GAMUDA GROUP STRENGTHENS REGIONAL INNOVATION WITH GOOGLE CLOUD AI
A high impact collaboration that powers successful regional infrastructure projects and builds high value digital roles for the industry

8 March 2024, Petaling Jaya: Gamuda Berhad, a regional leader in engineering and property development, today announced an expansion of its long-standing collaboration with Google Cloud to make enterprise-grade generative AI (GenAI) capabilities accessible and useful to every Gamuda employee, empowering them to more efficiently and innovatively deliver engineering, construction, and public infrastructure projects in the region. Having built a unified data platform and modernised its workloads on Google Cloud, Gamuda is deepening its commitment to digitalising and redefining the construction landscape with GenAI.

In an industry often slow to adapt, Gamuda has always leveraged innovation as a differentiator, and has a long track record of groundbreaking achievements. From the innovative design of the SMART Tunnel, a dual-purpose stormwater management and roadway project, to the world's first Autonomous Tunnel Boring Machine (A-TBM), Gamuda has consistently pushed the boundaries of what's possible using technology. This marks a monumental shift from traditional practices toward a pioneering vision of digital- and AI-driven engineering and construction excellence.

"Our collaboration with Google Cloud isn't just changing how our infrastructure projects are built; it's also creating much stakeholder interest across our projects in Malaysia, Australia, Taiwan, Vietnam, Singapore, and the wider industry. Some of our clients have recently opted for our systems over their traditional ones, and by embracing technology, we're also pioneering exciting digital career paths for our engineers," said John Lim Ji Xiong, Group Chief Digital Officer, Gamuda Berhad.

Central to this transformation is the Gamuda Innovation Hub. This long-term initiative fosters a culture of continuous learning and experimentation, inculcating strong competencies in Google Cloud technologies. The Hub has upskilled Gamuda's workforce, transforming a team of 50 engineers from traditional industry backgrounds into cloud architects, data engineers, and software engineers, and AI engineers. Equipped with the skills to leverage Google Cloud's intuitive suite of tools, these engineers develop custom systems that seamlessly integrate across all of Gamuda's projects. This commitment to nurturing in-house talent ensures a workforce that possesses not only the technological expertise but also a deep understanding of construction industry needs, ultimately driving rapid innovation.

A prime example is the unified data platform that provides Gamuda's design, engineering, finance, supply chain, and field operations teams with an all-encompassing, real-time perspective of project workflows. Notably, this is also enabled by the successful migration of Gamuda's SAP enterprise resource planning systems from Amazon Web Services to Google Cloud, and the implementation of Google Cloud's Security Command Center for an additional layer of cybersecurity.

Combining the growing dataset from these workflows with Google Cloud's enterprise-grade GenAI will empower agile, data-driven decision-making across complex, long-term regional infrastructure projects. The adoption of GenAI capabilities isn't limited to a select few;

capabilities on Google Cloud's Vertex AI platform have enabled Gamuda to create tools for everyone involved in its project ecosystem. This includes GenAI-powered search assistants and chatbots to help employees synthesise thousands of pages of market research documentation into crisp summaries within minutes, query data from hundreds of past projects for insights to inform new project tender proposals, and further optimise autonomous tunnelling operations in construction projects like the Defu and West Coast Mass Rapid Transit stations and tunnels in Singapore and the Sydney Metro West-Western Tunnelling Package in Australia.

"Construction has traditionally been a labour-and process-intensive industry with lengthy project cycles, but Gamuda has swiftly transformed this paradigm by embracing digitalisation and gen AI at scale on Google Cloud. Their merging diverse data streams to solve real-world challenges while saving time and costs—and they're setting a powerful example for enterprises seeking rapid innovation through the convergence of modern infrastructure, data analytics, security, and AI. We're excited to be supporting Gamuda's gen AI-powered advancements across its regional projects," said Patrick Wee, Country Manager, Malaysia, Google Cloud.

Gamuda's pioneering spirit, coupled with it embracing digital transformation, sets a powerful example for the entire construction industry. This dedication to continuous improvement ensures efficient, sustainable, and innovative development, ultimately enhancing delivery of critical infrastructure for communities around the world.

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About Gamuda Berhad
Founded in 1976, Gamuda Berhad has grown into a regional engineering, property, and infrastructure leader. We're known for our innovative solutions and commitment to excellence, with a presence across Malaysia, Taiwan, Singapore, Australia, the United Kingdom, India, Vietnam, Bahrain, and Qatar.

Our digital transformation journey began five decades ago, exemplified by our early adoption during the Stormwater Management and Road Tunnel (SMART) project. Renowned for pioneering iconic solutions like the SMART and introducing cutting-edge tunnel boring technologies, such as the Variable Density Tunnel Boring Machine (VD TBM) and the Autonomous Tunnel Boring Machine (A-TBM), we continue to shape the infrastructure landscape with our vision: "Leading the region in breakthrough solutions." To know more about Gamuda Innovation Hub: www.gamuda-get.com

About Google Cloud
Google Cloud is the new way to the cloud, providing AI, infrastructure, developer, data, security, and collaboration tools built for today and tomorrow. Google Cloud offers a powerful, fully integrated and optimised AI stack with its own planet-scale infrastructure, custom-built chips, generative AI models, and development platform, as well as AI-powered applications, to help organisations transform. Customers in more than 200 countries and territories turn to Google Cloud as their trusted technology partner.

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