Welcome to our 2025 Tech Radar!

This year, we're cutting through the noise to spotlight the technologies that really matter – ones that can boost efficiency, drive innovation, and give your business a competitive edge. To make things easy, we've organised them into three clear categories: "Adopt," "Assess and Trial," and "Hold", so you can prioritise your investments at a glance.

What makes this radar unique? It's backed by the insights of our top experts at Hitachi Digital Services. From our Technology and Solutions Office in EMEA to our senior leadership, each section reflects real-world experience, deep market knowledge, and the trends shaping industries today. These aren't just theories; they're insights grounded in what we've seen deliver results for our partners and customers.

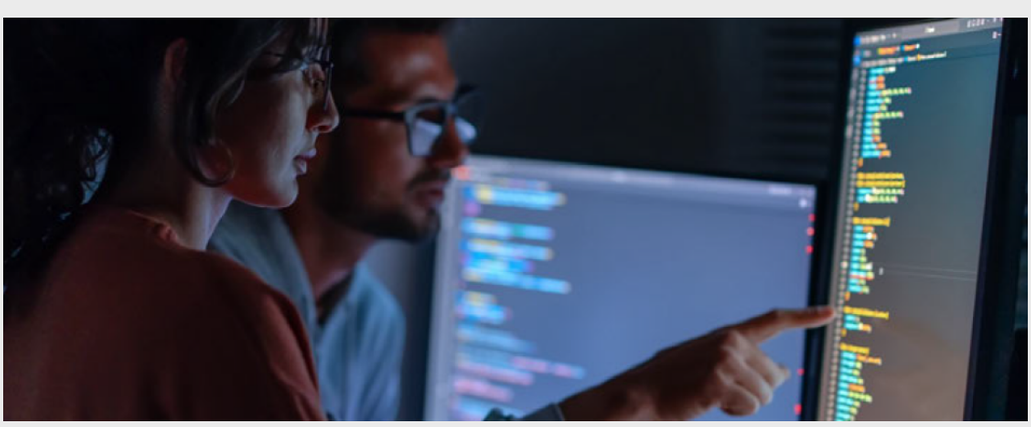
The tech world is shifting from experimentation to practical solutions, and we're here to help you navigate that shift. Think of this radar as more than a list of trends – it's your guide to making smart decisions, staying ahead of the curve, and positioning yourself as a leader in digital transformation.

Duncan Mears
EMEA VP

Our look ahead

By our Technology and Solutions Office in EMEA – Vitor Domingos

Clearly, the defining theme for 2025 is pragmatic innovation – a clear shift from chasing novelty to embracing technologies that tackle real-world challenges and deliver measurable results. Across industries, decision-makers are prioritising solutions that scale effectively, create tangible impact, and offer demonstrable returns on investment. This pivot toward practicality sets the stage for our exploration of the year's most critical tech trends. These are the innovations that will empower businesses to enhance performance, streamline operations, and drive meaningful growth. Let's dive then into actionable insights on what to Adopt, Assess to Trial, and Hold, which we think it will empower you with a clear framework to navigate this 2025 tech strategy.



Adopt

Generative AI Platforms: GenAI is stepping out of its experimental phase and making a tangible impact across industries. Moving beyond chatbots and proofs of concept, it's becoming a cornerstone in software development, operations, and personalised experiences at scale. Think automated reports, code synthesis, and tailored content that drives efficiency and accelerates innovation cycles. Models like DeepSeek R1 have already reshaped the possibilities, proving GenAI's transformative potential.

Composable Applications: Gone are the days of rigid,monolithic systems. Composable applications – built from modular, API-driven components – enable businesses to adapt faster to change. This flexibility delivers quicker development cycles, reduced costs, and the agility needed to stay competitive. With composable solutions, you can pivot and scale with
confidence.

Intelligent Automation Platforms: Intelligent automation takes robotic process automation (RPA) to the next level. These platforms harness GenAI to manage complex, end-to-end processes with adaptive decision-making. The result? Streamlined workflows, significant cost savings, and customer experiences that feel more intuitive and responsive. This is how businesses are redefining operations in a smarter, more connected world.

