

“

imagine

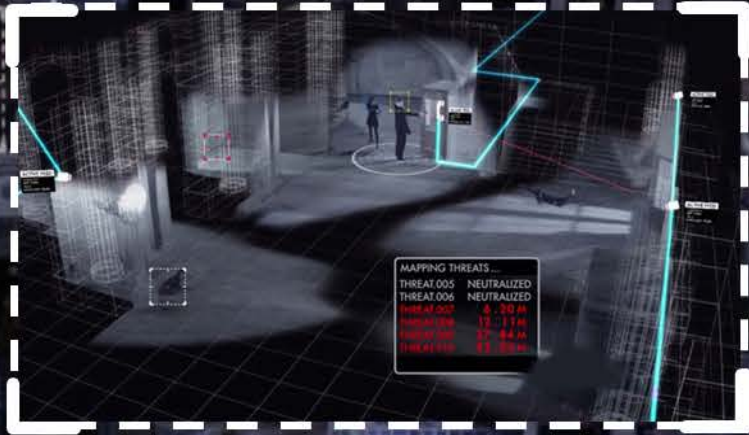
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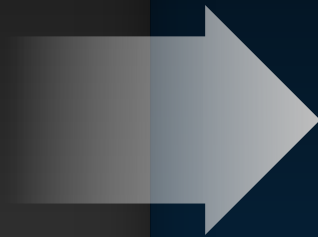
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Riccardo Badalone

Chief Executive Officer  
Co-Founder



Reaching the Next Level Requires a Disruption



**The Opportunity: One Per Household**

**Clearly Something Changed**



**Flash: The Full Impact Hasn't been Felt Yet**

**DRAM**

**FUTURE  
MEMORY**

**CONVERGED MEMORY**

**Density**  
**Byte Addressable In Nanoseconds**  
**Persistent**  
**Cost Effective**  
**Scalable**

# DRAM

MEMORY

✓ Performance

✗ Persistence

✗ Capacity

✓ Endurance

✗ Cost



# FLASH

MEMORY

✗ Performance

✓ Persistence

✓ Capacity

✗ Endurance

✓ Cost

# CONVERGED

MEMORY

Performance



Persistence



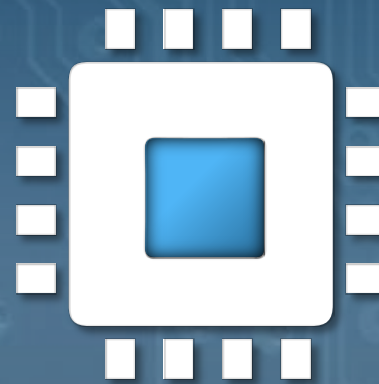
Capacity



Endurance



Cost





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Memory Channel Storage™

Memory Expansion

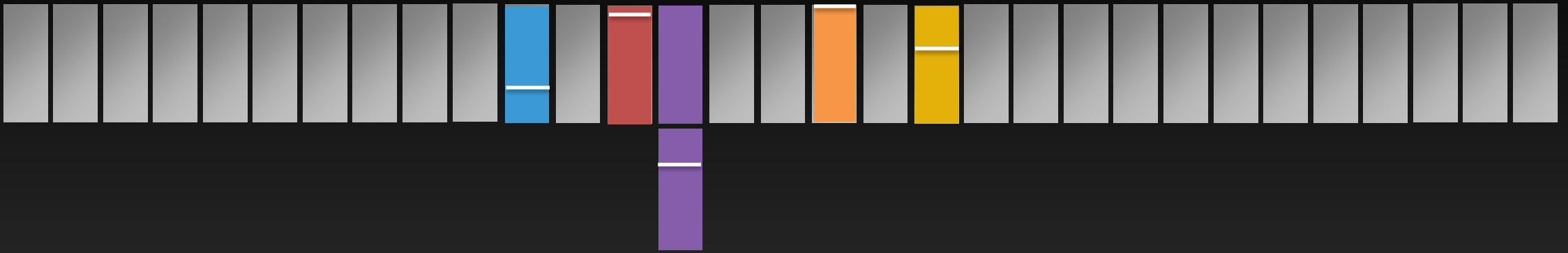


Cacheline Persistence  
(with NanoCommit™)

