# **Distributed GenAl Training: Opportunities for New Builds, Edge Sites, and Semiconductors**



US Data Center power consumption is set to double by 2030<sup>1</sup>, fueled by Generative AI training demands. As GenAI applications become more sophisticated, vendors will distribute training across hyperscale centers, edge locations, and endpoints to improve customizability and user experience. This shift will not only will drive data center developer revenue but create new market opportunities for network operators, tower companies, and semiconductor manufacturers.



## **Hyperscale GenAl Training**

Large (100+ MW) data centers will serve as centralized locations for training large and complex models, providing space and security efficiencies

## **Ecosystem Opportunity**

Successful chip, server, and data center developers will need to accommodate for energy demands through next-gen chip, cooling, and building design

Chip Players



**DVIDIA** 















## **Edge Data Center GenAl Training**

Vendors offering custom enterprise-scale GenAI solutions will need to leverage "edge data centers" to train models with reduced latency

## **Ecosystem Opportunity**

Network and tower operators are poised for success due to their established space and connectivity infrastructure

Tower & Infra Players







**Network Operators** 



T Mobile

#### **User Endpoint GenAl Training**

Personalized model customization will be offloaded to user devices, demanding substantial processing power on personal devices

#### **Ecosystem Opportunity**

Chip manufacturers can excel by facilitating edge AI training through custom AI ASICs, SoCs, or integrated GPUs

Chip Players









For over 40 years, Kaiser Associates has employed robust methodologies to craft innovative go-to-market strategies. Our TMT practice is experienced in empowering clients to navigate and seize strategic opportunities in the rapidly expanding field of GenAl.

Connect with Kaiser's Technology Practice experts to learn more about how Kaiser can support your business:





