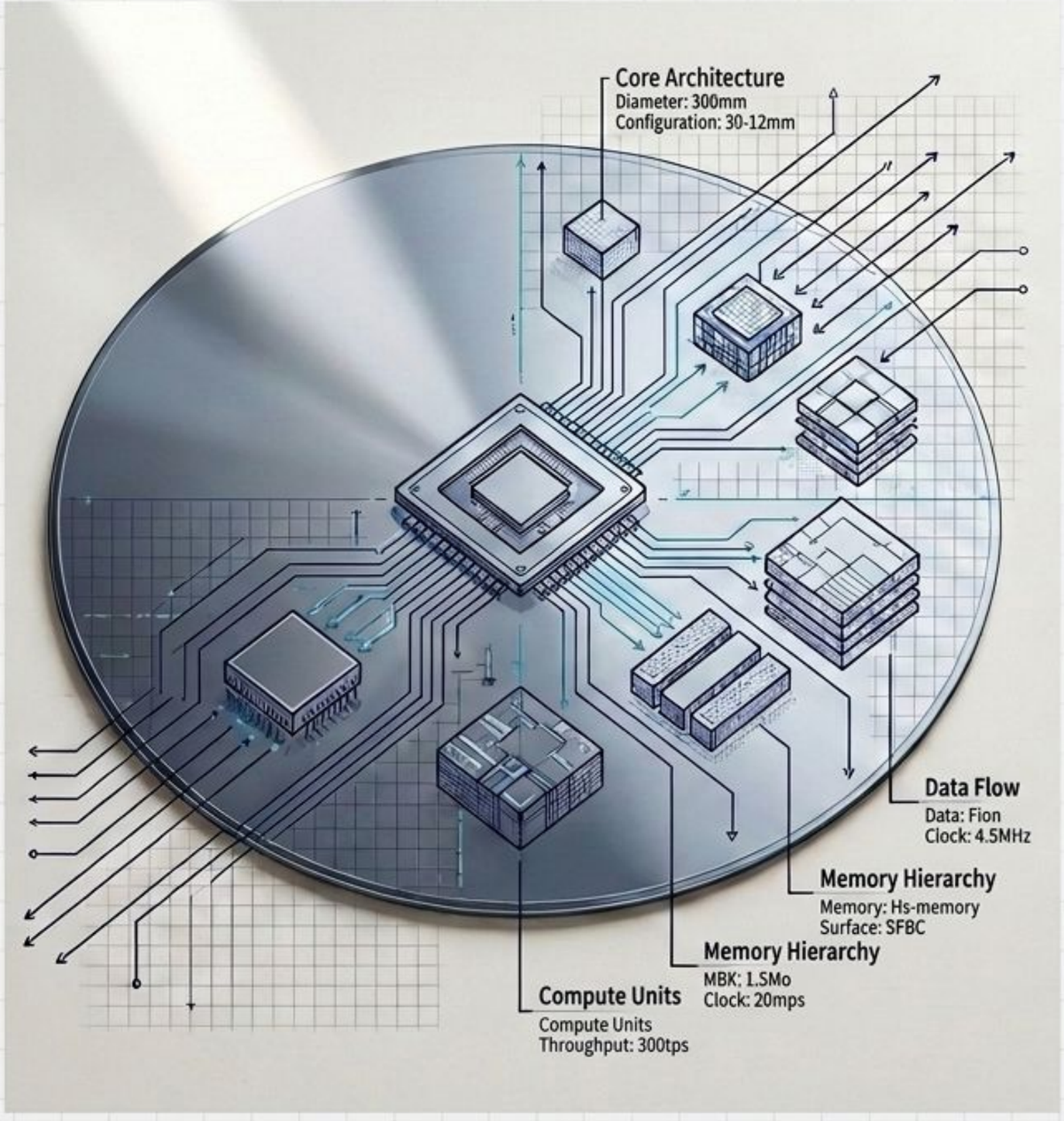


Weekly Semiconductor News: June 5 - June 11, 2026

Miki Matsui
Co-Founder, CHIP-J

The explosive increase in compute demand driven by the AI boom has exposed the limitations of traditional Moore's Law, forcing a structural paradigm shift in the semiconductor industry.
Next-generation silicon is evolving beyond mere miniaturization, towards heterogeneous architectures through the integration of chiplet technology, advanced packaging, and dedicated AI accelerators.

【Structural Bottleneck】
Manufacturing capacity for advanced processes is limited, and geopolitical tensions are increasing supply chain vulnerability. This is a factor accelerating market restructuring.

【Market Dynamics】
The market for dedicated AI chips is expected to double by 2026, leading to a surge in investment for high-bandwidth memory (HBM) and high-bandwidth interconnects. This will become the new frontier of the semiconductor map.

