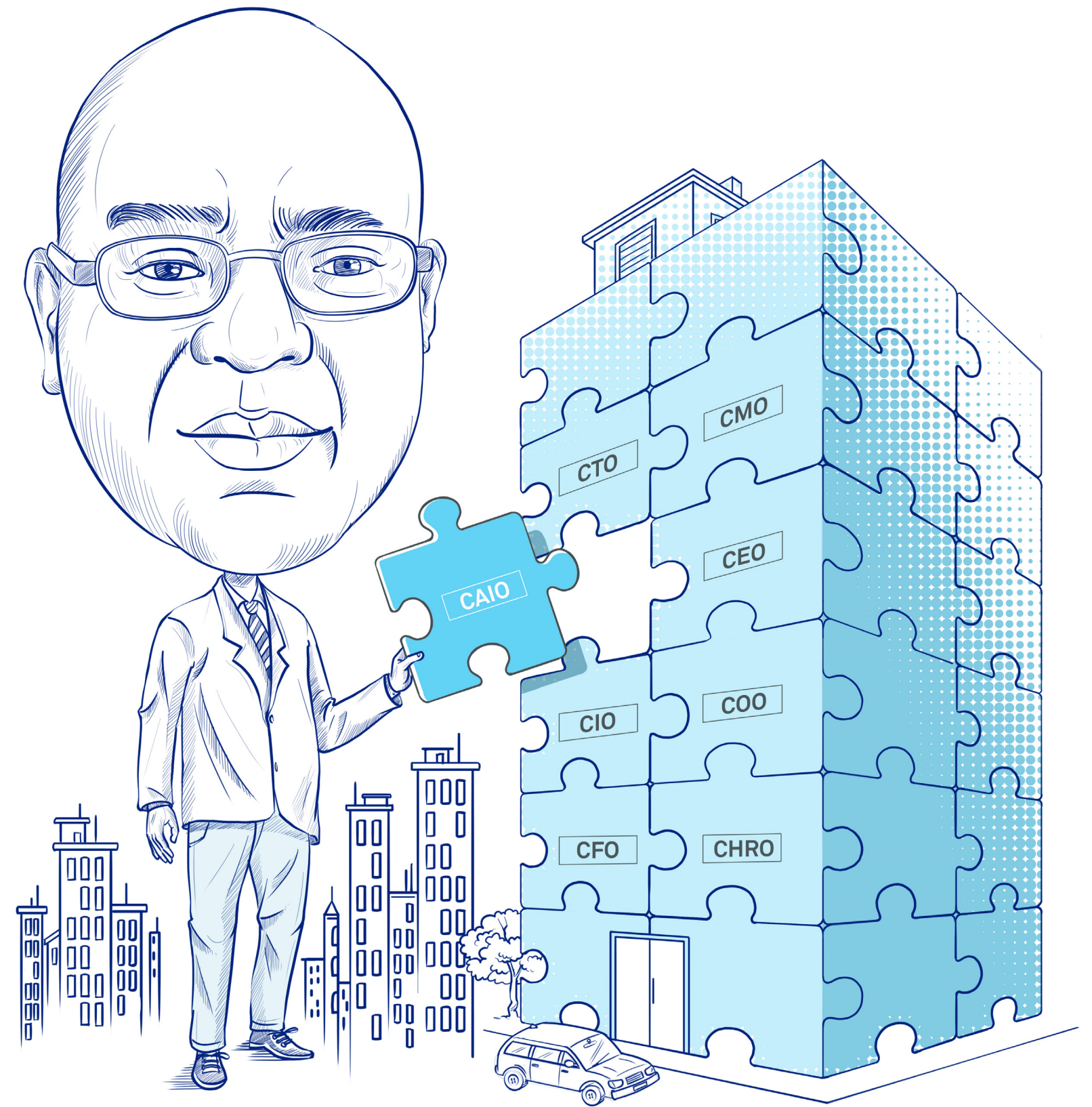


THINK TANK
BY LAB45

Embrace AI or face extinction. Enterprise needs a chief AI officer.

Break the box by Hussain S Nayak



Why enterprise needs a chief AI officer?

With so many users within the enterprise meddling with AI, the enterprise will eventually have AI technologies in various departments and business areas using different applications, tools, and APIs resulting in data interoperability and regulatory challenges. Therefore, the enterprise needs to develop a comprehensive AI strategy consisting of an overall plan to identify, communicate and capitalize on AI opportunities while simultaneously managing risks associated with their use.

