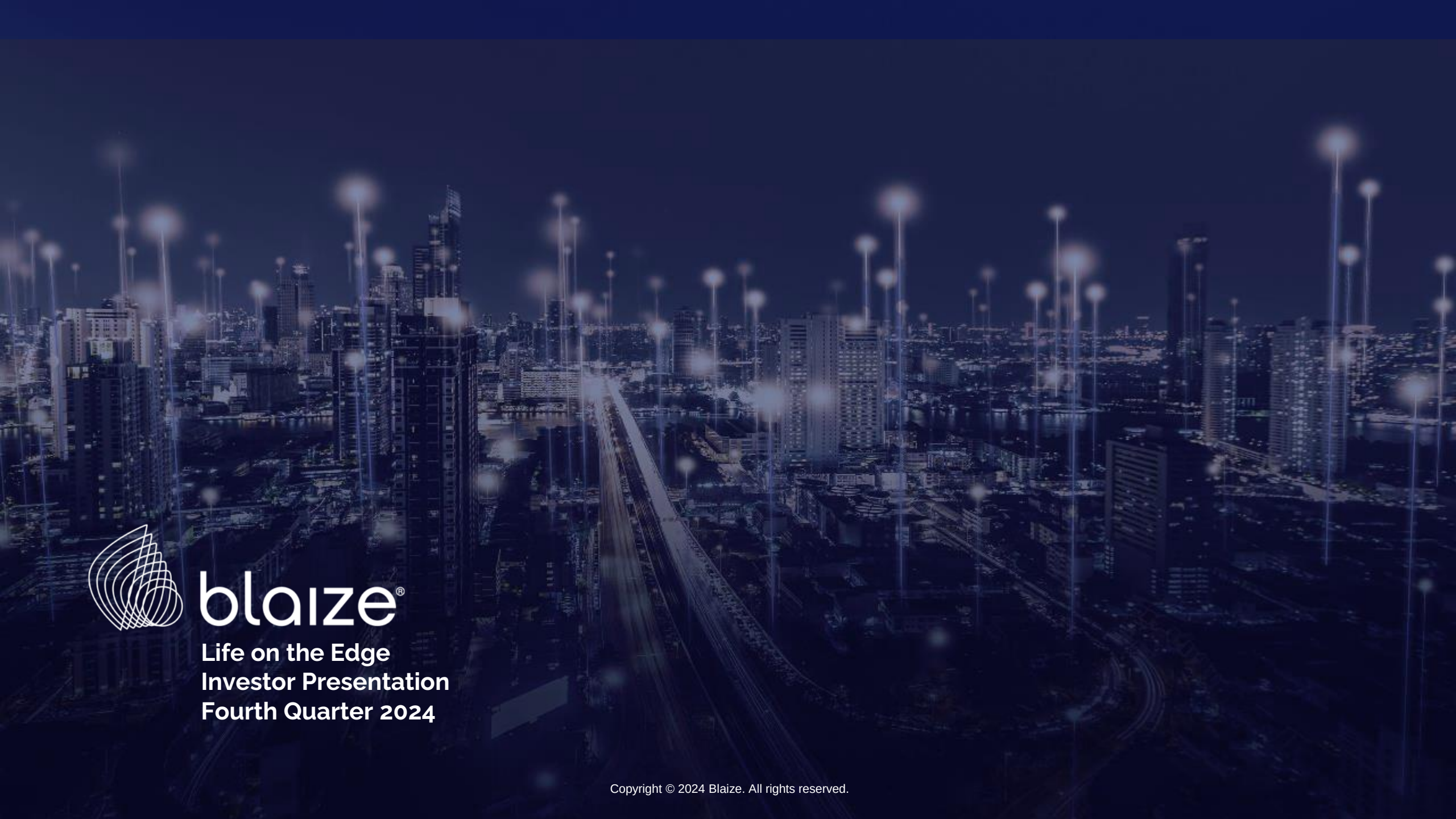

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Life on the Edge
Investor Presentation
Fourth Quarter 2024

Disclaimer

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This presentation (the "Presentation") contains forward-looking statements within the meaning of Section 27A of the U.S. Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act") that are based on beliefs and assumptions and on information currently available to Blaize, including statements regarding the industry in which Blaize operates, market opportunities, and product offerings. In some cases, you can identify forward-looking statements by the following words: "may," "will," "could," "would," "should," "expect," "intend," "plan," "anticipate," "believe," "estimate," "predict," "project," "potential," "continue," "ongoing," "target," "seek" or the negative or plural of these words, or other similar expressions that are predictions or indicate future events or prospects, although not all forward-looking statements contain these words. Forward-looking statements are predictions, projections and other statements about future events that are based on current expectations and assumptions and, as a result, are subject to risks and uncertainties. Many factors could cause actual future events to differ materially from the forward-looking statements in this document, including but not limited to: (i) changes in domestic and foreign business, market, financial, political and legal conditions; (ii) the expected benefits of the Blaize's business combination with BurTech Acquisition Corp. (the "Business Combination") are not obtained; (iii) the ability to meet stock exchange listing standards following the consummation of the Business Combination; (iv) the risk that the Business Combination disrupts current plans and operations of Blaize as a result of the consummation of the Business Combination; (v) failure to realize the anticipated benefits of the Business Combination, which may be affected by, among other things, competition, the ability of the combined company to grow and manage growth profitably, maintain relationships with customers and suppliers and retain its management and key employees; (vi) costs related to the Business Combination; (vii) changes in applicable law or regulations; (viii) the outcome of any legal proceedings that may be instituted against Blaize; (ix) the effects of competition on Blaize's future business; (x) the ability of the combined company to issue equity or equity-linked securities or obtain debt financing; (xi) the enforceability of Blaize's intellectual property rights, including its copyrights, patents, trademarks and trade secrets, and the potential infringement on the intellectual property rights of others; and (xii) those factors discussed under the heading "Risk Factors" in our Registration Statement on Form S-1/A filed with the Securities and Exchange Commission (SEC) on February 10, 2025 and other documents filed by Blaize from time to time with the SEC. These filings identify and address other important risks and uncertainties that could cause actual events and results to differ materially from those contained in the forward-looking statements. Forward-looking statements speak only as of the date they are made. Readers are cautioned not to put undue reliance on forward-looking statements, and Blaize assumes no obligation to update or revise these forward-looking statements, whether as a result of new information, future events, or otherwise, except as required by law, including the securities laws of the United States and the rules and regulations of the SEC. Blaize does not give any assurance that it will achieve its expectations.

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The Right Platform For The Future Of Edge AI Computing

Investment Highlights

Full-Stack Hardware and Software Solution Built for AI Inference at the Edge

Intuitive Flexibility for AI and Related Workflows

Targeting a $71B Global Serviceable Addressable Market by 2028[1], across Security & Monitoring, Enterprise Edge AI, and Autonomous Systems End Markets

Strong Traction with $400M+ Qualified Pipeline[2] of Opportunities

Global Footprint with Tier 1 Supply Chain Relationships

$335M Raised to Date

Experienced Leadership with Blue-Chip Background

1 See slide "Tremendous Market Growth Across AI Deployment" for additional detail on SAM
2 See slide "Definition of Terms"

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Strong Momentum and Technological Focus to Drive Accelerated AI Adoption

Global presence, advanced IP, and market traction to propel growth

Key Metrics and Market Stats

US-based with offices in the **UK**, **India** & **UAE**	**56** Patents & Applications	**~220** Total Employees
$335M Raised to Date	**$71B** Serviceable Addressable Market (SAM) by 2028E[1]	**$400M+** Qualified Pipeline[2] of Opportunities
20+ Customers in Proof-of-Concept Stage[2]	**10+** Design Wins[2]	**25+** Channel Partners[2]

Select Investors, Customers and Key Relationships

Investors

SAMSUNG · Ava Investors · BVA Beer Ventures & Advisory · Rizvi Traverse · wavemaker · Franklin Templeton Investments · GGV Capital · DENSO · Mercedes-Benz

