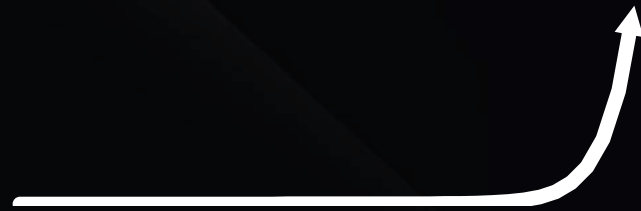


# TAMING THE PETABYTE MONSTER

RENEN HALLAK, CEO AND CO-FOUNDER



# THE PETABYTE MONSTER IS GROWING



**40 Years of Compounding Growth**



**New Approaches to Research**



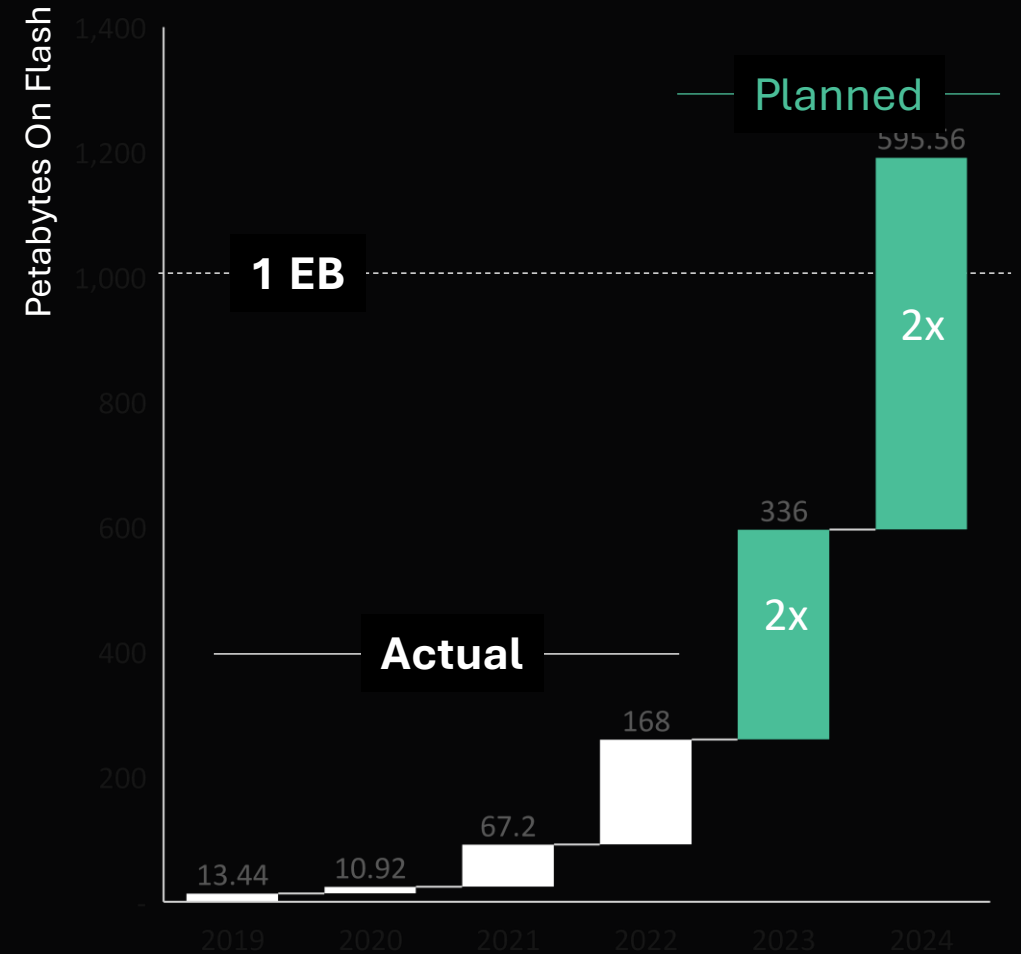
**New Trading Instruments**

# 40 YEARS OF COMPOUNDING GROWTH

- Quant Research Now 40 Years Old
- Datasets now growing 2x Y/Y
- VIX avg is roughly 2x since Covid

