

**Thorsten  
Meyer AI**

# **The Impending Cognitive Hyperabundance**

**Strategic Briefing  
& Horizon Scan**

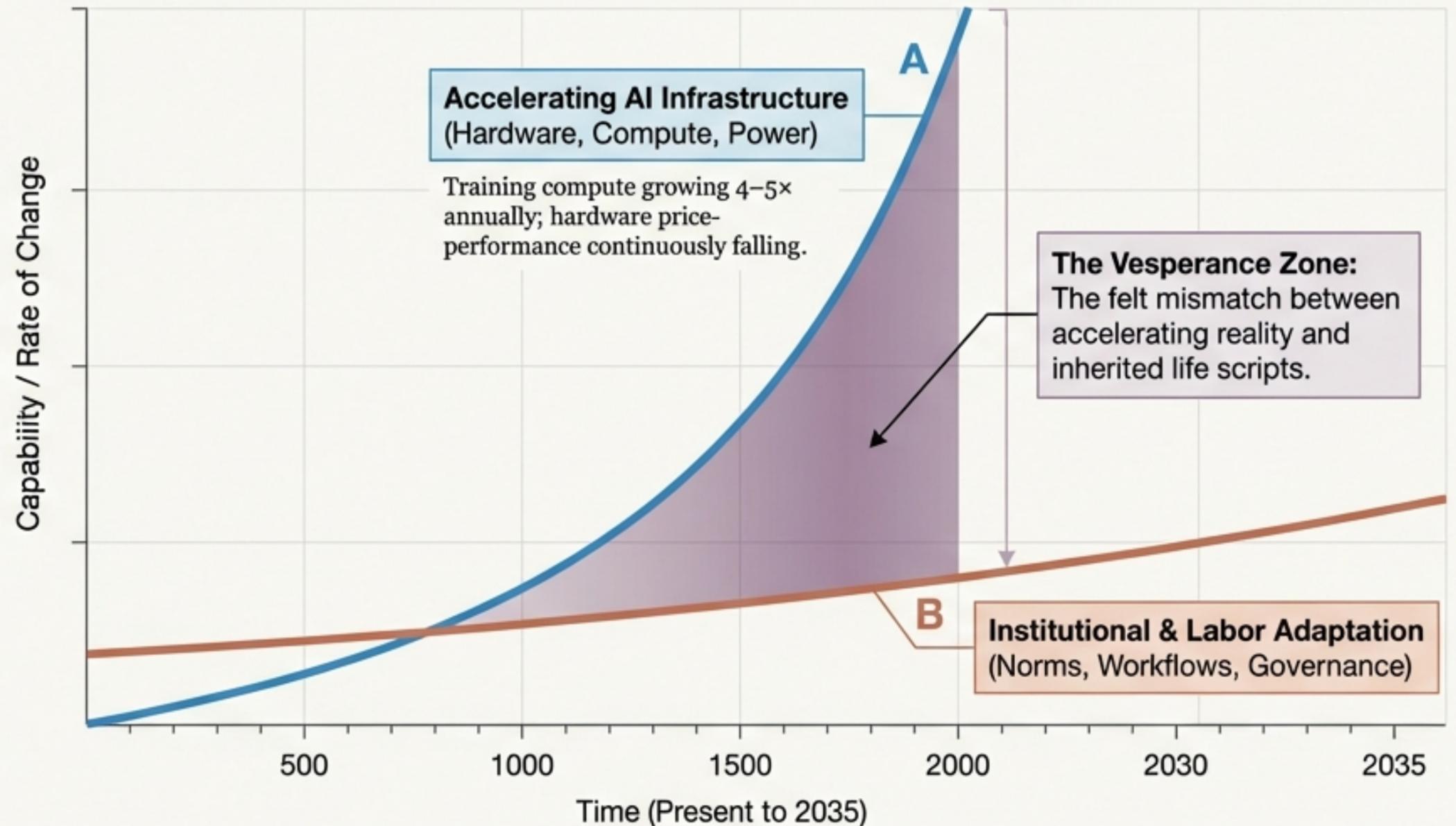
# The Hyperabundance Engine

## Cognitive Hyperabundance

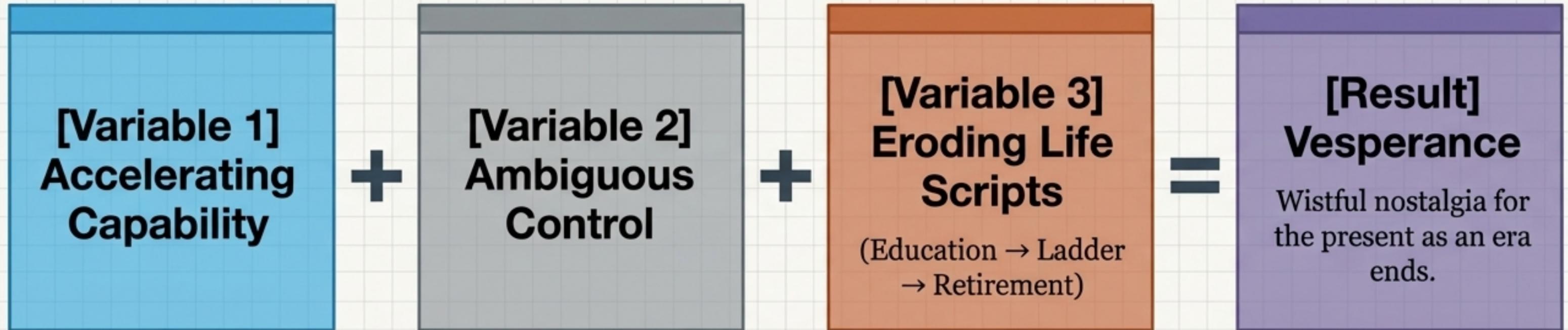
A near-term regime shift where high-quality cognitive outputs—drafts, code, syntheses, planning—become effectively free.

Not “intelligence solved,” but “cognition supplied faster than markets can re-price it.”