Chief Artificial Intelligence Officer (CAIO) must collaborate with stakeholders, users, software developers, and clients to provide an overall vision and roadmap of how AI will be used within the enterprise. Seizing strategic opportunities and managing risks are the areas of influence that could mostly benefit from such an integral role.

In the absence of a CAIO, the enterprise faces the following issues:

1 Piece-meal and ad-hoc AI software development driven by a tactical approach.

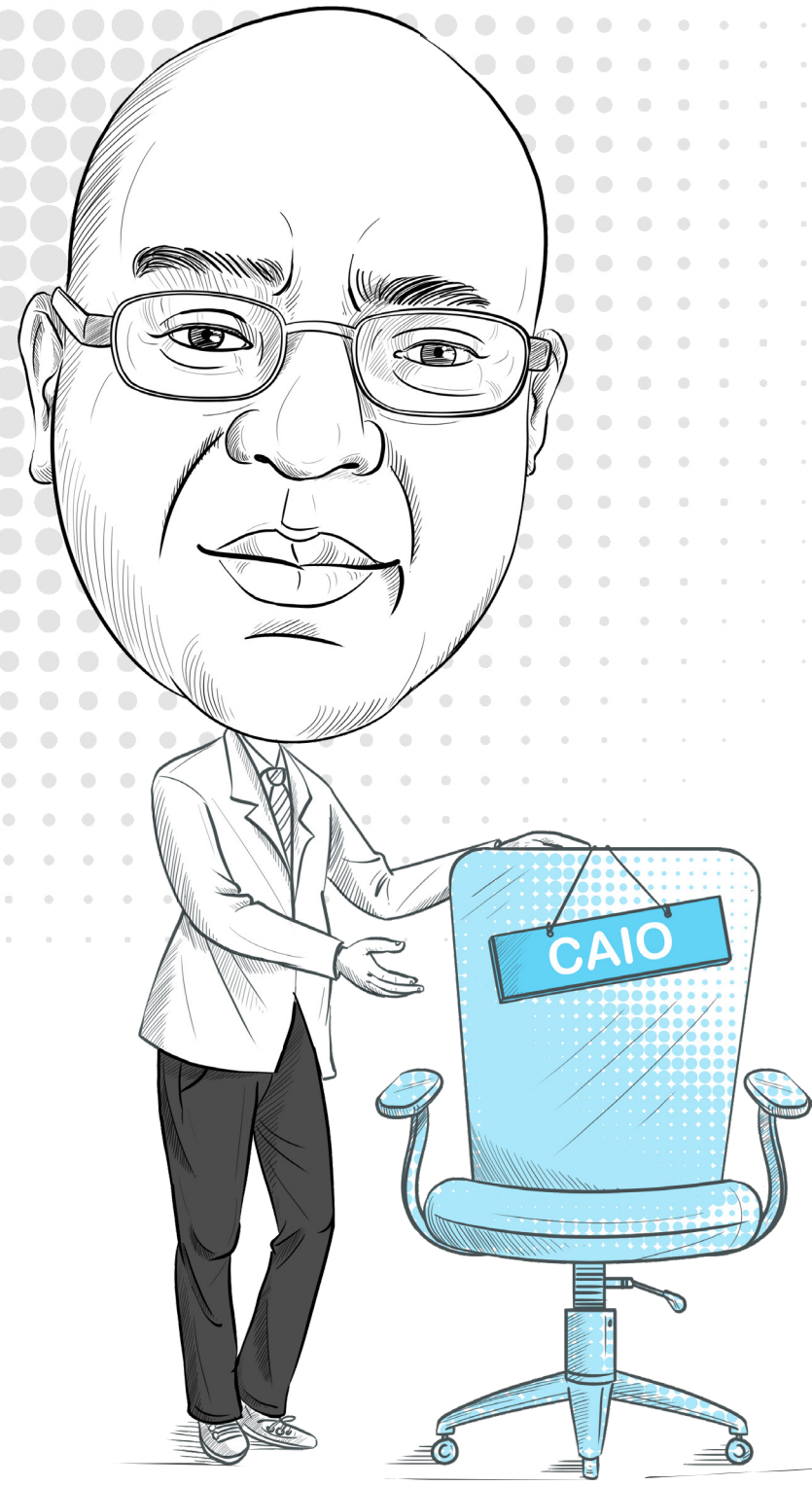
- 2 Inability to rapidly respond to AI technology changes driven by business/technology challenges and no holistic enterprise AI view
- 3 Complex, fragile, and costly AI data interfaces between incongruent applications and data.
- 4 Incomplete visibility of the current and future AI architecture, slow and ineffective decision-making.
- 5 Lack of commonality and consistency due to the absence of enterprise AI standards, policies, and guidelines.

