assessing the Impact of Generative AI and Agentic AI In Enterprise Applications, Max Goss, Matt Cain, Craig Roth, Clarissa Sargeant, September 2025. #23"

<sup>6</sup> "Gartner, Assessing the Impact of Generative AI and Agentic AI In Enterprise Applications, Max Goss, Matt Cain, Craig Roth, Clarissa Sargeant, September 2025. #4"

<sup>7</sup> "Gartner, Assessing the Impact of Generative AI and Agentic AI In Enterprise Applications, Max Goss, Matt Cain, Craig Roth, Clarissa Sargeant, September 2025. #21"



That is exactly why proper expert support matters: to choose the right use cases, apply a measurable methodology to track impact and implement the right governance and adoption layer – like Globant Enterprise AI (GEAI). A partner that blends AI with existing systems and keeps humans in the loop is not optional, it's a success condition.

And there's one more issue we can't ignore: AI in silos does not scale. To move beyond local wins and unlock enterprise value, interoperability is non-negotiable. You need AI agents, applications, and platforms that actually talk to each other (ACP + MCP style). Without that layer, you're just building smarter islands that never compound.

## THE ROI IMPERATIVE

2025 was the experimentation year. 2026 is the **proof year**. Boards don't care about shiny demos, they care about **measurable ROI**.

### Cost-Efficiency First

- **Customer Service:** Bigblue, a European logistics platform, scaled support 10x with an AI agent named Ema, cutting response times from two hours to 90 seconds, without hiring seasonal staff<sup>8</sup>. That's not automation; that's **scalable ROI-positive transformation**.
- **Knowledge Management:** A semiconductor firm deployed an AI agent trained on proprietary specs, resolving issues **3x faster with a 75% first-try success rate**, well above the industry norm of 15–20%<sup>9</sup>.

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<sup>8</sup> "Khaitan, H. (2025, April 4). How Bigblue Uses Ema for AI-Powered Customer Support. Ema. Retrieved October 15, 2025, from <https://www.ema.co/blog/customer-stories/how-bigblue-uses-ema-for-ai-powered-customer-support>"

<sup>9</sup> "Gartner, Emerging Tech: Top Use Cases for Agentic AI, Anushree Verma, Aakanksha Bansal, Alfredo Ramirez IV, Danielle Casey, Akhil Singh, September 2025. #8"





## BEYOND EFFICIENCY: REVENUE AND HYPERPERSONALIZATION

- **Retail:** In 2026, the leaders in retail will be those building intelligent ecosystems, where every store, shelf, and interaction works together as part of a living, learning network. Innovation will be driven by agentic AI, where systems understand intent and act on it.

AI agents orchestrate dynamic shopping experiences, integrating POS, CRM, and trend data to personalize offers in real time and drive repeat sales.

Imagine a customer entering a flagship fashion store. With **Globant Enterprise AI 2.3**, powered by **OpenAI's Agentic Commerce Protocol (ACP)**, an in-store AI agent instantly identifies their past purchases, matches them with current inventory and trends, and suggests a personalized outfit bundle through a conversational interface with instant checkout. This latest Globant Enterprise AI release enables AI agents to recommend and complete secure transactions directly through natural conversation, seamlessly moving from engagement to purchase. Aligning data, governance, and intelligent orchestration now will be key to transforming every transaction into insight, action, and long-term loyalty.

- **Financial services:** Wealth management firms deploy AI agents to analyze market data, generate real-time client insights, anticipate needs, and assist in personalized communications at scale, empowering advisors to act faster, deepen relationships, and unlock new revenue opportunities.

Gartner notes that **42% of enterprises plan to deploy AI agents within the next 12 months**. Measurable ROI will define the winners.<sup>10</sup>

<sup>10</sup> "Gartner, Emerging Tech: Top Use Cases for Agentic AI, Anushree Verma, Aakanksha Bansal, Alfredo Ramirez IV, Danielle Casey, Akhil Singh, September 2025. #3"

# WHERE AGENTIC AI CREATES REAL VALUE

## **Retail – Adaptive Journeys**

Agents fuse online and in-store data for real-time promotions. Scale customer service without ballooning costs

**ROI:** Higher conversion, lower cart abandonment, lower service costs.

## **Financial Services – Autonomous Value Creation**

Agentic AI is redefining how financial institutions operate, shifting from automation to autonomy. Intelligent agents now optimize credit, fight fraud, and personalize every client interaction in real time, among other things.

**ROI:** Higher Share of Wallet, lower churn, reduced compliance and operational costs.

## **Logistics – The Invisible Backbone**

Agents handle customer inquiries end-to-end, optimize shipping routes using live traffic/weather data.

**ROI:** Faster resolution, lower operational costs, fewer delays.

## **Healthcare – Continuous Care**

Agents monitor records and IoT devices to prevent emergencies, automate triage and scheduling. Additionally, agentic AI systems are emerging as collaborative digital partners, capable of autonomously reasoning, orchestrating workflows, and supporting decision-making across clinical research, patient care, and commercial pharma.

**ROI:** Reduced readmissions, lower admin overhead, improved outcomes.

## **Manufacturing – Self-Optimizing Systems**

Agents enable predictive maintenance, workforce augmentation, and integrated supply chain response.

**ROI:** Reduced downtime, fewer defects, increased throughput.

# COMMON PITFALLS AND HOW TO AVOID THEM

Even advanced agents fail without **governance, strategy, and change management:**

- **Governance & Trust Gaps:**

Only 13% feel confident in AI governance. Cross-functional oversight is non-negotiable.

- **Misalignment with Business Goals:** Deploy agents where ROI is measurable.

- **Data Limitations:**

Fragmented or outdated data kills effectiveness.

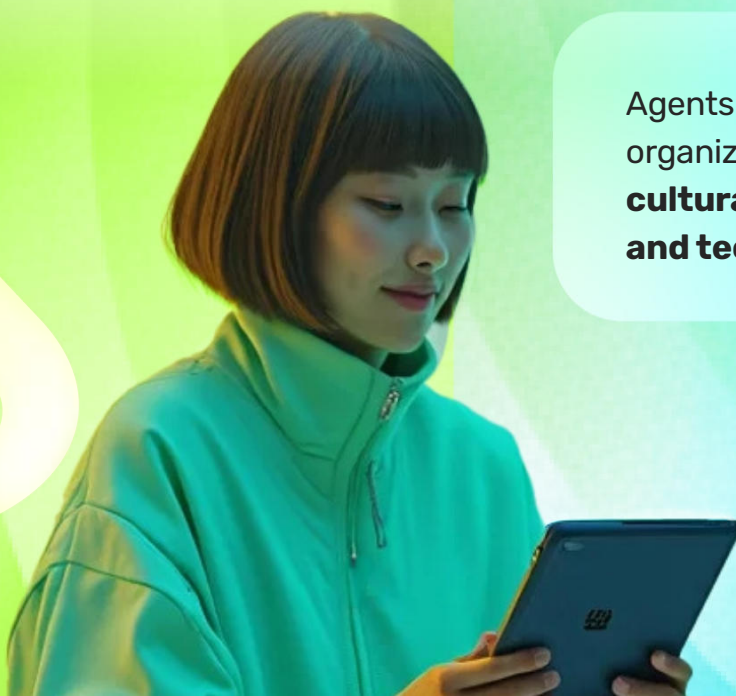
- **Skill Gaps:** Employees need AI literacy and change support.

- **Technical Complexity:**

Legacy systems + multi-agent orchestration = friction. Modular, API-first frameworks help.

- **Ethics & Regulations:** Bias, privacy, and opacity erode trust. Explainability and auditing are mandatory.

Agents deliver ROI only when organizations are ready **culturally, operationally, and technically.**



# DEPLOYING AGENTIC AI FOR MAXIMUM ROI

01

**Identify high-impact use cases:** customer service, knowledge management, analytics, financial services, compliance.

02

**Assess your data landscape:** clean, integrate, contextualize. Domain-specific models improve relevance.

03

**Design agents for autonomy and collaboration:** goal-driven, multi-agent orchestration, continuous learning.

04

**Establish governance and risk management:** security, compliance, ethics.

05

**Pilot strategically:** measure KPIs, iterate rapidly.

06

**Scale with confidence:** expand into high-impact functions.

07

**Measure and communicate ROI:** dashboards for operational, financial, and customer metrics.

08

**Continuous improvement:** adaptive learning, domain updates, tech refresh cycles.

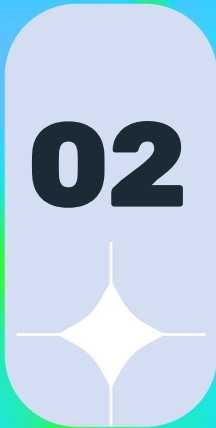


## LEADING THE FUTURE WITH AGENTIC AI

Agentic AI isn't optional, it's **the engine of enterprise transformation**. Early adopters gain **competitive advantage**, while those treating agents as generic assistants risk falling behind.

