VAST

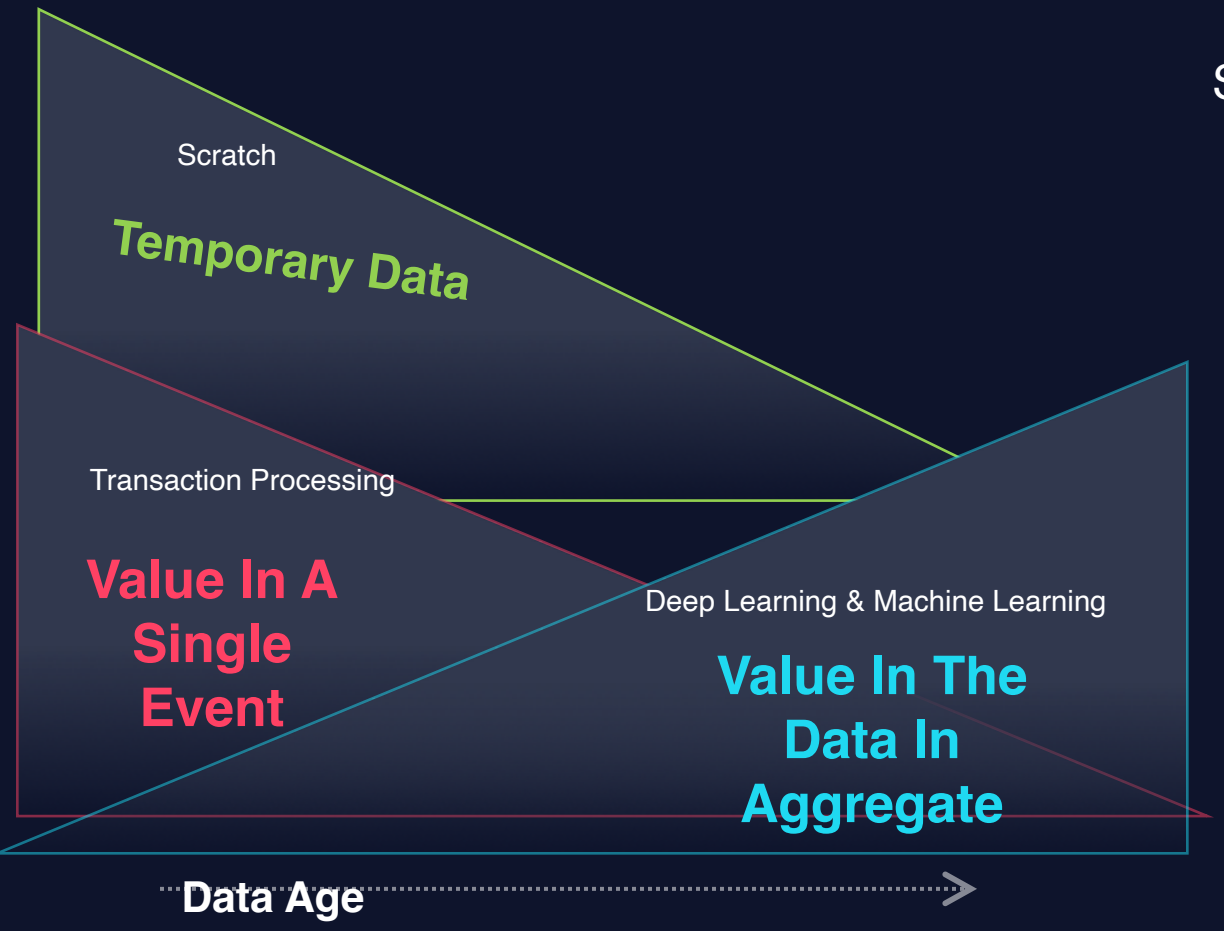
VAST Data

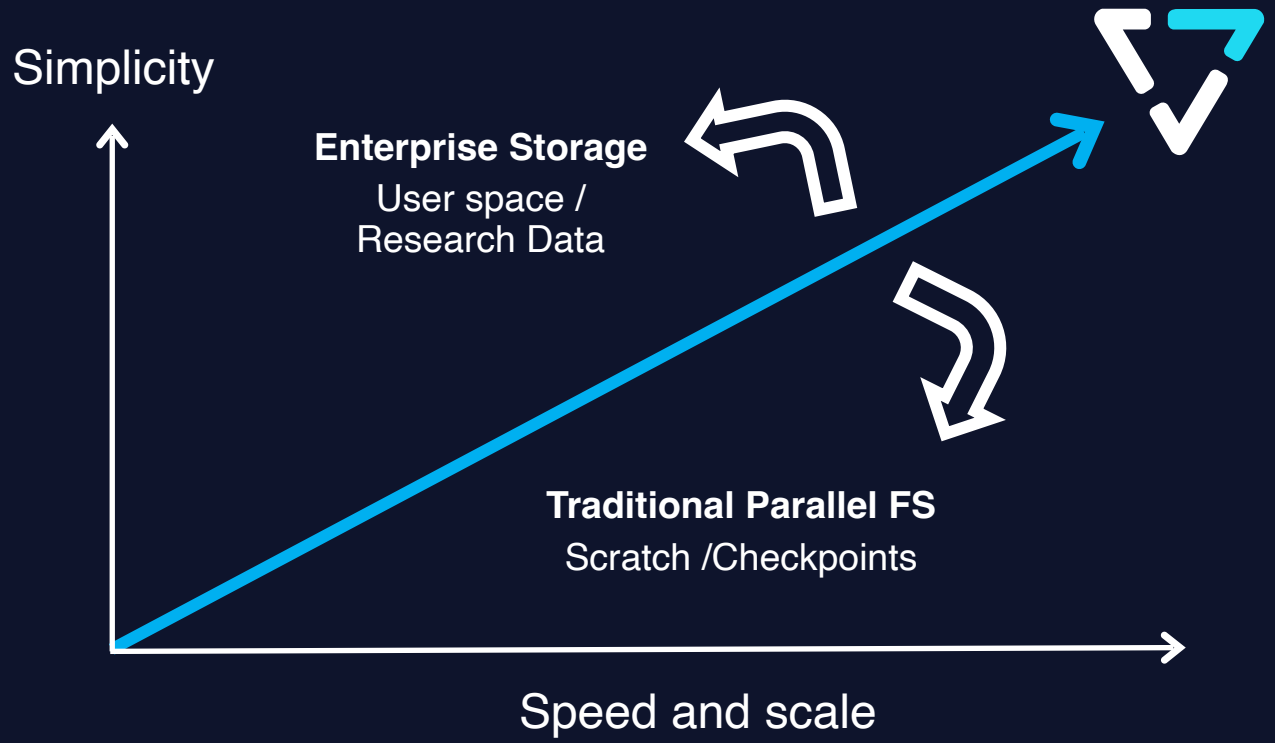
Aligning data infrastructure to meet new demands for AI research and investment.

Vas Kapsalis
