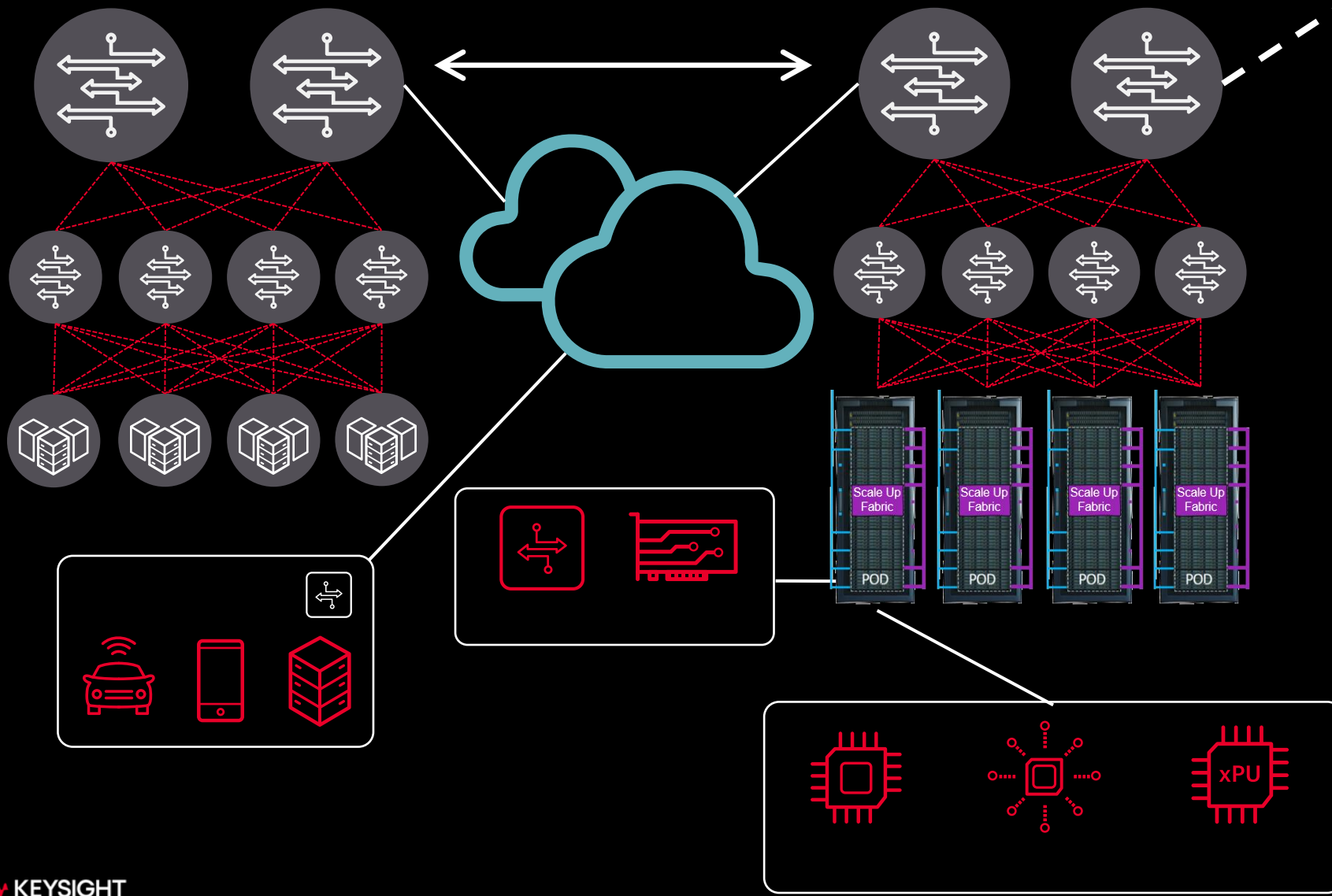




**Keysight sits at the crossroads of network equipment manufacturing, high-speed digital design, and network security and performance optimization. That gives us a unique perspective on what the future might look like for AI data centers.**



