

A Modern Business Solution for Today's Organizations

Enhance your operational efficiency
with a unified digital platform

Prepared For ABC

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Executive Summary

Apex AI is an emerging technology company focused on developing secure enterprise artificial intelligence solutions that enable organizations to design, deploy, and manage AI applications within their own infrastructure. Supported by a strong research environment, the company benefits from access to advanced technical expertise, skilled professionals, and collaborative innovation. Through strategic partnerships with leading technology providers and industry organizations, Apex AI has established an early presence in the regional AI ecosystem while supporting the adoption of secure and localized AI technologies.

Although Apex AI demonstrates promising technical expertise, it is still in the early stages of growth, with a team primarily consisting of researchers and technical specialists and comparatively limited commercial experience. Operating in a competitive landscape alongside established technology consulting firms and AI solution providers, the company must continue strengthening its business strategy and market execution. From a strategic investment perspective, the platform may not directly target specialized defense systems, but its artificial intelligence, data analytics, and cybersecurity capabilities offer potential dual-use applications for decision support, operational monitoring, and information analysis.

Three strategic engagement options were identified:

- **Strategic Investment:** A potential early-stage investment opportunity to establish long-term collaboration and support the organization's future technology development and market expansion.
- **Technology Collaboration:** Leveraging the company's expertise for research, innovation, and secure enterprise applications, including data analytics, monitoring, and cybersecurity solutions.
- **Digital Transformation Partnership:** Utilizing the organization's platform to enhance operational efficiency, automation, and digital transformation initiatives across business functions.

In conclusion, the organization represents a promising early-stage technology opportunity with both potential benefits and associated risks. Its strong research background, strategic collaborations, and focus on innovative artificial intelligence solutions provide a solid foundation for future growth. For organizations seeking participation in an emerging AI ecosystem, a strategic investment, following appropriate due diligence and technical evaluation, may represent the most suitable engagement approach. “



Figure 1: Caption

Section 1:

Company Overview

TaK AI is a Saudi startup founded at KST, focused on developing an autonomous enterprise AI platform that enables organizations to build, deploy, and manage AI solutions securely within national borders. Its mission is to empower enterprises through no-code generative AI and localized infrastructure, ensuring compliance with Saudi regulations and data-residency standards.

The company's vision is to drive Saudi Arabia's transformation into a global leader in applied and sovereign AI. The team hosts strong technical profiles, primarily drawn from KST's academic and research ecosystem. Through partnerships with Oracle, Dell, and KST, TaK provides an end-to-end ecosystem for AI adoption—from strategy to implementation.

Section 2:

Market Landscape

TaK AI has pursued multiple partnerships in the AI domain. Below is some of the company major efforts in this domain, trying to secure credibility, infrastructure depth, and market access in government, industrial, and regulated sectors:

- **KST Origin & Deployment:** TaK AI was founded at KST, and its platform is in active use there, providing early validation and credibility within the Saudi research ecosystem.
- **Oracle Cloud Infrastructure (OCI) Partnership:** A strategic collaboration focused on delivering hybrid and sovereign AI solutions in Saudi Arabia; Oracle ME amplified the relationship as part of its national-AI strategy.
- **Emerging Alliances:** Mentions of early-stage collaboration with Alphaiota and other ecosystem players signal intent to expand into AI integration and application-layer partnerships.

It is worth highlighting the high potential of services provided by TaK AI, particularly as the Saudi market increasingly seeks localized, sovereign, and enterprise-grade AI solutions. However, there are several established companies in Saudi Arabia that offer similar or more advanced services, supported by stronger infrastructure, deeper delivery capacity, and broader customer bases, for example:

- **STC Solutions:** The technology and digital arm of STC Group, offering large-scale AI, data analytics, cloud computing, and automation services. Through partnerships with Oracle and its own STC Cloud, it delivers fully sovereign and compliant enterprise AI solutions.
- **Microsoft Arabia (Azure):** Provides AI copilots, cognitive services, and generative AI capabilities through local Azure regions, ensuring data residency and close collaboration with government and enterprise sectors.
- **IBM Consulting (Saudi Arabia):** Operates WatsonX and a broad AI consulting portfolio. Works with national initiatives such as SDAIA's ALLaM LLM and Riyadh Air's AI programs, delivering advanced AI governance, model deployment, and analytics services.
- **Mozn:** A leading Saudi AI company specializing in Arabic NLP, fraud detection, and regulatory intelligence. Its enterprise platforms are mature and widely adopted across financial institutions and government entities.
- **SCI / HMN (PIF-backed):** A national AI company backed by the Public Investment Fund, focusing on AI infrastructure, sovereign models, and national-scale deployments. It has direct alignment with Vision 2030 initiatives and substantial government support.
- **Accenture (Saudi Arabia):** Provides AI transformation consulting and co-developed a Generative AI Center of Excellence in Riyadh with Google Cloud, targeting large enterprises and ministries for applied AI projects.