Doug Hadfield

Unlock Real World Data For AI Computing

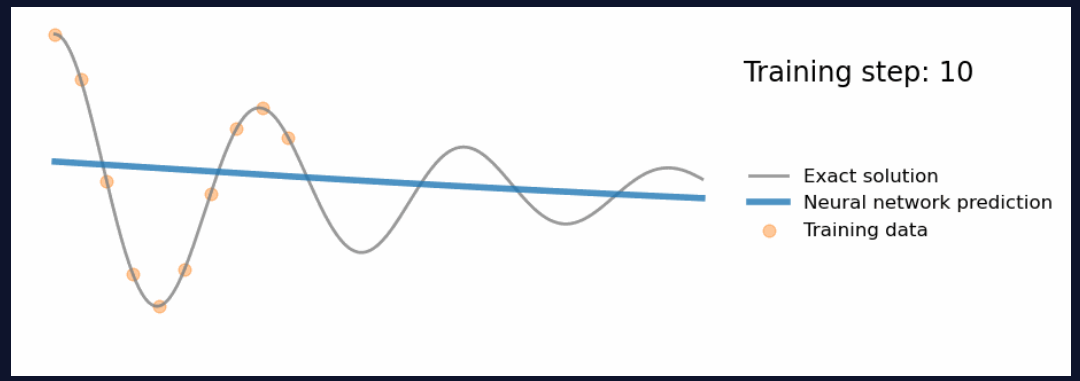
VAST is pioneering new outcomes by breaking infrastructure tradeoffs at every level