Customers & Key Relationships

CVEDIA · DENSO · kt · orionVM · Supermicro

1. See slide "Tremendous Market Growth Across AI Deployment" for additional detail on SAM
2. See slide "Definition of Terms"

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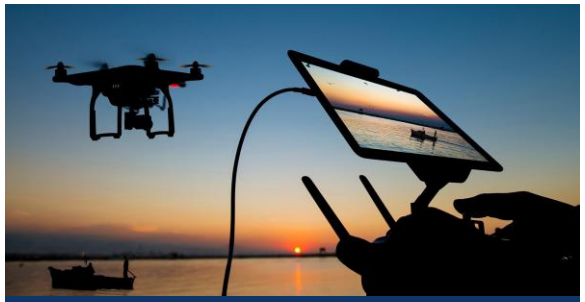
Blaize – Life on the Edge

Edge computing brings data processing closer to the devices that generate and use it, reducing latency and improving real-time decision-making

Blaize® has created a transformative new compute solution that **unites silicon and software to optimize AI from the Edge to the core**

We're partnering with customers to transform their products so they can deliver better experiences and better lives

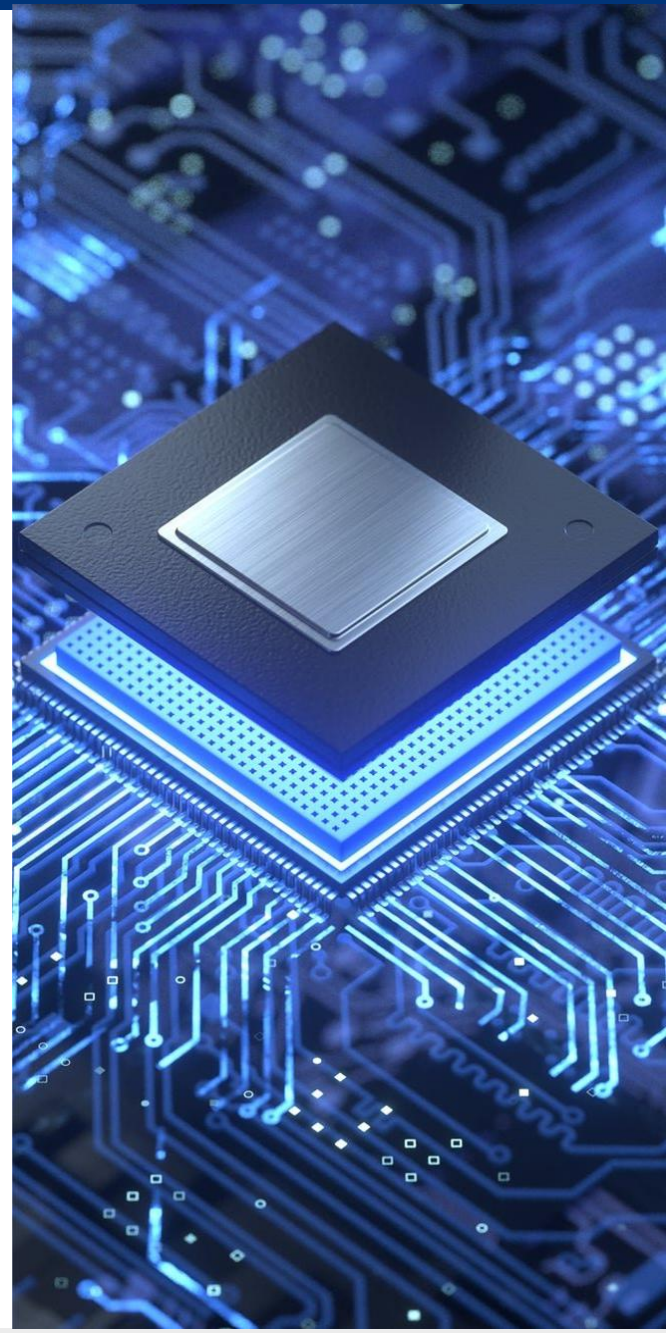
Blaize Graph Streaming Processor (GSP) Architecture + Blaize Accelerators & Platforms + Blaize Software = blaize® Complete Edge AI Solutions



Security & Monitoring

Enterprise Edge AI

Autonomous Systems



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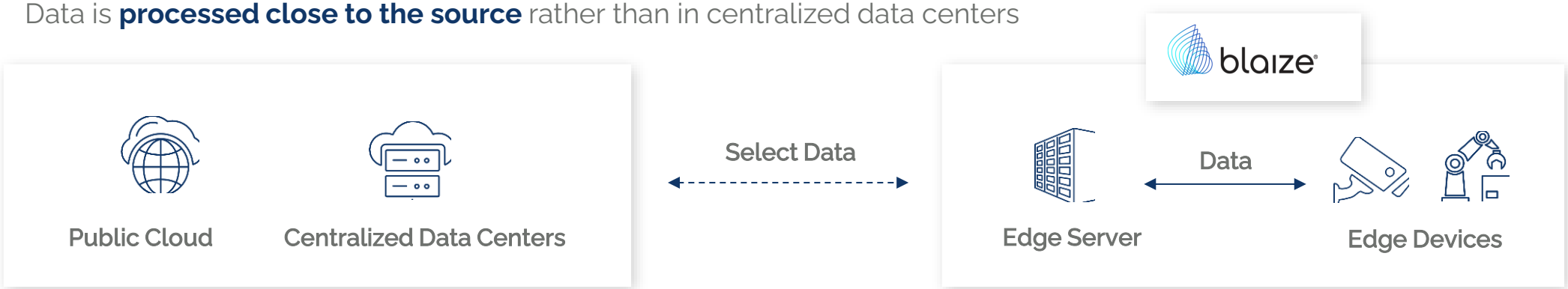
Edge Computing is the Future of Real-Time, Secure Data Processing

Edge computing enables AI adoption across security, retail, autonomous systems, enterprise and more

What is Edge Computing?

Data is **processed close to the source** rather than in centralized data centers



Edge Computing is More Efficient - Optimizes Time, Power, Size, and Cost

Low Power Consumption

Energy-efficient operations, requiring less power than within data centers

Reduced Data Transmission

Lower data transfer volumes minimizing costs for data transfer to and from data centers

Low Latency

Faster response times without delays from sending data to data centers

Cost Effective

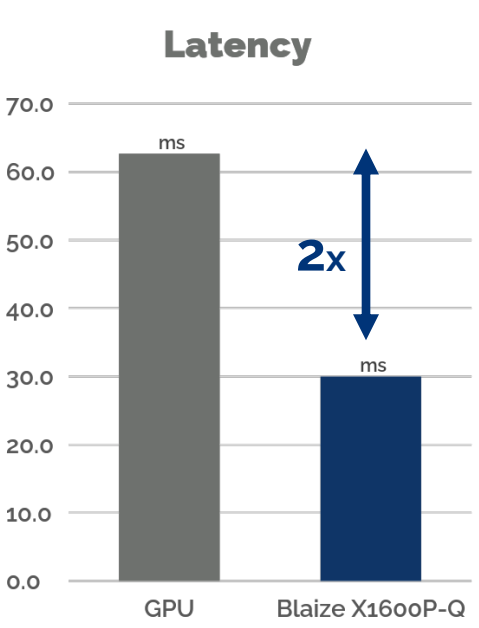
Dense processing on **Edge-tailored devices**

