



# UNIVERSAL STORAGE INTRODUCTION

---

MAY 2019



# VAST COMPANY TIMELINE

Disruptive Concept Driving Historic Success

FOUNDED

2016

ALPHA

2017

V1 GA

2018

COMPANY LAUNCH

2019

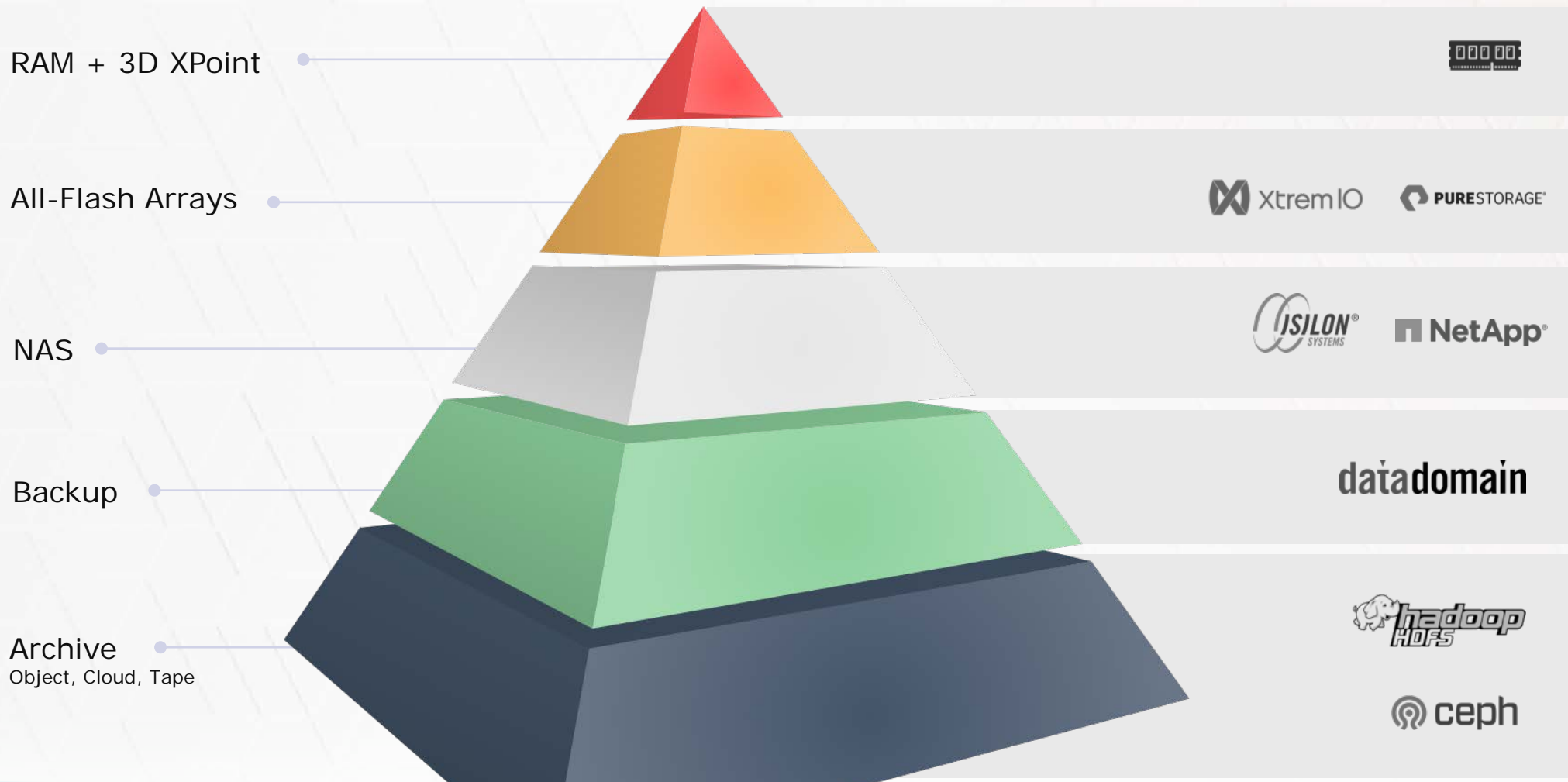
FASTEST GROWING EARLY STAGE  
IT COMPANY IN HISTORY

- DOZENS OF PBs
- SEVERAL MULTI-\$M ORDERS

\$80M OF FUNDING ANNOUNCED



# 30 YEARS OF STORAGE COMPLEXITY



# CLOUD CHANGES NOTHING





**the data center  
stack is overly  
complicated**







insights suffer





**decades of tradeoffs**  
**all created by spinning media**



performance



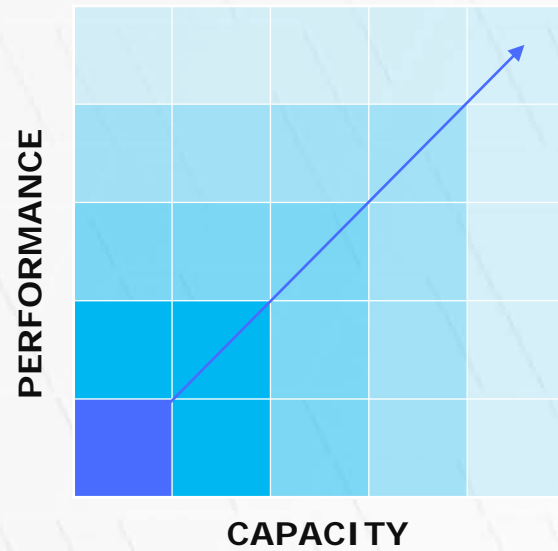
capacity



longevity