Success isn't about chasing every new model. It's about understanding your business, picking high-impact use cases, and orchestrating agents for measurable results. Efficiency, cost savings, and innovation will be **exponential**, not incremental.

At Globant, we believe **the time to act is now**. Companies that embrace Agentic AI will define the future of work, service, and innovation. The question isn't whether AI agents will change your business, it's whether you're ready to lead and seize the opportunity.



# QUANTUM COMMUNICATION:

Security Faster than Light

If Agentic AI is the brain of the enterprise, quantum technologies are the nervous system. And in 2026, **quantum computing** is no longer a distant sci-fi concept; it's the near-term disruptor every enterprise should be planning for.


Let's begin with context. UNESCO declared 2025 the International Year of Quantum Science and Technology<sup>11</sup>. The 2025 Nobel Prize in Physics was awarded to John Clarke, Michel H. Devoret, and John M. Martinis "for the discovery of macroscopic quantum mechanical tunnelling and energy quantisation in an electric circuit<sup>12</sup>", a vivid proof that quantum effects extend into more tangible systems.


Leading players are now projecting concrete timelines. IBM, for instance, anticipates the first credible quantum advantage (i.e., outperforming classical computers in some real tasks) by the end of 2026<sup>13</sup> and envisions its path to a large-scale, fault-tolerant quantum computer by the end of the decade.

Quantum technologies rely on the strange, counterintuitive rules of quantum mechanics. Unlike classical bits that are 0 or 1, quantum bits (qubits) can exist in **superposition**, enabling them to process problems in ways classical computers cannot. Add **entanglement**, where qubits remain linked across distances, and suddenly, you can perform computations that would take classical computers millions of years, unlocking the ability to break encryption keys or simulate complex molecules and materials with unprecedented precision.

There are three pillars dominating quantum discussions today:

**01 Quantum Computing:** Complex simulations, optimization, and AI acceleration. 

**02 Quantum Sensing:** Ultra-precise measurements for navigation, healthcare, and materials science. 

**03 Quantum Communication:** The near-term disruptor, enabling unbreakable, instantaneous encryption. 

11 UNESCO. (n.d.). International Year of Quantum Science and Technology (2025). UNESCO. Retrieved October 10, 2025, from <https://www.unesco.org/en/years/quantum-science-technology>

12 The Nobel Prize. (2025). The Nobel Prize in Physics 2025: Summary. Retrieved October 15, 2025, from <https://www.nobelprize.org/prizes/physics/2025/summary/>

13 IBM. (2025, July 21). The dawn of quantum advantage. IBM Quantum Computing Blog. Retrieved October 15, 2025, from <https://www.ibm.com/quantum/blog/quantum-advantage-era>

The first two are advancing quickly and moving toward practical deployment, **while quantum communication is already the most mature and nearing real-world readiness.** Here's why:

## QUANTUM COMMUNICATION: THE NEAR-TERM DISRUPTOR

At its core, quantum communication uses principles like **Quantum Key Distribution (QKD)** to send encryption keys encoded in quantum states. Any interception changes the state, making eavesdropping **impossible to hide.** In other words, you know immediately if someone is listening. That's a level of security traditional encryption cannot match.

Governments and industries are taking note:

- **China:** A 2,000 km quantum backbone connecting Beijing and Shanghai<sup>14</sup>.
- **European Union:** EuroQCI initiative rolling out a continent-wide quantum network<sup>15</sup>.
- **United States:** National quantum internet programs under development<sup>16</sup>.

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14 Chinese Academy of Sciences. (2017, March 24). Beijing-Shanghai Quantum Communication Network Put into Use. CAS English. Retrieved October 15, 2025, from [https://english.cas.cn/newsroom/archive/news\\_archive/nu2017/201703/t20170324\\_175288.shtml](https://english.cas.cn/newsroom/archive/news_archive/nu2017/201703/t20170324_175288.shtml)

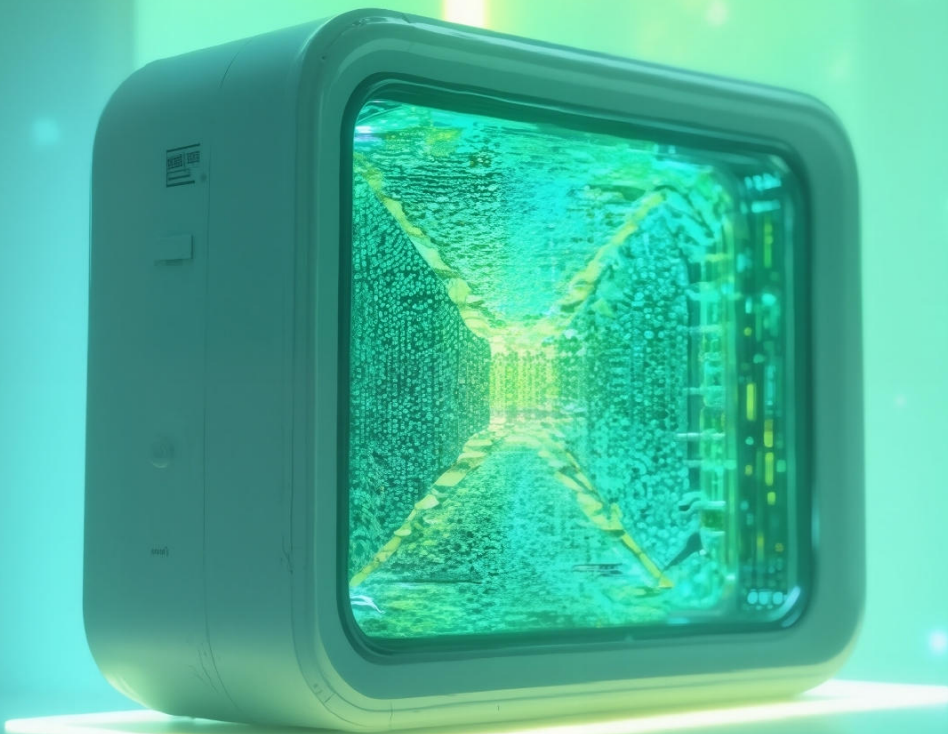
15 European Commission. (n.d.). European Quantum Communication Infrastructure - EuroQCI. Shaping Europe's digital future. Retrieved October 15, 2025, from <https://digital-strategy.ec.europa.eu/en/policies/european-quantum-communication-infrastructure-euroqci>

16 National Quantum Initiative Advisory Committee. (2024, September). Quantum Networking: Findings and Recommendations for Growing American Leadership. National Quantum Initiative. Retrieved October 15, 2025, from <https://www.quantum.gov/wp-content/uploads/2024/09/NQIAC-Report-Quantum-Networking.pdf>

These aren't just experiments; they're **infrastructure bets for the post-quantum era.**

And the urgency is real. The rise of “**Harvest Now, Decrypt Later**” attacks, where hackers collect encrypted data today with plans to decrypt it once quantum computers mature, has governments racing. **The US NIST<sup>17</sup> and Europe's ETSI<sup>18</sup>** are fast-tracking **Post-Quantum Cryptography (PQC)** standards. IBM's CRYSTALS-Kyber and **CRYSTALS-Dilithium<sup>19</sup>** are already accepted benchmarks.

**Quantum communication solves a pressing business problem:** how to protect sensitive data, intellectual property, and critical infrastructure when current encryption becomes obsolete.



