CYBER SECURITY & AIN BANKING



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Jamal Saleh Director General of the UAE Banks Federation (UBF)

A STRATEGIC EVOLUTION IN BANKING

The Information Security Committee of the UAE Banks Federation discusses how AI can be a force for good

As digital transformation accelerates across various flagging suspicious activities, industries, artificial intelligence (AI) emerges as an indispensable ally, revolutionising cyber security to protect financial institutions and maintain customer trust in the banking sector.

AI's growing importance in cyber security stems from its abilities in enhancing threat detection, mitigating risks, and automating response mechanisms. Traditional cyber security systems, often reliant on static rules or historical data, are not optimised to keep pace with the adaptive tactics of modern cyber criminals. AI, however, offers dynamic capabilities, including advanced machine learning and predictive analytics to counteract these evolving threats.

enabling real-time and banks remain resilient in an era of rising digital complexity. Furthermore, AI's integration into fraud detection systems has transformed the way financial institutions safeguard sensitive data and transactions. AI-powered tools analyse behavioural patterns and transactional contexts to detect and prevent fraudulent activities with unprecedented precision.

In the case of the UAE, Central Bank has been introducing pioneering initiatives that underscore the strategic importance of cyber security. Notably, the Financial Infrastructure Transformation (FIT) Programme is a comprehensive effort to modernise the UAE's financial accountability are paramount

By identifying anomalies, systems, incorporating AI to maximise the benefits of technologies to enhance AI while minimising its risks. operational efficiency, bolster These considerations are responses, AI ensures that data security, and create a central to the UAE's approach, future-ready ecosystem.

Addressing cyber security challenges

advantages in combating cyber risks, it also presents new challenges. Cyber criminals collaboration with the Central are increasingly deploying AIpowered tools, such as deepfake and has taken proactive technology and adaptive malware, to bypass traditional defences. This necessitates continuous innovation and For example, the launch vigilance within the banking of Tasharuk, the nation's sector.

governance of AI is a pressing issue. Ensuring transparency, addressing biases in data models, and fostering

as outlined in its National AI Guidelines promoting fairness and inclusivity.

Being the representative While AI offers significant voice of UAE banks, the UAE Banks Federation (UBF) has been working in close Bank of the UAE (CBUAE) measures to address the cyber security challenges that are facing financial institutions. first Information Sharing and Analysis Centre (ISAC) Additionally, the ethical Platform, is a prime example. This platform leverages AIdriven insights to enable real-

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time sharing of cyber threat intelligence among member banks, fostering a collaborative defence network against emerging threats.

organising simulated exercises annually, the largest secure and resilient financial of their kind in the Middle East ecosystem in the UAE. and North Africa. Conducted in partnership with entities such as the UAE Cyber Security Council, CBUAE, and local law among all stakeholders enforcement, these exercises ongoing investment in AI provide critical insights into innovation, and commitment to detecting and mitigating raising public awareness about sophisticated attacks.

Beyond security: Empowering customers and driving sustainability

The integration of AI in As AI continues to evolve, so cyber security aligns with the will the cyber threats it seeks broader efforts to enhance to combat. By prioritising customer empowerment and ethical governance, fostering sustainability in banking. By partnerships, and staying leveraging AI, banks can offer ahead of adversarial trends, the personalised products and UAE is poised to lead the global services, granting customers banking sector into a new era of greater control over their resilience and trust. financial data and improving user experiences.

Simultaneously, banking sector is advancing but is also setting a global environmental, social, and benchmark for leveraging AI governance (ESG) principles. to drive innovation, security, AI is being used to assess and sustainability. Together, the sustainability impact of we can ensure that the future financing activities, enabling of banking remains secure, banks to support businesses inclusive, and forward-looking. that prioritise sustainable And we at UBF are committed practices. These efforts reflect to remaining a key integral part the UAE's vision of a balanced of this quest. approach to innovation

one that safeguards both technological as well as societal progress.

The convergence of AI and cyber security is no longer a choice but a necessity for the banking sector. The visionary policies of the Central Bank UBF has responded by of the UAE and the proactive large-scale initiatives of UBF have created cyber-attack a strong foundation for a

> However, the road ahead will require sustained collaboration cyber risks. Customers, too, play a critical role by remaining vigilant and adopting secure practices in their digital banking interactions.

Through these efforts, the UAE is not only protecting the its financial institutions

AI STRENGTHENS THE UAE'S CYBER SECURITY, BUT ALSO BRINGS NEW THREATS

Banks in the UAE are using artificial intelligence (AI) to strengthen their defences against cybercrime while simultaneously bracing for new threats posed by AI-powered attacks



every time someone makes can respond in real time. It has regions.