These competitors are more mature and technologically advanced than TaK AI because of:

- Proven track records and established client portfolios across government, finance, and industry.
- Local and sovereign cloud infrastructure already operational in the Kingdom.
- Deep technical and delivery teams capable of executing national-scale projects.
- Stronger regulatory and compliance frameworks aligned with SDAIA and NCA standards.
- Long-standing relationships with government stakeholders and enterprise clients that give them faster access to high-value projects.

TaK AI, while still young, operates in this competitive environment and must leverage its agility, academic foundation, and sovereign AI positioning to differentiate and capture emerging opportunities.

Section 3:

Strategic Fit with Investor Objectives

Considering that Emaan's strategic objectives focus on defense and military-related activities, TaK AI does not appear to have a direct fit within this domain. However, it is worth noting that TaK's technologies could indirectly contribute to defense and security applications, particularly in areas such as surveillance, industrial monitoring, and cybersecurity, which often have dual-use relevance in both civilian and military contexts.

Section 4: this section will highlight the Strength & Weakness of each

SWOT Risk & Opportunity Analysis

Section 4:

Strengths

SWOT Risk & Opportunity Analysis

Being a KST-origin company with an advisory team composed of current and former KST members gives TaK AI a distinct edge in the AI domain. This connection provides direct access to KST's resources, research capabilities, and partnerships, which play a central role in advancing AI initiatives across Saudi Arabia. In addition, TaK has successfully established strategic partnerships with Dell, Oracle, Groq, and MODON, positioning it strongly for hybrid infrastructure deployments and access to national-scale projects. this section will highlight the Strength & Weakness of each

Section 4:

Weaknesses

SWOT Risk & Opportunity Analysis

Although TaK AI hosts strong technical talent, its team shows limited hands-on commercial and execution experience, particularly in large-scale enterprise projects. The non-Saudi composition of key members may also limit their understanding of local market needs. As an early-stage startup with few proven references, TaK still needs to build a stronger business foundation and local market presence.

Section 1:

Foundry Capabilities

Palantir Foundry — the operating system for the modern enterprise

Palantir's ERP suite on Foundry is an end-to-end solution for data-driven decision-making. It accelerates the digital transformation process and achieves end-to-end connectivity and process improvements in months, not years. Foundry takes AI out of the lab and puts it to work in the real world.

Foundry features a series of core capabilities to answer the most critical challenges. It leverages open architecture to inform closed-loop operations; connecting data, analytics, and operational business teams to a common foundation.

Core Capabilities:

DATA INTEGRATION

Utilizing 200+ data connectors, Foundry can seamlessly synchronize multimodal data to harness the full potential of an enterprise's data lakes or data platforms.

MODEL INTEGRATION

Flexibly integrate or register existing third-party models to operationalize against pertinent problems.

WORKFLOWS AND ANALYTICS

By leveraging a common set of objects, actions and relationships, users can develop custom workflows or populate out-of-the-box applications at accelerated timescales, that continuously become more robust.

DECISION ORCHESTRATION

Via a suite of native connectors, decisions made in Foundry are allowed to propagate holistically throughout the data landscape. This enables Foundry to serve as connective tissue, linking historically siloed, disconnected systems to power smart and informed operations.

ONTOLOGY

By connecting underlying data and models to their real-world business objects, the Ontology allows analytics teams, data scientists and business decision-makers to collaborate on a dynamic knowledge asset in real time.

Section 2:

AWS Use/Integration

Palantir Foundry x Amazon Web Services

Core Capabilities:

The Palantir Foundry ERP suite is available to all AWS customers and has already been adopted by a number of enterprises to produce significant cost savings within weeks. Enabling rapid integration and analysis of data within the ERP landscape, Foundry deployed on AWS utilizes many services under the hood—such as [Amazon Simple Storage Service \(Amazon S3\)](#), [Amazon Elastic Compute Cloud \(Amazon EC2\)](#), and [AWS Key Management Service \(AWS KMS\)](#).

Palantir's software development teams have worked closely with AWS to bring tighter integrations to market, enabling deep integration with AWS data science tools across all layers of the application lifecycle.

The integration points between Palantir's Foundry and [Amazon SageMaker](#) allow users to develop, integrate, and operationalize AI that can power the decision-making of a modern, connected enterprise.

DATA PREPARATION

Rapidly prepare data with Foundry's data connection, extract, transform, load (ETL), and data branching capabilities.

MODEL DEVELOPMENT

Empower technical and non-technical users alike to develop meaningful ML models for no-code model development.