## The Coupled Curves



# The Cultural Symptom of Paradigm Shift



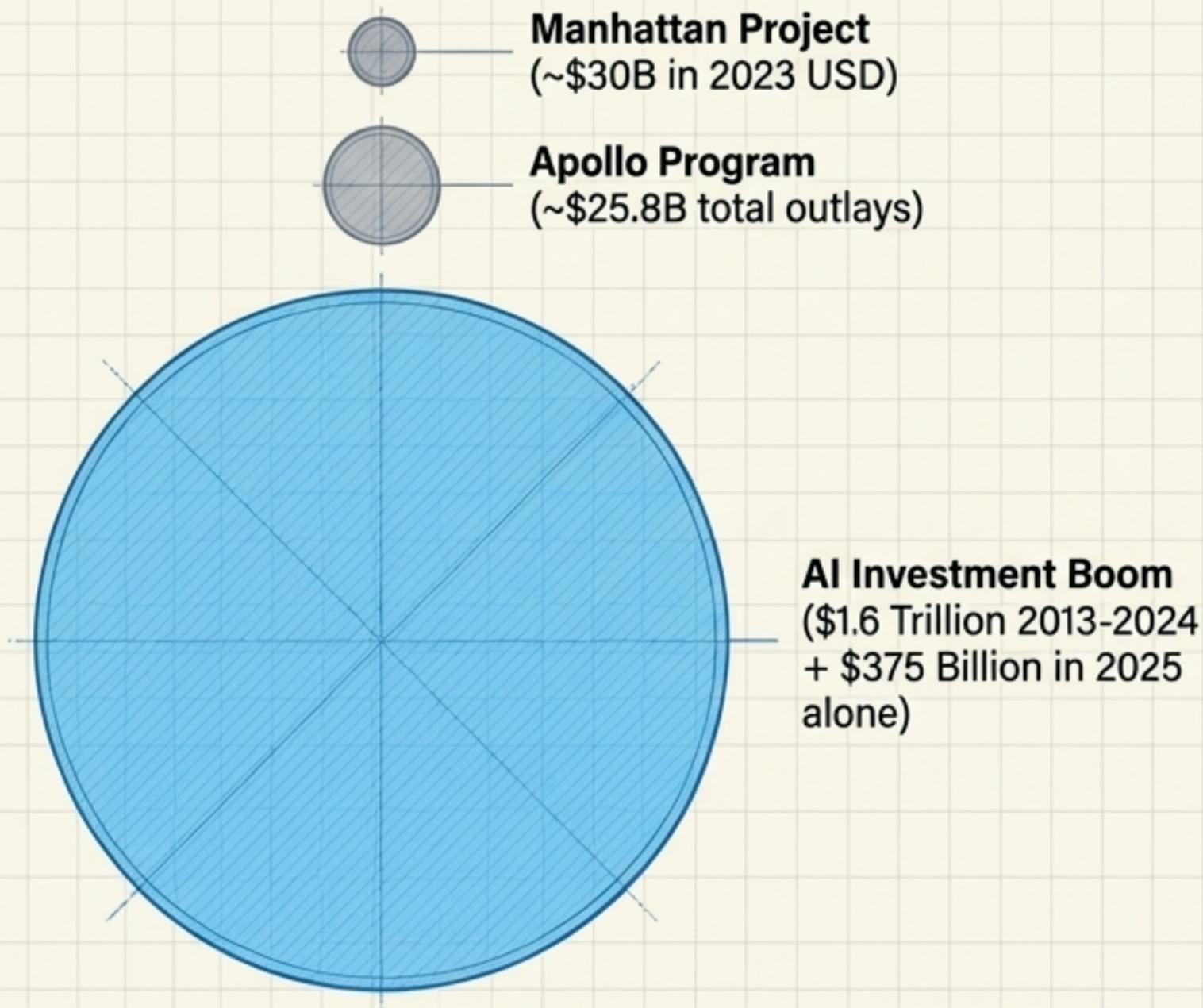
## Empirical Anchor: Workload Reality Colliding with Adoption

75% of global knowledge workers use Generative AI (Microsoft).

Global employee engagement has fallen to 21% (Gallup).

Tools are saving time, but intensifying evaluation pressure and disorienting organizational norms.