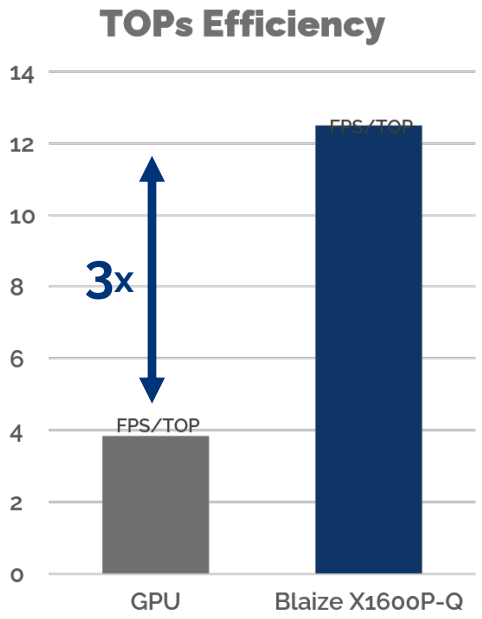
Data Privacy

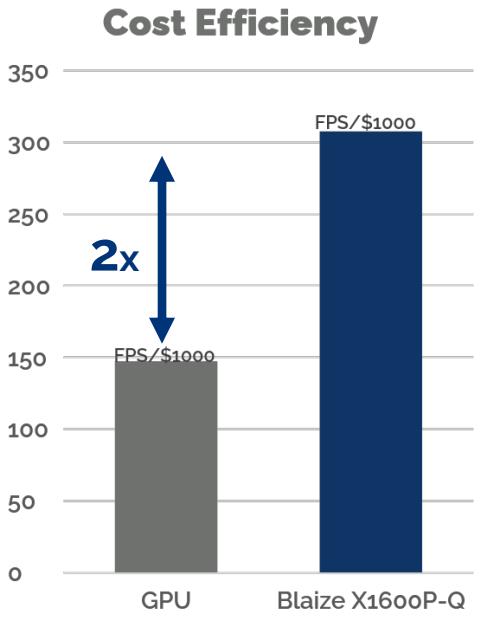
Keep sensitive data private by reducing reliance on the cloud

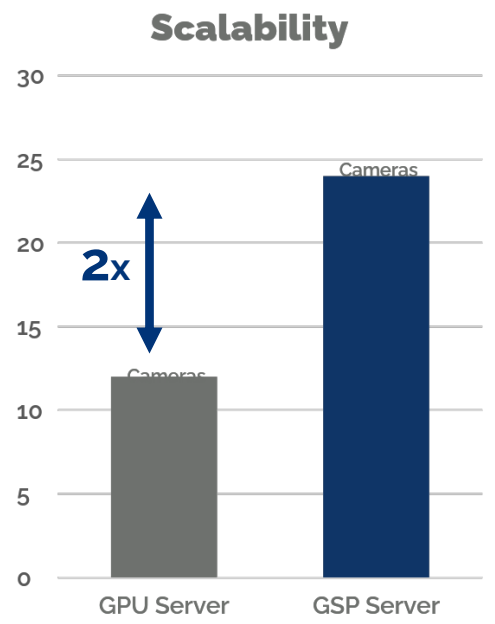
Blaize Demonstrates Improved Edge Performance vs. GPU

Blaize offers better results for Video Analytics use cases vs. GPU solutions









Source: Blaize-performed benchmarking tests using YOLOv8

Outperforming Competitors at the Edge

Complete solution designed to lead across Edge applications

	GSP	GPU	SoCs	ASICs	FPGA
Task Level Parallelism	GSP architecture enables many tasks to be run concurrently without frequent trips to memory	Need large data sets and homogenous workloads	Can only handle specific tasks it was designed for	Can only handle specific tasks it was designed for	Requires careful design and implementation
Flexible Architecture	Designed for the evolving AI landscape to support new models without hardware redevelopment	Constrained by graphics legacy and proprietary APIs	Tailored hardware needed for different model types	Optimized for specific workloads	Hardware re-programmable but limited flexibility at runtime
Full-stack Software	SDK, Vision-analytics optimization, and code-free environment options	No code-free environment	Limited to SDK	Limited to SDK	No code-free environment

GSP = Graph Streaming Processor; GPU = Graphics Processing Unit; SoC = System on Chip; ASIC = Application Specific Integrated Circuit; FPGA = Field Programmable Gate Array
Source: Blaize-performed benchmarking tests using YOLOv8

Blaize's Solutions are Purpose-Built for Edge AI

Focused on what matters at the Edge, complementing the central processing power needed for GenAI

Cloud Chip Providers	blaize
 Public Cloud	 Edge Server
 Centralized Data Centers	 Edge Devices
Focused on More **Intensive Compute Training** and **High Batch Inference**	Focused on **Real-time AI Inference at the Edge**
Datasets Need to be **Processed in the Cloud** Leaving them **Vulnerable**	Enabling **Data Privacy** for a Secure Edge
Ideal for **High-Performance** Processing and Complex Workloads Only	**Pre-processing Low Level Workloads** for Local Data Sets
Cost and Power Penalty to Achieve Performance	Providing **Improved Efficiency** where Edge Compute Matters

Blaize – Complete Solutions to Enable AI Inference at the Edge

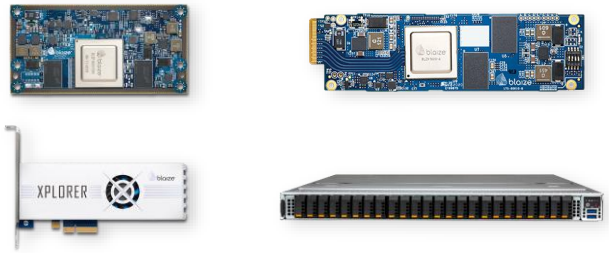
Full-stack hardware and software platform enabling AI to run at the Edge

Solution Overview

Built Through over a Decade of R&D with Close Customer Engagement

Semiconductor Architecture Designed for the Edge

Accelerators and Platforms for Edge Systems



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Software to Design and Run Edge AI Applications