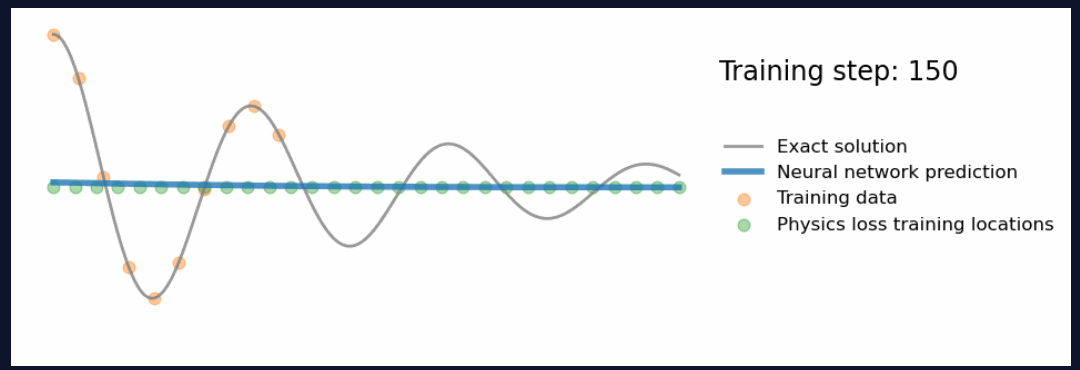




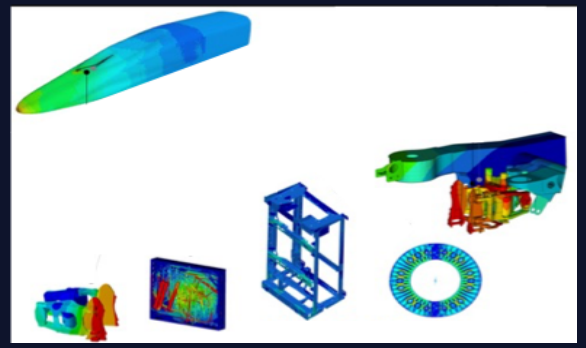
Physics Informed Neural Networks

Reducing compute consumption for well behaved models using surrogate lookups or providing a way to predict real world outcomes (though retain caution)





Model Data

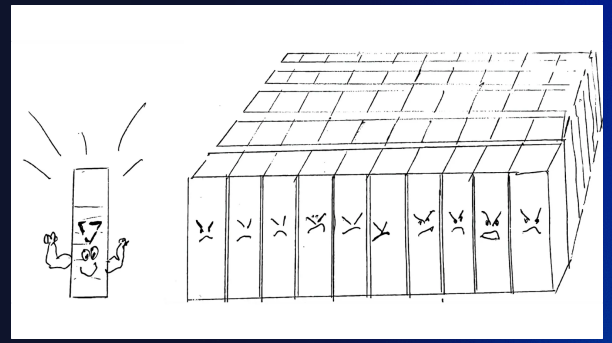


Sensor Data

TACC

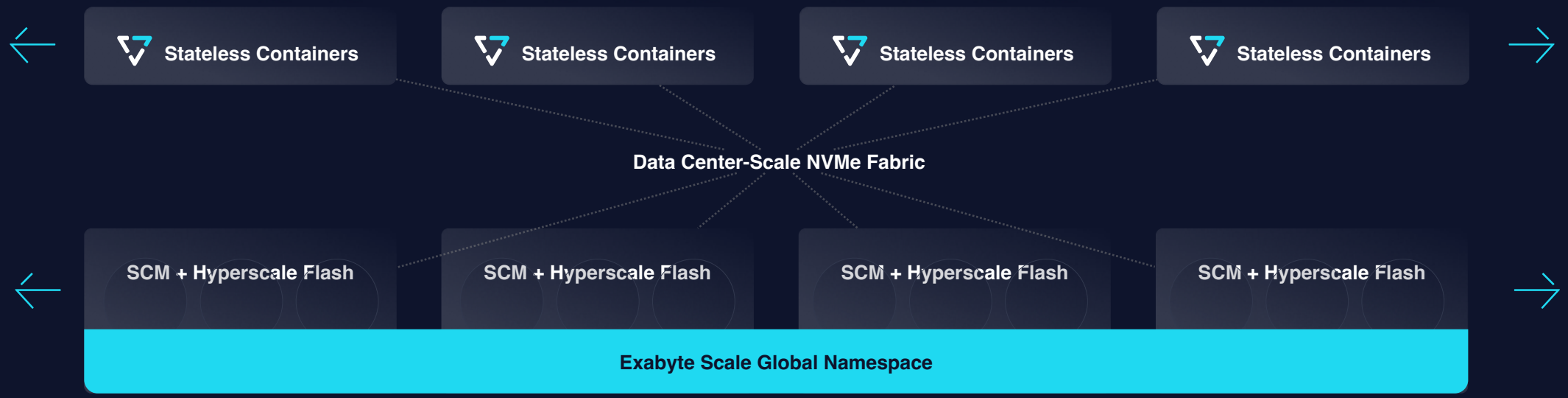
TACC as selected VAST as the data platform for Stampede3.

