

The future of AI, blockchain, IoT and 5G is convergence

By  [Lindsey Schutters](#)

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Businesses are scrambling to implement AI to optimise their operations and take advantage of the current hype cycle. *Forbes* reports that a total 292 AI unicorns emerged within the US in 2022, with a combined enterprise value of \$4.6tn.



Technology convergence is transforming the workplace. Source: Thisisengineering/Uhsplash

According to Statista, though, investment in AI slowed in 2022, and Crunchbase shows the trend continuing through the first half of 2023 and beyond.

“Out of 38 new unicorns in 2023, AI companies represent eight new unicorns, including two from this past month,” reports *Crunchbase News* senior data editor Gené Teare.

“Companies categorised as AI in Crunchbase raised \$25bn in the first half of 2023, representing 18% of global funding. That includes the \$10bn funding to OpenAI led by Microsoft in January. While that’s down from the \$29bn invested in H1 2022, by comparison, it is higher as a proportion of total funding.”

The downward trend in AI investment is closely tied to an overall decline in seed and angel funding. This hasn’t stopped adoption of new technologies with [72% of business leaders wanting AI adoption](#) to ramp up within their organisations within the next three years.

Coming together

This appetite for automation and increased machine learning is also driven by networking speed improvements and a dramatic increase in computing power over the last couple of years.

AI and cloud computing allows businesses to become more insight-driven and find patterns that exist within data far more easily, which can enhance efficiency and surface new solutions.

Organisations can use AI to automate essential operations and develop analytical capabilities that could free up employee time to devote to higher-value strategic initiatives.

Adding a network of IoT devices and sensors to these cloud capabilities can enable an enhanced layer of data gathering and create more opportunities to deploy machine learning algorithms.

The rise of private 5G, non-proprietary radio access networks (Open RAN) is further accelerating these adoptions.

“Open RAN is the game-changer. Essentially, it disaggregates the software and hardware components of the network infrastructure, making it easier and more economically viable to provide internet in remote areas,” explains president and GM of the Cisco Asia Pacific & Japan service provider business Sanjay Kaul.

Private 5G networks can enable more robust communications for IoT devices like autonomous drones but still coexist with LTE and Wi-Fi solutions, creating an interconnected network that is flexible enough to scale alongside business ambitions.

Tying it all together

“One of the most promising intersections of technology is the convergence of blockchain, IoT, and AI. Together, these technologies bring about a myriad of possibilities,” writes Heath Muchena, founder of Proudly Associated and author of *Blockchain Applied*.

“Blockchain provides a secure and transparent mechanism for recording transactions, IoT devices generate massive amounts of valuable data, and AI has the power to analyse and learn from this data, delivering intelligent insights and automating processes.”



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The union of these technologies allows businesses to establish a robust and secure environment that fosters data integrity, seamless data sharing, automated transactions, and real-time insights. It opens the doors to a plethora of applications across sectors such as healthcare, logistics, supply chain, and finance.

Despite this potential for convergence, there is a significant funding gap driven by uncertainties around regulations and demonstrated use cases of these modern technologies.

The European Union is the first major government trying to address this issue and has selected 20 use cases from 90 submissions to its [European Blockchain Regulatory Sandbox](#). This project will open a cross-border dialogue between regulators, supervisors, private companies and public authorities to find a responsible way to deploy this technology.

“The future of business lies in the effective integration and utilisation of digital technologies. AI, blockchain, cloud

computing, and data analytics are integral parts of this transformation, each playing a vital role in shaping business models, operations, and strategies,” continues Muchena.

“To embrace the new dawn of business efficiency, businesses must be ready to step into the world of AI and blockchain convergence, leveraging their combined potential to create a sustainable and prosperous future. The possibilities are limitless, and the opportunity is ripe for the taking. It’s not a question of if, but when.”

ABOUT LINDSEY SCHUTTERS

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