Advanced Cybersecurity Mesh: As threats evolve, a unified, adaptive security mesh has become essential. These systems centralise policy enforcement, manage identities, and leverage GenAI to detect and respond to threats across hybrid and multi-cloud environments. By reducing the risk of breaches, ensuring regulatory compliance, and improving threat response, cybersecurity meshes are the backbone of modern enterprise security.

Assess to trial

Edge Computing at Scale: Edge computing is maturing, moving from pilot projects to scaled deployments. By processing data closer to its source, businesses can enable real-time analytics, predictive maintenance, and automated industrial processes. This technology unlocks low-latency applications that add value across IoT-heavy industries. GenAI will be a big part of this, as models will move closer to where the data source is.

Low-Code/No-Code Automation: These platforms are breaking down barriers to innovation, empowering teams to create complex applications without advanced coding, streamlining workflows and enabling rapid digital transformation. Paired with Agentic AI, which autonomously manages tasks and adapts in real-time, they simplify complexity, democratise development, and accelerate time-to-value.

Spatial Computing: While the consumer buzz may have faded, spatial computing is quietly making waves in enterprise settings. Virtual product design, remote maintenance, and immersive training simulations are transforming collaboration and productivity. The impact? More engaging experiences, better teamwork, and improved outcomes.

Data Fabric Architectures: Data silos are a thing of the past with data fabric architectures. By unifying access to data across disparate sources, these frameworks enable real-time insights and support advanced analytics. Businesses gain the agility and innovation needed to make data-driven decisions faster and more effectively.

Hold

Decentralised Autonomous Organisations (DAOs): DAOs offer intriguing possibilities for decentralised governance, but the challenges – legal complexities, governance risks, and unclear implementation paths – remain significant. While the potential for disruption is high, most enterprises should monitor this space before diving in.

Quantum-Inspired Computing: True quantum computing is still on the horizon, but quantum-inspired algorithms running on classical hardware offer incremental benefits today. These solutions tackle computationally intensive problems, such as supply chain optimisation and complex simulations, but they require dedicated expertise to explore their value fully.

Metaverse Applications for Work: The metaverse promises immersive and collaborative workspaces, but the technology and its adoption are still evolving. For now, enterprises should wait for clearer use cases and better readiness before investing heavily in this space.

Advanced Biometric Authentication: Biometric technologies like facial recognition and behavioural biometrics can enhance security, but adoption faces hurdles, including widespread trust issues and underdeveloped security frameworks. Enterprises should proceed cautiously while monitoring advancements in this area.

Strategic incubation, the long-term potential

As we look toward the horizon, several groundbreaking technologies are still in their infancy but hold immense potential for reshaping industries in the years to come.

Natural Language Interfaces for Human Augmentation: Natural language interfaces are transforming how we engage with technology, enabling intuitive communication and bridging intent with action. These systems enhance productivity, accessibility, and creativity, making technology more human-centric and empowering users to achieve more. Despite challenges like context accuracy, their potential to revolutionise interaction is undeniable.

Advanced Carbon Capture & Sequestration Technologies: With climate change demanding urgent attention, innovative approaches to carbon removal are becoming critical. Advanced carbon capture and sequestration technologies, though still early in their development, represent a pivotal step toward a more sustainable future.

As we close this year's radar, 2025 promises a new wave of rapid advancements. Enterprises must adopt strategically, experiment thoughtfully, and monitor emerging innovations to stay ahead. By doing so, they can drive innovation and maintain their competitive edge. This is just the beginning – let's shape the future together.

