

The logo for CLUSTIV features the word "CLUSTIV" in a bold, white, sans-serif font. It is set against a dark blue background that has a curved, rounded edge on the right side. To the left of the text, there are two vertical, light purple, rounded rectangular shapes that appear to be part of a larger graphic element.

**CLUSTIV**

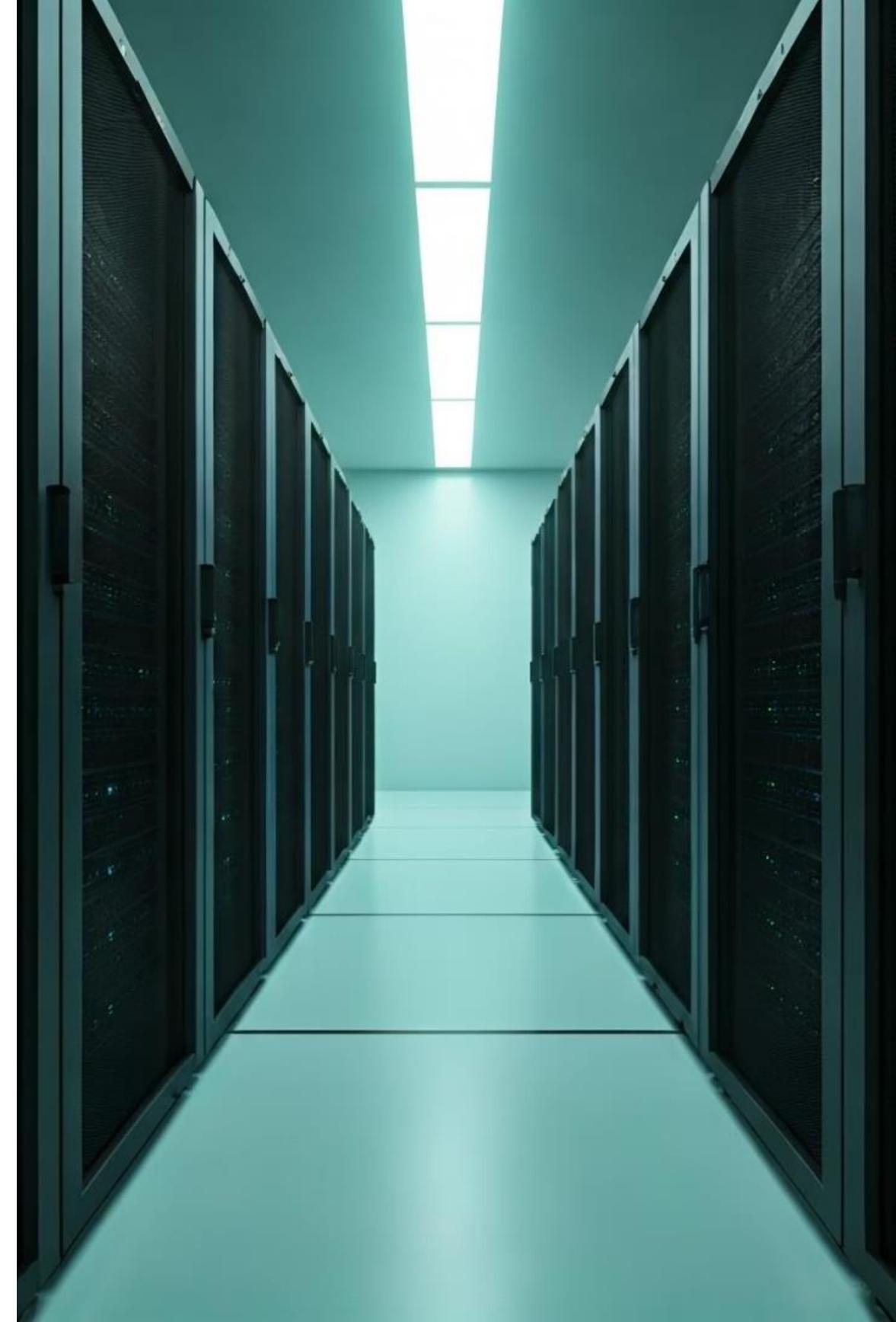
# \$7 Trillion Data Centers Economy

CLUSTIV TEAM & PARTNERS

# A \$7 Trillion Data Centers Economy

AI is fueling a high demand for computing power. Companies are investing billions in infrastructure, but future demand remains uncertain.

By 2030, data centers will require \$6.7 trillion worldwide to keep pace with computing power demand.





# The Scale of AI Investment

**\$5.2T**

AI Data Centers

Capital expenditures needed by 2030

**\$1.5T**

Traditional IT

Capital expenditures for non-AI workloads

**156GW**

Capacity

AI-related data center capacity by 2030



# What's Driving Demand?



## Mass Adoption of Gen AI

Foundation models require significant compute power to train and operate.