The ripple effect of AI demand across the entire ecosystem facing physical and economic limits

Facing market reality
(Broadcom's guidance and market adjustment)

Revenue outlook → **Broadcom** → Market re-evaluation

Broadcom
FY'25E Revenue growth rate: +8% (forecast)
Revised guidance: +6% (reality)

Broadcom → Downward revision

Architecture invasion
(NVIDIA's full-scale entry into the PC market)

NVIDIA GPU & ARM CPU integration

PC ecosystem
- Windows AI
- Gaming
- Workstation

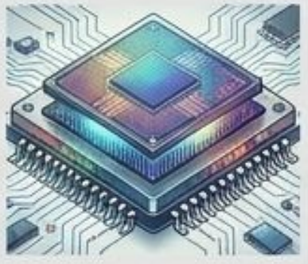
Market share target: 20% (2025)

- **Intel**
- **AMD** → Share erosion risk

Physical and economic limits of AI demand

Foundry overflow
(TSMC saturation and ripple to Samsung/Intel)

TSMC (Advanced Node)
Utilization: >100%



Samsung (GAA)
Outsourcing capacity

CoWoS advanced packaging
Demand: >200%

Intel Foundry (IFS)
Signs of increased orders

Expansion of geopolitical encirclement
(US application of regulations to foreign subsidiaries)

USA
(DOC BIS)

China subsidiaries
- Expansion of restricted items
- Pressure for supply chain restructuring

Target Entity List:
+150 companies added (Q3)

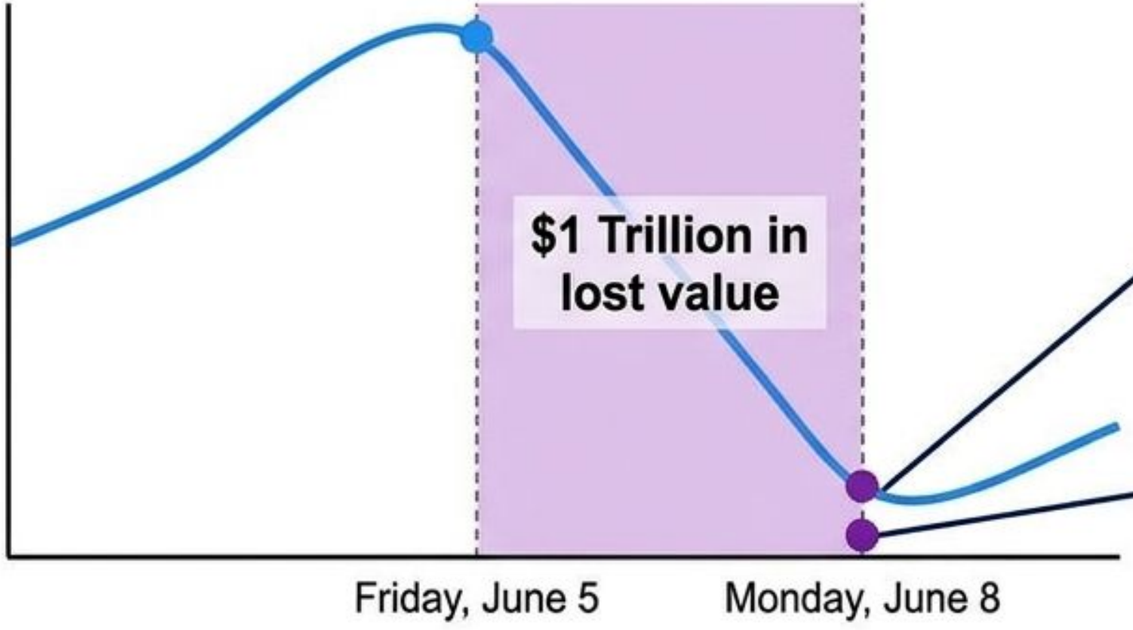
Southeast Asia production bases
- Expansion of restricted items

Shipments to the Middle East
- Pressure for supply chain restructuring

This week's intense market fluctuations and industry trends converge on a single thesis. The scenario of "unlimited AI demand" has collided with real-world capacity and guidance, forcing the entire industry to adapt.

Transition from Infinite AI Growth Expectations to Rigorous Fundamentals Assessment

Editorial Financial Timeline



Diagnostic Layout - Expectation vs. Reality

Expectation (The Hype):
Unlimited expansion of AI demand (Consensus forecast: AI semiconductor sales approx. $17.2B)

Reality (The Trigger):
Broadcom's Q3 guidance (approx. $16B) and unchanged full-year AI forecast