The country's financial an international banking been developed by Swift, the institutions will be among transaction, an algorithm will default messaging network for growth in the next three years. those ringing in 2025 with be able to detect whether it is international payments that is That's according to KPMG's an AI-powered anomaly fraud or not. The capability used by more than 11,500 banks 2024 Banking CEO Outlook, detection service that uses pseudonymised data around the world. Its rollout which covered banks with proactively identifies and from billions of banking follows a successful pilot that defends against cyber transactions to spot and flag involved financial institutions crime. This means that suspicious activity, so banks in the Middle East and other

Fraud in the financial sector totalled \$485.6 billion in 2023, according to Nasdaq's 2024 Global Financial Crime Report. That's part of \$3.1 trillion in illicit funds that flowed through the global financial system last year. Adena Friedman, Nasdaq's Chair and CEO, said, "Financial crime exploits the most vulnerable members of our society and underpins many of the world's most destructive crimes."

With most banking transactions taking place digitally, cyber security remains a significant concern for the global banking sector. The majority of industry CEOs (81%) say cyber crime and cyber insecurity will have an impact on their organisation's more than \$10 billion in annual

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CYBER SECURITY & AI IN BANKING

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are increasing, and tactics the state news agency WAM, Dr are becoming much more Al Kuwaiti warned that cyber sophisticated, with malware attacks targeting the UAE's serving as a prime example financial sector pose risks of the growing threat," said to national security but said ManageEngine. company "Malware is becoming increasingly sophisticated, allowing it to bypass traditional anti-malware With regulatory guidelines the country's cyber security becoming more stringent, it becomes essential for banks to detect threats early.

"A proactive approach, leveraging AI for threat detection and response, is becoming crucial to safeguard against evolving cyber risks and ensure compliance with ever-tightening security regulations.'

The overall UAE cyber security market is expected to be worth \$1.07 billion by 2029, growing at a CAGR of 12.72% over the next five years, according to Mordor Intelligence. The research firm estimates the size of the UAE billion in 2024.

The rapid digitalisation of the AI, Dr Al Kuwaiti said. UAE economy in the wake of the coronavirus pandemic and with the adoption of AI systems country, Mordor said.

to probe critical infrastructure shared on the platform. "Cyber attacks [in banking] for vulnerabilities. Speaking to Sujatha S Iyer, Head of AI existing cybersecurity defences legislative and regulatory profitability, capitalisation, Security at the software are effectively countering these changes to maintain customer and regulatory initiatives threats.

> the council is developing defences. three new policies to support



Sujatha S Iyer Head of AI Security ManageEngine

cyber security market at \$0.59 system while strengthening the nation's position as a global hub for advanced technology and

Federation's Tasharuk platform

Earlier this year, UAE Cyber attacks, so partner banks can AI for economic growth. It also Perhaps the costliest and most scalability, generalisability and security Council Chairman use the information to detect supports Dubai's roadmap to severe are ransomware. These automation, AI technologies Dr Mohammed Al Kuwaiti and protect against similar enhance residents' quality of attacks typically block access can improve cyber security in revenue across 11 markets. highlighted how hackers use AI threats. Customer data is not life using AI, Yousuf Al Shaibani, to critical systems or sensitive many ways.

> In February, the UBF hosted help partner banks develop losses from cyber attacks over disruptions. appropriate fraud prevention the past two years, according solutions and keep pace with confidence. Simulated cyber provide a financial buffer attacks tested the resilience Set up in November 2020, of banks' cyber security the global banking industry teams and identified areas for there was a 34.3% probability improvement.

> > cyber security workshops said, quoting cyber security confirms UBF's commitment specialist Guidewire. to prioritise the security of the banking system and information security," said to be paying off, UAE banks Jamal Saleh, Director-General will need to remain vigilant of UBF. "We do this under the as threats become more direct supervision of Central sophisticated. AI is being widely Bank of the UAE, which is used to create deepfakes, which keen to develop the necessary hackers apply to replicate regulatory frameworks and human voices or videos and technologies to keep up with bypass security protocols. the latest developments and Thanks to tools available on provide customers with the best the dark net, a clandestine area services in a reliable banking of the internet, a one-minute environment."

More recently, the Dubai Electronic Security Center (DESC) launched the Dubai AI Security Policy, aimed at using AI to bolster confidence in AI solutions and technologies, warnings against deepfake promote their growth and development, and mitigate Since 2017, the UAE Banks electronic security risks. has opened new cyberattack has enabled the sector to UAE's National Strategy for gateways with digital criminal share information about Artificial Intelligence 2031, activity increasing across the incidents and details of internal with the goal of developing an such as phishing and business also help banks strengthen their investigations into cyber integrated system that exploits email compromise (BEC).