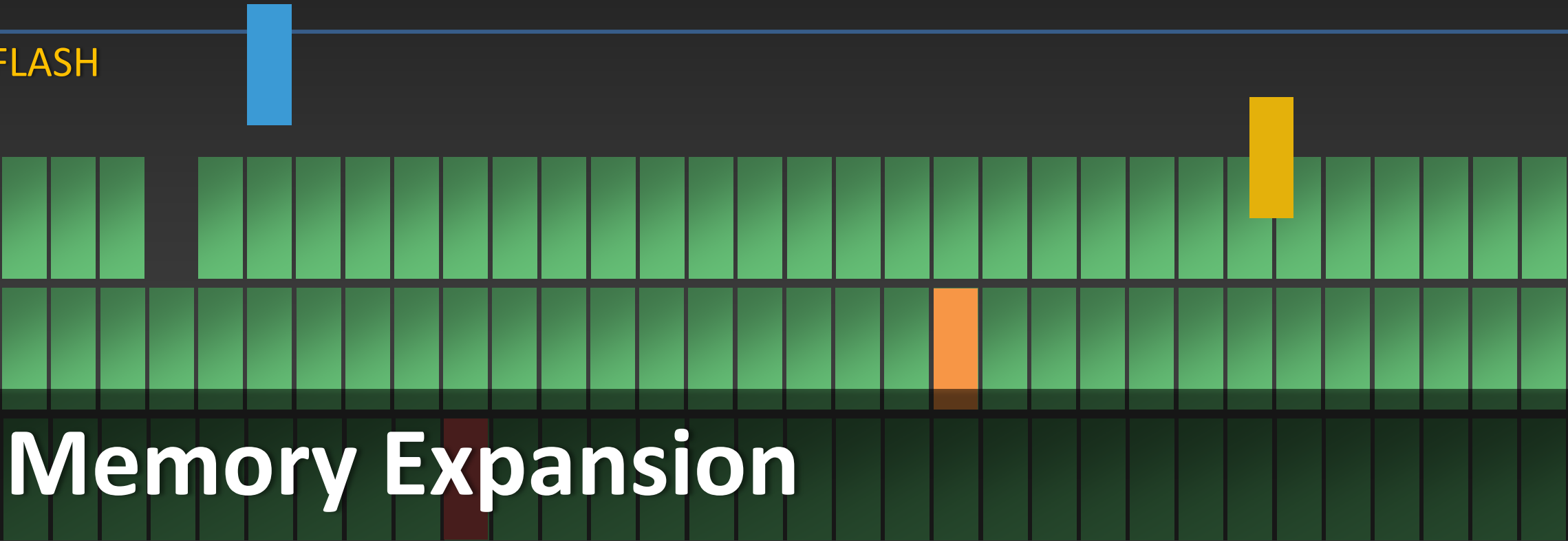
Key Ingredients Of  
**Converged Memory**