Chief AI Office must build partnerships, acquire licenses, train employees, and provide recommendations on how and where to apply AI at every enterprise level. CAIO is not someone in the company who codes or trains an LLM. Instead, that person is an enterprise AI strategist directly reporting to the CEO. The position of CAIO is responsible for guiding enterprises through the complex world of AI vision, setting standards, principles, and AI initiatives, defining job roles, and ensuring that they stay ahead

The Office of CAIO is responsible for the overall AI vision, strategy, architecture, solution alignment, and AI architecture–implementation governance for all IT projects.

of the curve, capitalizing on the immense potential of this cutting-edge technology.

The Chief AI Office aims to improve alignment between all AI projects and aligned principles/ standards and ensure that AI inter-architectural dependencies between functions/applications are managed efficiently. In addition, ensure alignment between AI, IT, and business by enhancing the ability of the enterprise to better control AI-related implementations in a



manner that supports the Enterprise's overall IT Vision and Transformation Strategy.

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What skills should the chief AI officer have?

Enterprise AI is a long-term, sustained endeavor. AI is still immature, application research is in progress, evolving quickly in new products, platforms and services, so expecting everyone in the C-suite to understand it completely with practical experience is unreasonable. To the majority of enterprises that have data but lack a deep understanding of AI knowledge, the recommendation is to have a Chief AI Officer with both enterprise domain and technology knowledge. Having the right AI leader can dramatically increase the odds of success and enterprise risk management. Key skills that CAIO should have include:

1 Good technical understanding of AI knowledge and enterprise data infrastructure: In addition to AI knowledge, understanding data infrastructure is

critical for success. Knowledge of how enterprise databases are organized can ensure that all the relevant data is stored securely and is accessible.

- 2 Ability to work with cross-function teams, emerging digital technologies, research and development:** AI itself is not a product or business; it is a foundational building block that can help existing lines of business and create new products or lines of business. Therefore, understanding and working with diverse business units or technology teams is critical for success.
- 3 Strong strategic thinking, decision-making, and communication skills:** AI creates opportunities to build new products and services, such as from self-driving cars to speakers or even those applications that might even have been in the realm of science fiction till a few years back. A leader who can manage intrapreneurial initiatives will increase the odds of successfully creating such innovations for the enterprise.
- 4 Ability to attract, motivate and retain AI talent:** AI talent is highly sought after among new college graduates, and there is a clear difference in compensation for students who specialize in AI. A good CAIO needs to know how to retain talent,

motivate and work with them, for instance, by emphasizing interesting AI projects and offering team members the chance to continue to build interesting skill sets.