DESC CEO said.

to S&P Global Ratings. Strong against cyber threats. Across British software security such complex rules." that a particular bank would be the target of a cyberattack million on average in 2024, an is what Swift is banking on. "The organisation of these as of year-end 2023, S&P

> While their efforts appear deepfake video costs as little as \$300, research from IT security company Kaspersky shows.

In October, the National Bank of Kuwait, which also operates increase on the \$2.23 million in the UAE, put out fresh scams, sharing educational videos, text messages and tips across its communications The policy aligns with the platforms to raise awareness.

The sector also faces threats

customer information, and banks must either pay a Banks in the UAE and the GCC ransom or risk a data breach systems need immense manual Cyber Wargaming 2024 to have avoided major financial and potentially massive upkeep to handle the scale of

> financial services organisations any number of potentially were hit by ransomware, hundreds of features, while according to Sophos, a human analysts cannot write company operating in the UAE. Recovering from such a ransomware attack costs \$2.58 transactions in real time, which



John Shier field CTO, Sophos

reported in 2023.

systems, the technology can losses." defences. Thanks to their speed,

"Without AI, rule-based modern threats," Shier said. "AI models can generalise by Last year, 65% of global learning relationships between

> AI can also help monitor The technology can analyse consumers' behaviour patterns and alert officers to deviations. Then, the innovation inherent in AI systems enables them to adapt to new types of crimes as they emerge. Finally, AI systems can also improve the privacy of consumer data, reducing risks of breaches and identity theft.

"For banks in the UAE, AI can enhance security by processing large volumes of data to identify phishing, ransomware, and BEC attacks swiftly," Shier said. "For combating deep fake voice cloning and AI-driven social engineering, AI-based detection systems are constantly improving to counteract better generative models. Realtime fraud detection has long been powered by techniques John Shier, Sophos' field like predictive analytics and Chief Technology Officer, said anomaly detection, and their although AI stands to introduce widespread use in the financial new threats as large language sector is a testament to their models take over automated efficacy in reducing financial

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INSIDE THE UAE'S AI-DRIVEN BANKING INNOVATIONS

From chatbots to personalised offers, the financial landscape is changing at pace By Keith J Fernandez

Banks across the UAE are racing to capitalise on remain focused on addressing the promise of artificial intelligence (AI), launching and interoperability, while new products and streamlining their operations, all supported transparency, and ethical by an evolving regulatory AI usage to unlock the full framework designed capitalise on emerging technology." technology for economic benefit.

expression of this shift is countries from the Stanford Eva. the voice-based virtual Institute for Human-Centred chatbot from Emirates NBD AI. The analysis looked at that has answered customers' more than 40 different AI questions since 2016. The bank metrics, including investment, also sees applications for AI in infrastructure and research. wealth management and fraud analysis.

Dhabi Bank (FAB), use AI invested in US chipmaker and blockchain to analyse GlobalFoundries, AI Minister financial data and improve the Omar Sultan Al Olama said banking experience. Earlier at the Gitex trade show in this year, FAB announced the October. In 2017, the first AI creation of an AI Innovation strategy led to the creation of Hub for financial services smart systems in what quickly with Microsoft, to focus on became a digital-forward innovation, sustainability and economy. Three years later, the other operational aspects. National Strategy for AI 2031 Also in the capital, Abu Dhabi identified finance as one of Islamic Bank uses natural four mature sectors - alongside language processing and resources, machine learning to automate and retail trade - where financial crime compliance the technology will deliver screening with a view to the largest economic gains. improving financial integrity. Accordingly, government and

Elsewhere, has teamed with tech firms ecosystem for growing AI DataRobot and e& enterprise businesses. A new AI Campus leveraged machine learning was inaugurated at the Dubai to engage current and International Financial Centre prospective customers with this May, aiming to attract hyper-personalised offers and more than 500 companies in communication.

Meanwhile, Mashreq Bank uses advanced analytics and AI to help front-line relationship GCC economies to diversify managers do their jobs better, beyond oil dependency, following the launch of a digital enhance efficiency, and studio for corporate clients. stimulate innovation across Customers using its app can ask various sectors," said Vishu a virtual assistant for instant Singhal, Data Consulting support and transaction Partner at the consulting firm management, while anyone Artefact MENA. who wants to open an account can do so digitally with a quick "Embracing AI presents a driven organisation. Over the a structured approach face scan that validates their significant opportunity for course of the collaboration, emphasising governance and biometrics.