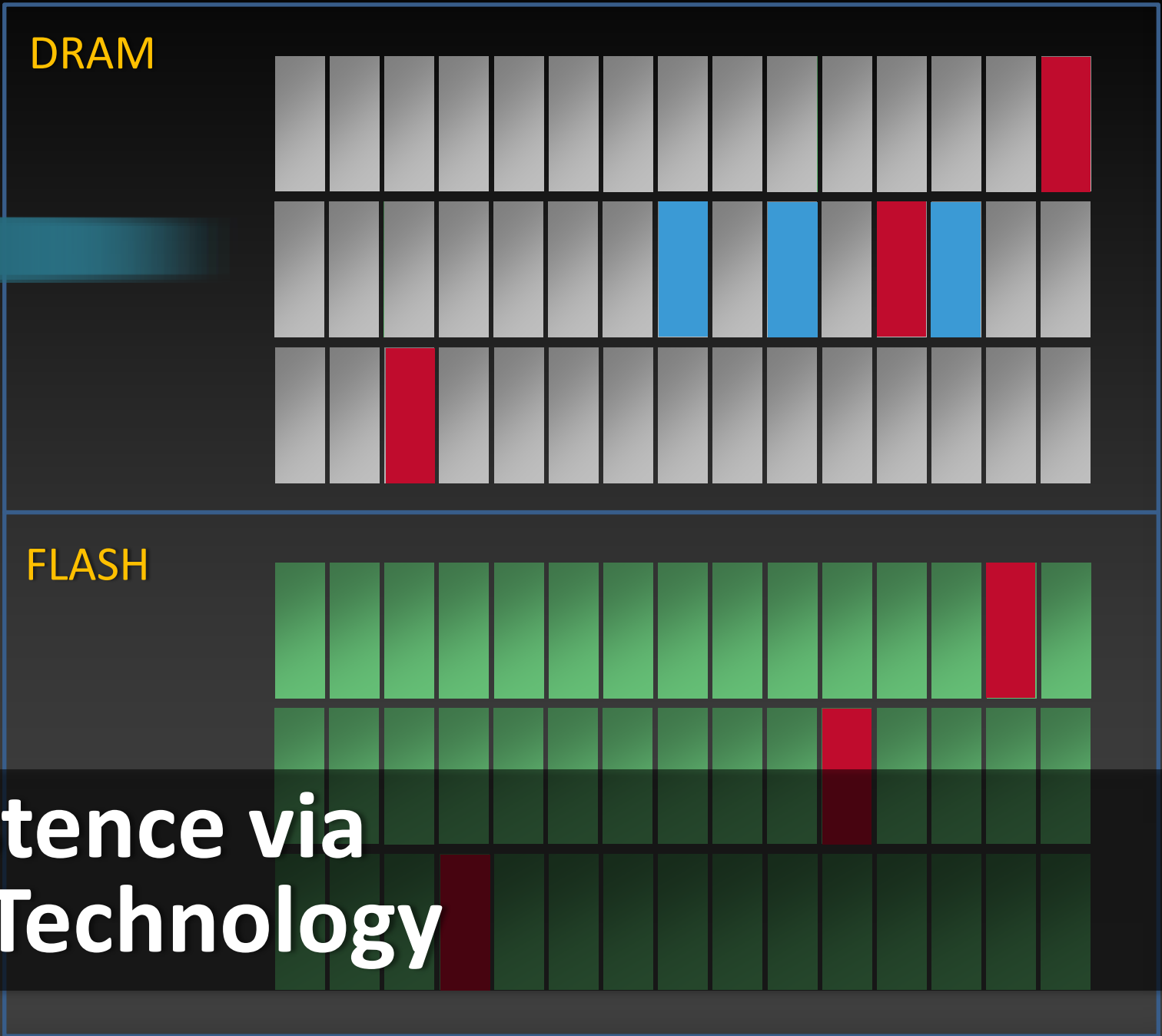
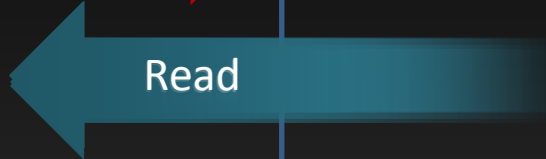
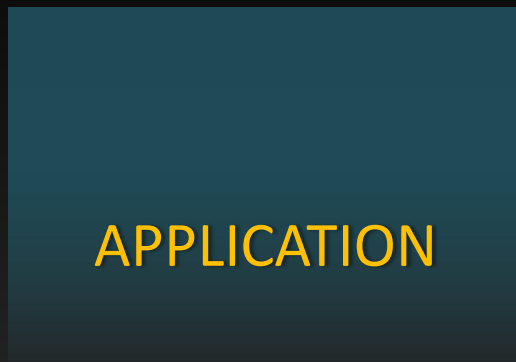
DRAM



FLASH



Memory Expansion



700M Random Cachelines/Sec

48ns Per Cacheline

Holy @\$#&!