- A particular nuclear code had only scaled to 350 nodes using a parallel filesystem before the metadata system failed.
- VAST scaled to 4,000 nodes before the customer stopped testing
- 20U of VAST was able to support 50 racks of servers.
- No downtime during an upgrade



Introducing A New Hyperscale Architecture

Disaggregated, Shared-Everything (DASE)



"The Architecture Of The Future" - IDC

Disaggregated

Stateless Nodes Are Composable, Data Always Redundant

Shared-everything

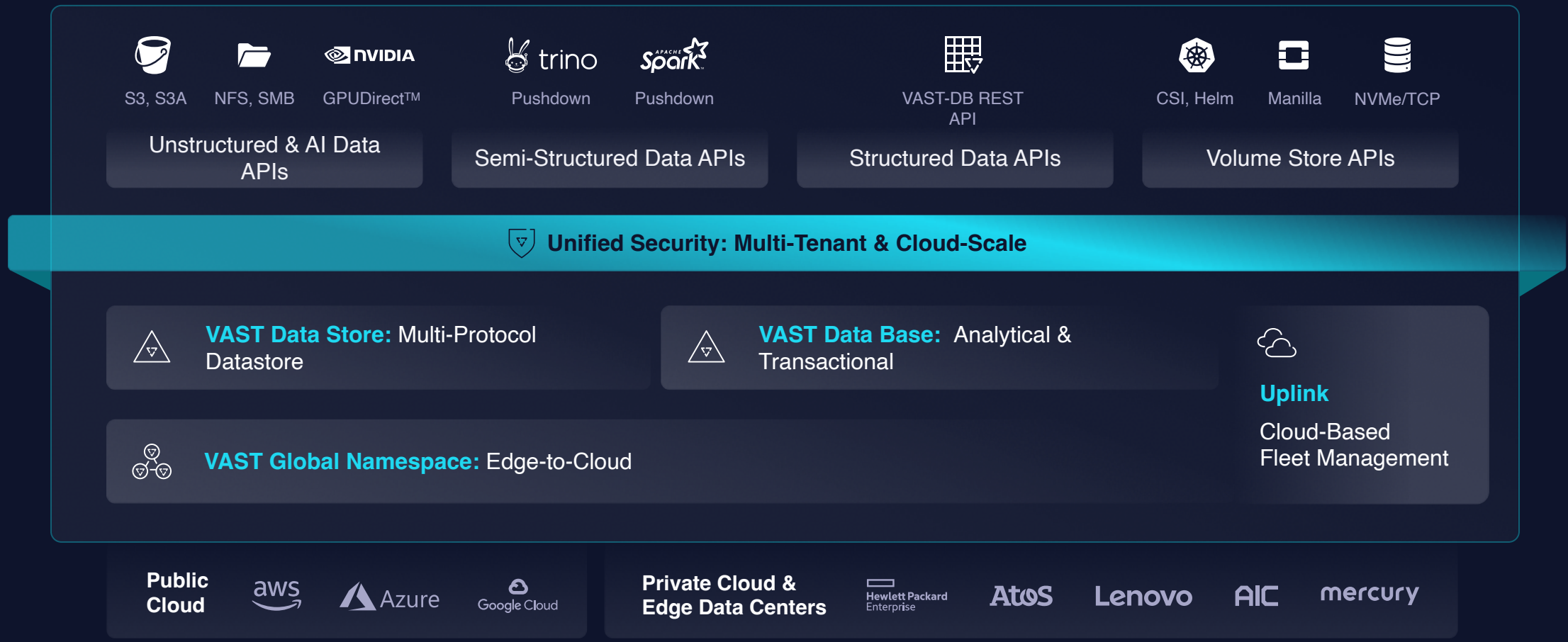
No Need For Cache Coherence, Massively Scalable Data Services

Radically Efficient

New Global Efficiency Codes To Revolutionize NVMe Economics

The VAST Data Platform

All of Your Data, from Edge-to-Cloud. Enriched, Fused & AI-Ready



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Thank You

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https://vastdata.com/whitepaper