"AI is reshaping the landscape, seamless. hyper-personalised customer the region can fully harness bank staff can make quicker UAE Central Bank (UAECB) interactions while driving AI's potential while mitigating decisions and create hyper- already mandates rigorous significant efficiencies," said Ahmed between government, industry, experiences. Abdelaal, Group Chief and academia will be crucial to Executive Officer, Mashreq. ensuring that AI adoption leads

"Our adoption of generative growth," he added. AI (gen AI) tools, including chatbots and advanced data Gen AI alone, one of AI's in the Global Financial analytics, has allowed us to many sub-technologies, could Services practice at Arthur D. opened an Innovation Hub automate routine processes, add between \$2.6 trillion Little, says UAE banks face at the Emirates Institute of enhance fraud detection, and \$4.4 trillion to the global implementation issues around Finance to train 10,000 banking and deliver tailored solutions economy per year. Mckinsey data quality, governance and professionals in AI through a that resonate with individual research estimates. In banking privacy, adapting to compliance collaboration with Microsoft. customer needs. These and finance, gen AI could add requirements in an evolving innovations not only reduce between \$200 billion and \$340 regulatory landscape, and talent processing times but also billion in value annually, about shortages because skilled AI AI's potential will see UAE elevate customer satisfaction 2.8-4.7% of total industry professionals who can develop banks continue to leverage and empower customers with revenues, the consultancy said. and deploy advanced use cases the technology, Mahieddine faster, more personalised, The biggest gain will come from are hard to find. and more secure financial increased productivity. experiences. By embedding AI into our corporate strategy, we ensure it drives both cost much as \$150 billion in value, talent acquisition, training, and combat fraud, while frontloyalty," he added.

"Moving forward, we challenges like cyber security fostering a culture of trust, to potential of this transformative

In November, the UAE placed fifth worldwide and first in the Perhaps the most visible Middle East on a ranking of 36

Adopting AI has been integral to UAE policy for nearly two Others, such as First Abu decades, when the nation construction semi-government institutions RAKBANK are working to create an AI, financial technology and other sectors.

"Adopting AI is essential for

operational associated risks. Collaboration personalised to inclusive and sustainable its challenges.

has been supporting Emirates Furthermore. NBD's digital transformation innovative AI solutions with journey to becoming an AI- legacy systems will require GCC economies to transition the bank developed more than scalability," he said. into a knowledge-based future. 100 advanced analytics models fundamentally By investing in education and and hired over 70 analytics banking training, fostering innovation professionals to support the enhanced data protection enabling ecosystems, and developing new processes. With analytics protocols will become more intuitive, and clear regulatory frameworks, integrated into its operations,

But adopting AI isn't without

Yacin Mahieddine, Partner

integrating

Ethical AI frameworks and important going forward. The customer testing of AI systems to ensure transparency and accountability. Several regulatory sandboxes govern the use of emerging technologies.

In November, the UAECB

Challenges notwithstanding, says. On the back end, banks will use AI solutions to reduce support and credit scoring personalised banking services, In the GCC, AI could create as challenges, investments in AI customer experiences and data.

"To overcome these operational costs, enhance augmented with social media addressing diverse customer

efficiency and customer about 9% of the bloc's combined partnerships with AI solution end applications will take the "The future holds further GDP, McKinsey said. The firm providers will be critical. form of chatbots for customer integration of AI into

needs with tailored solutions," Mahieddine said.



THE POTENTIAL OF AI UNLOCKED

Dubai AI Week will bring together global thought leaders to zero-in on opportunities and challenges and find the key to progress

leaders and decision-makers UAE and Ruler of Dubai, we are set to come together in are creating an integrated Dubai for a week-long series ecosystem that is shaping the and exhibitions to explore Dubai's position as a global hub advancements, share insights, for AI innovation. AI is integral challenges.

announced by Sheikh Hamdan bin Mohammed, Crown Prince of Dubai, Deputy Prime Minister and Minister has always been at the of Defence, reports news forefront of identifying AI's agency WAM. The first-of-itskind initiative aligns with the and fostering strong public-Dubai Universal Blueprint for private partnerships to drive Artificial Intelligence.

taking place from April 21-25, AI adoption to achieve 2025 - Dubai AI Week will our goals. Dubai AI Week feature a diverse range of will gather global experts and local AI opportunities, events with extensive global to deliver solutions that will showcase key events, opportunities for progress, and including the AI Retreat, Dubai Assembly for Generative AI, innovation and application." Global Prompt Engineering Championship, Machines Can Festival.