**Scale Out**  
InfiniBand,  
Ultra Ethernet

**Scale Up**  
ESUN, Nvlink,  
UALink,...

**Scale In**  
NoC - D2D, AXI /  
CHI, UCle / BoW

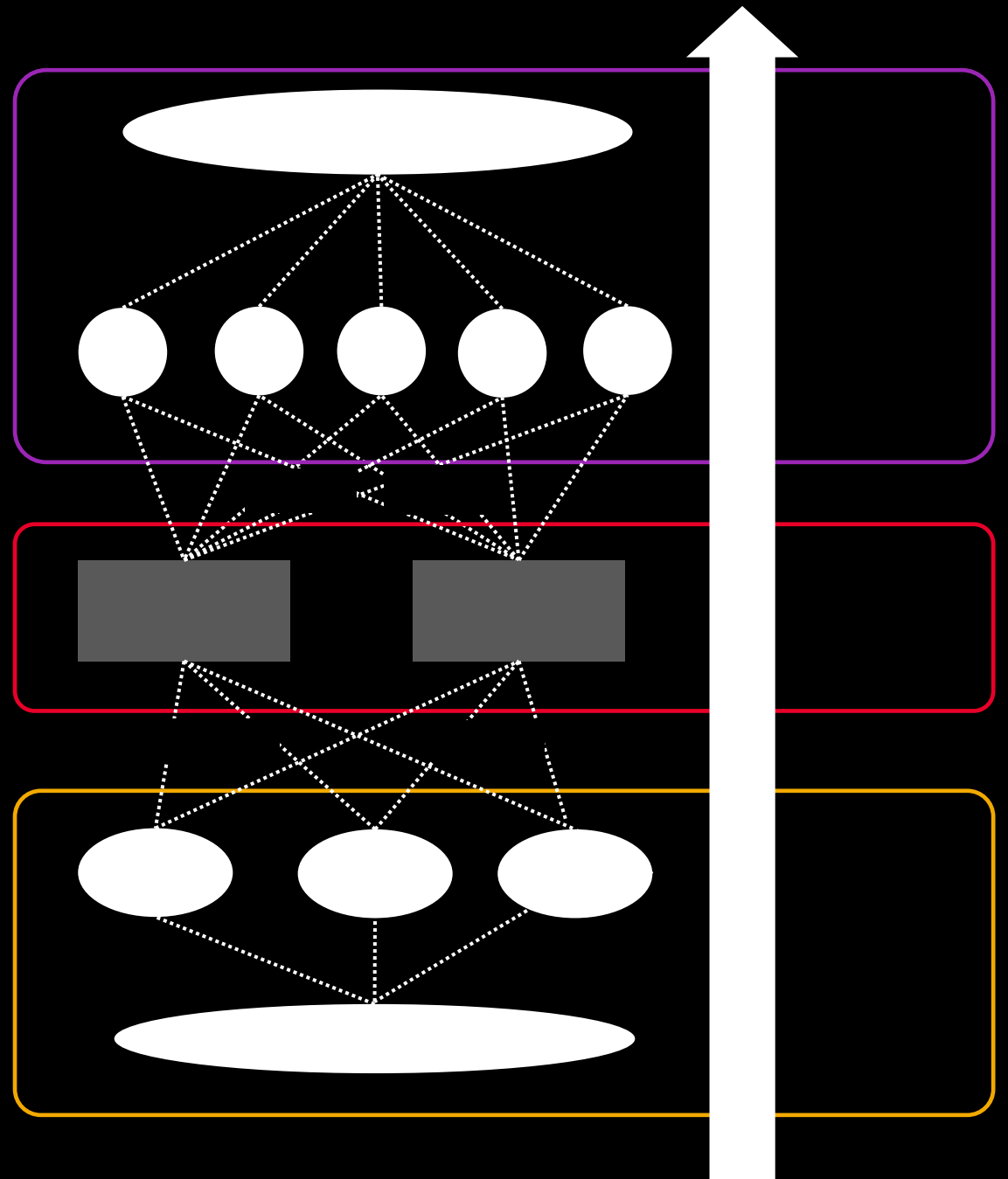
500m - 0.31 mi

50m - 164 ft

3 m - 10 ft

30 cm -.12 in

1 mm -.04 in



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CoreWeave

  