Software Development Kit

Blaize® AI Studio™

Blaize® Picasso™

Ecosystem of Industry Relationships for Turnkey Deployment

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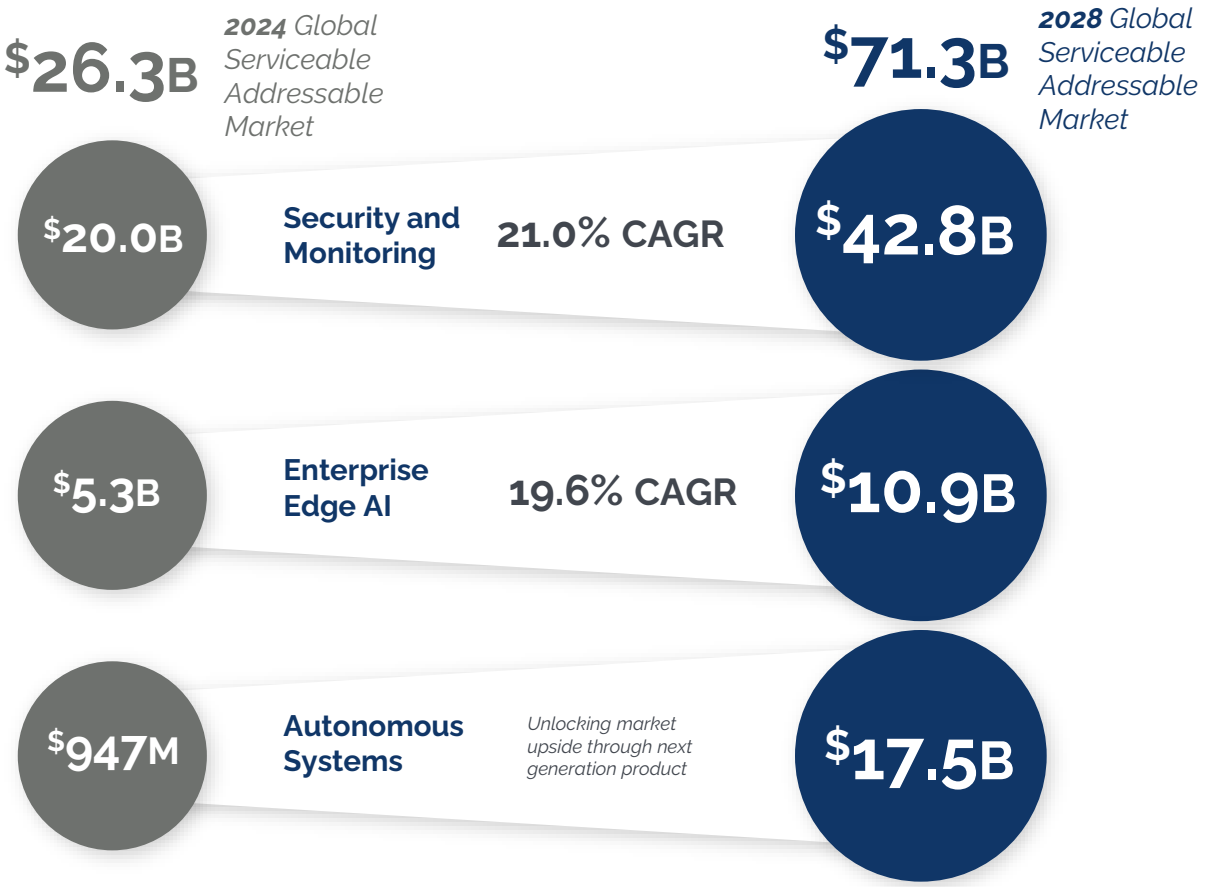
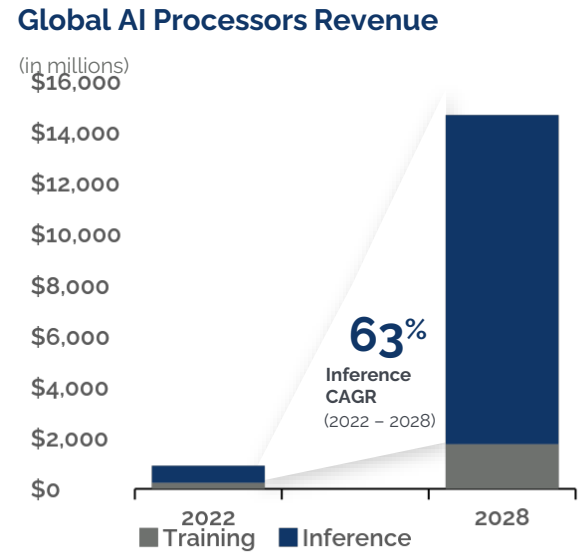
Blaize is Targeting Tremendous Market Growth Across AI Deployments

Focused on high-growth verticals where Edge AI has the largest impact

Traction in Large and Growing Verticals



The Need for AI Inference Chips is Projected to Far Surpass the Need for AI Training Chips



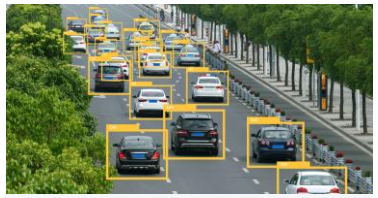
> **By 2025**, growth in **AI inference requirements** will fast **outpace the growth in AI training requirements**[1]
>
> —Gartner

Source: Omdia (AI Processors for the Edge Forecast Report), Blaize Estimates, Gartner (Forecast AI Semiconductors, Worldwide, 2022-2028, 2Q24 Update, Alan Priestley)

1. Source: Gartner (Forecast Analysis: High-Bandwidth Memory, Worldwide, 2022-2027, Shrish Pant, page 8)

Blaize Products & Solutions Can Deliver Value Across a Vast Array of Applications

Expected to address complex and unique use cases with its flexible, efficient architecture and programmability

	Security & Monitoring			Enterprise Edge AI		Autonomous Systems
	Tactical Edge / Defense	**Smart City**	**Smart Retail**	**Smart Manufacturing**	**Healthcare**	**Autonomous Vehicles**
Illustrative Deployments where Blaize Products Can Add Value						
						
	• Rapidly process visual and sensor data to identify potential threats in real time	• Integrated into Edge server appliance • Processing computing streams from 1,000s of cameras	• Integrated into VMS system compute unit • Customer behavior analysis • Incident management	• Integrated in industrial PC • Enabling real-time analytics for predictive maintenance	• Medical imaging	• Targeting integration in vehicle alongside ECU • In-cabin monitoring • Drones and robotics
Potential Benefits Delivered	• Offering high-performance, energy-efficient AI that delivers real-time insights, autonomy, and predictive analytics in demanding operational settings	• Real-time data analysis • Reduce congestion issues, promote safer roads • Cost reductions	• Complex vision analytics acceleration • Enable product placement and promotion optimization	• Prevent unplanned downtime and unexpected expenses • Safety	• Enable health professions to assess health risks using real-time Edge analytics • Improve patient care	• Improve real-time obstacle detection and avoidance

Targeting a $71B Serviceable Addressable Market[1] for Blaize by 2028

Limited sample of Blaize applications that have been demonstrated but for which Blaize is not receiving recurring revenue
Pictured devices are OEM solutions that Blaize technologies could be embedded into, but are not Blaize products

Illustrative Case Study – Security and Monitoring

Turnkey hardware and software solution enabling tactical security and monitoring for in-field defense

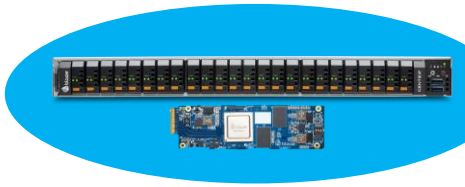
Full Field Asset Tracking and Monitoring Proposed Solution

Blaize® Pathfinder® P1600
Embedded System on Module

Blaize® Xplorer® X600M M.2 SFF
Accelerator Platform

Integrated Blaize Hardware for Real-Time Asset Tracking

Connecting In-Field Data to Command Center with Blaize Hardware and Software



Command Center

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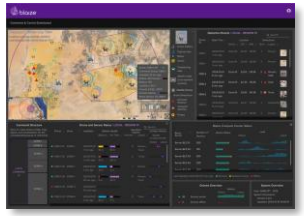
Dashboards for AI Command and Control



Key Benefits from AI Dashboard

Equipment health monitoring: Detects early wear for proactive maintenance

Optimization: Improves efficiency by addressing anomalies

Safety: Ensures compliance by monitoring limits and leaks

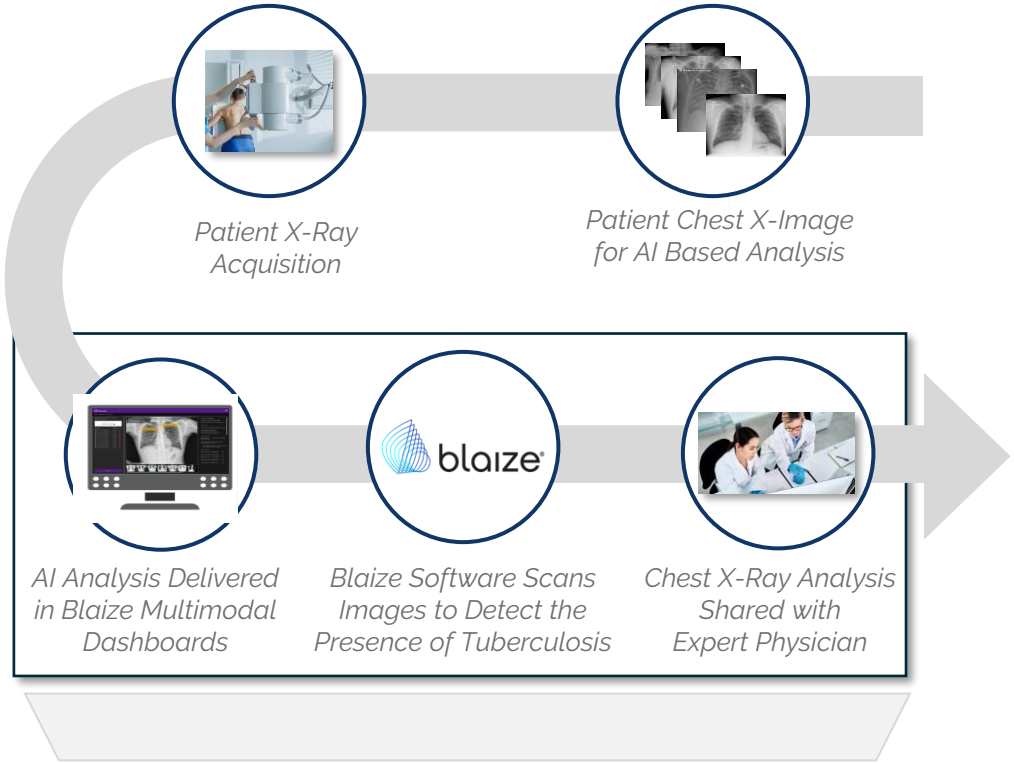
Enhanced security: Prevent trespassing in high-value areas