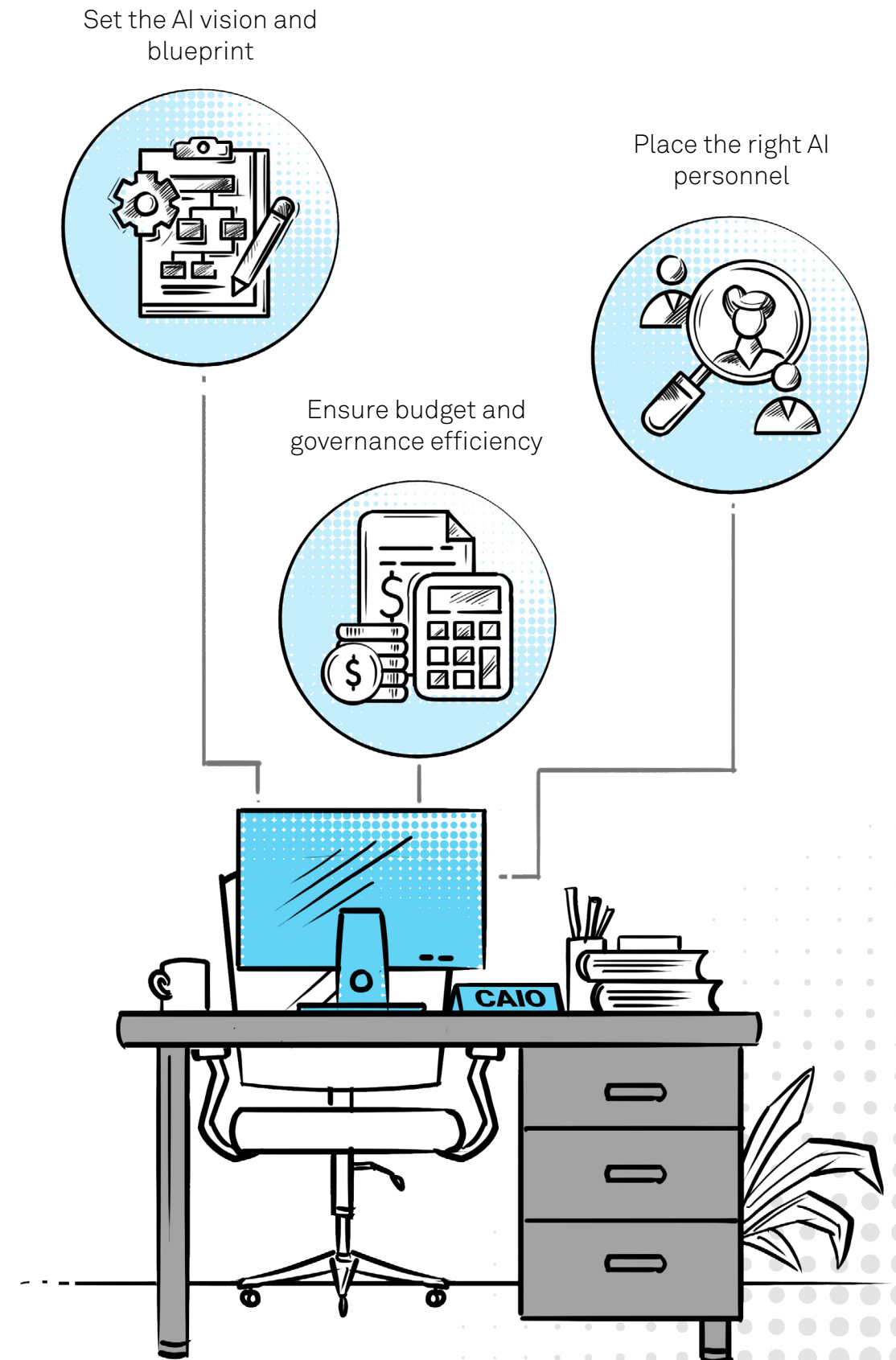
An effective Chief AI Officer should have experience in managing AI teams and adoption of emerging technology. With AI evolving rapidly, the CAIO will need to keep up with AI and digital technology changes, and also emerging technologies of AI-IT-Business alignment. More importantly, the CAIO needs to work on cross-functionally across enterprise and should have the business skills to figure out how to adapt AI tools in enterprise strategy.

What activities does the chief AI officer perform?

The Chief Executive Officer has three key goals: set the AI vision and blueprint, put the right AI people in place, and ensure budget and efficient governance across AI project initiatives. The Chief AI Office maintains the holistic AI view of the entire enterprise's business, IT, and information with respect to AI strategy, architecture, and solution blueprints. The Chief AI Office helps to align AI with business and IT in a structured, efficient, and sustainable manner.

This officer should work in collaboration with Program Management Officer, Chief Technology Officer, Chief Strategy Officer, and Chief Security Officer, and should focus on the following key activities:

- 1 Identify new opportunities and drive AI innovation:** Identify new opportunities that make employees more productive, save money, save time, or have less skilled workers become skilled. Futureproofing with a different tech stack, redefining job roles, or scaling up to new levels. Also, ensure AI tools, LLMs, and strategies are futureproofed; fit for purpose right now with flexible capabilities, keeping in mind that more change is inevitable. Identify AI business functions, technical requirements, and architectural guiding principles for business and IT transformation and ensure their adoption across all projects.
- 2 Implement the AI strategy and streamline business processes and operations:** Contribute to the enterprise's overarching vision and strategy for using AI while following a structure. Once an initial testing period has passed, there should be records, tracking, metrics, and progress markers. Enterprises are too late to incorporate automation and artificial intelligence, which means they might miss the efficiency gains that can be made.