# flash breaks this fundamental tradeoff





# A 20X GAP **STILL** EXISTS IN DATA CENTER MEDIA



\$0.03/GB  
(Raw)

HIGH CAPACITY HDD



\$0.60/GB  
(Raw)

DUAL PORT NVME ENTERPRISE SSD



# INTRODUCING VAST DATA

## Welcome to the Universal Storage Era

### ALL FLASH PERFORMANCE

Write at 3D XPoint speeds,  
Read at TB/s, Ms of IOPS

### TIER 5 COST EFFICIENCY

Engineered at every level  
to deliver unrivaled  
system efficiency

### EXABYTE SCALE NFS & S3 STORAGE

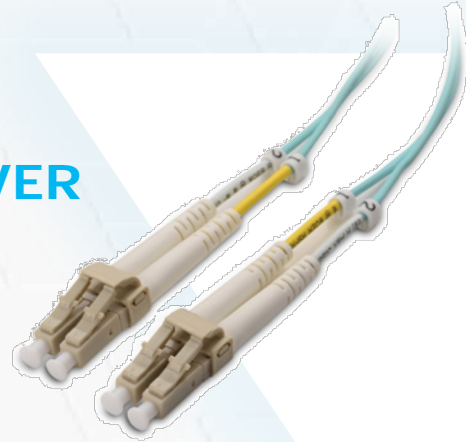
exceeds the capacity needs  
of any size organization



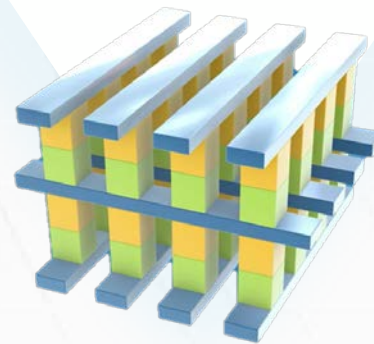
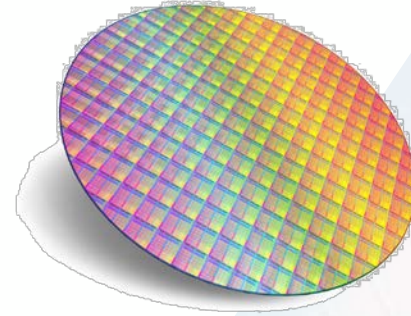
# OUR UNFAIR ADVANTAGE