Note: Case Studies in this presentation are illustrative and not intended to imply that Blaize has completed production of any referenced solution

Illustrative Case Study – Healthcare

Potential comprehensive solution for X-ray AI analysis for a large healthcare network

Tuberculosis X-Ray Analysis with Blaize Solution That Has Been Piloted



Software and AI Analysis Run on Blaize Servers

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Blaize Multimodal Dashboards

Key Benefits Delivered

- ✓ Patient Prioritization based on Urgency
- ✓ High Clarity and Clinical Accuracy
- ✓ Intuitive Dashboard to Extract Insights
- ✓ Optimized Image Acquisition, Interpretation, and Reporting
- ✓ Security and Privacy Regulation Compliance

Note: Case Studies in this presentation are illustrative and not intended to imply that Blaize has completed production of any referenced solution

Illustrative Case Study – Automotive Design Work

Proof-of-concept of multi-target compiler to enable auto customers to deploy ADAS across any hardware platform

Unifying Automotive Hardware:

Blaize's Multi-Target Auto Compiler unifies diverse hardware languages into a **unified codebase**, enabling seamless integration for automotive companies

Camera API

LiDAR API

Sensor API

blaize®
Multi-Target
Auto Compiler

Chiplet Architecture:
Enhances translation efficiency and speed

Blaize's Key Benefits for Auto Customers:

- **Hardware Agnostic**
  Compatible with any hardware platform, allowing auto firms to use multiple vendors
- **Standard AI Software Stack:**
  Facilitates seamless integration of any hardware

Note: Case Studies in this presentation are illustrative and not intended to imply that Blaize has completed production of any referenced solution

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Innovation

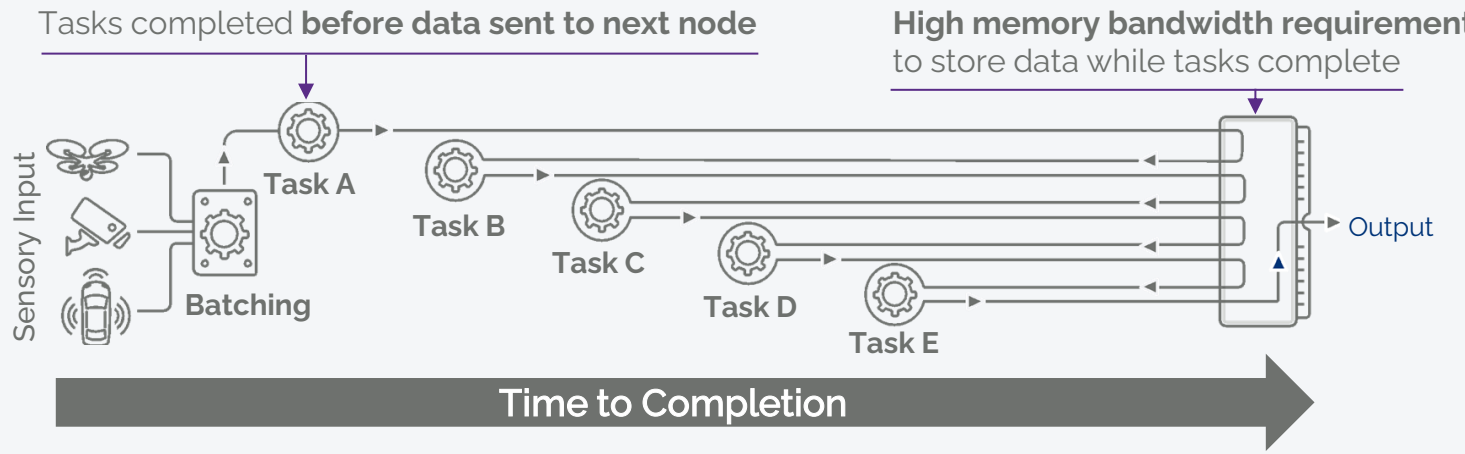
1

New Breed of Architecture for Performance and Cost Savings

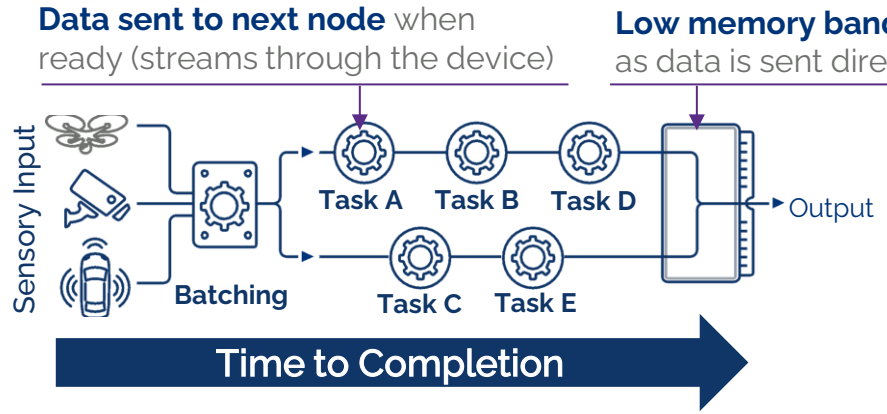
Determines task dependencies to optimize scheduling, minimizing data trips to memory to save power & processing time

Traditional CPU/GPU Architecture vs. Blaize Graph Streaming Processor

Legacy Sequential Processing CPU/GPU



Blaize Graph Streaming Processor



Resulting Differences

- ⚠ Graphics processing architecture DNA results in **lower efficiency and performance**
- ⚠ Higher power consumption **limits Edge use cases**

- ✓ Task-level parallelism results in **higher efficiency and performance**
- ✓ Proprietary architecture **reduces power consumption**, ideal at the Edge