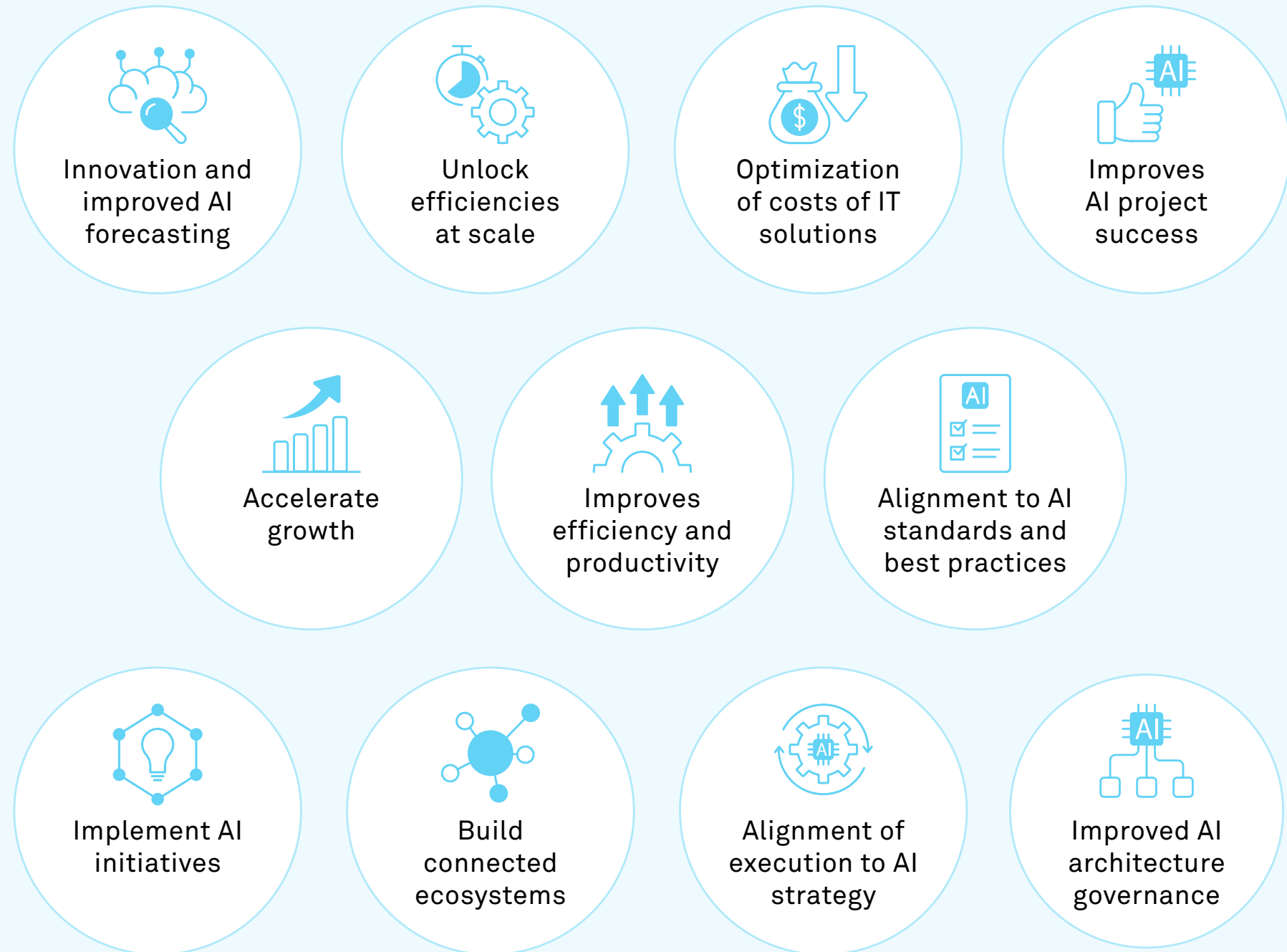


The CAIO identifies where processes can be streamlined within the enterprise and improves operations to run without waste. Works with the technical and solution architects to verify and validate that the AI applications and technology architecture analysis, design, and implementation are carried out per the defined guiding principles and address the architectural concerns.