17 National Institute of Standards and Technology. (n.d.). Post-Quantum Cryptography Standardization. NIST. Retrieved October 15, 2025, from <https://csrc.nist.gov/projects/post-quantum-cryptography/post-quantum-cryptography-standardization>

18 ETSI. (n.d.). Quantum-Safe Cryptography. ETSI. Retrieved October 15, 2025, from <https://www.etsi.org/technologies/quantum-safe-cryptography>

19 IBM. (2024, August 13). IBM-Developed Algorithms Announced as NIST's First Published Post-Quantum Cryptography Standards. IBM Newsroom. Retrieved October 15, 2025, from <https://newsroom.ibm.com/2024-08-13-ibm-developed-algorithms-announced-as-worlds-first-post-quantum-cryptography-standards>



## QUANTUM + AI: A SYMBIOTIC LEAP

Quantum and AI are converging faster than most realize. By 2026, **18% of global quantum algorithm revenues will come from AI applications.**<sup>20</sup> Quantum-enhanced LLMs (QLLMs) are emerging as game-changers for **processing, optimization, and decision-making at scales previously unimaginable.**

Early business use cases:

- **Pharma:** AstraZeneca<sup>21</sup> is exploring hybrid quantum-classical models with IonQ, AWS, and NVIDIA to accelerate molecular simulations, an early step toward AI-assisted drug discovery.
- **Semiconductors:** Quantum-assisted<sup>22</sup> design and quantum-inspired optimization are being tested to improve chip design efficiency, complementing AI-driven process modeling and yield prediction.
- **Financial services:** HSBC and IBM's<sup>23</sup> successful quantum-enabled bond-trading trial, which achieved a 34% improvement in prediction accuracy, marks a turning point as financial institutions transition from theoretical exploration to measurable gains with quantum algorithms.

The takeaway: combining AI with quantum isn't a futuristic idea; it's already delivering value where speed, scale, and precision matter most.

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<sup>20</sup> Sorensen, B. (2025, March). 5th Annual Global QC/QS Market Survey. Hyperion Research, LLC.

<sup>21</sup> IonQ. (2025, June 9). IonQ Speeds Quantum-Accelerated Drug Development Application With AstraZeneca, AWS and NVIDIA. BusinessWire. Retrieved October 15, 2025, from <https://www.businesswire.com/news/home/20250609358259/en/IonQ-Speeds-Quantum-Accelerated-Drug-Development-Application-With-AstraZeneca-AWS-and-NVIDIA>

<sup>22</sup> Semiconductor Industry Association. (2025). 2025 State of the U.S. Semiconductor Industry. Semiconductor Industry Association. Retrieved October 15, 2025, from <https://www.semiconductors.org/2025-state-of-the-u-s-semiconductor-industry/>

<sup>23</sup> HSBC. (2025). HSBC Demonstrates World's First-Known Quantum-Enabled Algorithmic Trading With IBM. HSBC News & Views. Retrieved October 15, 2025, from <https://www.hsbc.com/news-and-views/news/media-releases/2025/hsbc-demonstrates-worlds-first-known-quantum-enabled-algorithmic-trading-with-ibm>

## SHORT-TERM WINS: QUANTUM COMMUNICATION OVER QUANTUM COMPUTING

Here's the key insight for executives: while quantum computing remains a longer-term opportunity, quantum communication provides **practical advantages today**.

- **Security:** QKD networks ensure that sensitive data travels in a channel immune to interception.
- **Compliance:** PQC adoption guarantees regulatory alignment in the post-quantum era.
- **Competitive Advantage:** Early adopters can secure IP, supply chains, and customer data while peers scramble to adapt.

Gartner predicts that **by 2030, 75% of users will access quantum computing via Quantum-as-a-Service platforms<sup>24</sup>, but early quantum communication pilots will yield tangible business value in 3–5 years.**



<sup>24</sup> Gartner, Emerging Tech: Research Roundup of Quantum Computing Uses and Challenges, Gaurav Gupta, Alan Priestley, Menglin Cao, Sridhar Srinivasan, September 21, 2023, #1

# HOW ORGANIZATIONS SHOULD APPROACH QUANTUM COMMUNICATION

- 01 Start with Security-Critical Assets:** Intellectual property, client data, and infrastructure links.
- 02 Pilot Quantum Key Distribution:** Establish a baseline network with hybrid classical-quantum encryption.
- 03 Invest in Talent & Partnerships:** Quantum isn't plug-and-play; skilled teams and strategic partners are essential.
- 04 Integrate with AI & Edge Systems:** Use AI to monitor, adapt, and predict traffic and threats across quantum-enabled networks.
- 05 Plan for PQC Compliance:** Post-quantum cryptography is becoming mandatory.

Globant helps organizations navigate this landscape with **Quantum-Ready Advisory:**

- **Assessment & Strategy:** Evaluate where quantum communication delivers real impact.
- **Implementation & Integration:** Hybrid encryption systems and AI integration.
- **Governance & Risk:** Ensure PQC adoption, compliance, and continuous security monitoring.

## THE BOTTOM LINE

Quantum communication isn't futuristic; it's **urgent**. The era of classical encryption is ending, and "wait and see" is no longer a strategy. Companies that act now will secure their data, protect IP, and gain **first-mover advantage in post-quantum enterprise infrastructure**.

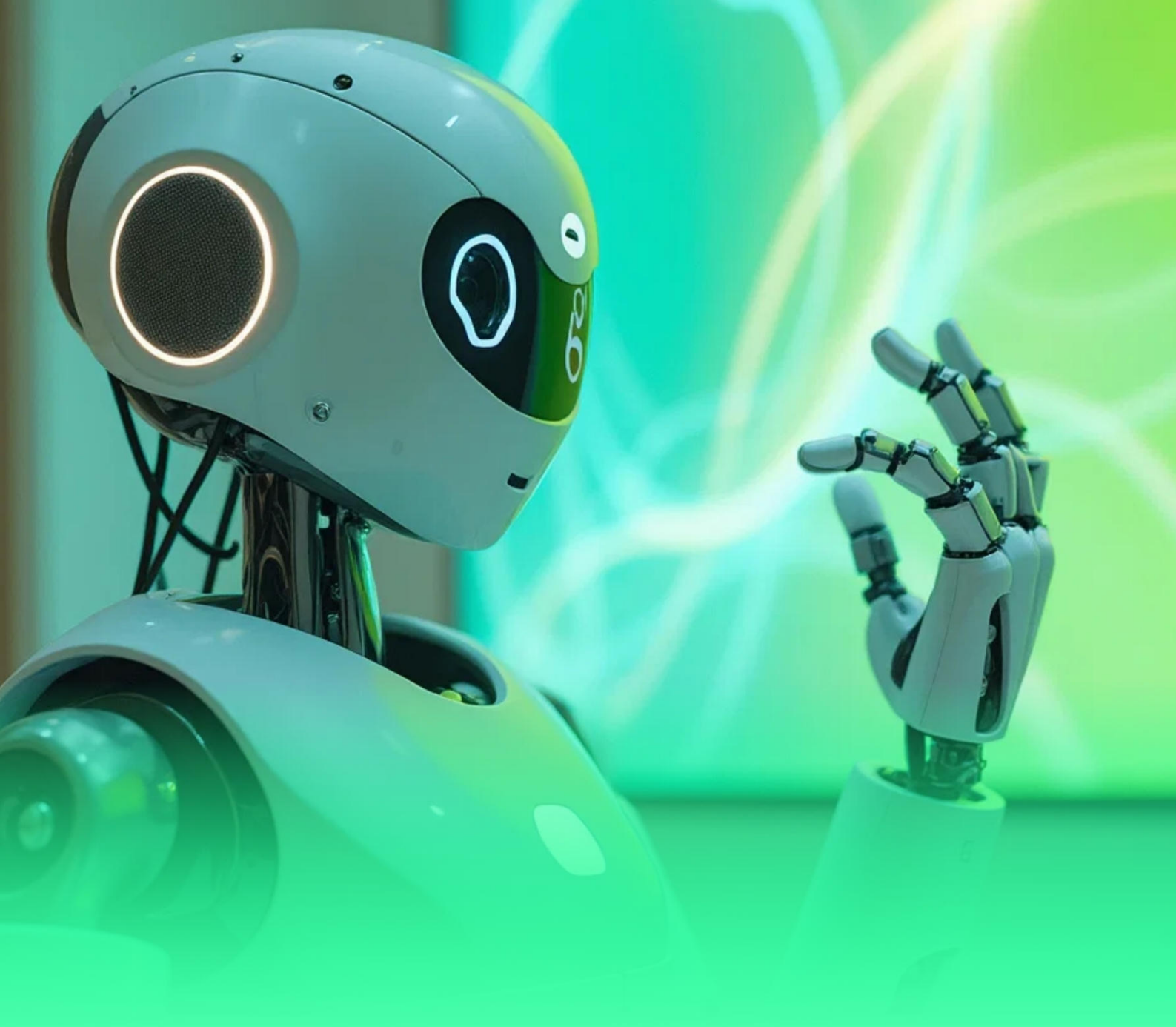
If Agentic AI is the brain of the enterprise, quantum communication is the **immune system**, protecting what matters while enabling the next generation of intelligent operations. Enterprises that master both will be decades ahead of competitors, not just in tech adoption, but in operational resilience and market trust.