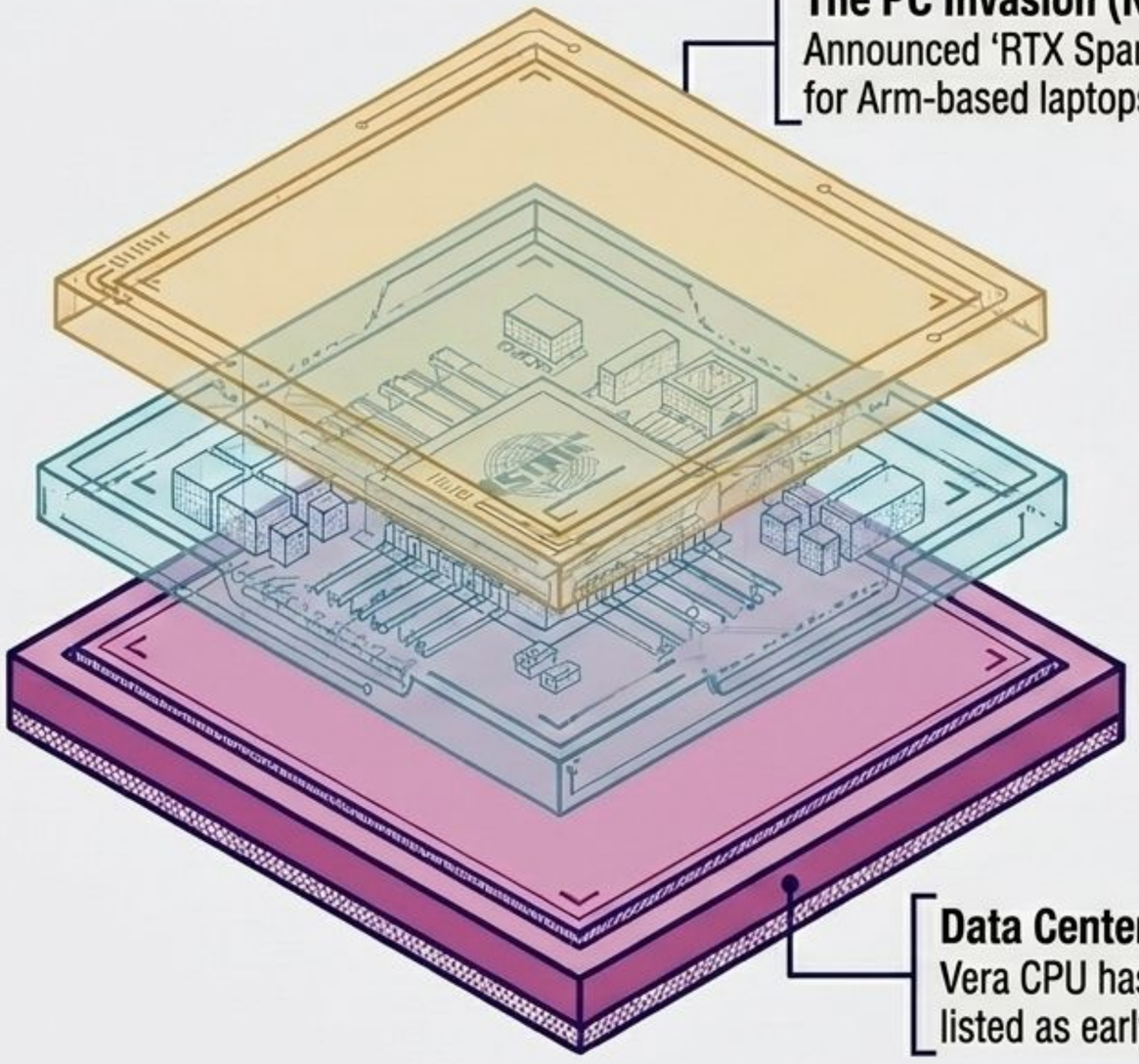
Broadcom Shock:
Trigger that collapsed the market's "AI Unlimited Growth" scenario.

Collateral Damage:
Marvell recorded a drop of approx. 16%, Micron approx. 13%.

The Rebound:
Micron rebounded by approx. 10% on Monday (June 8), and the market shifted to a reassessment mode based on fundamentals.

The Data Center Dominator Invades Client and Edge Territories

The PC Invasion (New Front):
Announced 'RTX Spark' superchip for Arm-based laptops/desktops.



Strategic Partnerships:

Realized Windows on Arm environment through joint development with MediaTek. Scheduled to be included in major hardware such as Dell, HP, Lenovo, and Microsoft Surface.

Strategic Insight Block:

Dominating the data center is not enough. NVIDIA is building an end-to-end AI stack and posing a direct threat to the core markets of Intel, AMD, and Qualcomm.

Data Center Core (Established Hegemony):
Vera CPU has reached full production. OpenAI, Anthropic, and SpaceX are listed as early adopters, monopolizing the foundation of the AI stack.

Ecosystem Fragmentation Over New PC Architecture Hegemony

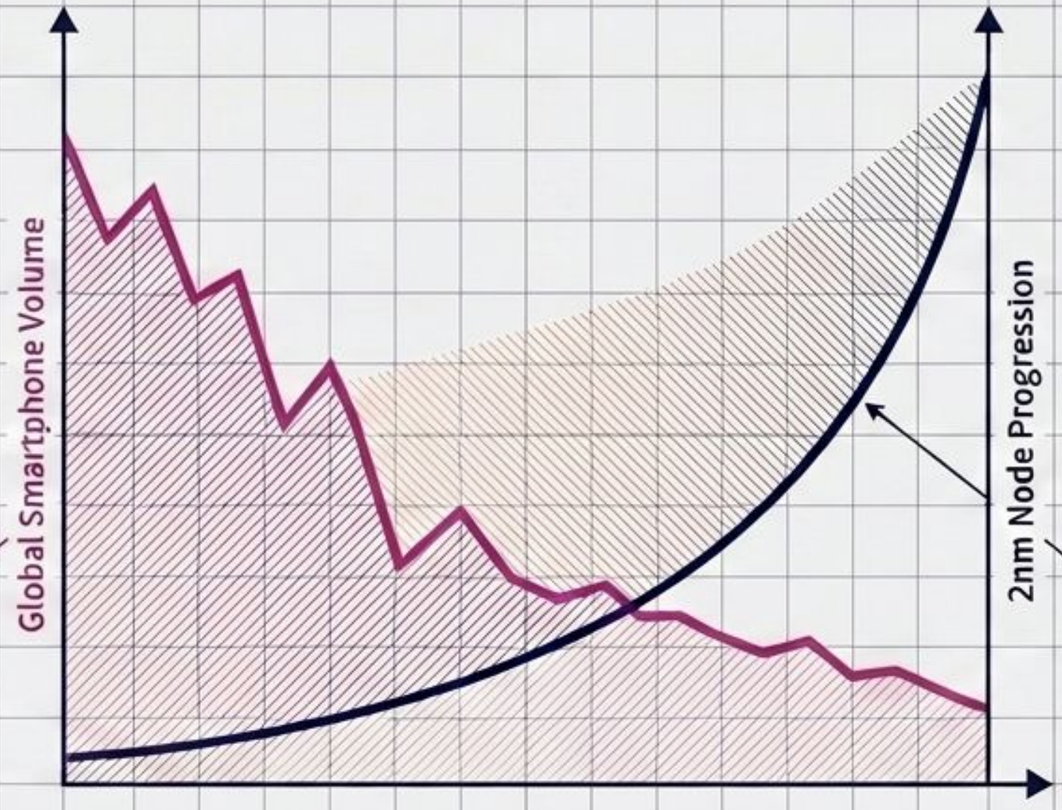
	Arm Alliance	x86 Defenders
1	NVIDIA, MediaTek, Qualcomm, Apple	Intel, AMD
2	NVIDIA's entry into the client market caused a re-evaluation of the PC franchise competitive landscape, driving Intel's stock down by approximately 4.5% in the same week. MediaTek cancelled its Computex keynote to focus on its partnership with NVIDIA.	A situation of forced defense. Analysts are beginning to factor the structural threat to x86 into market prices.