3 Build an AI-focused team, standards, and best practices: Act as a coordination point between the business leaders, solution architects, project managers, and subject matter experts i.e., a CAIO who oversees everything. Seek out best practices in one department and apply them elsewhere, creating methods and standards and ensuring the orchestra plays the same tune. Complete AI architectural compliance reviews of the application and Enterprise Architecture deliverables.

4 Invest and diversify into new potential market opportunities: Create a suitable tech stack that will serve the enterprise now, from a capability and costs perspective, as well as the ability to adapt to future compliance requirements. Expand into new markets and even go international. Enterprises of all sizes can leverage AI to penetrate previously unreachable markets. To help enterprises make

Chief AI officer - Value proposition



quality AI decisions regarding which IT applications should be rationalized/virtualized/standardized, which business functions or processes can be re-aligned, and what associated benefits will accrue.

4 Measure AI initiative success, implementation of learnings, and make ethical considerations:

If a team uses tools incorrectly or avoids them altogether for fear of losing their role to the robots, the CAIO can educate them as required and set their minds at ease. The CAIO can help them measure success to keep the momentum going. The Chief AI Officer will determine the future of AI implementation for business.

Suppose the person training a recruitment AI model is slightly biased toward candidates with a particular name, the bias will be multiplied if the model is left to make hiring decisions. A good CAIO is aware of bias and risk management.

How to manage AI across enterprises?

CAI Office should report to CEO/CTO office and should focus on AI technology direction and AI perspective enterprise business-IT alignment. In addition to AI architecture blueprints, it should focus on a holistic

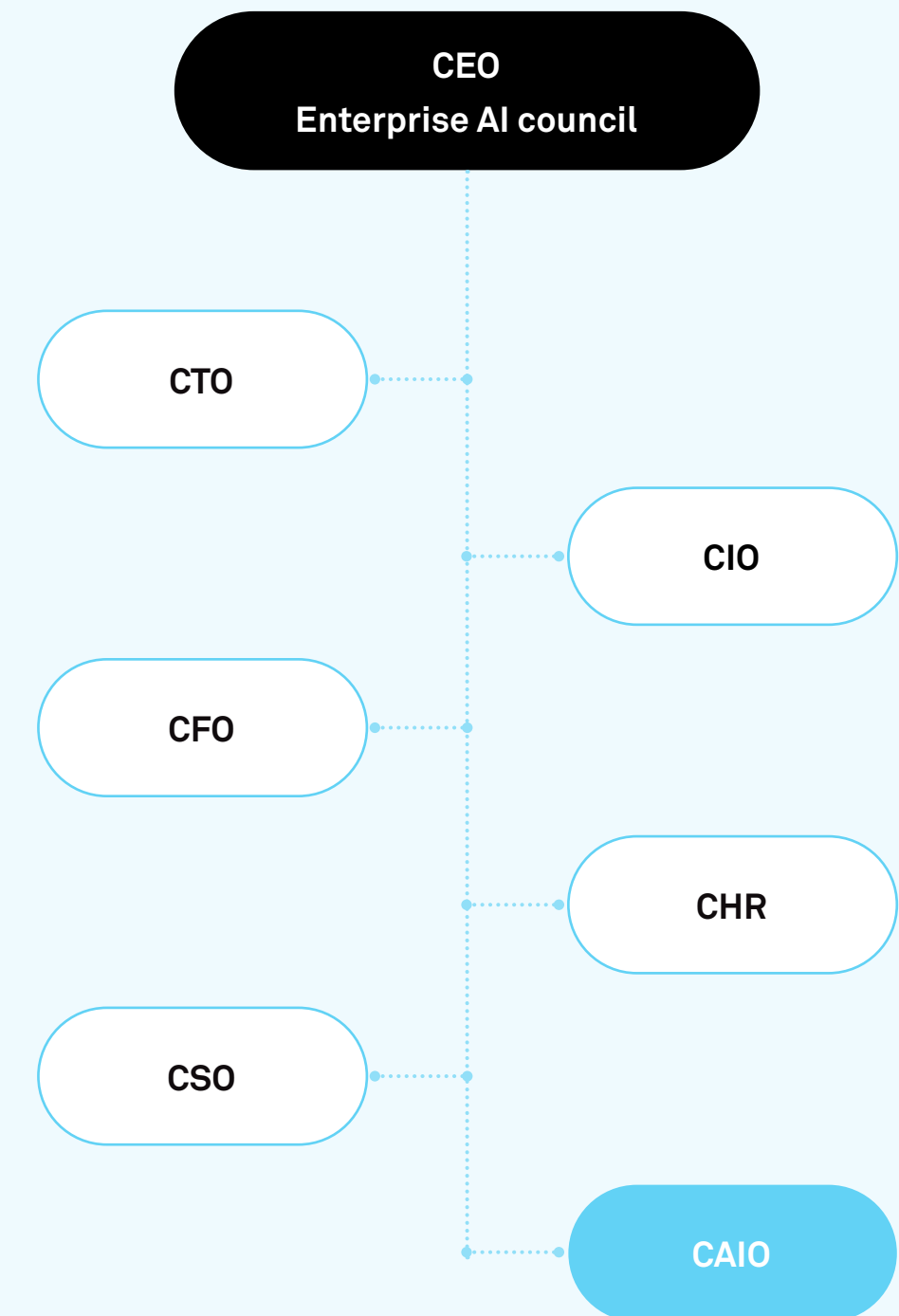
view across business and IT. Also, the inclusion of AI in digital transformation program technologies such as mobility, cloud, AI, analytics, automation and IoT should be worked upon.