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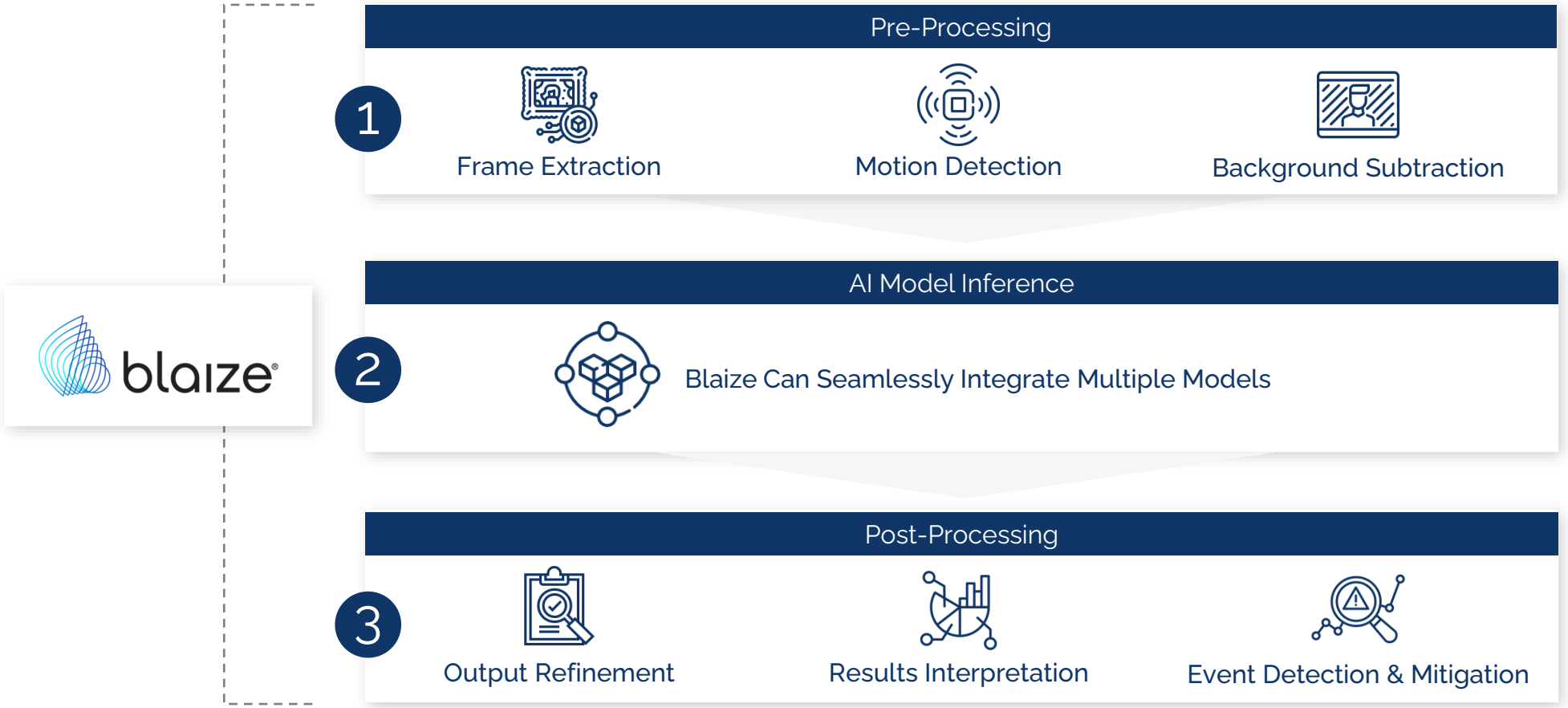
Innovation

2

With Advanced Flexibility, Blaize Does More

Ability to run multiple workloads for different Edge use cases and reduce strain on CPU/GPU resources

Blaize Covers More Workflow



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Innovation

3

Blaize Solutions are Software Programmable

Competitors sacrifice workload flexibility – Blaize maintains full adaptability

AI models are being developed at an unprecedented pace, with **new models introduced daily**, necessitating **adaptable technologies** to support AI evolution

AI Architectures Evolving **Daily**

AI Datasets Created **Daily**

AI Applications Emerging **Daily**

blaize®

A Programmable, Adaptable Solution

- Multiple Tasks can Run in Parallel on a Single Chip
- Adapts to Changing Data and Conditions
- Able to Run a Mix of Workloads and Neural Networks
- Optimized for Smaller Models Native to the Edge

Blaize Software Swiftly Deploys AI for Real-Time Insights

Supporting the entire development workflow from concept to application deployment at the Edge

		Problem Targeted	Ideal Customer / Decision Maker
Software Development Kit		Allows customers and partners to scale algorithms on Blaize's platforms	Engineers: AI hardware / software
Picasso Video Analytics		Optimizes AI models for video analytics applications	Product owners
AI Studio		End-to-end ML-OPs[1] for on-prem[2] solution using Blaize silicon	CXOs, data scientists, and other non-coding users

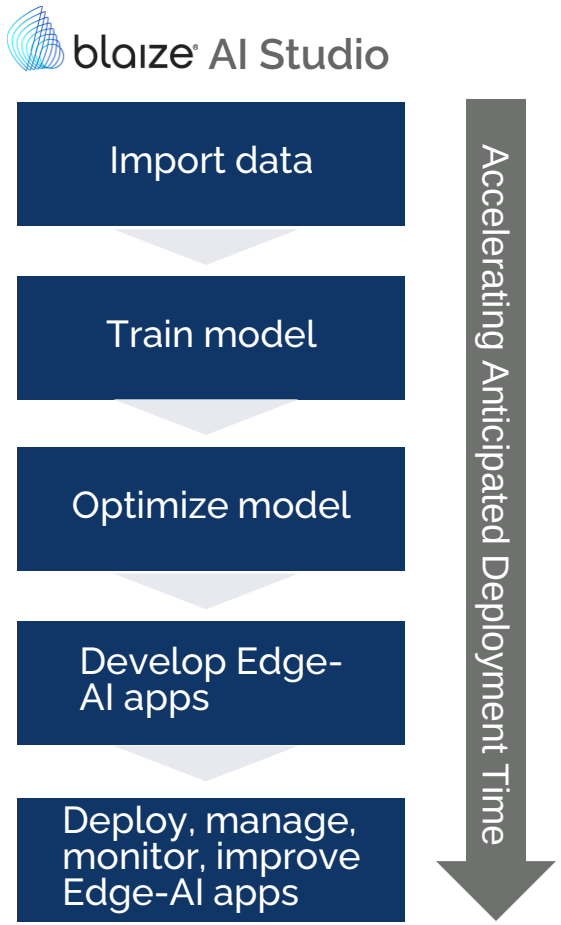
1. ML-Ops, or machine learning operations, is a practice focused on deploying and maintaining machine learning models in production efficiently
2. On-prem, or on-premises, refers to software or IT infrastructure hosted on an organization's premises rather than remotely

Innovation

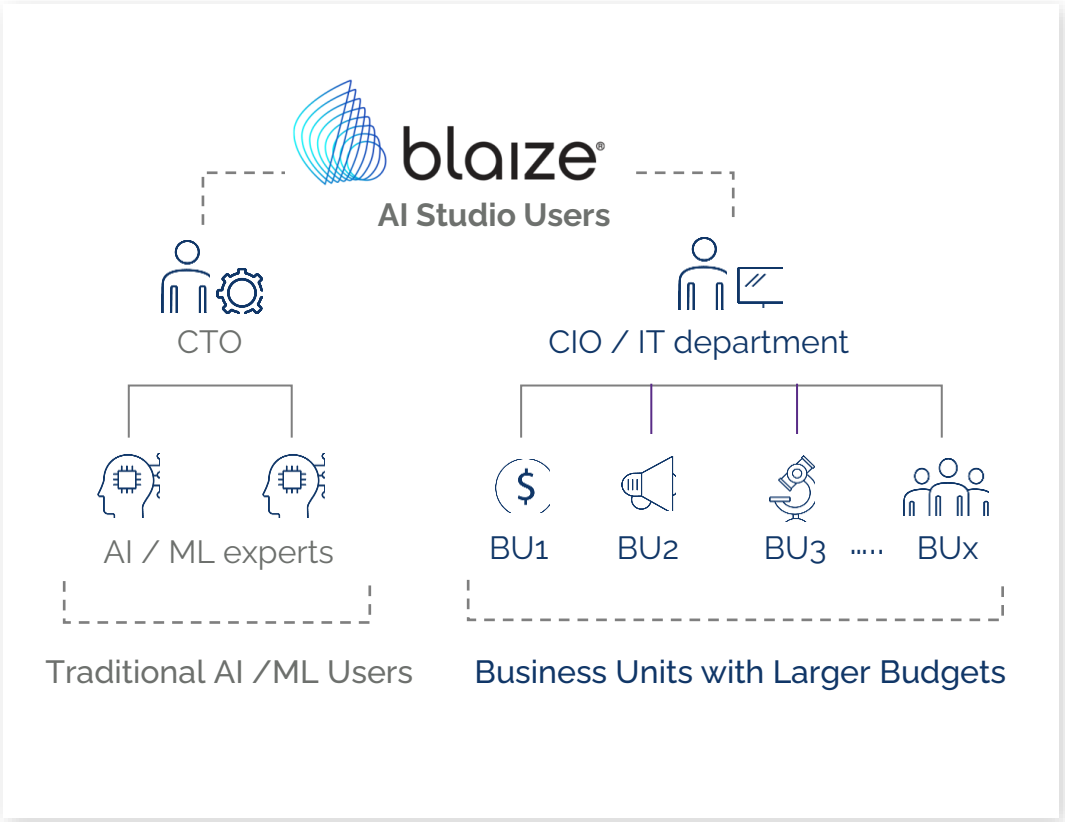
5

No-Code AI Studio Accelerates AI Adoption

AI Studio reduces anticipated deployment time and dependency on scarce and expensive engineering resources