## Enterprise Integration

AI applications across industries demand massive cloud computing power.



## Competitive Infrastructure Race

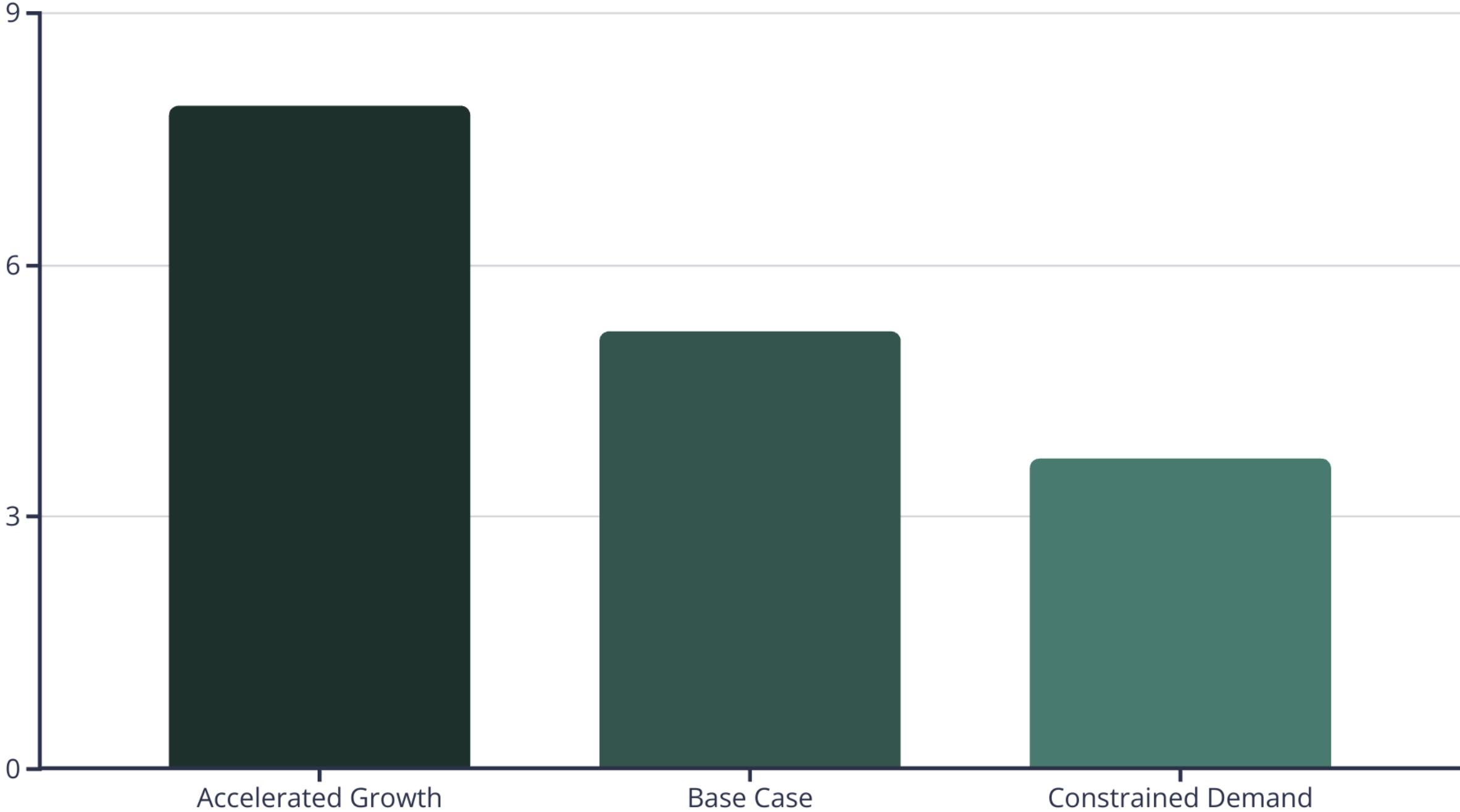
Companies race to build proprietary AI capacity for competitive advantage.