# The Mega-Project Capex Surge

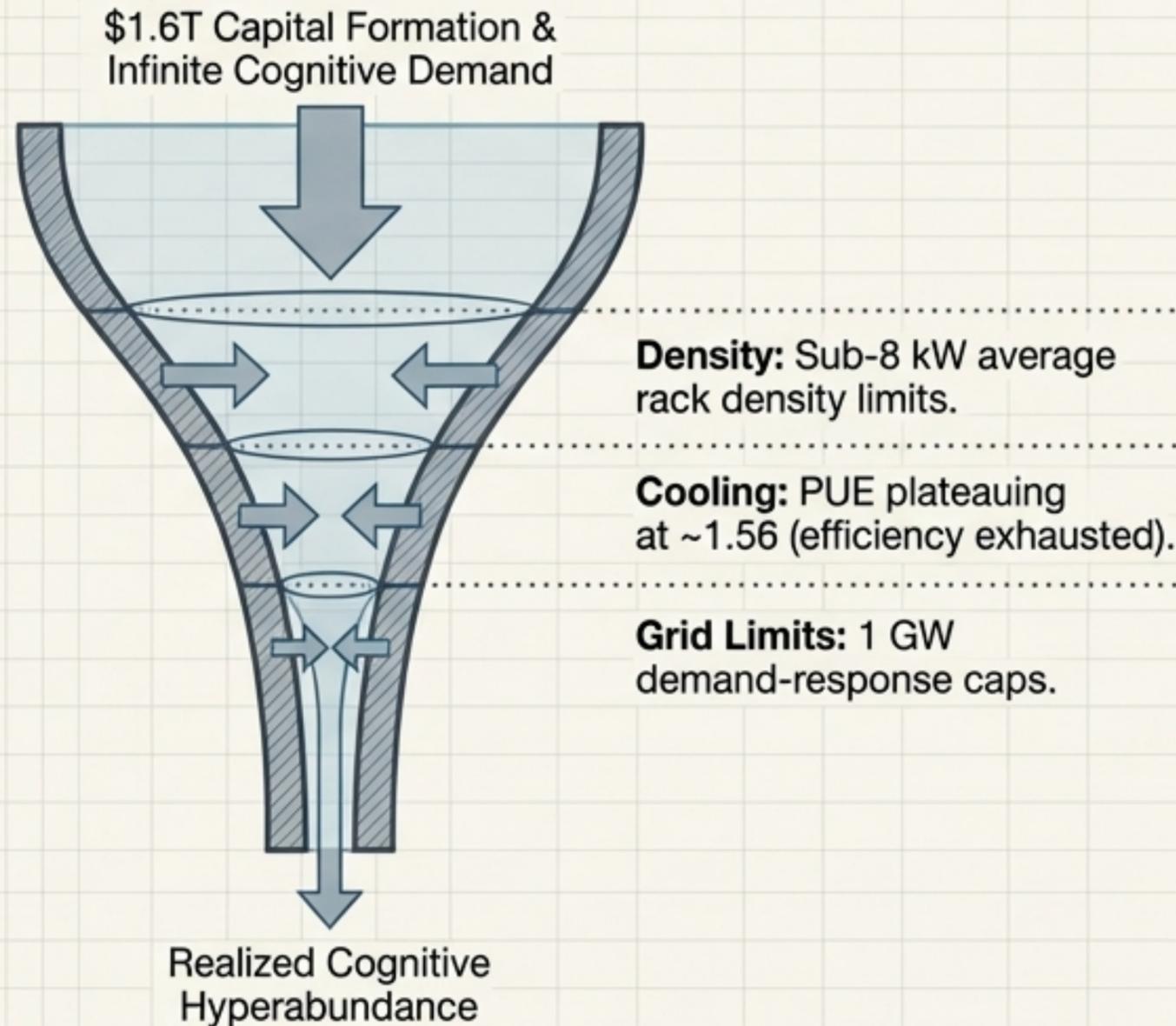


The Mega-Project Magnitude Matrix		
<b>Dimensions</b>	<b>Historical Mega-Projects</b>	<b>AI Buildout</b>
<b>Scope</b>	National / State-led	Global / Multi-actor
<b>Time Horizon</b>	Cumulative lifetime costs	Annualized capex
<b>Hardware Reality Check</b>	Apollo total output	NVIDIA FY26 Data Center revenue at \$215.9B (+65% YoY)