3 The battle for manufacturing capacity intensifies over the transition to the 2nm process (TSMC N2) in the latter half of 2026.

The main battleground for client computing is shifting from mere chip performance competition to a battle for architectural survival involving the OS (Windows on Arm).

The Dilemma of Historic Demand Decline and Reliance on the Next-Gen 2nm Process

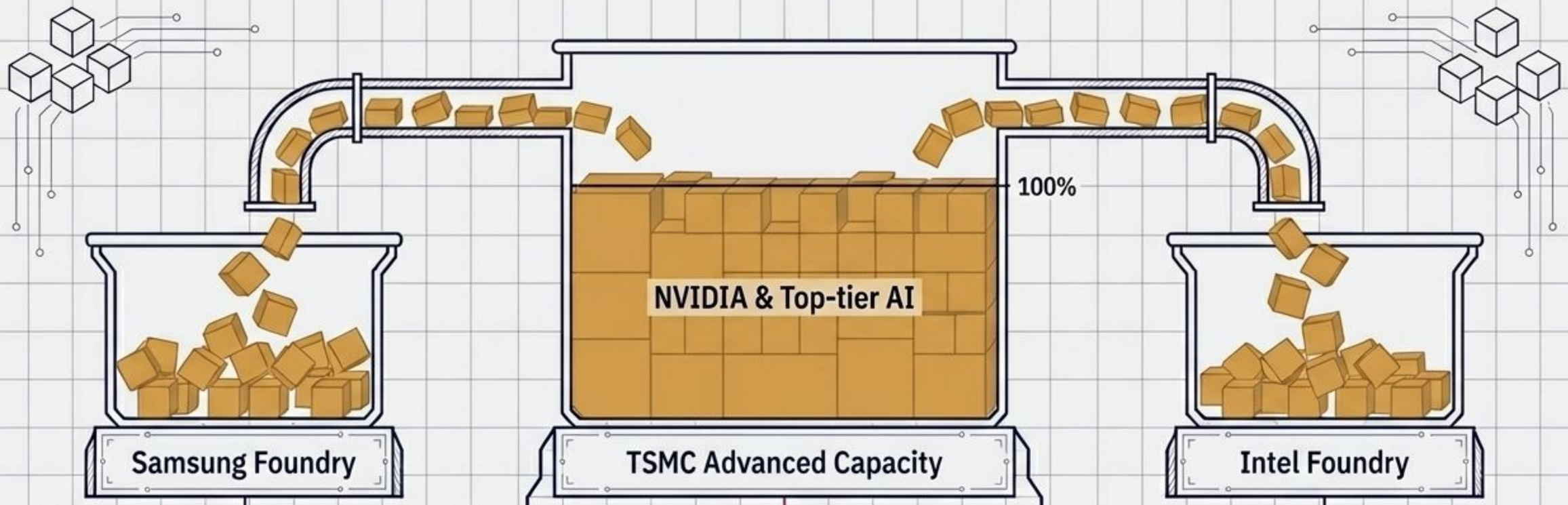
Consumer Demand Crash (The Headwind):
According to IDC forecasts, the global smartphone market in 2026 will shrink by approximately 13%, recording the lowest shipment volume in the past decade. This memory/demand-side shock is a major factor in this week's semiconductor sector decline (especially Micron).



The 2nm Rush (The Catalyst):
Apple (A20/A20 Pro), Qualcomm, and MediaTek are all consolidating their flagship SoCs on TSMC's N2 (2nm) process. MediaTek has already completed the tape-out of its 2nm chip. Product launches are concentrated in the latter half of 2026.

As demand plummets, chipmakers are cornered into betting everything on the overwhelming performance gains of 2nm, which comes with enormous costs, to entice consumers to upgrade.

“Overflow” to Alternative Foundries Triggered by TSMC’s Capacity Saturation

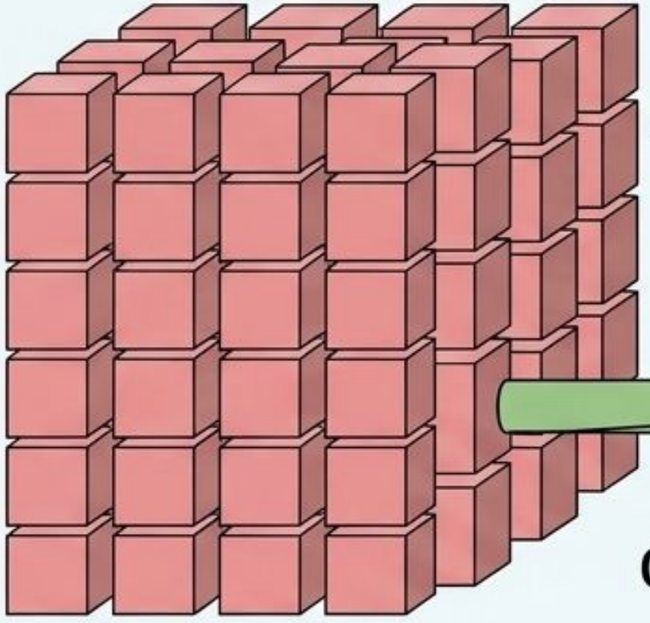


The Samsung Resurgence:
Aiming for profitability by Q3 2026 through improved yield and utilization rates.
Winning overflowing AI chip deals like Groq accelerators and NVIDIA's autonomous driving chips (4nm/8nm).
Samsung's top executive Jun Young-hyun met with Jensen Huang in Seoul to deepen collaboration.