aws

  
nVIDIA®



Microsoft

Lenovo



Google Cloud

Meta

ORACLE®  
Cloud

GIGABYTE™

ASUS

ingrasy

SUPERMICRO

PEGATRON

AIVRES

DELL



Inventec

Hewlett Packard  
Enterprise

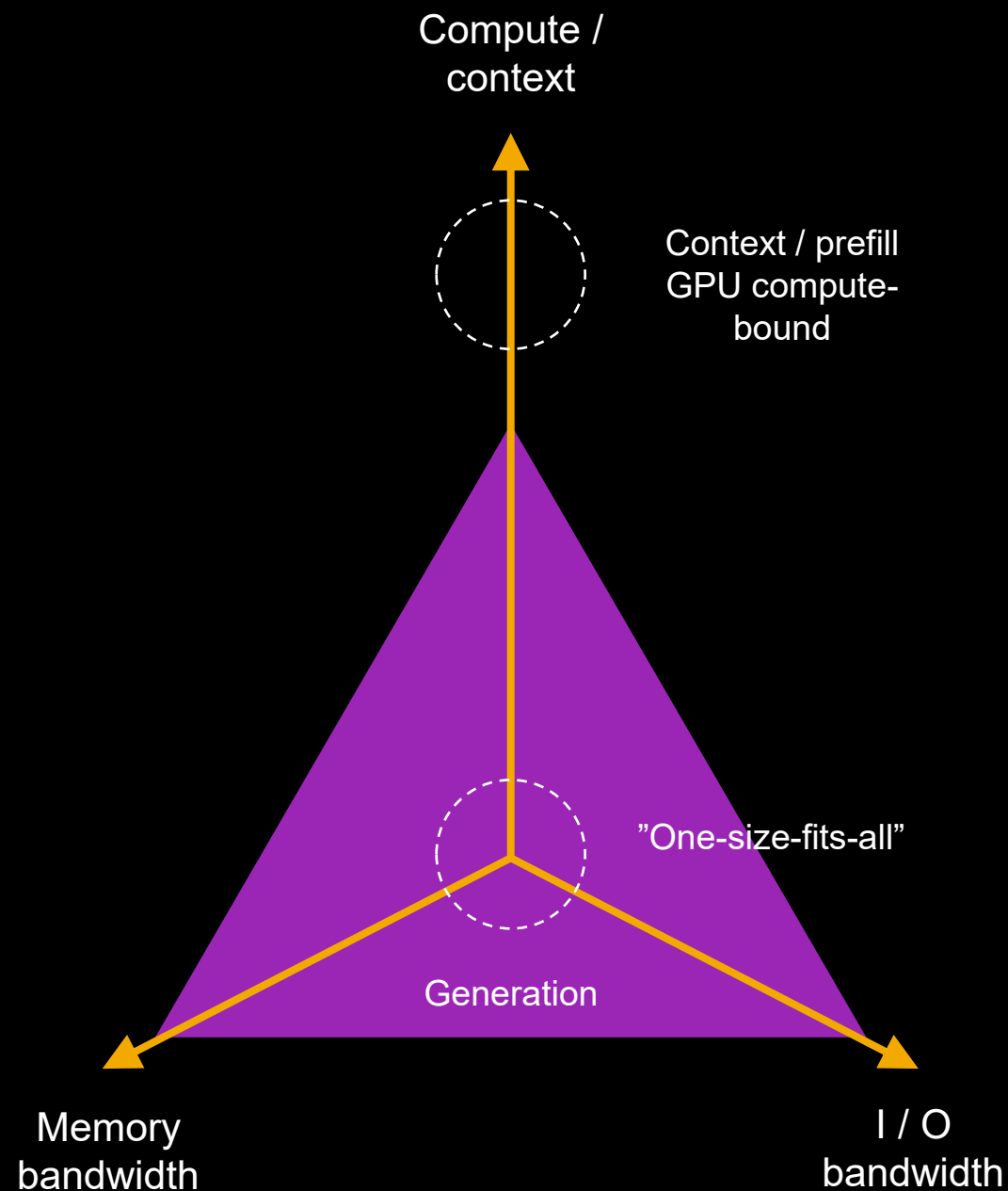
QCT™



# Domain-Specific GPUs Are the Future

GPUs optimized for prefill and decode emerging