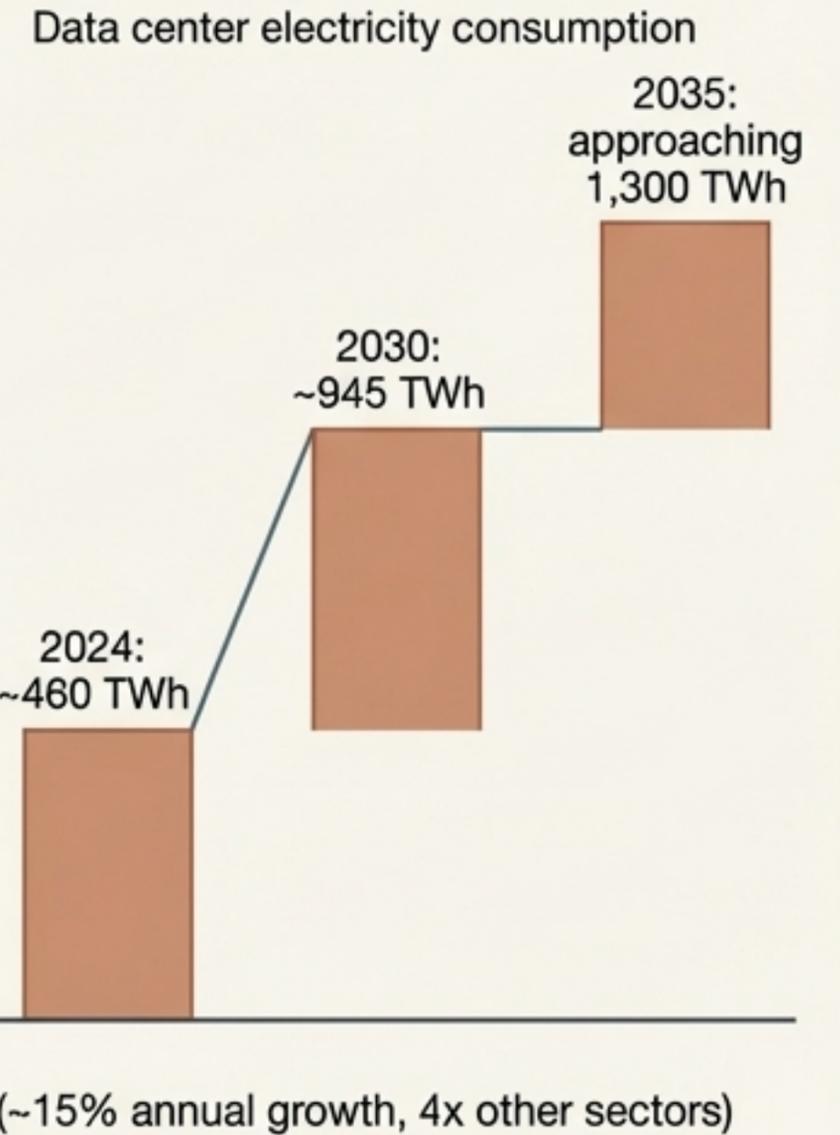
A single year of modern AI capital formation dwarfs the total historical lifetime costs of humanity's largest foundational projects.

# Energy and Physics as the Binding Constraints

The Energy Choke Point Diagram



Macro Context: IEA Baseline Projection



# The Experience Compression Gradient

## Modular Control Panel

**Software Engineering (BIS RCT):**  
+55% average code output.  
Concentrated in junior staff  
(+67% output), collapsing the  
experience gap.

**Innovation & Synthesis  
(P&G RCT - 776 pros):**  
Individuals with AI matched the  
functional performance of entire  
non-AI teams (+0.37 SD jump).

**Curve 1**  
**Before AI:** High variance,  
wide experience gap.

**Curve 2**  
**After AI:** Junior tail eliminated,  
entire baseline pulled right.

Junior / Low Experience

Senior / High Experience

AI does not instantly zero out human work; it compresses the marginal value of middle-layer synthesis and junior-level output.

# Empirical Reality: Task Reconfiguration Over Immediate Collapse

## Labor Reconfiguration Map

### The Cross-Industry Baseline

66 firms, 7,137 knowledge workers.

Active users saved ~2 hours/week on email and reduced after-hours work.

No immediate role evaporation.

### The Diffusion Rate

OECD reports ~80% of AI users see improved performance.

27% of OECD employment is in “highly automatable” occupations.

### The Adoption Friction

Organizations bank time savings before redesigning jobs.

Workers move faster than governance, creating “shadow tooling”.