Global AI experts, thought and Prime Minister of the of conferences, initiatives future of AI and solidifying and address real-world to future advancements, and Dubai stands as a platform where experts and innovators Dubai AI Week has been can come together to unlock its vast potential."

added: He "Dubai transformative opportunities investment in this critical field. With a clear and focused In its inaugural edition - strategy, we aim to accelerate establish best practices for AI strategic AI initiatives.

Dubai AI Week builds on the



global experts, policymakers, companies, offering a dynamic and industry leaders. Featuring platform to explore emerging four roundtable discussions, the retreat will explore global outline strategies to expand participation. The initiative benefit humanity, create new AI applications across various sectors, and launch ten Engineering Championship

Generative AI, hosted at AREA evaluated by a panel of 12 See Summit, and the Dubai AI success of the inaugural AI 2071, will bring together experts. Taking place at the 2025 Summit, organised Retreat, hosted by DFF in June 1,800 participants, including Museum of the Future and by Polynome Events in 2024 as a main event under ministers, officials, CEOs, AREA 2071, the competition collaboration with Sheikh Hamdan said: "Under the Dubai Universal Blueprint decision-makers, experts, and will focus on optimising AI Artificial Intelligence, Digital the leadership of His Highness for Artificial Intelligence. The global speakers. The assembly solutions for speed, accuracy, Economy and Remote Work Sheikh Mohammed bin Rashid 2025 AI Retreat will take place will feature 25 main sessions and efficiency. A total prize pool Applications office-UAE, and Al Maktoum, Vice President at the Museum of the Future, and 12 immersive experiences of Dh1 million will be awarded DFF, will bring together 5,000

bringing together over 1,000 led by major global tech AI technologies through discussions, exhibitions, and live demonstrations.

Prompt Global The received 2,000 applications, with 40 finalists to be selected The Dubai Assembly for to showcase creative solutions

categories.

Madinat Jumeirah, will attract 5,000 business leaders, 500 investors, and 100 exhibitors and from 100 countries. Organised organisations to strengthen by the Dubai AI Campus in their presence in the region's partnership with the Dubai thriving AI ecosystem and International Financial Centre attract top talent. (DIFC), the festival will serve as a platform for global leaders to exchange ideas, form feature the launch of a partnerships, and showcase comprehensive week-long groundbreaking AI projects.

The Machines Can See Summit, making its debut Development during Dubai AI Week, will (KHDA). The initiative aims welcome 5,000 visitors for its to educate students about exhibitions, 850 participants, Artificial Intelligence concepts and 40 global experts and and its future applications, speakers. This event will inspiring them to actively bring together executives, participate in shaping the researchers, and startups to foster collaboration and showcase advancements in machine vision technologies, a key area of AI innovation.

The Machines Can See the

across four competition industry leaders, including 100 senior executives from top technology companies, 300 The Dubai AI Festival, held at startups, and leading academic researchers. The event will offer opportunities for networking growth, enabling

> Dubai AI Week will also programme in Dubai's schools, in collaboration with the Knowledge and Human Authority future of various industries

> Dubai AI Week is set to become a cornerstone event on the Dubai calendar, uniting global experts across a week of activations to showcase innovations, tackle sector challenges, and establish best practices for AI integration, further cementing Dubai's leadership in AI innovation. --WAM

CYBER SECURITY AND TRUST – CAN AI BE THE GAME-CHANGER FOR FINANCIAL INSTITUTIONS?

Ahmed Abdelaal, Group Chief Executive Officer, Mashreq, considers this key question

customer expectations are data, integrating longer whether banks can keep analytics. AI, and a robust

it as the backbone of modern our operations. banking. This technology enables us to not only protect Trust goes beyond security, our customers but also it's about experience transform their experience, building trust in ways previously unimaginable. AI, the game itself.

Role of AI in cyber security

Banking is a high-stakes industry, and every interaction hinges on trust. Customers is powered by AI, from entrust us with their most chatbots that resolve issues sensitive data, and we must instantly to personalised ensure it is impenetrable. recommendations that feel Traditional methods of fraud tailor-made. Customers are detection and prevention are no longer just numbers in a no longer sufficient. Static database, they are individuals rules and reactive strategies whose unique needs are met cannot compete with the speed with precision. and sophistication of modern cyber threats.