*"Quantum technology is only a few years away from reshaping how enterprises operate. Companies that start building quantum skills today will lead the next wave of innovation, while those who wait risk repeating the costly mistakes of the AI rush."*



**Dario Robak**

Head of Quantum Computing at Globant.



**03**

# **POLYFUNCTIONAL ROBOTS**

and the Age of Embodied AI

If Agentic AI is the brain and quantum communication is the immune system, then **polyfunctional robots are the muscles**. They're no longer just tools on a factory floor; they're **autonomous, intelligent partners shaping operations, services, and human experience** across industries. And 2026 is the year they go from experimental curiosities to mainstream leverage points.

Let's start with the numbers:

- **Global robotics market:** \$44.7B in 2024 → projected nearly \$280B by 2034 (20% CAGR).<sup>25</sup>
- **Adoption:** By 2030, 1 in 20 supply chain managers will oversee robots instead of humans.<sup>26</sup>
- **Everyday life:** 80% of humans will engage with smart robots daily by 2030, up from <10% today.<sup>27</sup>

What's driving this leap? AI. Sensors. Edge computing. Digital twins. The convergence of these technologies has turned once-limited industrial machines into **polyfunctional robots**: machines that can perform multiple tasks, follow human instruction, adapt to new environments, and learn over time.

25 Shivani Zoting, S. (2025, April 29). Advanced Robotics Market Size, Share and Trends 2025 to 2034. Precedence Research. Retrieved October 15, 2025, from <https://www.precedenceresearch.com/advanced-robotics-market>

26 Gartner. (2025, July 16). Gartner Predicts One in 20 Supply Chain Managers Will Manage Robots Rather Than Humans by 2030. Gartner. Retrieved October 15, 2025, from <https://www.gartner.com/en/newsroom/press-releases/2025-07-16-gartner-predicts-one-in-20-supply-chain-managers-will-manage-robots-rather-than-humans-by-2030>

27 Gartner. (2025, July 16). Gartner Predicts One in 20 Supply Chain Managers Will Manage Robots Rather Than Humans by 2030. Gartner. Retrieved October 15, 2025, from <https://www.gartner.com/en/newsroom/press-releases/2025-07-16-gartner-predicts-one-in-20-supply-chain-managers-will-manage-robots-rather-than-humans-by-2030>

# FROM COBOTS TO AI-POWERED PARTNERS

**Collaborative robots (cobots)** aren't new, but the 2025–2026 generation is **different**. They combine muscle with brain:

- **Intelligent Perception and Planning Systems (IPPS):** Deep learning-driven vision and spatial awareness allow robots to see and respond like humans, avoiding collisions and predicting actions.
- **Autonomous decision-making:** Robots no longer wait for human prompts; they can select optimal actions based on context.
- **Learning in real-time:** Feedback loops from sensors, cloud data, and AI models let robots **improve performance continuously**.



## CASE IN POINT:

- Amazon recently deployed its **one-millionth robot** and introduced **DeepFleet**<sup>28</sup>, a generative AI system that coordinates the entire fleet. Travel times are cut by 10%<sup>29</sup>, throughput rises, and costs drop, all while over **700,000 employees are upskilled** to manage and collaborate with these machines. Efficiency isn't incremental anymore; it's exponential.
- **Google DeepMind's Gemini Robotics**<sup>30</sup> introduces **Vision-Language-Action (VLA)** frameworks, translating high-level human instructions into motor commands. This is the dawn of "**embodied reasoning**": robots that understand the world, make decisions, and act safely in real-time.
- Globant's partner, **OpenAI** is preparing a major return to robotics, hiring talent and integrating humanoid capabilities as part of its strategy to achieve more advanced, real-world AI and, ultimately, Artificial General Intelligence (AGI). By using robots to generate real-time data, the company could accelerate the evolution of its models and deepen their understanding of the physical world.

*"Robotics is the link AI needs to penetrate human life outside the digital realm. As AI grows stronger, the expansion of robotics is inevitable, despite the existing deployment and technical obstacles."*



**Juan Pablo Pizarro**

Studio Partner of IoT and Robotics at Globant.

28 Dresser, S. (2025, July 1). Amazon deploys over 1 million robots and launches new AI foundation model. AboutAmazon. Retrieved October 15, 2025, from <https://www.aboutamazon.com/news/operations/amazon-million-robots-ai-foundation-model>

29 Dresser, S. (2025, July 1). Amazon deploys over 1 million robots and launches new AI foundation model. AboutAmazon. Retrieved October 15, 2025, from <https://www.aboutamazon.com/news/operations/amazon-million-robots-ai-foundation-model>

30 Parada, C. (2025, March 12). Gemini Robotics Brings AI Into the Physical World. DeepMind. Retrieved October 15, 2025, from <https://deepmind.google/discover/blog/gemini-robotics-brings-ai-into-the-physical-world/>

# NVIDIA OMNIVERSE AS THE OPERATING SYSTEM OF THE PHYSICAL WORLD

When we talk about large-scale simulation and the industrial metaverse, NVIDIA's vision stands out for its ambition: it's not just about creating virtual environments, but about building a platform that acts as the operating system for the physical world.

NVIDIA Omniverse is leading this new era. It is a development platform designed to let organizations design, simulate, and optimize entire factories, fleets of autonomous vehicles, and complex robotic systems with photorealistic precision.

By doing so, companies can test, refine, and validate their operations in a virtual setting before investing a single dollar in the real world.

## The Business Model That Changes Everything: Simulation-First

- **Digital twins:** Exact replicas of factories, robots, or autonomous vehicles are created virtually.
- **AI training in simulation:** Robots learn and adapt in digital environments before touching the real world.
- **Continuous feedback loop:** Data from real robots feeds back into the twin, accelerating learning and reducing risk.

This model shifts capital from expensive trial-and-error to **safe, rapid experimentation**. Companies can test 100 scenarios in a digital twin in the time it would take to test one physically.

# POLYFUNCTIONAL ROBOTS IN ACTION

Let's look at real-world deployments:

## LOGISTICS & WAREHOUSING

- Robots pick, pack, and sort autonomously.
- AI coordinates multiple robots simultaneously to optimize throughput.

**Outcome:** faster deliveries, lower costs, safer environments.



## MANUFACTURING & INDUSTRY 4.0

- Predictive maintenance reduces downtime.
- Workforce augmentation provides contextual guidance on complex tasks.
- Supply chains become resilient, adaptive, and self-optimizing.



## CONSTRUCTION & MEGA-PROJECTS

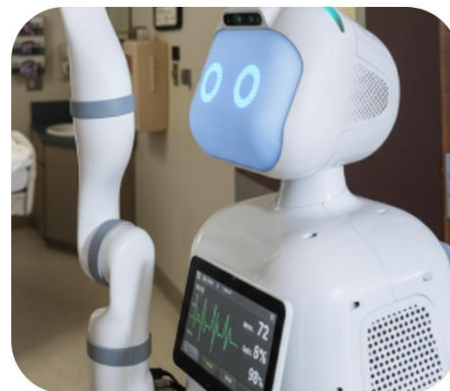
- In Saudi Arabia's NEOM city, robots are taking on dangerous construction tasks.

**The payoff:** 80% fewer manual hours, 40% lower costs, and 2,000 new high-skill jobs.<sup>31</sup>



## HEALTHCARE & ELDER CARE

- Japan faces a shortfall of 380,000 care workers by 2025 (570,000 by 2040).<sup>32</sup> Robots assist with mobility, monitoring, and social interaction, ensuring care quality in aging societies.
- Robotics is expanding from surgical assistance to laboratory automation and precision manufacturing of advanced therapies.



31 NEOM. (2024, December 19). NEOM and Samsung C&T commit to world's largest deployment of rebar construction automation technology. NEOM. Retrieved October 15, 2025, from <https://www.neom.com/en-us/newsroom/neom-and-samsung-ct-jv-announcement>

32 Tong, J. (2025, September 9). Robots in Elderly Care: Lessons from Japan's Aging Population. Sinolytics. Retrieved October 15, 2025, from <https://sinolytics.de/global-business-news/blog/geolytics/robots-elderly-care-lessons-from-japan/>

# STRATEGIC ROLE OF GLOBANT IN ROBOTICS

Adopting robotics isn't plug-and-play. Industrial machines cost \$500,000+ each, and implementation can stall without expertise. Globant positions itself as the **digital intelligence partner**, powering robotics adoption without building the physical machines. Our approach focuses on three pillars:

## Simulations & Digital Twins

Using NVIDIA Omniverse, we build virtual replicas of factories, warehouses, and robots to test and optimize performance before any hardware investment. Companies like Foxconn and Mercedes-Benz already use these twins to design and validate humanoid robots safely and efficiently.

