



Architecting the Future of Global AI Infrastructure

Powering the Next Epoch of Human Intelligence through resilient, efficient, and sovereign scale computation.

INSTITUTIONAL CORE PILLARS

Resilience Ensuring uninterrupted compute for mission-critical AI workloads.

Efficiency Redefining TCO through vertical integration and thermal innovation.

Sovereignty Empowering nations with independent and secure AI capabilities.

v1.0

INSTITUTIONAL GRADE

STRUCTURAL DEFICIT

3.4m

The interval at which global AI compute demand doubles, far outpacing current supply capacity.

The Global Computation Crisis

Legacy Inefficiencies

Traditional infrastructure is architecturally ill-equipped for the massive parallelization and extreme thermal requirements of next-generation large language models.

Sovereignty Risks

Nations and institutions face a critical shortage of independent, secure, and scalable AI infrastructure, creating strategic dependencies on a few global providers.

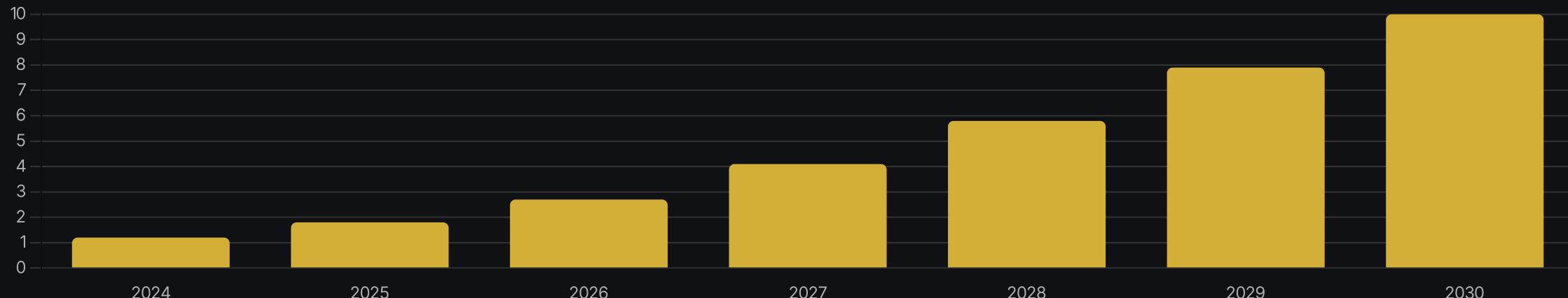
The Strategic Shift

Addressing this imbalance requires a fundamental redesign of the AI stack, moving from general-purpose hardware to specialized, vertically integrated compute layers.

MARKET PROJECTION

The \$10T AI Infrastructure Super-Cycle

Projected market expansion driven by sovereign AI mandates and deep enterprise integration through 2030.



MARKET SEGMENT	PROJ. CAGR	STRATEGIC DRIVER
Sovereign AI	45%	National security, data residency, and economic independence.
Enterprise AI	38%	Integration of proprietary AI into core enterprise business logic.
Hyperscale AI	32%	Continuous scaling requirements for global foundation models.

Integrated Deep-Tech Infrastructure

YUGA provides a vertically integrated stack that eliminates the inefficiencies of legacy general-purpose cloud. By unifying custom silicon, liquid-cooled hardware, and autonomous orchestration, we deliver unprecedented performance and economic scale.

Vertical Integration

A unified stack combining custom silicon, liquid-cooled hardware, and autonomous orchestration.

Scalability

Modular architecture allowing for rapid deployment of "Compute Cities" globally.

Sustainability

Proprietary thermal management reducing energy consumption by 40% per FLOP.

Performance

Optimized for transformer-based architectures and future neural modalities.

10X
TCO GAIN

VS. LEGACY HYPERSCALE

TECHNICAL SUPERIORITY

Beyond Hyperscale Architecture

LAYER	DIFFERENTIATION	IMPACT
Silicon	Custom Transformer ASICs	5x Perf/Watt
Interconnect	Ultra-low latency fabric	100k+ Nodes
Cooling	Direct-to-chip liquid	-40% PUE

Neural-Optimized Silicon

Custom silicon designed specifically for transformer-based architectures and future neural modalities, eliminating the overhead of general-purpose GPU instructions.

Software-Defined Compute

Autonomous workload distribution that eliminates latency and maximizes utilization across the entire cluster, ensuring zero-idle time for critical compute resources.