Trust is the foundation of At Mashreq, our Eagle Eye based on real-time customer and development strategy banking, but in today's digital- platform is a testament to behaviour. It's not just about identifies skills gaps and first world, it is under constant what cutting-edge AI can meeting expectations but equips employees with the threat. Financial institutions achieve. It consolidates vast about exceeding them. And knowledge to thrive in an operate in an era where sets of transactional, non- when we do, trust isn't just AI-driven workplace. From cybercriminals are relentless, transactional, and third-party maintained, it is elevated. various skyrocketing, and competition risk detection engines. Innovation comes with is fierce. The question is no By leveraging advanced up, it's whether they can lead. tech stack, it presents risk Artificial intelligence (AI) is outcomes through advanced proving to be the decisive force visualisations and automates that allows us to do just that. investigation narratives. This not only strengthens financial At Mashreq, we don't view AI crime mitigation but also as a buzzword or a trend. We see enhances productivity across

Let us be clear, cyber security alone isn't enough. In today's when harnessed strategically, banking landscape, trust is is not just a game-changer, it is built through personalised, seamless experiences. Customers expect more, and they deserve more. AI enables us to deliver exactly that.

Every interaction at Mashreq

Take loyalty programmes, for example. AI-driven insights This is where AI delivers. allow us to tailor rewards

responsibility

As a Group CEO, I firmly AI is the future, but leadership believe that with great is critical innovation comes even greater responsibility. AI is an incredibly powerful tool, but its use must be transparent and ethical. Customers have a right to understand how decisions security threats will continue are made, which is why we to evolve, but we are prepared. prioritise explainable AI at By combining AI-driven Mashreq.

judgment.

technological advancements making. can create among employees. That's why we have invested The road ahead heavily in upskilling our workforce, ensuring they view

Our comprehensive learning trust.

regular training to mentorship opportunities, we empower our teams to stay ahead of technological advancements.

We are leveraging AI to drive sustainable practices, enhance ESG goals, and strengthen our operational resilience. Cyber innovation with a relentless focus on customer trust, we are We have also ensured human not just reacting to challenges, oversight remains integral. we are shaping the future Our Human-in-the-Loop of finance. Our resilience is approach guarantees that AI bolstered by partnerships with operates within well-defined fintech disruptors, allowing us boundaries, combining the to explore opportunities such efficiency of technology as open banking and embedded with the wisdom of human finance. Furthermore, AI supports our ESG goals by reducing resource waste and We recognise the anxiety that enabling sustainable decision-

AI as an enabler, not a threat. at a crossroads. Institutions our choice. We are not just it is powered by AI, driven by A digitally empowered team is that fail to embrace AI risk adopting AI; we are leading trust, and guided by visionary key to delivering the trust and obsolescence. Those that with it. From transforming leadership. At Mashreq, we are empathy our customers value. do must do so responsibly, cyber security to redefining proud to set the standard. balancing innovation with customer experiences, AI is at



Ahmed Abdelaal Group Chief Executive Officer, Mashreq

The banking industry stands At Mashreq, we have made The future of banking is clear, the heart of everything we do.



GLOBAL LEADERS IN INNOVATION

AI is revolutionising banking in the UAE and Middle East

The banking sector in the The cost-saving imperative UAE and the broader Middle

East is undergoing a seismic Operational efficiency transformation, driven by remains a primary driver the integration of artificial for AI adoption in Middle intelligence (AI). No longer Eastern banks. From merely a futuristic concept, automating repetitive tasks meet evolving customer reinforcing the Middle East to market shifts. Whether it's AI is now a cornerstone in to enhancing fraud detection, expectations.IntheUAE, where as a hub for high-net-worth adjusting interest rates in strategies for cost reduction, AI technologies are reducing the tech-savvy millennial experience reliance on manual processes. and Gen Z population forms a enhancement, and market Chatbots, for example, are significant market segment, Expanding market share expansion. Regional banks are becoming commonplace for banks are using AI to deliver not just adopting AI; they're handling customer queries. personalised pioneering its deployment in These virtual assistants solutions. ways that set benchmarks for work 24/7, offering real-time innovation worldwide. service teams.

customer

Why AI in banking?

these needs while aligning

with regional priorities.

data is invaluable.