MODEL INTEGRATION

Integrate models from Amazon SageMaker Endpoints, Amazon SageMaker Autopilot, and AWS AI services into the Foundry machine learning environment. Get benefits from Foundry's rich deployment infrastructure, monitoring, health checks, and ontology integration.

MODEL OPERATIONALIZATION

Use Amazon SageMaker models in Foundry Application Builder and Foundry Simulation Engine to power operational applications and workflows that benefit from feedback loops and model retraining.

Section 2:

AWS Use/Integration

Palantir Foundry x Amazon Services

“WE’RE EXCITED TO BE WORKING WITH PALANTIR TO MAKE THIS SUITE OF TOOLS AVAILABLE ON AWS AND TO HELP OUR CUSTOMERS GET TO INSIGHTS FASTER, UNLOCKING THE DATA THEY ALREADY HAVE. USING AWS, PALANTIR’S ERP SUITE CAN HELP CUSTOMERS OFFLOAD THE COMPLEXITY, GAIN FASTER INTELLIGENCE FROM THEIR DATA, AND MAKE CRITICAL DECISIONS TO SAVE TIME AND EXPENSE.”

— JEFFREY KRATZ

General Manager, Worldwide Public Sector Channels & Alliances
Amazon Web Services

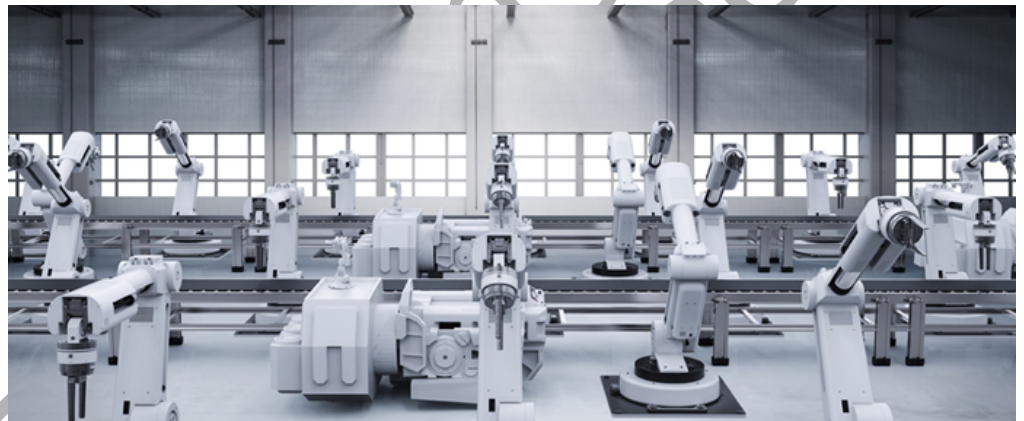


Figure 2: Caption

Section 3:

Foundry for Manufacturing

Industry Specific

Maximizing the Value of Industry IoT Connectivity

The world's most important institutions use Foundry to build safer cars, secure global supply chains, accelerate cancer research, and more.

Foundry empowers manufacturing by leveraging the massive volume of Industrial IoT sensor data to unlock powerful applications, such as digital twin-based scenario planning, preventative maintenance, and automating quality detection issues.

IoT data has been historically challenging to work due to the need to optimally store and analyze large quantities of raw information from disparate sources. As a result, many organizations develop business decisions and base downstream decisions in siloed point solutions, increasing the burden on IT departments.

FOUNDRY SOLVES THIS WITH A NOVEL APPROACH:

1. End-to-end software – By covering the entire IoT lifecycle, Foundry is able to help lower the burden of IT with a single source of truth where data is ingested, integrated, analyzed and operationalized.
2. Best-in-class security – With 15+ years experience serving the defense & intelligence community, Foundry incorporates first class governance and permissions at granular levels, while facilitating collaboration.
3. Sensor to C-Suite aggregation – Optimal storage allows for complex computation down to the device level and automatically populates efficiency metrics that ladder up to plant managers and the C-suite.
4. Streamlining multiple data sources – IoT data compounds in utility when combined with ERP, MES and SCADA systems data. Foundry integrates data objects in a first-class way to form a digital twin, serving as the foundation for readily deployable use cases.
5. Fully Operationalized IoT data – Insights from Root Cause Analysis and predictive maintenance can automatically generate work orders, all within the same application.

RIGHT-SIZING FOR THE MANUFACTURER

Digital transformation is a journey that involves many stages of physical sensor connectivity, data storage, analyses, automated alerting and ultimately AI-driven decisions and optimization.

Foundry is unique in that it meets the customer at their stage in the digital transformation process and accelerates the journey to their target destination. It also leverages existing investments, such as cloud architectures, software and even legacy hardware to maximize the value of those systems and avoid painful switching costs or migrations.