Institutional Security

Hardware-level encryption and air-gapped options designed for sovereign and institutional clients requiring the highest levels of data integrity and isolation.

MARKET POSITIONING

Defining the Frontier

YUGA is architected to bypass the technical debt of legacy hyperscalers and the fragmentation of pure-play chip designers.

DIMENSION	LEGACY CLOUD	CHIP DESIGNERS	YUGA V1.0
Architecture	General-purpose / Legacy debt	Component-focused	AI-Native / Silicon-to-Software
Integration	Fragmented third-party stacks	Hardware only	Full-stack Vertical Integration
Efficiency	High PUE / Air-cooled	Variable (OEM dependent)	Liquid-cooled / 40% Energy Reduction

Strategic Moat

Proprietary IP in thermal management and interconnect fabric that is fundamentally difficult to replicate within legacy data center footprints.

Market Position

The primary institutional alternative to the existing "Big Tech" oligopoly, offering sovereign-grade independence and security.

FINANCIAL MODEL

High-Margin Infrastructure as a Service

REVENUE STREAM	MODEL TYPE	TARGET AUDIENCE
Dedicated Compute RECURRING / LONG-TERM	Sovereign Funds, Global 500	Multi-year contracts for guaranteed AI capacity.
Architecture Licensing CAPITAL LEASE / ROYALTY	National AI Initiatives	Licensing proprietary stack for private deployments.
Optimization Services HIGH-MARGIN SERVICE	Enterprise AI Teams	Workload optimization and security integration.

70%+
GROSS MARGIN

Targeted at scale through vertical integration and energy efficiency.

Product Roadmap: 2026 – 2028

Year 1: Foundation

Alpha Cluster Deployment

Operational launch of the first high-performance AI compute cluster for pilot institutional partners.

Silicon v1.0 Tape-out

Finalization of custom Transformer ASIC design and transition to fabrication phase.

Year 2: Expansion

Global Regional Scaling

Establishment of operational facilities in three key global regions to meet localized demand.

Sovereign Partnerships

Launch of dedicated Sovereign Cloud environments for national AI initiatives.

Year 3: Dominance

Silicon v2.0 Commercialization

Full-scale integration of next-gen silicon across all YUGA infrastructure nodes.

100+ MW Capacity

Achievement of institutional-scale operational compute capacity globally.

LONG-TERM OBJECTIVE

Establishing the "YUGA Protocol" as the global standard for AI workload orchestration and infrastructure efficiency.

Institutional & Sovereign Focus

Sovereign Wealth Funds

Targeting national AI initiatives seeking localized, secure, and independent infrastructure to ensure economic and data sovereignty.

Global Fortune 500

Engaging enterprises requiring dedicated, high-performance AI compute environments for proprietary model development and deployment.

Strategic Partnership Model

Joint ventures with global energy providers and industrial real estate developers to facilitate rapid, large-scale facility deployment.

High-Touch Institutional Sales

A specialized sales force targeting C-suite executives and government leadership to secure long-term, multi-year compute commitments.

GTM

CAPITAL REQUIREMENT

Series B Funding

Accelerating the deployment of YUGA's first commercial-scale AI data center and finalizing silicon fabrication.

\$500M

ROUND DETAILS

METRIC	TARGET
Funding Amount	\$500 Million
Primary Use	Infrastructure & Silicon
Closing Date	Q3 2026

INVESTOR PROFILE

Seeking lead participation from Tier-1 Venture Capital and Sovereign Wealth entities with a strategic focus on the global AI infrastructure layer.

Capital Allocation Plan

INVESTMENT AREA**ALLOCATION STRATEGIC OBJECTIVE****R&D & Silicon****40%** Finalizing v1.0 production and accelerating v2.0 design.**Infrastructure****35%** CAPEX for the first 50MW high-performance AI data center.**Global Expansion****15%** Scaling engineering team and establishing regional headquarters.**Operational Reserve****10%** Working capital and strategic contingencies for rapid scaling.

\$500M
SERIES B

Strictly allocated to high-impact areas driving valuation and operational scale.

THE MANDATE

Defining the AI Century

"Computation is the new oil, and YUGA is building both the refinery and the pipeline. This is a rare opportunity to back the foundational infrastructure of the AI-native era."

Join us in architecting the computational backbone of the 21st century.

YUGA v1.0

THE FUTURE OF COMPUTATION

yuga.ai