Banks globally face rising AI-powered operational costs, heightened management is another plans to offering locationcompetition, and increasingly critical area. Advanced based deals, the app uses Predictive analytics help significant challenges. The the possibilities for the region's tech-savvy customers. In the algorithms now predict loan machine learning to anticipate banks to identify potential Middle East, these challenges defaults with greater accuracy, and cater to customer needs. customers and tailor marketing proactive steps by issuing The institutions that adapt are compounded by economic enabling banks to mitigate These initiatives not only efforts. For example, AI can guidelines for AI in financial quickly and strategically will diversification agendas like the risks proactively. As a result, improve customer satisfaction analyse transaction patterns services, ensuring innovation not only save costs but also UAE's Vision 2030 and Saudi banks in the region can allocate but also attract younger to suggest relevant credit progresses responsibly. Arabia's Vision 2030, which capital more effectively, demographics, ensuring banks products to small businesses, demand that banks keep pace supporting sustainable growth stay relevant. with rapid digitalisation. AI while maintaining robust offers a solution that addresses financial health.

by the International Data natural language processing changer. With over 80% AI-driven future. This human- By slashing costs, creating At its core, AI enables banks Corporation (IDC), Middle (NLP) to automate Shariah smartphone penetration in AI collaboration is critical for groundbreaking products, and to optimise costs through Eastern banks that adopt compliance checks, ensuring the region, digital-only banks maximising the technology's enabling market expansion, automation, deliver hyper- AI-driven automation can their products align with powered by AI are reaching potential while maintaining it positions regional banks as personalised services, and potentially save up to 25% religious principles while underserved populations, a human touch in customer global leaders in innovation. pioneer products that redefine of their operational costs by accelerating time-to-market. particularly in rural and interactions. traditional banking. In an era 2025. This focus on efficiency where agility is paramount, AI's positions them well to remain ability to streamline processes competitive in an industry wealth and analyse vast amounts of facing margin pressures. By analysing customer modernise economies while The Middle East's embrace of tomorrow.

Pioneering products and experiences

financial

support at a fraction of the cost Take Emirates NBD, for hyper-competitive Middle risk users. From suggesting savings gain market share.

In Saudi Arabia, AI is enhancing Islamic banking AI-driven financial inclusion in upskilling programmes to the UAE and the Middle East According to a recent report products. Banks are leveraging efforts are another game- prepare their workforce for an at an unprecedented pace.

bespoke investment advice, lucrative, untapped market. region's individuals empowering to make smarter financial

AI is not just about retaining customers – it's about capturing new ones. In the

a critical sector in the UAE's

remote areas. This focus AI is also transforming on inclusion aligns with The Middle East leads the way management. government agendas to

Beyond cost savings, AI decisions. Such offerings banks to make faster and more recognise that AI is not merely empowers banks to create resonate with the region's informed decisions, enabling a tool - it's a catalyst for innovative products that affluent customer base, them to respond dynamically transformation.

Challenges and the road ahead

the lifestyle preferences of its differentiate themselves and compliance, data privacy disruption. concerns, and the cost of implementation remain UAE Central Bank has taken banking sector are boundless.

> Another challenge is will aspire to meet. economic diversification goals. ensuring staff are equipped to

data, banks can provide presenting banks with a of AI in banking reflects the

forward-thinking ethos. Governments and Moreover, AI is empowering financial institutions alike

real-time or launching new position as a global financial products based on emerging hub, AI-driven banking customer trends, AI equips innovation enhances its banks with unparalleled agility. competitiveness on the world stage. For customers, it means better products, seamless experiences, and more Despite its promise, AI personalised services. And for of maintaining large customer example. Its AI-driven Liv Eastern banking landscape, adoption in banking is not banks, it offers a roadmap to digital bank tailors services to AI enables institutions to without hurdles. Regulatory sustainable growth in an era of

> As AI continues to evolve, redefine the future of banking, setting standards that others

leverage AI. Banks are investing AI is reshaping banking in The journey is just beginning, but the message is clear: those who invest in AI today are building the banking empires

ON THE FRONT FOOT

The Cyber Wargaming event rallies troops to ensure cyber security teams are up to the challenge of safeguarding financial systems, providing secure banking for every customer



Staying ahead of potential threats to digital infrastructure is vital and an annual event attended by key figures in the banking and financial sector has been created to do just that.

Cyber Wargaming is organised under the supervision of the Central Bank of the UAE and the Cyber Security Council. It aims to protect the sector's digital infrastructure and provide a smooth and secure banking experience for all customers in the face of rapid technological development.

The event is characterised by specially designed simulated cyber-attacks. These help member banks' cyber security teams

to examine possible risks and identify strengths and gaps in their systems. Cyber security exercises improve knowledge of the techniques, methods and procedures used by attackers – and the factors that are the source of threats.

Cyber Wargaming is the largest event of its kind in the Middle East, attended by representatives from GCC central banks. leading UAE banks, financial and technology institutions, cyber security experts from the banking and financial sector, and strategic partners of the Federation.