The TSMC Bottleneck:
TSMC's leading-edge nodes are virtually "sold out" due to AI accelerator demand. Even Apple, while procuring over 100 million chips from the Arizona fab by year-end, is forced to seek second sources for the next-generation A21 chip.

The Intel Opening:
Initiated early-stage discussions with Apple against the backdrop of TSMC's supply constraints.

Physical Constraints of the Lithography Supply Chain Choking All Foundries



Strategic Insight

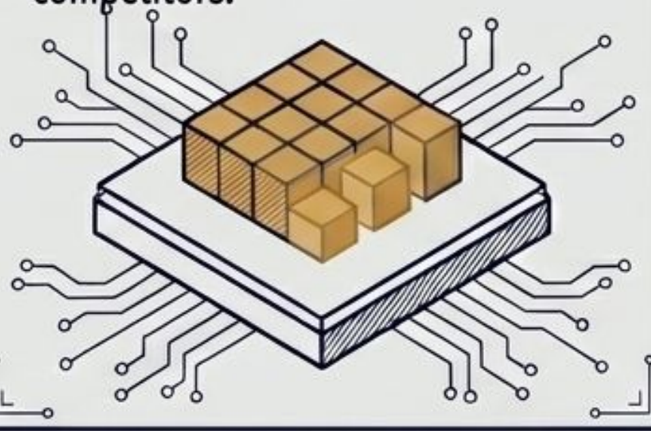
Despite intensifying competition among foundries, TSMC, Samsung, and Intel are all trapped by the physical limits of a single supply chain, ASML. Backlog clearance is expected to slip to late 2027.

Strategic Positioning in the Foundry Triumvirate Competition

TSMC
(The Capacity King)

Share: 73% (as of Q1, up from 72% previous quarter)

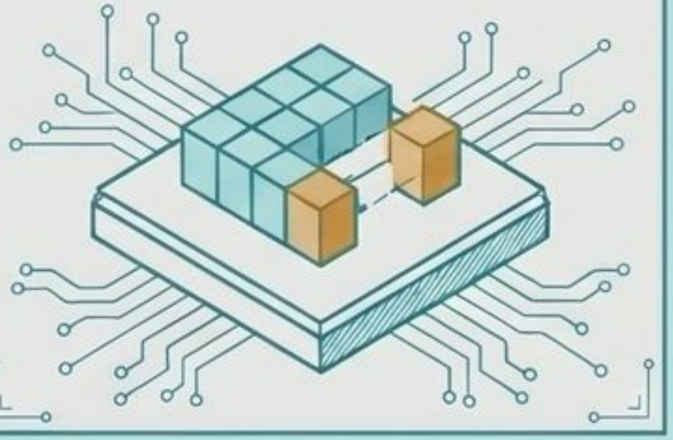
Status: Capacity is fully saturated. This paradoxically becomes the factor opening the door for competitors.



Samsung Foundry
(The Rebound Challenger)

Share: approx. 7%

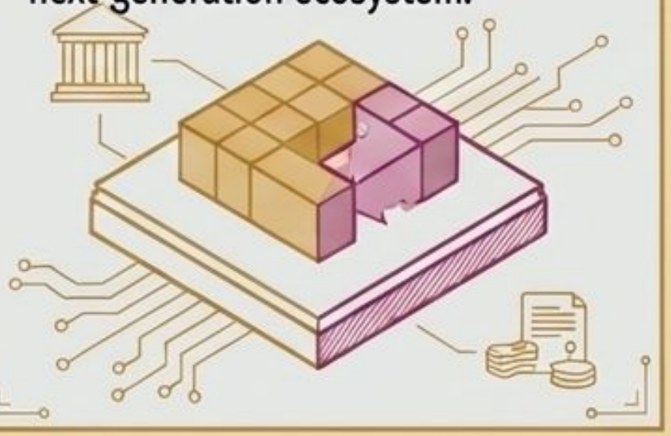
Status: Recipient of overflow demand from TSMC. Aiming for Q3 profitability through yield improvement and new orders from NVIDIA/Groq, etc.