## RobOps

Managing large robot fleets is complex, so we partner with InOrbit to offer centralized platforms for monitoring, updating, and controlling multi-brand robots in real time.

## Edge Computing & Integration

We develop the "brain" of the robot, code that connects sensors, optimizes energy use, and secures communication with the cloud:

Globant builds **RPA solutions** that automatically handle repetitive business tasks. Using **edge computing**, these systems process data right where it's generated, making operations faster, smoother, and more efficient.

Globant connects **IoT devices** with robotic systems through **edge computing**, enabling smooth, real-time communication and data exchange. This lets robots access live sensor data to work smarter and more efficiently on tasks like monitoring, maintenance, and automation.

Security stays strong with sensitive information handled at the edge, and our architectures are **scalable and flexible**, adapting to each client's needs. With **AI and machine learning**, our robots learn and improve over time.

# WHY POLYFUNCTIONAL ROBOTS ARE NOW CRITICAL

**Rising labor costs:** Multi-task robots provide higher ROI than single-purpose machines.

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**AI integration:** Robots learn, adapt, and collaborate, going beyond automation to **intelligent partnership.**

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**Simulation-first methodology:** Reduces implementation risk and accelerates time-to-value.

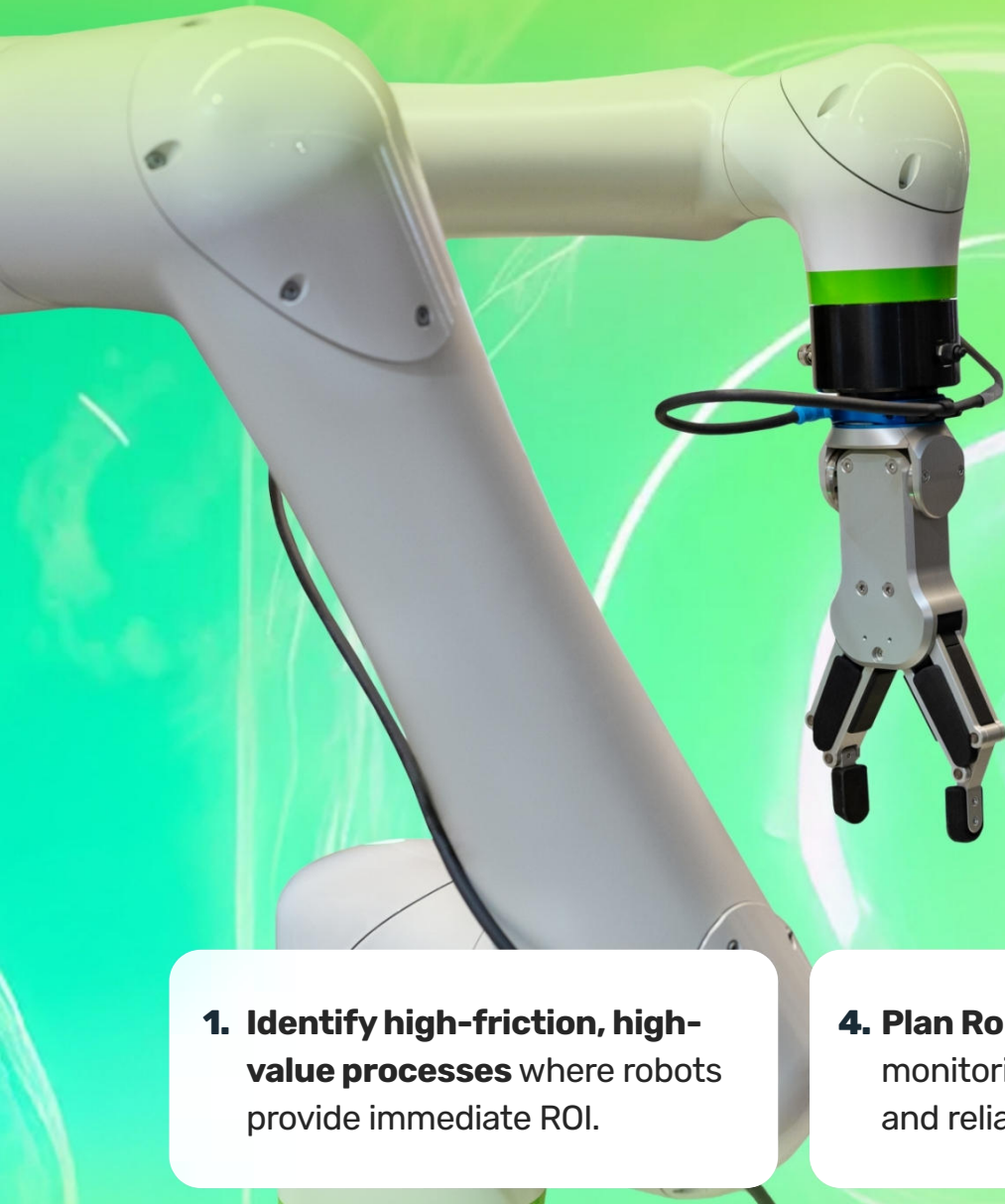
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**Societal impact:** Robots address labor shortages, hazardous tasks, and healthcare gaps.



*As Gartner highlights, “Robots, working with humans, must be able to work in an environment designed for humans. The most successful polyfunctional robots will not replicate the human shape—they will improve upon it.”<sup>33</sup>*

## NEXT STEPS FOR ENTERPRISES



**1. Identify high-friction, high-value processes** where robots provide immediate ROI.

**2. Simulate before deploying:** Digital twins reduce cost, risk, and training needs.

**3. Integrate AI for learning and coordination:** Robots must adapt in real-time, not just repeat tasks.

**4. Plan RobOps:** Centralized monitoring ensures scalability and reliability.

**5. Focus on human augmentation, not replacement:** Upskill employees to manage and collaborate with robots.



## THE BOTTOM LINE

Polyfunctional robots are **already changing operations, labor dynamics, and industrial strategy**. Enterprises that adopt early gain efficiency, resilience, and scalability while avoiding the mistakes of those treating robots as one-off tools.

At Globant, we make robotics **smart, actionable, and scalable**, giving organizations the intelligence to deploy fleets that **learn, adapt, and multiply value**. This isn't about replacing humans; it's about **amplifying human potential** with machines that do more, faster, safer, and smarter.



**04**

# **AMBIENT INTELLIGENCE:**

The Era of Invisible Tech

Imagine a world where technology **disappears**, not in the sci-fi sense, but in practical, life-changing ways. Your environment anticipates your needs, acts before you ask, and quietly frees your attention. That's **ambient intelligence (Aml)**, and 2026 is the year it becomes tangible.

It's not about gadgets getting smarter; it's about **environments that respect your time and attention**. Every major leap in computing, from mainframes to PCs to smartphones, has reduced the distance between humans and machines. Ambient intelligence **erases that distance entirely**, making interactions seamless, frictionless, and almost invisible.



*"Attention is the actual currency of the ambient era; the measure of progress will be how much of it we return, not how much we consume. The attention dividend is the true ROI of ambient intelligence, measured in hours of life returned, not just dollars saved."*

**Ritesh Menon**

VP of Technology, Globant.

# AMBIENT INTELLIGENCE VS AMBIENT COMPUTING

## Ambient Computing

The “how.” Devices, sensors, networks, and cloud/edge infrastructure that work behind the scenes.

VS

## Ambient Intelligence

The “what.” Smart actions taken automatically and contextually by systems to improve human experience.

*Generative AI plays a role—it’s the voice—but **predictive, contextual AI is the mind, orchestrating real-time, micro-decisions.***

## THE SCAN LOOP: HOW AMBIENT INTELLIGENCE WORKS

Every ambient system follows a four-step cycle, called **SCAN**:

**01**

**Sense:** Detect who is present and what’s happening.

**02**

**Contextualize:** Interpret the data in real-time.

**03**

**Anticipate:** Predict what will be useful before a request is made.

**04**

**Nudge:** Subtly act to assist without intruding.

Success isn’t measured by more clicks or screen time—it’s measured by the **moments you don’t have to reach for technology.**



## WHY 2026 IS THE INFLECTION POINT

The global ambient computing market is projected to reach USD 352.7 billion by 2033<sup>34</sup>, growing at a CAGR of 25.3% from 2025. Several forces make ambient intelligence ready for mass adoption now:



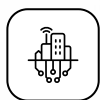
**Edge AI maturity:** Tiny chips enable real-time, private analytics on devices.