AI AND CYBER SECURITY: TRANSFORMING **BANKING IN THE UAE**

ADIB leverages technology to protect its customers

Intoday's interconnected world, the banking sector faces a dual challenge: harnessing the transformative potential of Artificial Intelligence while combating increasingly sophisticated cyber threats. Abu Dhabi Islamic Bank is leveraging AI technologies to enhance security and define smarter, better ways to protect customer data.

AI-driven tools enable faster and more accurate fraud detection by analysing data in real time to identify and neutralise potential threats. ADIB's ACE Command Centre and Security Operations Centre utilise data predictive analytics to find fraud trends and improve customer experience. ADIB adopts the latest technologies using blockchain, such as the UAE Trade Connect platform, to secure trade finance transactions and reduce fraud risks.

Recognising the importance of customer engagement, ADIB launched its "Check Before You Click" campaign as part of Cyber Security and Data Privacy Month. This initiative

underscores a critical message: never trust unfamiliar links, attachments, or connections without verifying their authenticity. By empowering customers with knowledge and practical advice, ADIB extends its cyber security efforts beyond technology to ensure its customers have a safe banking experience.

حمانة

ADIB closely aligns with the UAE's National Artificial Intelligence Strategy 2031, which envisions the country as a global leader in AI innovation. For banks, this strategy provides a framework for technological innovation and prioritises modern cyber security measures to elevate customer trust in AI technologies.

ADIB's approach highlights a commitment to blending innovation with customer-centricity. By combining advanced technologies and customer awareness, the bank is leading a secure AI-powered banking experience and cobuilding a resilient financial ecosystem that fits the UAE's aspirations for technological and economic leadership.

SECURING THE FUTURE OF PAYMENTS, ONE TRANSACTION AT A TIME

Charles Lobo, Regional Risk Officer for Central and Eastern Europe, Middle East and Africa at Visa, highlights the value of trust

a global leader in payments, 14,500 financial institutions paramount, which is why we merchants commerce.

in 1993, making us pioneers in detect and prevent criminal applying neural networks for activity before it impacts our real-time fraud analytics. This clients and partners. forward-thinking approach has given us a significant Speed is critical in the fight advantage: data. Data is our against fraud. Every month, superpower. Processing over we block an average of 90 20 billion raw events daily, we million attacks on our APIs and possess 60% more data than applications, 340 million bot our competitors combined, attacks, and 11 million phishing giving us unparalleled insights attempts. This proactive into emerging threats.

investment in AI and data 97% - and we continue to infrastructure over the past strive towards our goal of 100% decade has prevented an security. estimated \$40 billion in fraudulent transactions in the While some may view AI past year alone, enabling us to with apprehension, we see it identify and neutralise threats as an essential tool for good. with unprecedented speed and Just as fraudsters leverage AI to accuracy.

us; it's the engine driving our learning capabilities address security strategy. We leverage long-standing challenges for all

In today's interconnected hundreds of AI models across world, the digital economy over 100 products, constantly thrives on trust. Every time learning and adapting to the a consumer taps their card ever-shifting landscape of or clicks 'buy now', they're cyber threats. With Visa's anticipating them - a critical placing their faith in a system network spanning over 200 strategy to stay one step ahead to protect their finances. As countries, partnering with Visa understands this trust is and more than 130 million worldwide, are investing heavily in cutting- maintaining that trust requires edge Artificial Intelligence constant vigilance. These (AI) to safeguard the future of models analyse up to 500 unique risk factors in just 300 milliseconds - faster than Our journey with AI began you can blink - allowing us to

approach has dramatically increased our fraud detection Our strategic \$3 billion rates from 62% to an impressive

we use it to build even stronger

stakeholders in the payments ecosystem - buyers, sellers and financial institutions. We're not just reacting to threats, we're of bad actors.

Our commitment to security extends beyond our own network. Recognising the need for universal protection, we've expanded our advanced solutions, Visa Advanced Authorisation (VAA) and Visa Risk Manager (VRM), to support non-Visa card payments. VAA provides realtime risk scores for every transaction, while VRM empowers issuers to optimise authorisations by combining real-time insights with custom risk strategies. These networkagnostic solutions provide a consolidated platform for mitigating risk across the payments landscape.

In a world where digital threats are constantly evolving, complacency is not an option. Visa remains steadfast in our commitment to leveraging the power of AI to build a more secure future for everyone - because it is only through continuous innovation and develop sophisticated attacks, collaboration that we can ensure that trust remains the AI is not just a buzzword for defences. Our AI and deep bedrock of the digital economy.



Charles Lobo

Regional Risk Officer for Central and Eastern Europe, Middle East and Africa at Visa

MSA

\$3.3 billion invested

in the last decade on Al and data infrastructure to enable secure transactions and proactive fraud prevention.