Penetrates Customers Beyond CTO Organization into Traditional IT Departments



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Architecture in Action – Enabling Multiple Tasks to be Run in Parallel

Heterogeneous multiple parallel workloads at the lowest power in a single application

Example: 5 Tasks Running in Parallel at the Same Time

Task A
Input Video Pre-Process
Channel Extraction
Image Enhancement
Pixel Scaling
Image Scaling

Task B
Input Video Filtering
Sobel-Feldman Convolution
Edge Detection
Video Scaling

Task C
Object Detection
YOLOv8
50+ other Networks Optimized
Most New Networks Run without Customization

Task D
Image Analysis
RGB Histogram

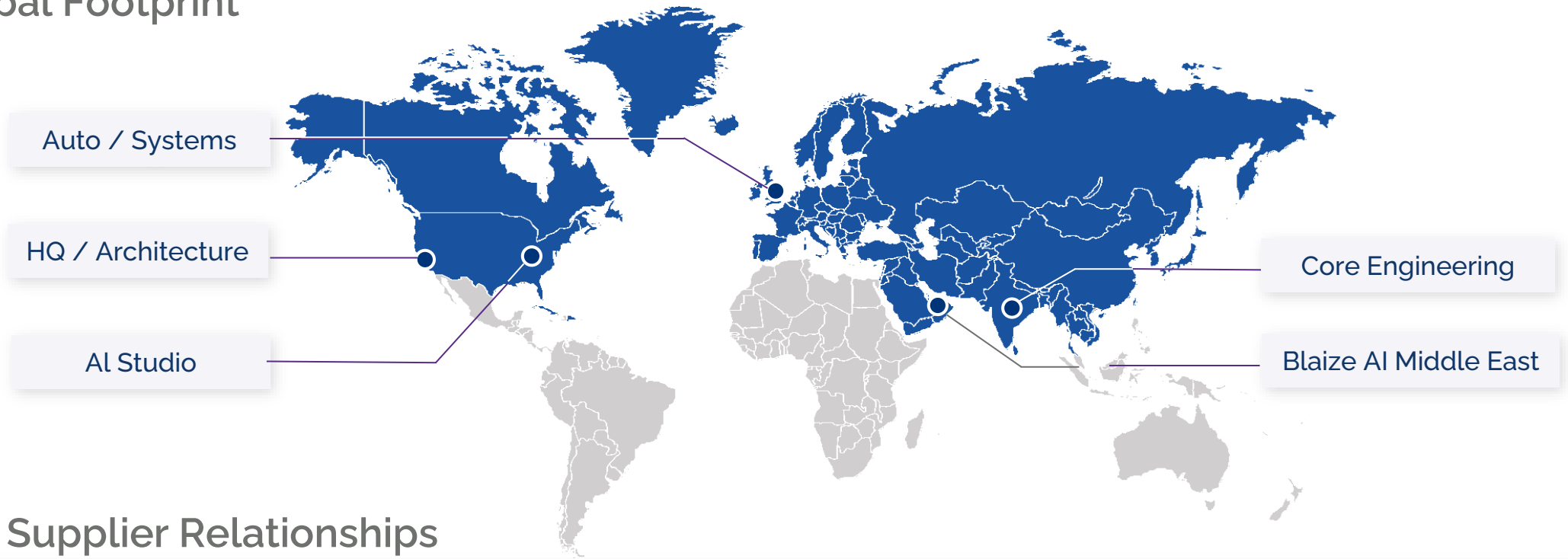
Task E
HPC Workload
Complex Matrix Multiplication Shown
Any High-Performance Task can be Programmed (Open-CL)

Utilizing vision, LiDAR, and radar sources, Blaize's parallel processing enables simultaneous image processing, object detection, scene segmentation, and traffic sign identification, optimizing cost and power for ADAS deployments

World Class Suppliers and Engineering Footprint

Deep relationships and capabilities across the technical and operational landscape

Global Footprint



Key Supplier Relationships

cadence | PLEXUS | SAMSUNG[1] | SYNOPSYS® | tsmc[2]

1. USA silicon manufacturing for all current Blaize products
2. USA silicon manufacturing is planned

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Advanced Feature Set Today with a Strong Roadmap for Tomorrow

Building on a comprehensive technology foundation with advancements to meet customers' future needs

Current Key Features

Inference-focused: Tailored for Edge inference without excessive resources for large model training or other non-intended workloads

Optimizes resources: Compute and memory optimized for AI at the Edge

Latest models: Ability to run the latest multi-modal models

Multi-tasking: Efficient execution of multiple heterogeneous tasks

Future Product Enhancements

Chiplet product to meet customers' evolving size and power requirements

Auto-grade qualification for ADAS and AV applications

Enhanced multi-modal processing to support larger and more complex AI models

Enabling **diverse product configurations** for optimization across customer applications

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Blaize is Strategically Positioned for this Technology Inflection Point

What is the Impact of DeepSeek's "DeepSeek R1"/Alibaba's "Qwen 2.5-Max" Contributions?

- Combined multiple efficiency mechanisms for a significant reduction in computation and memory bandwidth
- Demonstrated state-of-the-art model performance with substantially fewer resources

How is Blaize Strategically Positioned for this Technology Inflection Point?

- The Blaize architecture was purposefully designed for these types of efficiency mechanisms
- The efficiency mechanisms were not a surprise to the research & engineering community
- Blaize expects to benefit from opportunities surrounding efficient physical AI at the edge