# Cacheline Persistence via NanoCommit™ Technology

# Today's In-Memory Database Platform

Storage



12TB Memory



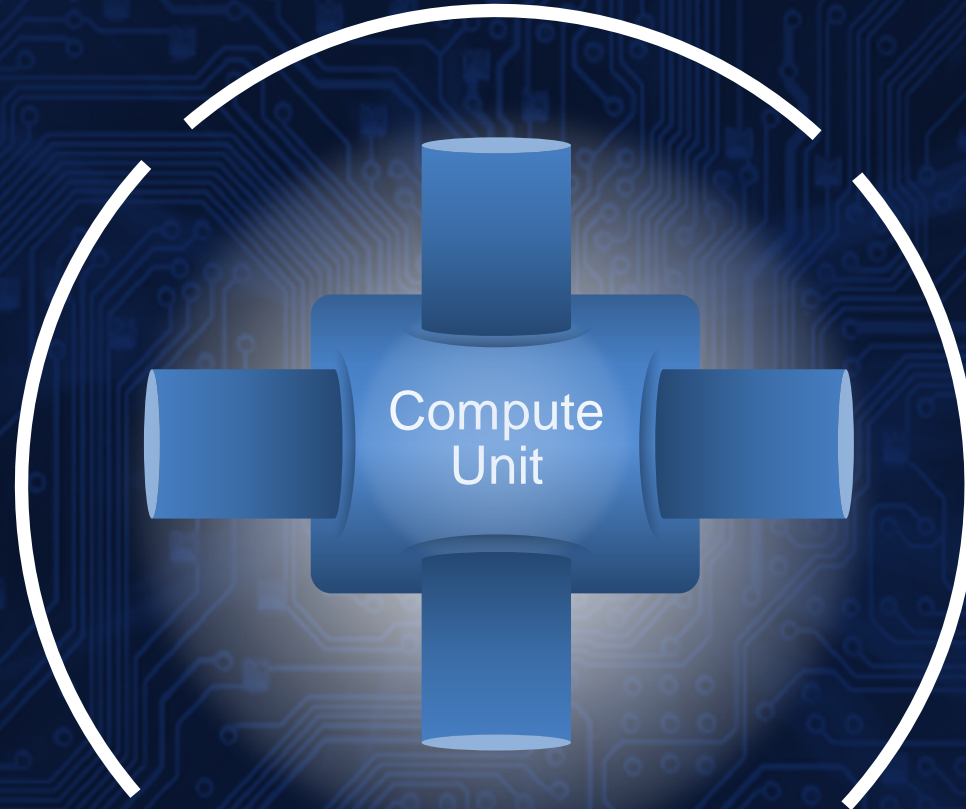
**25TB Converged Memory**  
**60 Compute Threads**