Back to top

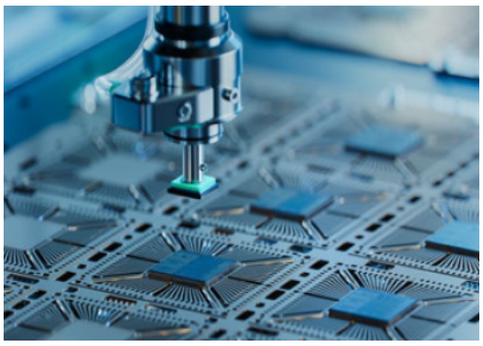
HDS view:
The role of technology in 2025

By our EMEA CTO – Mark Stubbs

AI/GenAI is no longer a futuristic concept; it's now a cornerstone of enterprise innovation and a catalyst for immediate, widespread transformation. From GenAI-powered automation and personalised experiences to predictive analytics and data-driven decision-making, the shift from theoretical applications to real-world solutions is delivering tangible business value.

As disruptions – geopolitical, environmental, and technological – become more frequent, the need for robust and decentralised infrastructures has never been greater. Businesses must prioritise resilient supply chains, distributed energy networks, and edge computing to build adaptive systems that can withstand uncertainty. Data, the lifeblood of modern enterprises, demands new tools and approaches. If data is the new oil, then GenAI and AI are the drills unlocking its potential. But beyond extraction lies the need for effective management, integration, and analytics to turn information into actionable insights.

At the same time, customers expect more. Businesses must focus on delivering seamless, personalised digital experiences, anticipating needs, and adapting to evolving preferences to build lasting relationships. With this comes an increasing demand for security. While some emerging technologies are not yet ready for widespread adoption, they offer immense potential and need experimentation.



Enterprises must strike a balance – addressing today's challenges while laying the groundwork for future innovation, and Hitachi Digital Services is here to help you navigate this journey.

In short, 2025 will focus on:

- GenAI as a foundational technology
- Building resilient and adaptable infrastructure
- Harnessing data for better decision-making
- Delivering seamless customer experiences
- Prioritising security at every level
- Moving toward sustainable practices

Our Tech Radar from our TSO team is not just a list of trends – it's a strategic tool. It highlights the technologies that will dominate the enterprise landscape and offers guidance for planning and investment decisions. The trajectory for 2025 is clear: enterprises must focus on practicality, adaptability, and creating measurable value to lead in an ever-evolving technological landscape. We need to embrace this year as an opportunity to build, innovate, and create meaningful impact.

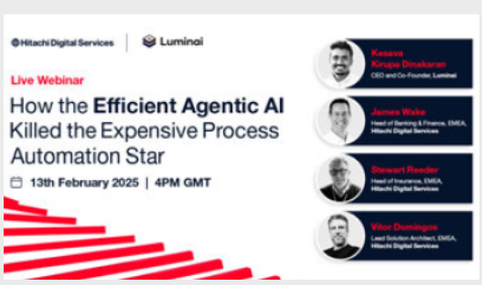
Events

What you have missed

How the Agentic AI killed the expensive process automation star

Traditional automation, like RPA, has struggled to keep up with today's dynamic workflows, leaving inefficiencies and rising costs in its wake. Agentic AI changes the game. By autonomously managing complex tasks, it delivers consistent results, reduces costs, and eliminates inefficiencies—all with minimal supervision.

In this one-hour webinar, discover how a multi-billion-dollar insurance brokerage replaced outsourced labour with Agentic AI, unlocking transformative cost savings and operational efficiency. Through live demos and real-world insights, you'll learn how to redefine workflows and achieve measurable results with this breakthrough technology.



See the take aways

Coming up!

Population Health and Deviceless Remote Patient Monitoring

In this webinar, we'll explore AI-driven solutions for Population Health Management, focusing on a risk stratification tool that monitors patient health daily. Using a dynamic 1-5 rating scale, it provides real-time insights into chronic conditions like COPD and depression.

We'll demonstrate how AI can enhance healthcare delivery, enabling providers to manage more patients efficiently while ensuring high-quality, personalised care.

Register here!

Next up...

On the next edition, we'll explore how AMS (Application Managed Services) are helping organizations not just keeping the lights on, but reshaping IT leadership - driving innovation, agility, and business success.

Accelerating your journey
to tomorrow with us.

Share this on

If you have questions or comments, please contact us at info@disrupted.hitachids.com

Hitachi Digital Services, LLC, 2535 Augustine Drive, Santa Clara, CA 95054