Palantir

A Smarter Supply Chain for the Modern Enterprise

Unlock the full potential of your supply chain with a singular, integrated ERP

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Section 1: Foundry Capabilities

Discover a turnkey solution that can optimize and improve your production process

Supply chains are intricate and managing them is a complex task. Traditionally, every part of the process is segregated with little data extraction and manual manipulation is required to understand the full picture.

Most data and analytics tools excel at processing information linearly: from data ingestion to visualization. However, real-world operations are anything but linear — with operators making distributed decisions simultaneously across the organization.

Palantir created an ERP suite to empower organizations to rapidly extract maximum value from their data, helping to solve an enterprise's toughest challenges.

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

Optimized for the AWS suite

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.

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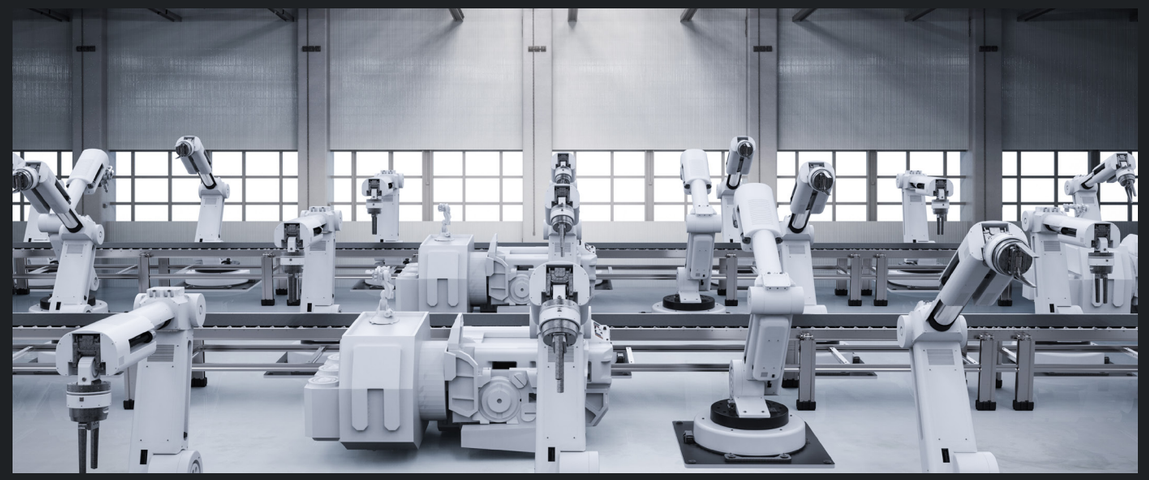
Section 2:
AWS use/Integration

"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



Section 3:
Industry Specific

Foundry for Manufacturing

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.

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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.

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.

Watch the webinar

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.

Watch the webinar

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