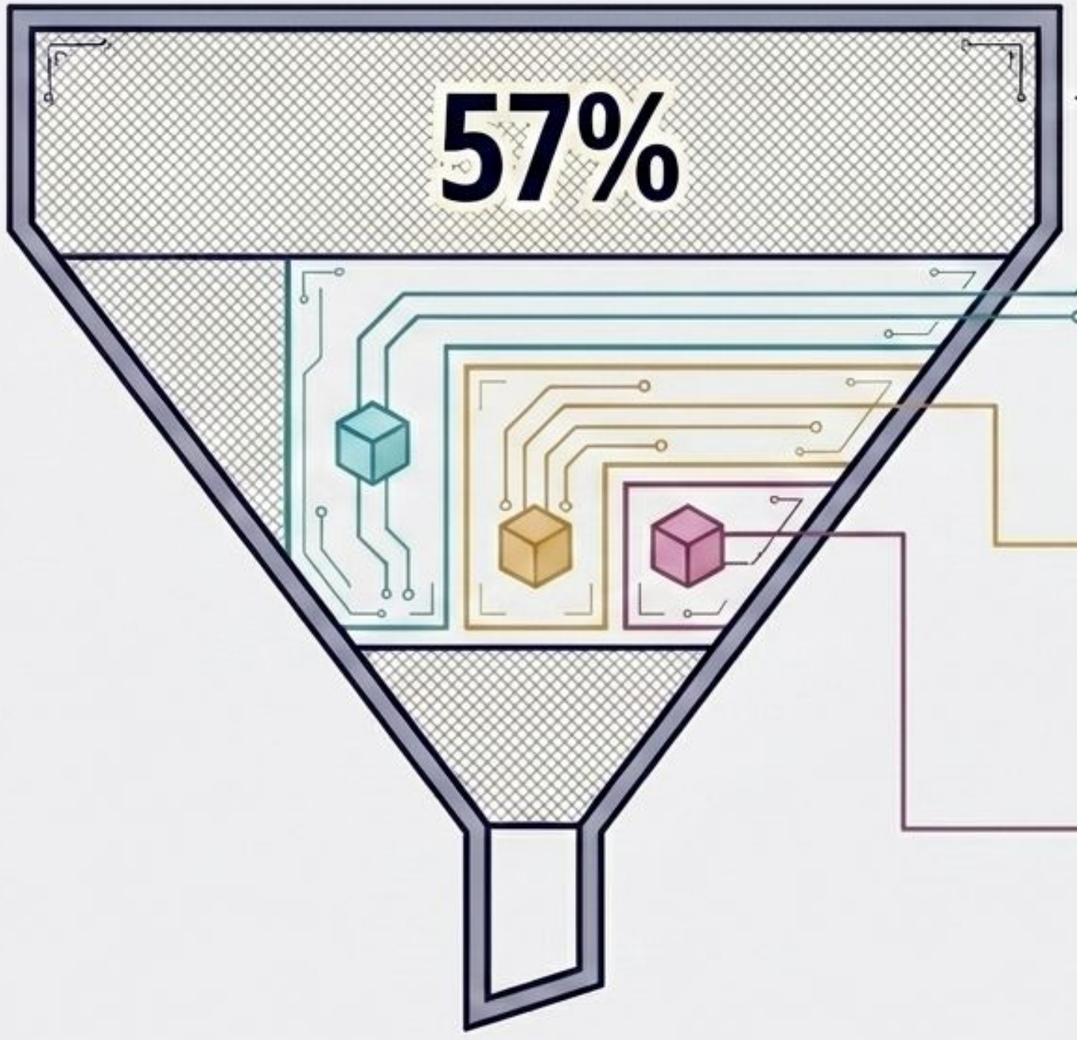
Intel Foundry
(The Sovereign Play)

Share: (N/A - Internal transition)

Status: Strong backing from CHIPS Act funding and the US government. Pursuing early discussions with Apple and entry into the next-generation ecosystem.



Acceleration of Capital Concentration and Reorganization in the NVIDIA Alternative Ecosystem