## Geopolitical Priorities

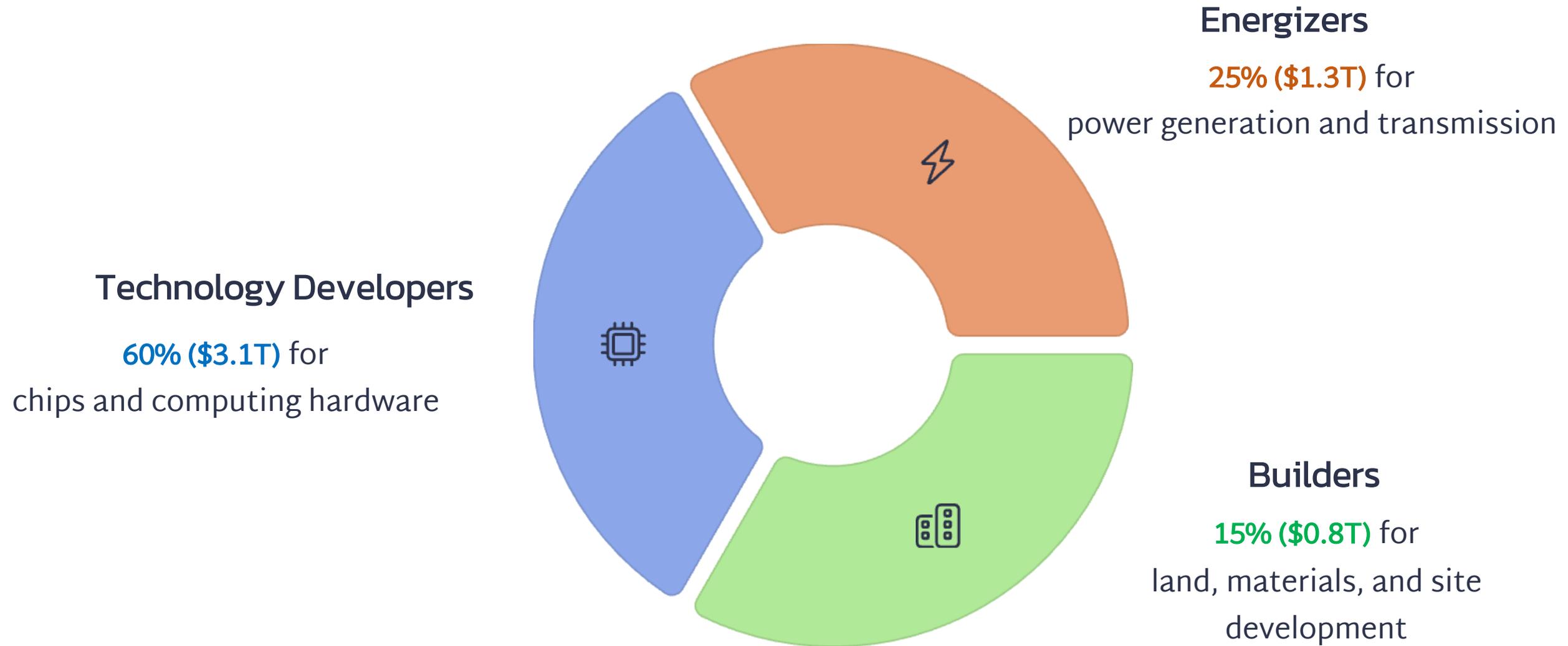
Governments invest in AI infrastructure for security and economic leadership.

# Three Investment Scenarios



The scale of investment varies widely based on demand scenarios. Even in the most conservative case, trillions of dollars are needed.

# Where Is The Investment Going?



# Five Types of Data Center Investors



## Builders

Real estate developers and construction companies

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## Energizers

Utilities and cooling/electrical equipment manufacturers

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## Technology Developers

Semiconductor firms and IT suppliers

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## Operators

Hyperscalers and colocation providers

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## AI Architects

AI model developers and foundation model providers



# Challenges Across the Value Chain

## Builders

- Labor shortages
- Location constraints
- Increased rack power density

## Energizers

- Grid weaknesses
- Heat management
- Clean-energy transition

## Technology Developers

- Market supply control
- Insufficient capacity
- Unpredictable demand

# Critical Uncertainties



## Technological Disruptions

Breakthroughs in model architectures could reduce hardware and energy demand.



## Supply Chain Constraints

Labor shortages and bottlenecks could delay grid connections and chip availability.



## Geopolitical Tensions

Tariffs and export controls introduce uncertainty in compute power demand.



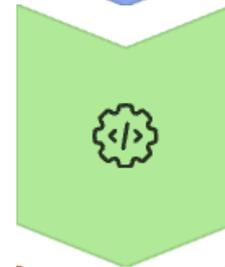


# Winning the AI Computing Race



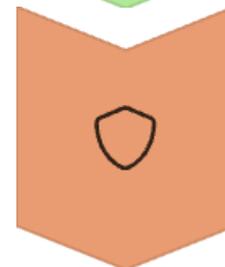
## Understand Demand

Assess AI computing needs early and anticipate potential shifts.



## Innovate on Efficiency

Prioritize cost- and energy-efficient computing technologies.



## Build Resilience

Secure critical inputs and optimize site selection.

The winners will be companies that anticipate compute power demand and invest accordingly, balancing growth with capital efficiency.



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**THANK YOU**