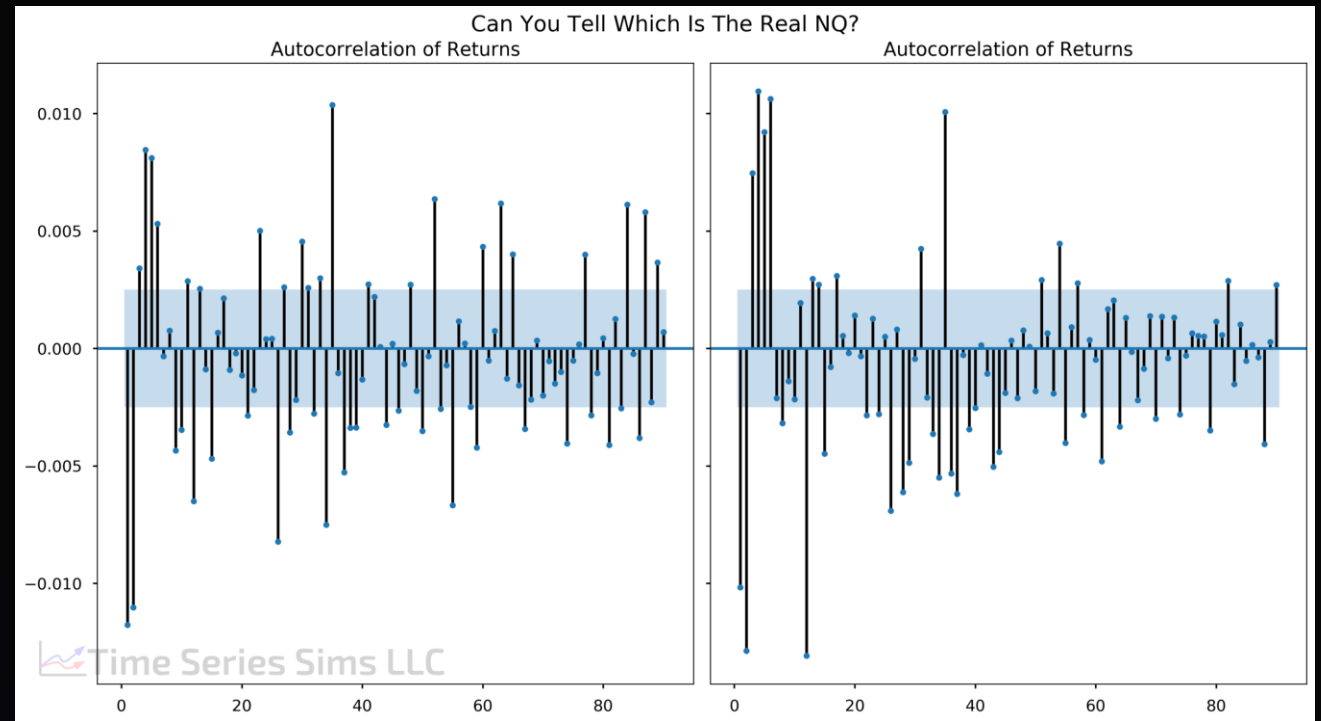


Scaling At One of VAST's Largest Quant Trading Customers



# THE MACHINES ARE NOW CREATING DATA

- Monte Carlo is being challenged by lack of sophistication and autocorrelation
- More firms are turning to DL, but the “deep” in deep learning = lots of data
- Where to get the training data? **Make it!**



# CRYPTO IS A DATA GROWTH CATALYST

- Full ownership lineage
- 500 exchanges trading coins
- More metadata to analyze