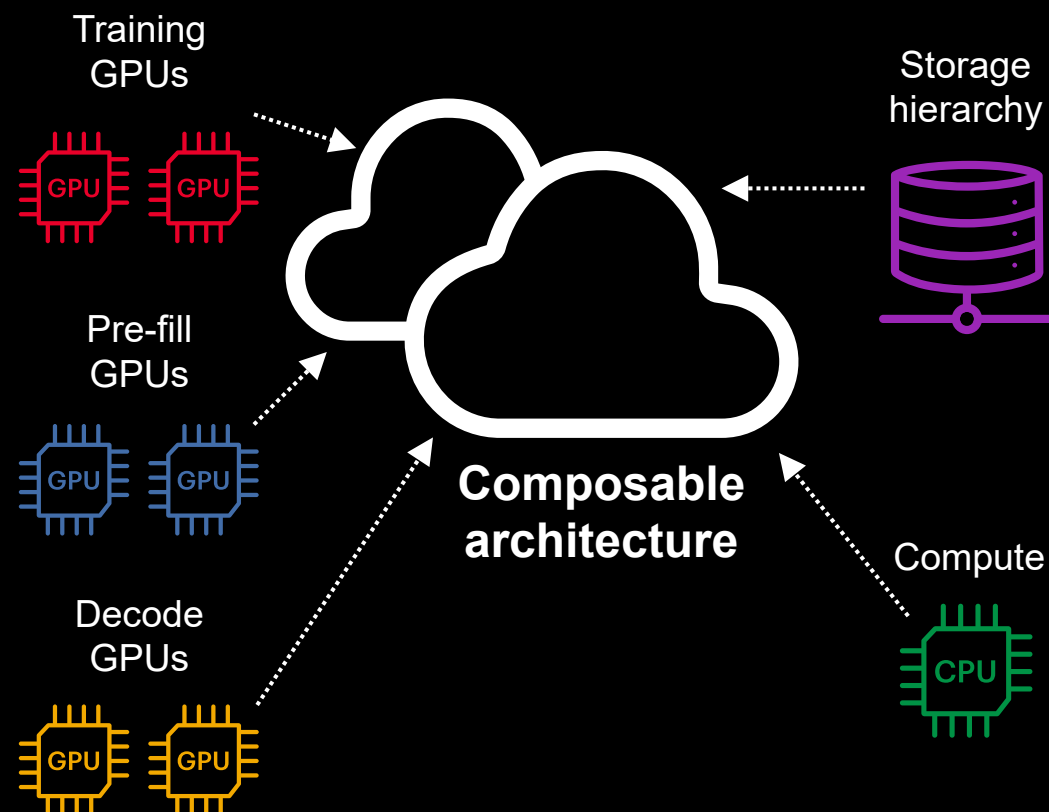
- Training and inference were once the sole differentiator; now it's the **tip of the iceberg**
- GPUs optimized uniquely for each **industry vertical**
- As specialized infrastructure grows, how do we aggregate it all into a **cohesive system**?