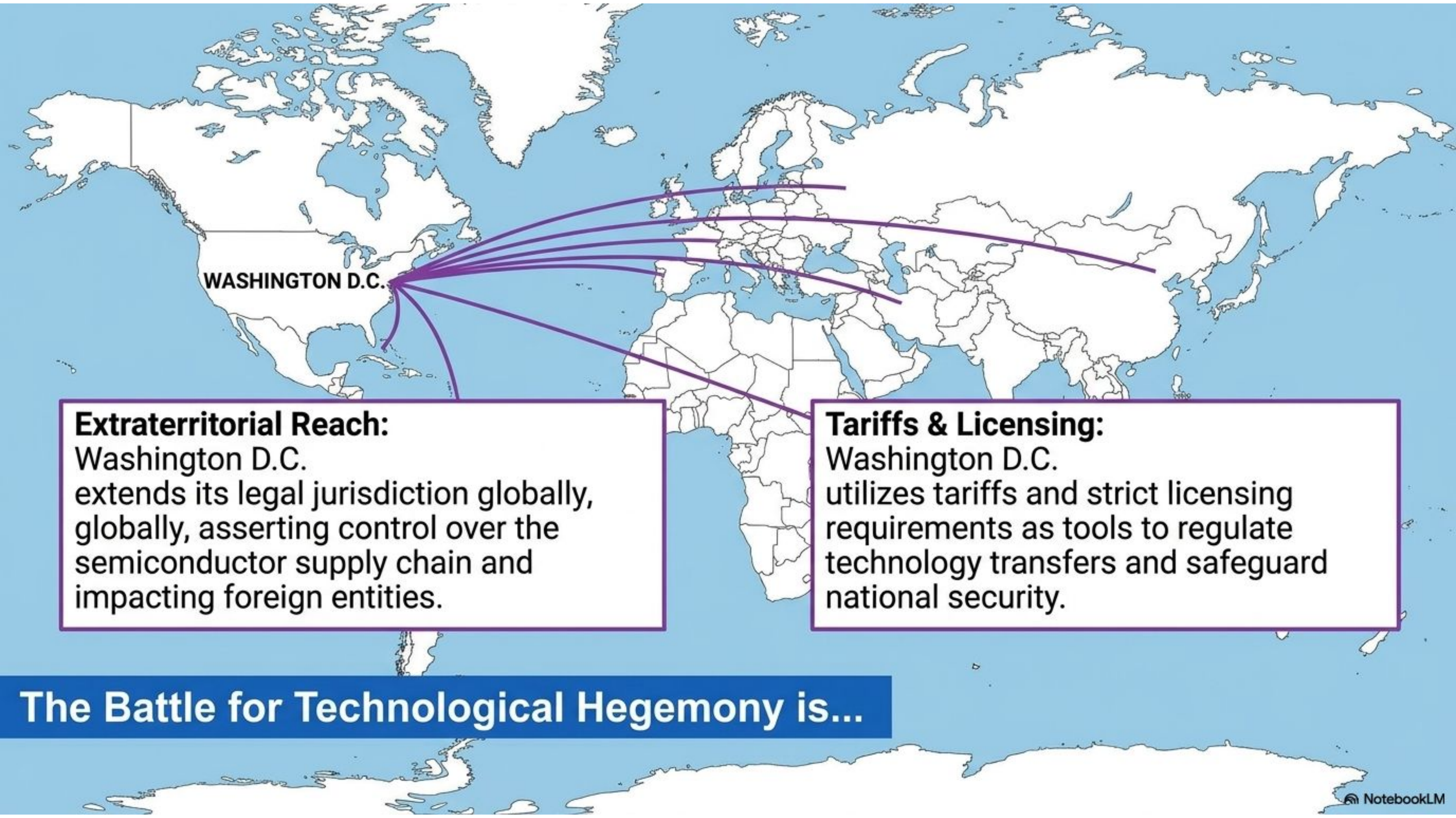


VC Concentration Metric:
Approximately 57% of AI chip-related VC funding so far in 2026 is concentrated in the top 3 mega-deals.

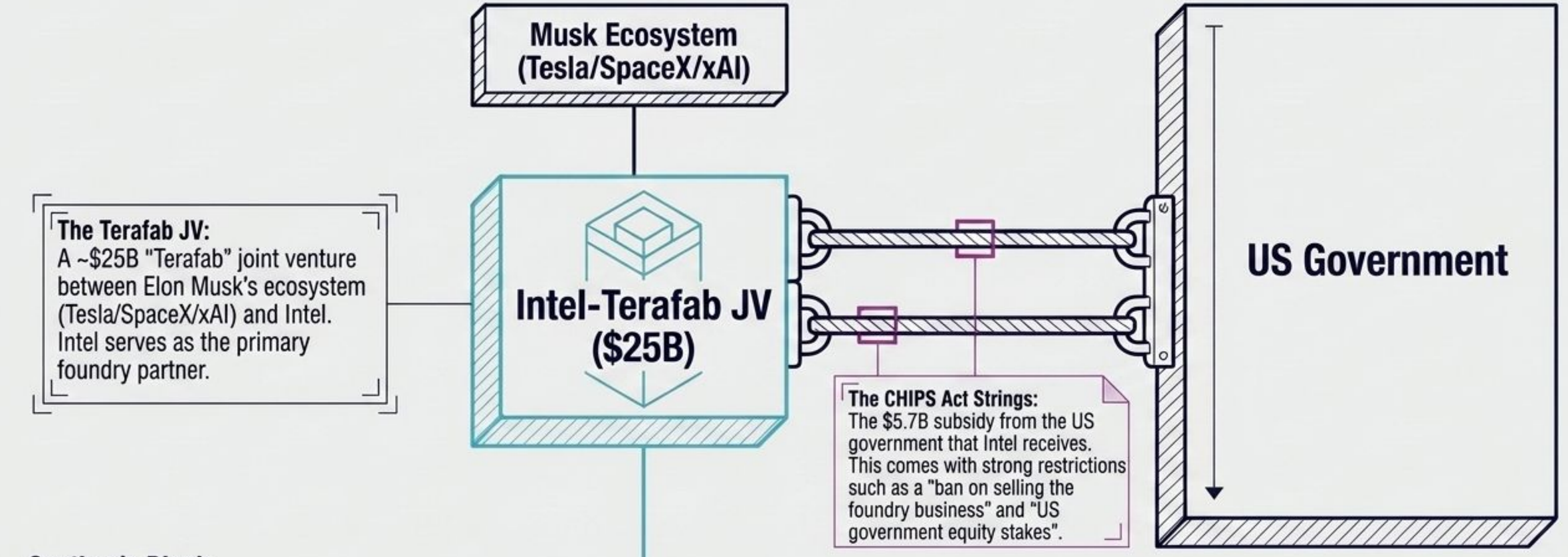
Tenstorrent (M&A Target):
RISC-V AI startup valued at approximately $3.2B. Approached by Intel and Qualcomm for acquisition (potential for over $5B). Suggests Qualcomm's shift towards acquiring external AI technology/IP.

Groq (The Cloud Pivot):
After NVIDIA's acquisition of assets and key personnel for approximately $20B, raised approximately $650M from existing investors for a pivot to an AI inference cloud business.

SiFive (RISC-V Push):
Raised $400M (valuation $3.65B). NVIDIA and others also invested. Accelerating the development of RISC-V CPU/AI IP for agentic AI data center workloads.