*There is little evidence of a net negative impact of AI on the number of jobs so far... but massive frictional unemployment risk looms due to the speed of organizational adoption vs. tool capability.*

# The Economic Divergence: Substitution vs. Augmentation

Dimension	Regime 1: Substitution	Regime 2: Augmentation
Mechanism	AI performs tasks instead of humans.	AI complements workers, shifting task composition.
Capital Dynamic	Labor becomes abundant relative to AI-capital.	Output expands, creating new adjacent tasks.
Wage Trajectory	Extreme downward pressure; potential 'wage collapse' scenarios.	Sustained growth tied to a thick tail of complementary human tasks.
Inequality Risk	Acute concentration of wealth in capital owners.	Manageable, provided complementary investments are broad.

Nearly 40% of global employment is exposed to AI (60% in advanced economies). Outcomes depend entirely on institutional deployment, not just algorithmic capability.

# The Epistemic Externality & Creative Reorganization

## The Trust Crisis



WEF Global Risk: Misinformation and disinformation rank as top near-term systemic risks.

Dynamic: Abundance of content creates a severe scarcity of trust.

## The Arts & Attention Economy

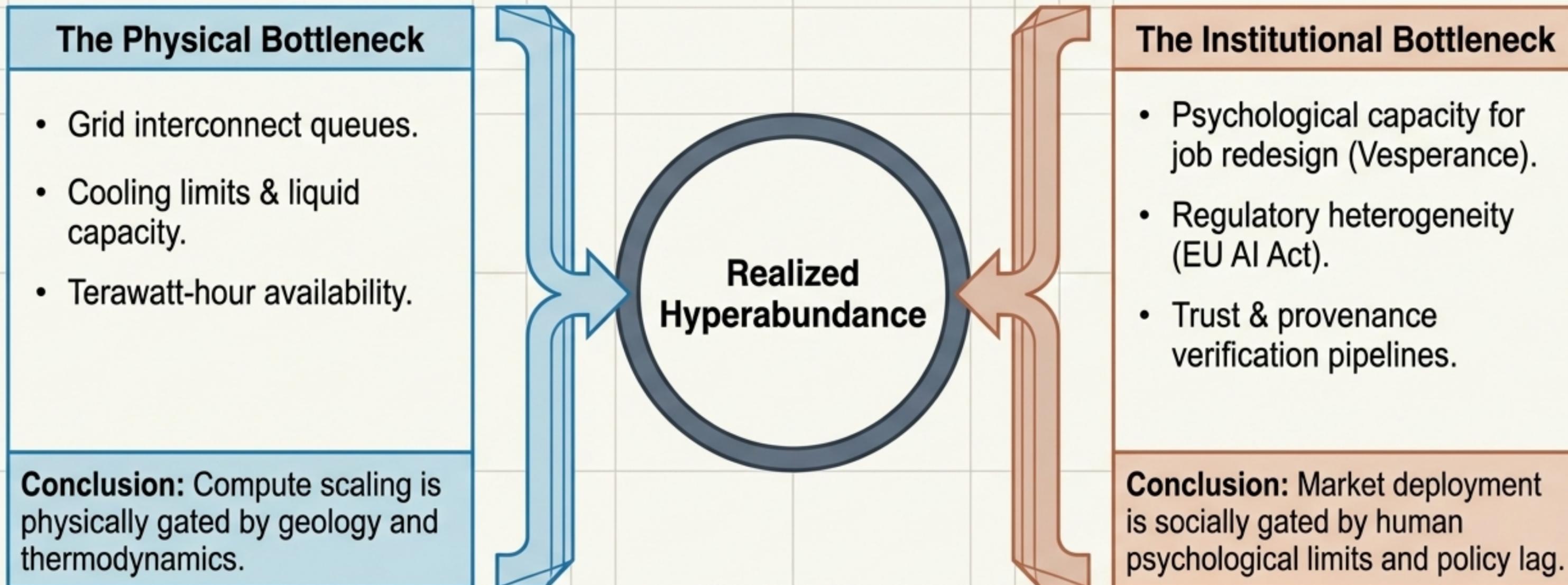


CISAC Forecast: Generative-AI creative market projected to grow from €3B to €64B by 2028.