# Composability Offers Flexibility for Applications

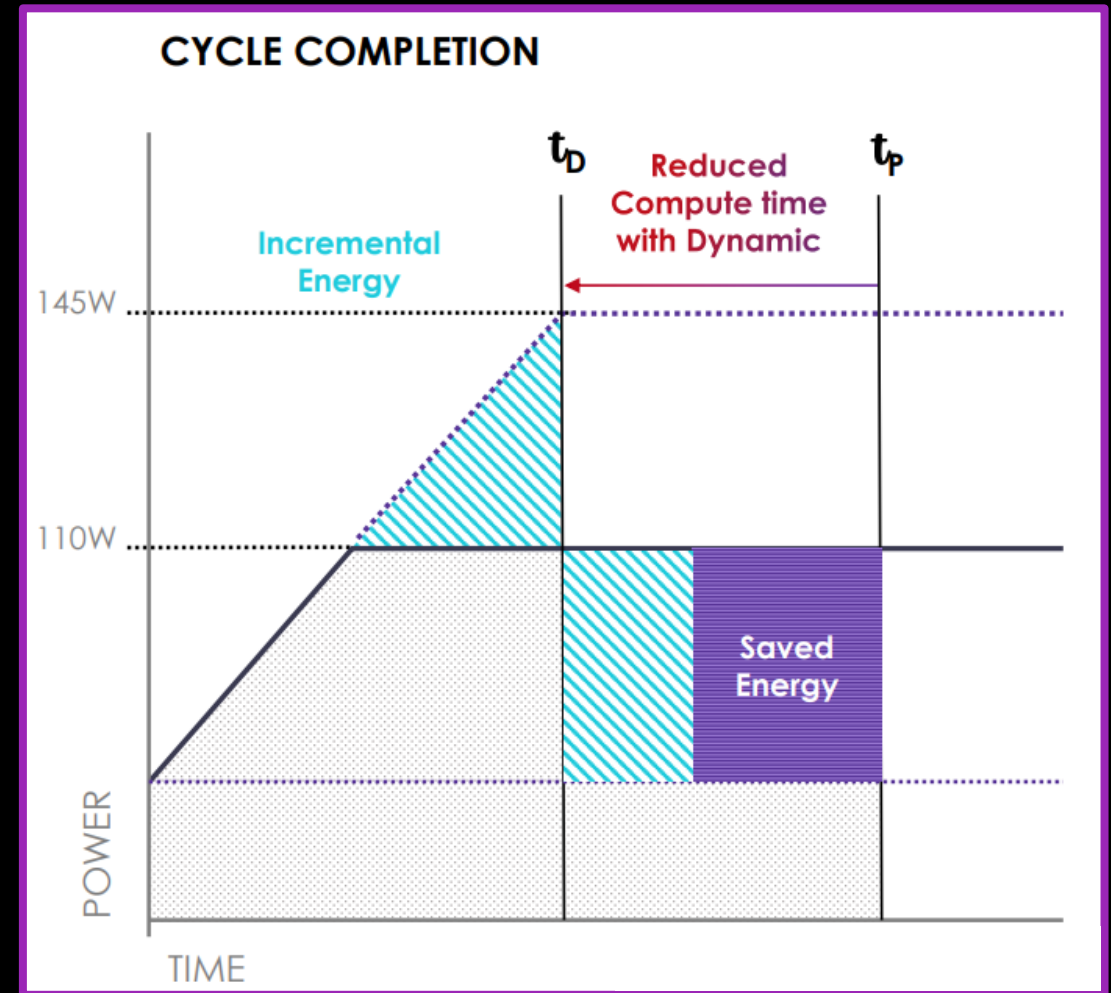
Dynamic aggregation ensures AI data centers evolve with requirements

- As AI moves deeper into the enterprise, it's **hard to predict** what **workloads** will look like
- Apps drive requirements, but they're **constantly changing**
- **Composable infrastructure** is a dynamic alternative, creating new systems as needed





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# Thank you