**Market growth:** Ambient intelligence is projected to reach \$182B by 2032<sup>35</sup> (26% CAGR).



**User readiness:** Consumers already adopt wearables, smart assistants, and frictionless payment systems.



**Cross-industry pilots:** Sports arenas, hospitals, factories, and smart cities are proving value.

**The result:** attention returned to humans becomes the metric of success.

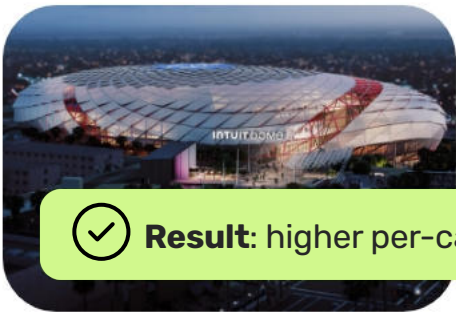
<sup>34</sup> Grand View Research. (2025). Ambient computing market size, share & trends analysis report 2021-2033. <https://www.grandviewresearch.com/industry-analysis/ambient-computing-market-report>

<sup>35</sup> Goel, M. (2025, October 7). Global ambient intelligence market: Trends, insights, and forecast (2024-2032). DataM Intelligence. <https://www.datamintelligence.com/research-report/ambient-intelligence-market>

## BUSINESS CASES: AMBIENT INTELLIGENCE IN ACTION

Ambient intelligence delivers higher revenue, greater efficiency, sustainability gains, and better human experiences. It removes friction across industries, retail, saving time and reducing waste. Smart infrastructure cuts energy use, while human benefits like lower burnout, safer aging, and smoother mobility amplify value. Its core advantage: giving time back.

### Sports & Entertainment – Intuit Dome<sup>36</sup>



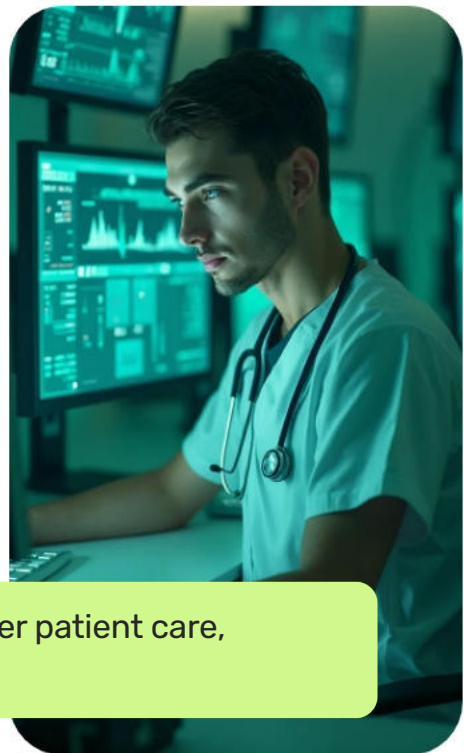
- Fans skip lines via facial recognition.
- Autonomous checkout stores reduce wait times.



**Result:** higher per-capita spend, faster throughput, better experience.

### Healthcare – Ambient Scribing & Safety

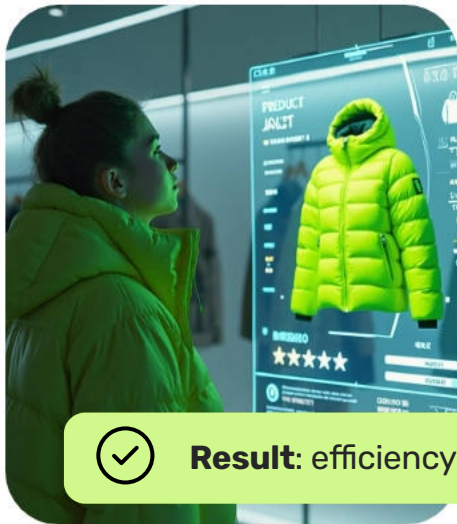
- Hospitals like Mass General Brigham use Nuance DAX Express and Abridge to convert clinician-patient conversations into draft notes.
- Ambient intelligence, powered by embedded sensors and adaptive AI, is transforming physical environments to enhance patient monitoring, clinical safety, and operational efficiency.
- Platforms like Artisight predict falls, automate monitoring, and free nursing hours.



**Result:** reduced documentation burden, better patient care, improved clinician satisfaction.

<sup>36</sup> Globant. (2025, October 15). Empowering the stadium experience for LA Clippers. Globant. <https://more.globant.com/stadium-experience-la-clippers/>

## Manufacturing – Predictive Factories



- Factories deploy sensors and digital twins for real-time predictions.
- **Example:** Beko reduces scrap by 12.5%<sup>37</sup>; Jubilant Ingrevia lowers variability by 63%; AstraZeneca<sup>38</sup> shortens drug production from weeks to hours.



**Result:** efficiency gains, lower costs, adaptive production.

## Urban Mobility – Smart Traffic Systems

- Pittsburgh uses SURTRAC to dynamically adjust signals.
- Travel times cut by 25%, wait times reduced by 40%<sup>39</sup>.
- Pilot programs forecast accidents and guide infrastructure improvements.

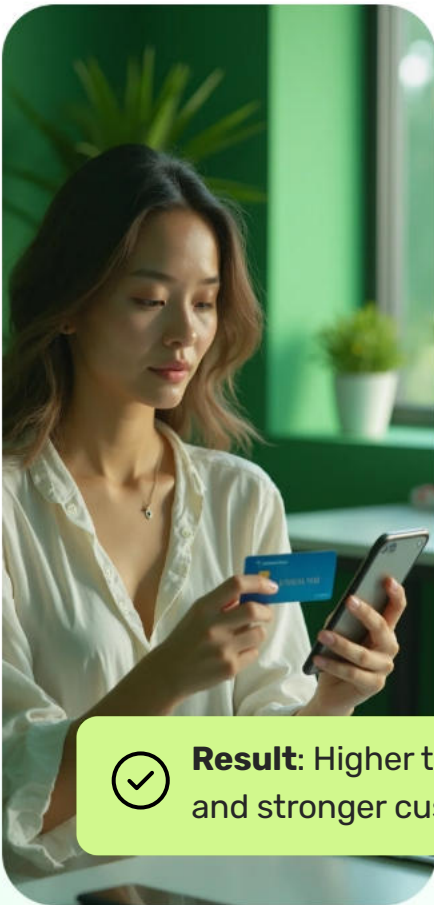


<sup>37</sup> Brown, R. (2024, November 6). Six AI manufacturing lighthouses to take notice of, pt 1. Manufacturing Digital. <https://manufacturingdigital.com/articles/six-ai-manufacturing-lighthouses-to-take-notice-of-pt-1>

<sup>38</sup> SCDigest Editorial Staff. (2024, October 23). Real use cases for AI in manufacturing. Supply Chain Digest. [https://www.scdigest.com/ontarget/24-10-24\\_ai\\_manufacturing\\_world\\_economic\\_forum.php](https://www.scdigest.com/ontarget/24-10-24_ai_manufacturing_world_economic_forum.php)

<sup>39</sup> Smith, S. F., Barlow, G. J., Xie, X.-F., & Rubinstein, Z. B. (2013). SURTRAC: Scalable urban traffic control (CMU-RI-TR-13-03). The Robotics Institute, Carnegie Mellon University. [https://www.ri.cmu.edu/pub\\_files/2013/1/13-0315.pdf](https://www.ri.cmu.edu/pub_files/2013/1/13-0315.pdf)

## Financial Services – Payments



- Ambient intelligence is making payments seamless, contextual, and secure - embedding financial interactions into everyday experiences.
- These systems combine biometric authentication, geolocation, and behavioral data to authorize and protect transactions in real time.
- Mastercard's and Mercedes-Benz<sup>40</sup> in-car payments enable customers to use a fingerprint sensor in their cars to make convenient and secure digital payments at service stations in Germany.



**Result:** Higher transaction volumes, improved fraud prevention, and stronger customer loyalty.

<sup>40</sup> Mastercard. (2023, September 25). Mercedes-Benz and Mastercard introduce native in-car payments. Mastercard Newsroom. <https://www.mastercard.com/news/europe/en/newsroom/press-releases/en/2023/mercedes-benz-and-mastercard-introduce-native-in-car-payments/>

# THE TECHNOLOGY STACK BEHIND AMBIENT SYSTEMS

Ambient intelligence requires **layers working together seamlessly:**

**Perception:** Sensors, cameras, biometrics, RF, and microphones capture signals.

**01**



**Edge Compute:**

Local AI chips process data instantly, preserving privacy and reducing latency.

**02**



**Federated**

**Learning:** Models train across locations without sharing sensitive data.

**03**



**Natural Interfaces:**

Voice, gestures, haptics, or AR provide frictionless interaction.

**04**



**Actuation:**

Intelligence acts on the environment, adjusting lights, HVAC, or robotics.

**05**

Generative AI enriches conversations and personalizes interfaces, but **predictive AI drives real-time sensing, anticipation, and subtle decision-making.**



# HOW TO IMPLEMENT AMBIENT SYSTEMS

**01**

**Start small:** Focus on one high-friction use case (hospital documentation, stadium lines, factory changeovers).

**02**

**Push intelligence to the edge:** Reduce latency, bandwidth, and privacy risks.

**03**

**Instrument with consent:** Deploy sensors transparently with opt-in/opt-out options.

**04**

**Close the loop:** Observe, predict, act, and learn from outcomes.

**05**

**Govern from day one:** Embed regulatory frameworks, audit trails, fail-safes, and role-based access.

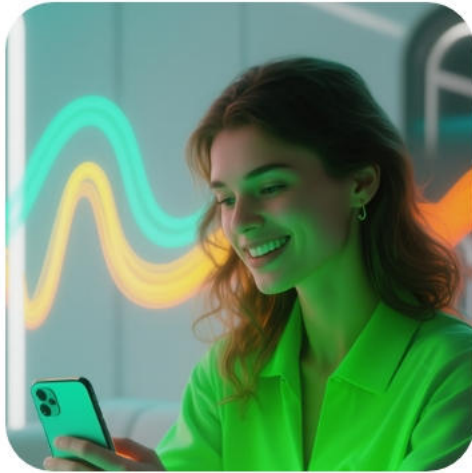
**06**

**Design for politeness and dignity:** Assist without intruding; integrate seamlessly into routines.

**Privacy, interoperability, and scaling** remain challenges. Trust is the proper infrastructure of the ambient era. Systems must be **ethical, transparent, and accountable.**

## THE NEXT THREE YEARS

By 2028, ambient intelligence will:



- Span industries and daily life.
- Link **edge-native models** for fast, private AI.
- Use **agentic orchestration** to combine micro-actions into seamless workflows.
- Deploy predictive safety systems.
- Transform venues, offices, homes, and cities into environments that anticipate needs and reduce digital friction.

✓ The result: **time, attention, and dignity returned to humans.**



*“Generative AI will enrich the ambient era with natural expression, but predictive AI is its backbone. Success will not be measured by time spent on technology but by time returned to people.”*

**Ritesh Menon**

VP of Technology, Globant.

## THE BOTTOM LINE

Ambient intelligence is not the future of technology; it is the future of how we reclaim our humanity in a world filled with technology. The ambient era requires clarity on what fades and what stays visible: privacy, dignity, and humanity cannot be traded for convenience. The disappearing computer must be paired with a more visible ethic. The top performers in 2026 will be organizations that:

- Treat ambient systems as **ethics-first engineering projects**.
- Build edge-native predictive AI, not just flashy gadgets.
- Deliver measurable ROI in time, attention, and efficiency.

This is **technology that disappears, but leaves an impact behind**. And at Globant, we're building those systems, integrating AI, edge computing, and human-centered design to **reclaim human attention in a world overloaded with devices**.



**05**

# AI-POWERED CYBERSECURITY:

From Reaction to Prediction

In 2026, cybersecurity is no longer about **reacting to breaches**, it's about **anticipating them**. Attackers now leverage the same AI tools that enterprises use: scalable, cost-effective, and frighteningly efficient platforms capable of probing weaknesses faster than any human could. If you're not thinking AI-first for defense, you're already behind.

The numbers tell the story:

**\$24 trillion** projected global cost of cybercrime by 2027.<sup>41</sup>

**\$1.9 million** average savings per breach when AI is used.<sup>42</sup>

**97%** Organizations that experienced an AI-related security incident without proper AI access controls.<sup>43</sup>

**85%** of total cyberattacks will involve AI by 2026, and most will be countered by AI itself (Sberbank).<sup>44</sup>

by 2027, 17% of Total Cyberattacks Will Involve Generative AI

*This isn't a race against attackers; it's evolution at machine speed.*



*"AI isn't just changing how we work, it's redefining how we protect what matters. Now, AI is giving organizations the ability to see ahead, move faster, and turn chaos into control."*

**Andres Luszczczyk**

Tech Director at Globant.



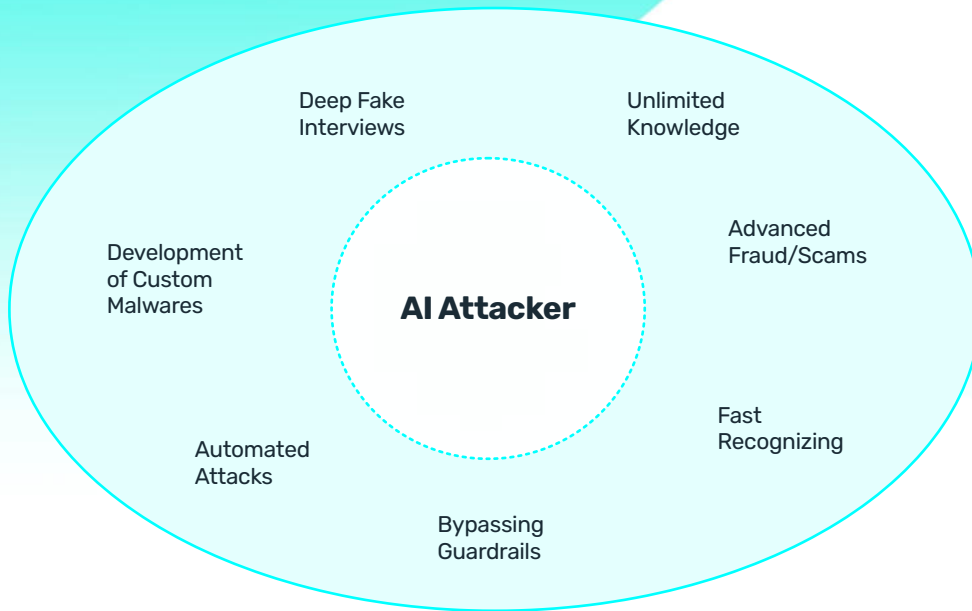
41 Cyber Defense Magazine. (2025, June 5). The Growing Threat of AI-powered Cyberattacks in 2025. <https://www.cyberdefensemagazine.com/the-growing-threat-of-ai-powered-cyberattacks-in-2025/>

42 IBM. (2025). Cost of a Data Breach Report 2025. <https://www.ibm.com/reports/data-breach>

43 IBM. (2025). Cost of a Data Breach Report 2025. <https://www.ibm.com/reports/data-breach>

44 TASS: Russian News Agency. (2025, May). Around 85% of cyberattacks in 2026 will involve AI – Sber. [https://tass.com/economy/1961769?utm\\_source=chatgpt.com](https://tass.com/economy/1961769?utm_source=chatgpt.com)

# THE NEW THREAT LANDSCAPE



Today's attackers have more than just brute force, they have **intelligence amplification**:

## 01 Deepfake Interviews & Identity Spoofing:

AI can generate hyper-realistic video or audio content to bypass HR, impersonate executives, or trick staff.

If a bad actor gains internal access, they bypass external protections entirely.

## 02 Unlimited Knowledge Reconnaissance:

Machine learning combs vast datasets—social media, websites, public databases—to map vulnerabilities and attack vectors.

Attackers predict where defenses are weakest, accelerating exploitation.

### 03 Automated, Adaptive Attacks:

AI-driven tools simulate human behavior, escalating reconnaissance and attack execution.

Patterns and vulnerabilities are detected faster, creating highly targeted exploits.

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### 04 Custom Malware Creation:

AI automates malware design, creating sophisticated, evasive threats that bypass traditional detection.

Environments and systems can be profiled to tailor attacks specifically for maximum impact.

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### 05 Bypassing AI Guardrails:

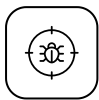
Large Language Models (LLMs) are not just tools—they're **potential attack vectors**.

Prompt manipulation can expose sensitive info, bypass rules, or trigger unintended behaviors.