Section 3:

Industry Specific

USE CASES THAT ACCELERATE THE TIME-TO-VALUE

Foundry's out-of-the-box use cases connect to customer systems and add value in weeks rather than years. Additionally, customers are able to leverage no-code/low-code application development tools within Foundry to configure or build new tools based on dynamic business needs. Some of our most popular smart manufacturing modules include:

- **Plant 360** – A drilldown of each facility and production line, giving plant managers a current-state snapshot of the plants OEE baseline as well as a decision suite to increase efficiency levels.
- **Analytics Suite** – The in-depth performance tracking of individual assets, conditions and anomalies that reduce costs and increase yield. Advanced intelligence capabilities enable root cause analyses and alerting that prevents unanticipated plant downtime.
- **Process Optimization** – Where decision simulation calculates complex 2nd and 3rd order effects to plan for process changes and scenarios. The module removes constraints from traditional digital twin solutions, by automating the work orders that turn insight into action.

Foundry views the digital twin as a foundational data management problem — connecting and standardizing the webs of disconnected systems commonly found in manufacturing enterprises. In a recent instance, a customer achieved a 15% cost savings in electricity, simply by progressing in the digital journey stages from zero visibility to site-wide connectivity and ML model management. This is just one of many examples where Foundry's novel approach accelerates the time to value.



Figure 3: Caption



Figure 2: Caption

Section 4:

Customer Story

Case study: Optimizing Production with ERP Data Across the Supply Chain

A Fortune 100 consumer goods company deployed Foundry to quickly respond to COVID-related disruptions.

CHALLENGE

The client required a solution to unlock its significant investment of more than \$200M in enterprise resource planning (ERP) systems. They needed to gain better visibility across functions to reduce costs and develop an optimization strategy that could continue to meet demand during the height of the pandemic.

SOLUTION

Our platform integrated the client's 7+ ERP data sources to produce a "digital twin" of the value chain, from the hand of the supplier to the hand of the customer. This has allowed supply chain managers, plant managers, and demand planners to interact in a no-code way with a real-world object model, examining plants, stock keeping units (SKUs), customers, and other core business concepts.

The integrated foundation has enabled analysts to build a granular cost of goods sold (COGS) and profitability model that applies on the SKU level. New workflows incorporating these models have proven to optimize COGS and production.

Foundry's Impact in Numbers

- More than 7 ERP sources integrated into a digital twin and supply chain workflow within 5 days.
- Optimizing raw material purchases will generate \$10s of millions in annual savings and now takes minutes, instead of weeks.
- A 1–2% improvement in production is estimated to produce \$100M in Year 1 savings.

Section 5:

Next Steps

Other Resources you May Find Interesting

Register your details to watch these on-demand webinars that delve into common manufacturing complexities.

PALANTIR SMART MANUFACTURING: SCALING PRODUCTION & AVOIDING VENDOR LOCK-IN

Scaling smart manufacturing production often involves investing in new hardware to support your fleet of machines, moving workloads and AI models from the cloud to the edge, and ingesting trillions of rows of sensor data. This increased complexity can create tighter — and potentially more expensive — relationships between manufacturers, hardware providers, and their cloud providers. So how can manufacturers mitigate the risks of hardware & software vendor lock-in as they scale?

Join Palantir experts as they explore strategies for implementing collaborative workflows that reach across your data systems and departments & enable real-time decision-making at scale.

RETROFITTING EXISTING HARDWARE: BOOST PRODUCTION WITHOUT REPLACING EQUIPMENT

Heavy machinery manufacturing is capital intensive. Are you getting the maximum value from your plant floor? If not, you may be able to leverage your existing programmable logic controllers (PLCs), sensors, cameras, and more to help increase efficiency in your production process.

Join Palantir experts as they explore how manufacturers can quickly retrofit their existing IoT or edge hardware to monitor production quality, make on-machinery decisions, increase yield, and reduce defects.



Figure 3: Caption

Table 1

Column 1	Column 2	Column 3	Column 4	Column 5
Row 1, Col 1	Row 1, Col 2	Row 1, Col 3	Row 1, Col 4	Row 1, Col 5
Row 2, Col 1	Row 2, Col 2	Row 2, Col 3	Row 2, Col 4	Row 2, Col 5
Row 3, Col 1	Row 3, Col 2	Row 3, Col 3	Row 3, Col 4	Row 3, Col 5
Row 4, Col 1	Row 4, Col 2	Row 4, Col 3	Row 4, Col 4	Row 4, Col 5
Row 5, Col 1	Row 5, Col 2	Row 5, Col 3	Row 5, Col 4	Row 5, Col 5