WASHINGTON D.C.
Extraterritorial Reach:
Washington D.C.
extends its legal jurisdiction globally, globally, asserting control over the semiconductor supply chain and impacting foreign entities.
Tariffs & Licensing:
Washington D.C.
utilizes tariffs and strict licensing requirements as tools to regulate technology transfers and safeguard national security.
The Battle for Technological Hegemony is...
NotebookLM

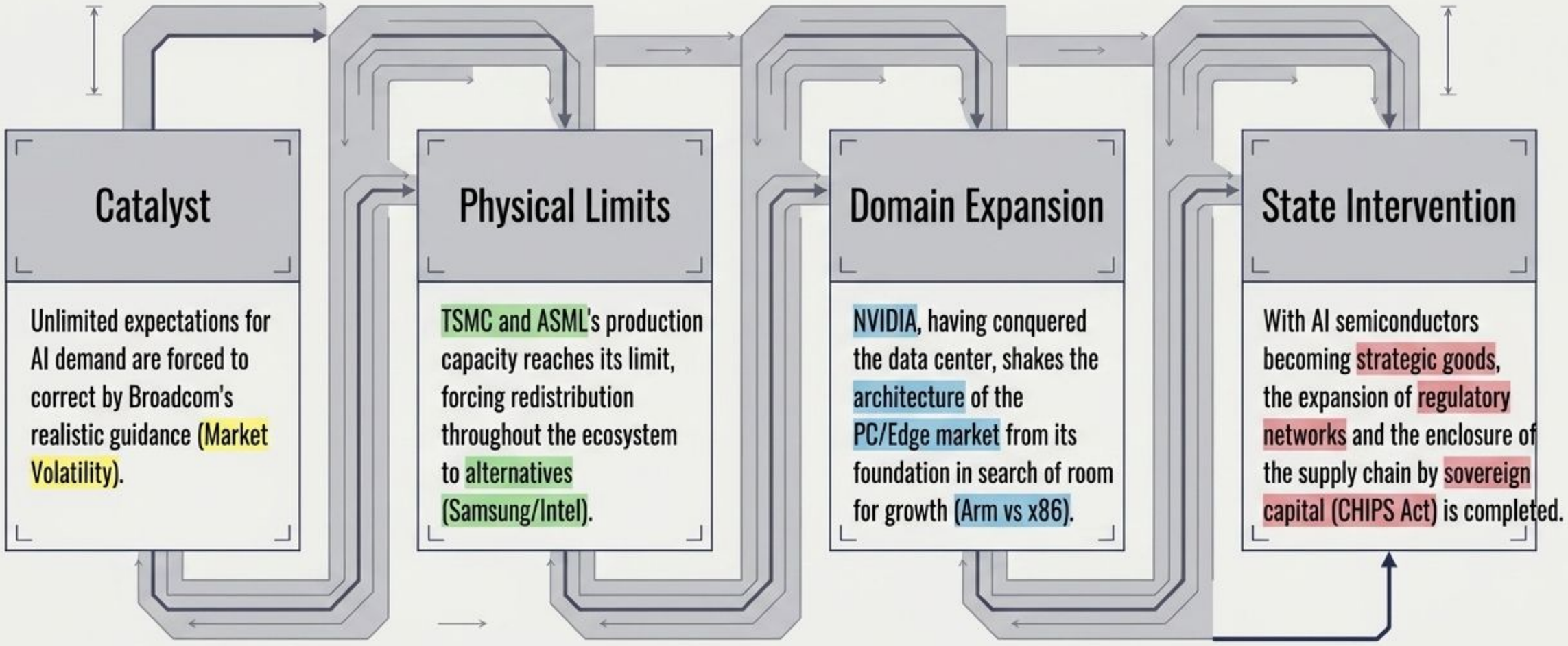
The Capital and Political Ties of Leading-Edge Foundries Becoming Sovereign Infrastructure



Synthesis Block

Leading-edge foundries are no longer just private businesses. They have transformed into "highly regulated sovereign infrastructure" deeply tied to national security, which is the backdrop for Intel's stock price surge (up ~250% YTD).

The ‘AI Ripple Effect’ as a Single Principle Underpinning a Series of Market Fluctuations



Three Strategic Implications for Stakeholders in the Japanese Market

1

Takeaway 1: Exploring Investment Opportunities in the "Overflow" Market

With TSMC's concentration reaching its limits, new value is emerging in Samsung Foundry's ecosystem and the surrounding supply chains of alternative RISC-V/AI startups (like Tenstorrent).

2

Takeaway 2: Preparing for the "Client Architecture War" in the Second Half of 2026

Synchronized with the ramp-up of the 2nm process, the clash between the NVIDIA/Arm alliance and Intel/AMD (x86) will intensify in the PC market. Related component companies need a structure that can respond immediately to changes in the balance of power between the two camps.

3

Takeaway 3: Adapting to "Sovereign Infrastructure" Incorporating Geopolitical Risk

The US government's expanding regulatory net and strings-attached CHIPS Act funding (like Intel/Terafab) determine the fragmentation of the supply chain. Compliance monitoring and the construction of “geopolitically safe” procurement networks are urgent.

Information Sources and Data Structure for This Briefing

Markets & Finance	Supply Chain & Foundry	Technology & Hardware	Startup & VC Intelligence	Policy & Geopolitics
CNBC	TrendForce	TweakTown	TechCrunch	Al Jazeera
Bloomberg	DigiTimes	wccftech	New Market Pitch	Mayer Brown
TheStreet	Republic World	VideoCardz	Semiconductor Engineering	Morgan Lewis
Yahoo Finance	RivCut	Tom’s Hardware		SIA / Business Wire
Crypto Briefing		DCD / SiliconANGLE		Intel Newsroom

[Data synthesized from *Semiconductor Weekly Digest* — June 5–11, 2026]