Risk: 24% revenue risk in music, 21% in audiovisual without regulatory change

The Paradigm Shift: Value shifts from combinatorial possibility (producing artifacts) to provenance (embodied presence, trusted identity, moral accountability).

# The Dual Bottlenecks of the Post-Labor Transition



Institutions and grid physics—not algorithmic intelligence—are the actual pacing items of the future.

# Scenario Map: 2026–2035 Trajectories

Data Track 1 (Compute and Physics)	Synthesis	Data Track 2 (Human and Institutions)
<b>Optimistic</b> (Augmentation Dominates)	<b>Baseline</b> (Mixed Reality)	<b>Pessimistic</b> (Automation Outruns Institutions)
<p>Core Assumption: Wide diffusion, parallel process redesign, policy expands access.</p> <p>Georgia</p>	<p>Core Assumption: Time savings banked before redesign; labor repricing drives polarization.</p> <p>Georgia</p>	<p>Core Assumption: Aggressive substitution, extreme capital concentration, governance failure.</p> <p>Georgia</p>
<p>Energy: 945 TWh by 2030 (IEA base), scaling to 1,300 TWh by 2035.</p> <p>Georgia</p>	<p>Energy: U.S. data centers approach high-single-digit share of total electricity by 2030.</p> <p>Georgia</p>	<p>Energy: Grid bottlenecks force demand-response limits; fossil dispatch rises.</p> <p>Georgia</p>
<p>Labor/Social: Sustained task gains (~20-30% completion bumps); modest frictional unemployment followed by normalization.</p> <p>Georgia</p>	<p>Labor/Social: Inequality risk rises; wage compression in exposed middle-layer services.</p> <p>Georgia</p>	<p>Labor/Social: Wage collapse becomes mathematically plausible; misinformation amplifies governance instability.</p> <p>Georgia</p>

# The Transition Timeline: Infrastructure vs. Institutions

## Top Track: Physics / Compute

2026: Hyperscaler capex surge; power becomes strategic constraint.

2027: High-density racks & liquid cooling mainstream in new builds.

2030: Data center electricity doubles; grid interconnect becomes primary pacing item.

2032: Large-scale transmission comes online; compute pricing reflects energy locality.

2035: Data center electricity supply requirement approaches ~1.3 PWh/year.

## Bottom Track: Labor / Institutions

2026: Agentic workflows expand in pilots.

2027: Governance enforcement intensifies globally.

2028: Widespread job redesign; verification/trust tooling mandatory.

2035: Mature post-labor institutions (or crisis responses) become decisive.

# The Post-Labor Policy Blueprint

## The Post-Labor Economy

### Pillar 1: Measurement Before Ideology

Build operational indexes linking compute supply to labor outcomes (cost-per-decision, quality-per-watt).

Anchor energy baselines to IEA data.

### Pillar 2: Broad-Based Compute Ownership

Distribute the physical gains via AI-Capital Dividends.

Implement compute/inference levies to fund transition supports and municipal compute trusts.

### Pillar 3: Trust as Economic Infrastructure

Mandate verification tooling, watermarking, and vetted output pipelines.

Treat epistemic security as critical economic plumbing.

Foundation: Communications must be “vesperance-aware.” Acknowledge the grief of expiring paradigms while mapping concrete paths to abundance.

# Actionable Measurement: The Cognitive Hyperabundance Index

## Quadrant 1: Compute Supply Proxies

Capex flows, average rack density evolution, and utility demand-response procurement volumes.

## Quadrant 2: Effective Cost Metrics

Cost per 1,000 high-quality tokens / standard task units.  
Latency-to-first-draft velocity.

## Quadrant 3: Adoption Diffusion Rate

Workflow integration saturation rates, shadow AI telemetry, and 'bring your own AI' enterprise penetration.

## Quadrant 4: Labor Repricing Signals

Within-firm task reallocation speed, wage ladder compression data, and junior-to-senior output variance ratios.

Thorsten Meyer AI