Technology Inflection Point

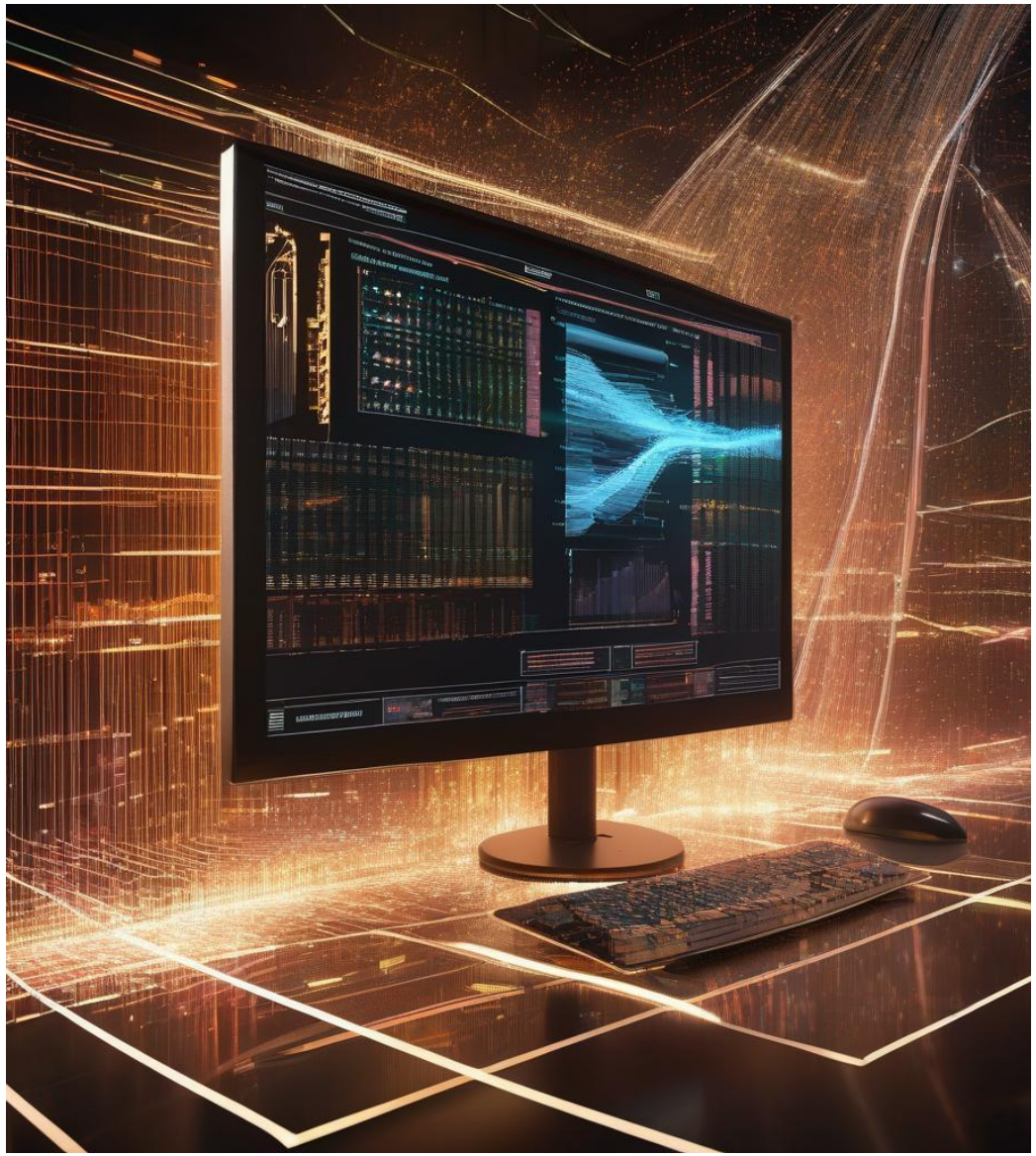
Focus on efficiency that every industry experiences

Qwen 2.5-Max

- Mixture of Experts (MoE) approaches reduce
  - Memory bandwidth requirements
  - Computational requirements

DeepSeek R1

- Mixture of Experts
  - Reduced memory bandwidth & compute
- Multi-Token System
  - Generates multiple outputs simultaneously requiring less compute time
- Low-Precision Datatypes
  - Perform more operations in a smaller chip
  - Consumes less power
- Knowledge Distillation
  - Model training utilizes fewer resources at lower cost



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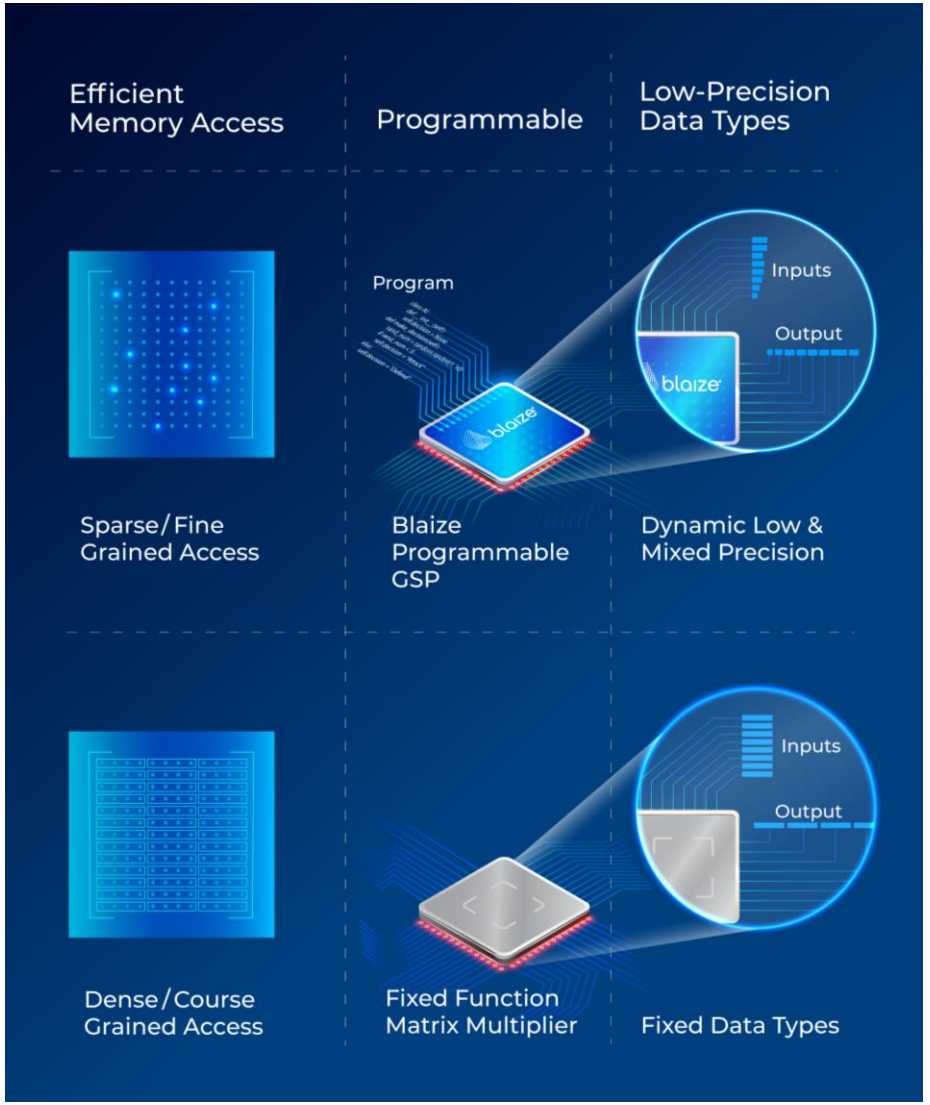
The Blaize Architecture

The GSP is purposefully designed for these types of efficiency transitions*

Architectural Features:

- Support for sparse/fine-grained memory accesses needed by MoE's and other imminent efficiency improvements.
- Programmable architectures embrace algorithmic changes that can cripple fixed-function designs. GSP's are user programmable with languages like 'C++', which is much more than software configurable.
- Low-precision and mixed-precision support reduces energy consumption and increases throughput. GSP's support int4-int64 & fp4-fp64.

The Physical AI world requires efficiency and Blaize is doing it.



*Graph Streaming Processor

Blaize's Experienced Leadership Team

Founders

Dinakar Munagala
CEO

Satyaki Koneru
CTO

Ke Yin
Chief Scientist & VP of Engineering

Val Cook
Chief Software Architect

Senior Management

Harminder Sehmi
CFO

Dmitry Zakharchenko
Chief Software Officer

Tiffany Tan
Chief of Staff

Doug Burns
Chief People Officer

Alex Tinsley
SVP, Sales

Santiago Fernandez-Gomez
VP, Platform Eng.

Joseph Sulistyo
VP of Corporate Marketing

The co-founders of Blaize have collaborated for more than **25 years** in micro-architecture development, SoC production, graphics and visual computing, and software architecture development. The team is well-known for its **visionary leadership** and innovative product designs, shaping the future of Edge AI technology

SoC = System on Chip

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