AI governance is an integrated approach, a series of processes, a cultural orientation, and a set of owned responsibilities that ensure the integrity and effectiveness of the enterprise AI architecture. The AI Office is responsible for managing key governance processes of AI and all related efforts to document and administer the architectural assets that support the fulfilment of the enterprise mission and goals as part of the enterprise transformation programme.

Lack of AI architecture governance may result in non-standardized technology/product selection/purchasing/development and inconsistent architecture, leading to monolithic implementations (“built in silos”). These will have a long-term financial and operational impact and issues related to integration, collaboration, and standardization will get created, which will be difficult to manage and maintain at the enterprise level.

A key element in a successful AI governance strategy is a cross-organizational AI Board/Council to oversee the creation and implementation of AI strategy across business functions or technologies. This body will be

Chief AI officer – Enterprise AI council structure



representative of all the key stakeholders of enterprise such as CEO, CTO, CSO and CAIO. It will comprise a group of executives responsible for reviewing and maintaining the overall AI architecture artifacts. The AI Board/council is the primary oversight body for Enterprise and has delegated authority from the AI strategy group to make most Enterprise decisions.

What about strategic business opportunities?

Given that AI is now effectively in the hands of the consumer, business opportunities exist for enterprises to capitalize on. However, strategic plans must be in place to align AI initiatives with the enterprise, its employees, stakeholders, and clients. Business opportunities may include enhancements to existing products and features, improvements in processes, new business services, and new products altogether.

Enterprises with proprietary data, in-house AI development skills, domain knowledge, and proven innovation systems are best positioned to excel in new AI business opportunities. In addition, new roles are emerging such as “prompt engineers” — a professional specializing in developing, refining, and optimizing AI-generated text prompts to ensure they are accurate,

engaging, and relevant for various applications.

In general, implementing AI includes: Define AI strategy, Identify opportunities, Gather data, Organize data engineering, Architect, Proof testing of AI initiative, Learnings and Enterprise wide implementation

Risk frameworks are getting developed within enterprise to mitigate financial losses, reputational damage, and loss of trust and also to minimize regulatory breaches, security breaches, fraud, etc. Allowing employees access to AI tools without a risk management framework and continuous training increases an enterprise’s exposure to these risks. Furthermore, if employees or customers base their decisions on the outcomes of these tools, without being aware of the risks, such as the quality of data, modelling bias, lack of transparency, model explainability, etc., to name just a few areas, AI could potentially be dangerous, misused or misunderstood.

Here are a few examples where risk management is critical:

1 Data quality: The amount of data and its quality influence the outcomes of models. Consider issues such as invalid or missing data, gaps, timeframes, etc. In addition, models also need to be maintained

and updated, hence the surging interest in machine learning operations.

- 2 Model biasing:** AI models need to consider model bias. For example, facial recognition software may have been trained more on ethnic backgrounds, this may lead to biased results.
- 3 Ethics:** Enterprises AI applications need to consider ethics aspects. For example, imagine a restaurant app using an AI model to suggest recommendations to a diner and the app hasn’t fully taken into consideration the allergies. This may result in negative health consequences due to wrong AI advice.
- 4 Regulatory frameworks:** Many regulated industries such as banking, healthcare, and insurance, may or may not have regulations specific to AI.



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