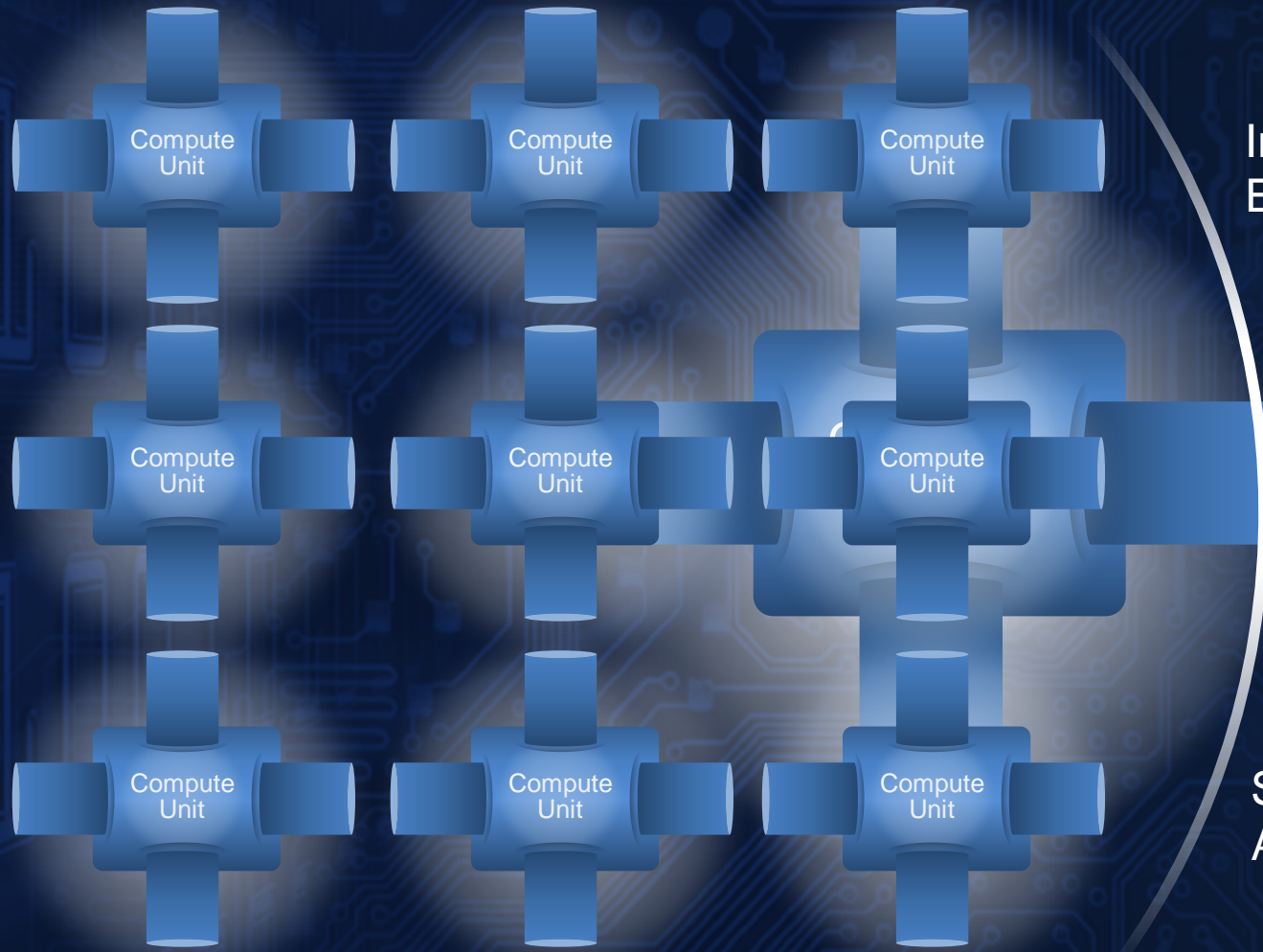
**A Platform for Change**

Converged Memory

Efficient And  
Powerful Compute



Intelligent  
Interconnect

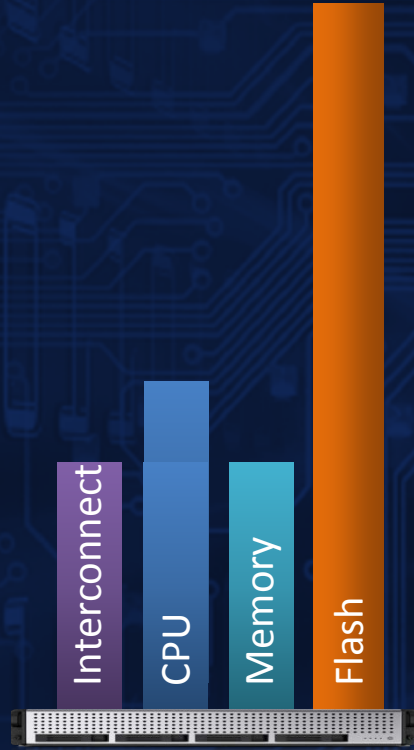


Ingest Unstructured Data From  
Everywhere At Phenomenal Rates

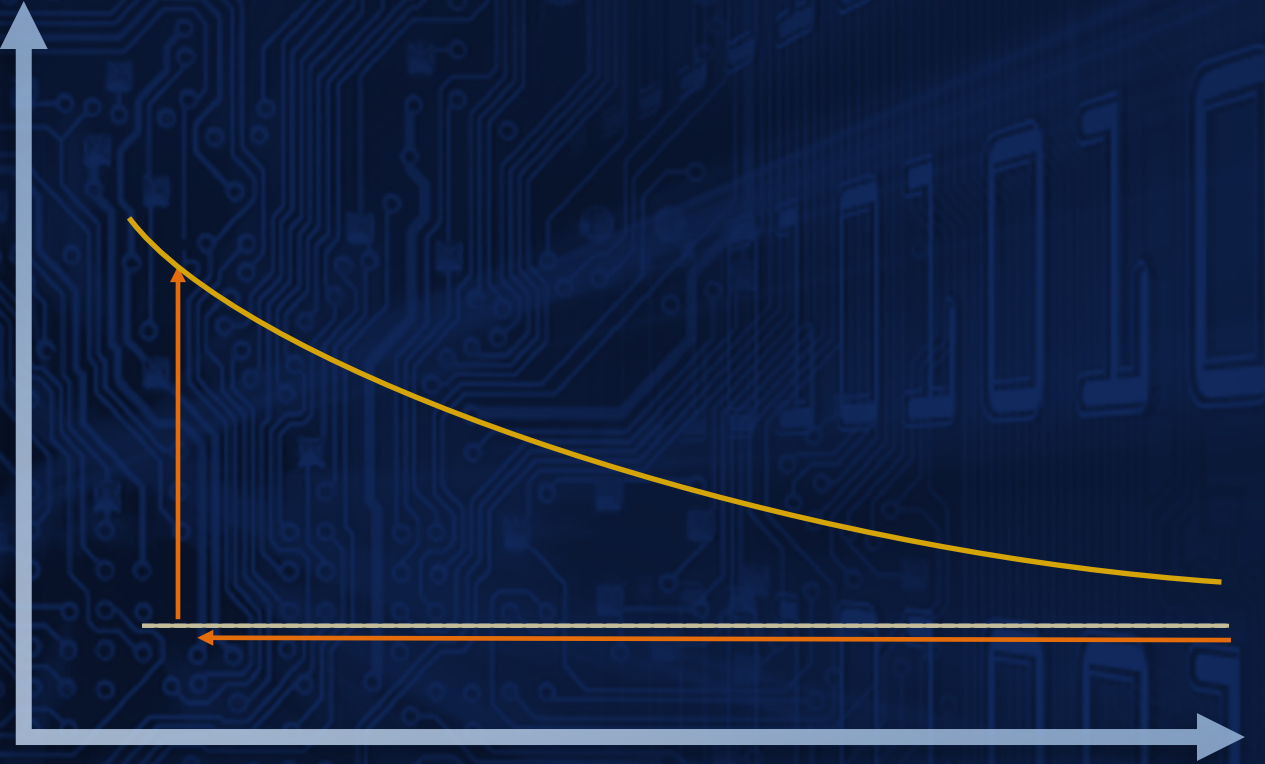
Create/Destroy/Manipulate Objects

Perform Real-Time Analysis And  
Computation

Scale To Meet the Demands of  
Any Data Set Or Problem Space



Relative Efficiency Per Compute Unit



Compute Units In The Cluster

# The Economics are Transformed

In-Memory Computing

*ScaleMP*

Virtualization

vmware®



Software-Defined Networking



# Partnerships Driving Change





**The Coolest Stuff is Yet to Come**



# today



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