7x Larger Crypto  
Trade Data  
Payload

Options  
Trade Data  
Payload

**DATA IS GROWING AT  
HISTORIC LEVELS &  
MUST BE ACCESSED IN  
REAL-TIME**

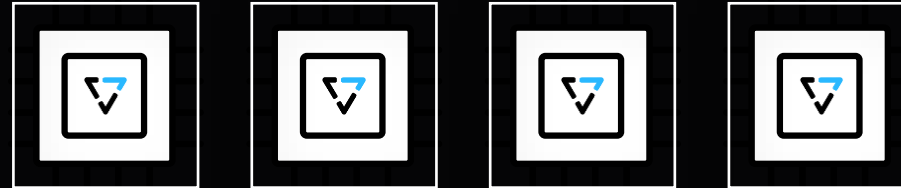
**BUSINESSES NEED TO  
CONTROL THE COST  
OF REAL-TIME  
INFRASTRUCTURE**



# ONE TIER TO RULE THEM ALL

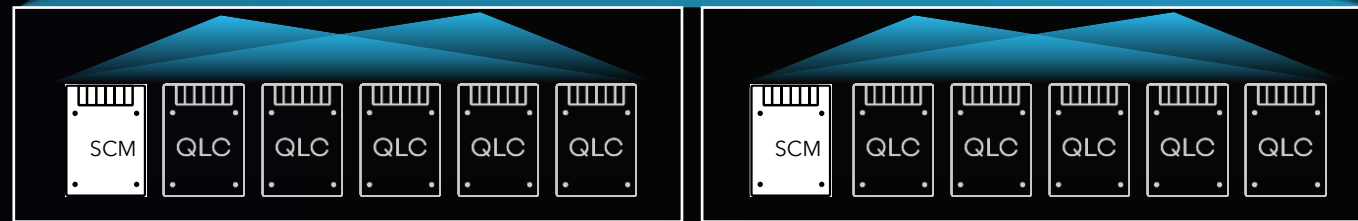
NFS • SMB • S3 • GPUDirect Storage

1,000s of stateless containers  
Zero east west traffic, linear scale



NVMe Fabric

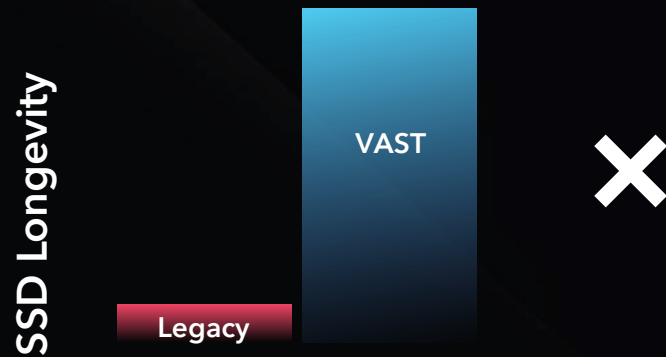
Exabytes of low-cost flash  
All-flash at archive price-points



DASE: the world's first partition-less scale out architecture

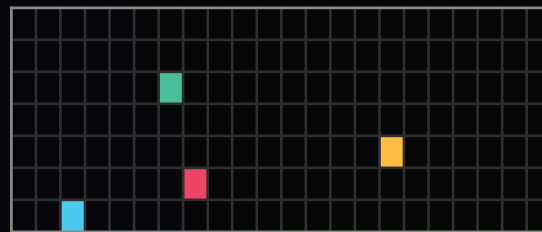
# THE PATH TO FLASH AFFORDABILITY

VAST predictive placement saves 85%



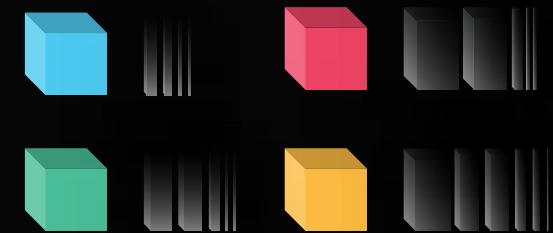
Enable hyper-scale flash

Data protection saves up another ~30%



Locally-decodable erasure codes

Unprecedented storage efficiency (2:1 on compressed data)



Similarity-based data reduction





# ALL-FLASH MARKET DATA ARCHIVES ARE WHAT WE DO

**THANK YOU**

[www.vastdata.com](http://www.vastdata.com)