The conclusion is clear: the attackers **have AI on their side**. If your defense isn't AI-powered too, the game is already over before it begins.

## THE AI DEFENSE IMPERATIVE

Enterprises must fight fire with fire. AI is no longer optional—it's **essential for defense, detection, and proactive threat mitigation.**



**Threat Detection & Response:** AI analyzes massive datasets in real time to spot anomalies, potential breaches, and suspicious activity.



**Proactive Defense:** AI predicts attack vectors before they're exploited, allowing security teams to act preemptively.



**Automation of Routine Tasks:** By automating repetitive security operations, humans focus on complex, high-impact decisions.



**Adaptive Learning:** AI continuously evolves, learning from new attack methods and improving defense strategies dynamically.

# GLOBALANT'S POSTURE: FIGHTING WITH THE SAME WEAPONS

At Globant, we take a **full-spectrum approach** to AI-powered cybersecurity:

## 01 Risk: Deepfake Interviews - Mitigation: Digital Identity

- Improve CIAM strategy, request and validate IDs, analyze patterns during interviews.
- Machine learning monitors behavior at multiple stages, reducing impersonation risks.



## 02 Risk: Unlimited Knowledge Reconnaissance - Mitigation: Cyber Advisory

- Assess deployment environments, raise awareness, and simulate attacker strategies.
- AI accelerates evaluation and strengthens proactive defenses.

## 03 Risk: Custom Malware Threats - Mitigation: DevSecOps Strategy

- Fortify infrastructure with SSDLS expertise, secure-by-design frameworks, and AI-enhanced code review.
- Threat modeling ensures attacks are anticipated and neutralized before deployment.

## 04 Risk: Fast Recon & Automated Attacks - Mitigation: Managed Defense + Cloud Security

- 24/7 monitoring with AI-driven SIEM tools.
- Detect unusual user behavior, automate correlation rules, and accelerate incident response.

## 05 Risk: LLM Guardrail Bypass - Mitigation: Offensive Insight

- Conduct pentesting against LLM deployments.
- Ensure all countermeasures are in place to prevent misuse, data leaks, and unexpected responses.

## THE AI SECURITY ADVANTAGE

AI-powered cybersecurity doesn't just react—it **transforms defense into a proactive, anticipatory system.**



**Faster Response:** Automated detection and mitigation reduce mean time to containment.



**Scalable Security:** AI scales across cloud, hybrid, and on-prem environments without adding headcount.



**Intelligent Insight:** Security teams get real-time, actionable intelligence instead of drowning in alerts.



**Continuous Improvement:** Systems learn from each attempt, increasing resilience over time.

# THE STRATEGIC IMPERATIVE FOR 2026

Boards, CTOs, and CISOs are no longer asking if AI matters—they're asking **how fast you can deploy it safely.**

01

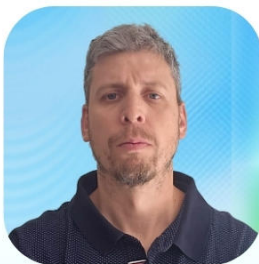
Threats are **AI-accelerated**; defenses must be the same.

02

Cybersecurity becomes **a competitive differentiator**, not just a cost center.

03

Enterprises that integrate AI into security operations today will **survive and thrive**, while laggards risk catastrophic breaches and brand erosion.



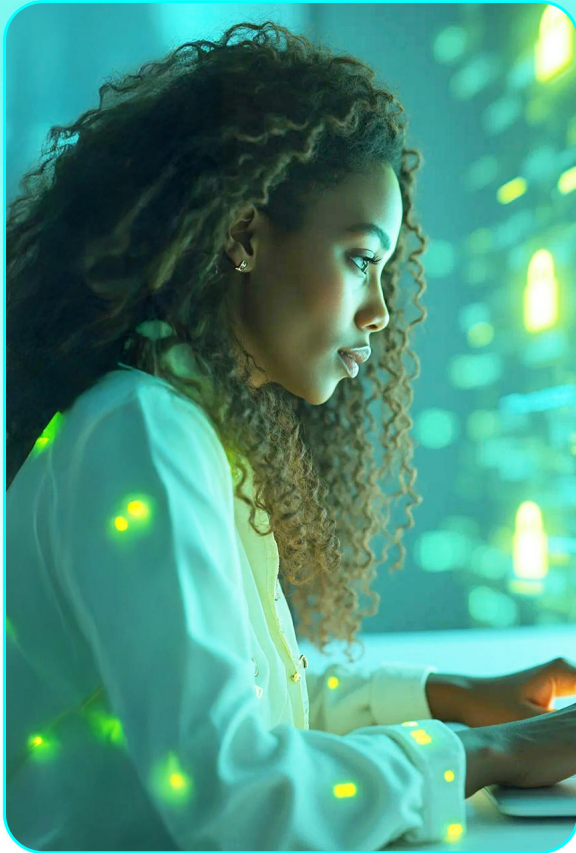
*"In 2026, AI isn't a tool, it's the operating system of modern cybersecurity. The question isn't if you'll deploy AI, but whether your AI is smart enough to outthink your attackers."*

**Andres Luszczuk**

Tech Director at Globant.



## TAKEAWAYS



**Attackers are AI-first; defenders must be too.**

**AI-powered defense scales, learns, and anticipates.**

**Proactive threat management is now the only viable approach.**

**Globant combines advisory, managed defense, offensive insight, and AI orchestration to stay ahead.**

## THE BOTTOM LINE

In 2026, cybersecurity is no longer a **reactive expense**. It's a **strategic advantage** powered by AI, transforming risk into operational foresight. The organizations that move fast, think in AI-first terms, and embed intelligence at every layer will define the future of secure digital business.

# CONCLUSION

## ACT NOW: FROM MATURITY TO MOMENTUM

2026 isn't a year for wonder—it's a year for work. The era of inflated promises is giving way to disciplined execution. What looked like turbulence last year is now the reset every leader needed: AI's early hype cycles have matured into practical pathways for measurable value. Agentic AI, quantum communication, smarter robotics, ambient intelligence, and AI-native cybersecurity are not isolated novelties – they're connected levers that, when combined, unlock durable competitive advantage.

The common thread is clear: AI is the platform, not the product. Winning organizations will treat these trends as systems engineering problems – integrating models, governance, edge compute, and human workflows into production-grade capabilities. That means moving beyond pilots toward repeatable delivery: simulation-first development for robotics; PQC and quantum-secure links for tomorrow's data; edge-driven ambient systems that return attention; and AI-powered defenses that anticipate attacks before they land.

This is both an invitation and a warning. Start small, but think big: pick high-friction use cases, instrument them with rigor, and scale what works. Invest in the talent, partnerships, and governance frameworks that make scale safe and sustainable. The companies that act with discipline now will set the rules for the next decade – turning experimentation into operational advantage.

At Globant, we're already building those production paths: from AI Pods that accelerate delivery, to digital twins for simulation-first robotics, to offensive LLM testing and quantum-ready advisory. If 2026 is the year industry moves from maturity to momentum, then the time to move is now.

**Don't wait for the next shiny model. Build the systems that make models matter.**

**Great ideas become even more powerful through collaboration. Thank you to all the following brilliant minds for making this report possible.**

**Agustin Huerta**  
SVP of Digital Innovation

**Fernando Faganello**  
Senior Manager

**Alan Verbner**  
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**Gabriel Antelo**  
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**Andres Luszczuk**  
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**Juan Pablo Pizarro**  
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VP of Technology

**Federico Steiner**  
Senior Delivery Lead

**Sebastian Arriada**  
Chief Information Officer



## ABOUT GLOBANT

At Globant, we help organizations thrive in a digital and AI-powered future. Our industry-focused solutions combine technology and creativity to accelerate enterprise transformation and design experiences customers love. Through digital reinvention, our subscription-based AI Pods, and Globant Enterprise AI platform, we turn challenges into measurable business results and promised savings into real impact.

- We have more than 29,000 employees and are present in over 35 countries across 5 continents, working for companies like Google, Riot Games, and Santander, among others.
- We were named a Worldwide Leader in Experience Design Services (2025), and previously recognized as a Worldwide Leader in AI Services (2023) by IDC MarketScape.
- We were featured as a business case study at Harvard, MIT, and Stanford.
- We are active members of The Green Software Foundation (GSF) and the Cybersecurity Tech Accord.
- We are global partners of Open AI, NVIDIA, AWS and Unity bringing world-class technology together to accelerate innovation across industries.

**Contact: [pr@globant.com](mailto:pr@globant.com)**

For more information, visit

[www.globant.com](https://www.globant.com)

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