Technologies Not Available to Storage Companies Before 2018

NVME OVER  
FABRICS



QLC  
FLASH

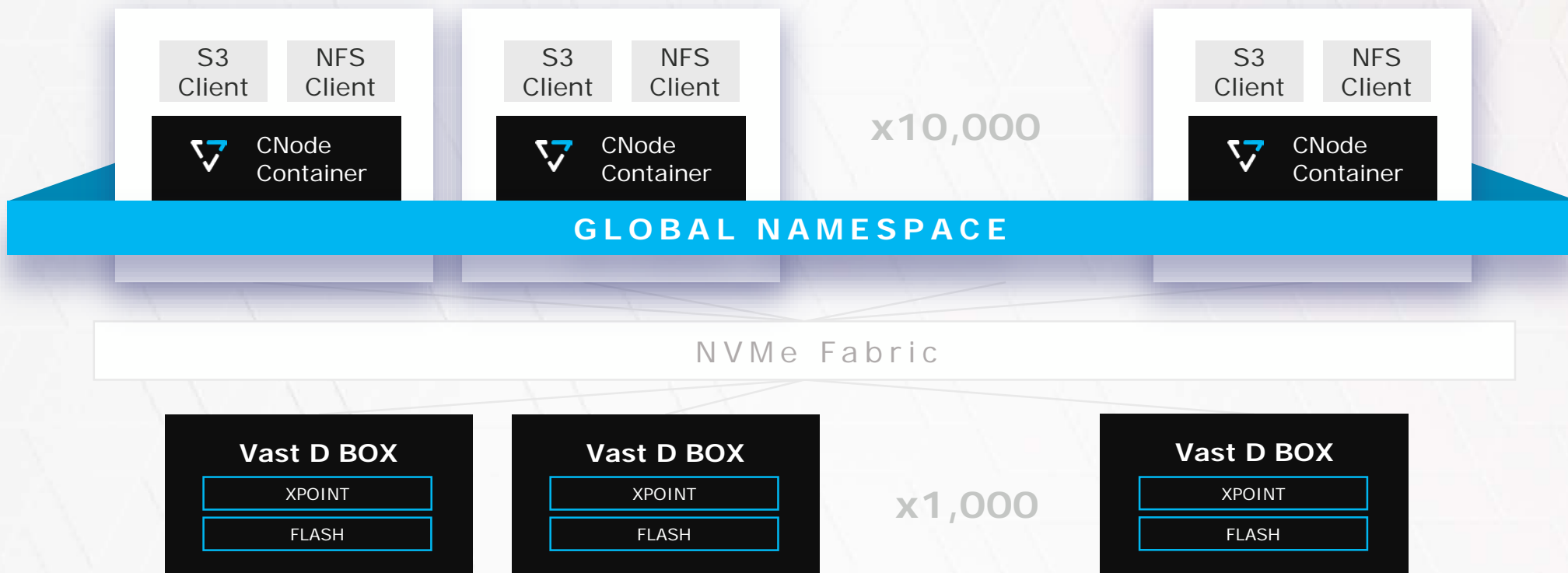


OPTANE



# VAST UNIVERSAL STORAGE

## DASE Architecture: Disaggregated Shared Everything







# GAME CHANGING STORAGE INNOVATIONS

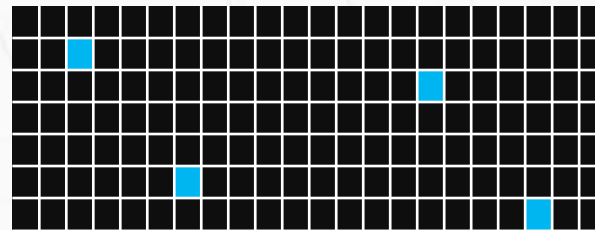
## Using Global Codes to Break Tradeoffs

### QLC Flash Saves 85%



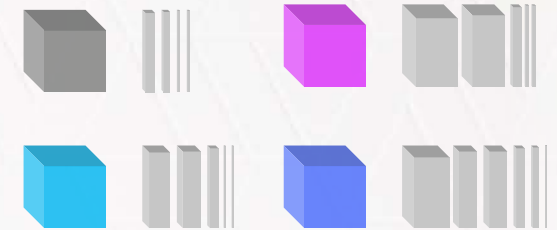
**Global Flash Translation**  
10 years of longevity without over-provisioning or added cost

### Save Up To Another 66%



**Global Erasure Codes**  
radically high resilience with only 2% overhead

### Unprecedented Efficiency



**Global Compression**  
the fine granularity of compression, combined with the global approach of deduplication



# the result

## All Flash Data Center

Unprecedented Flash Economics  
Competitive With HDD Systems

## 1PB per RU

A Data Center In A Rack.

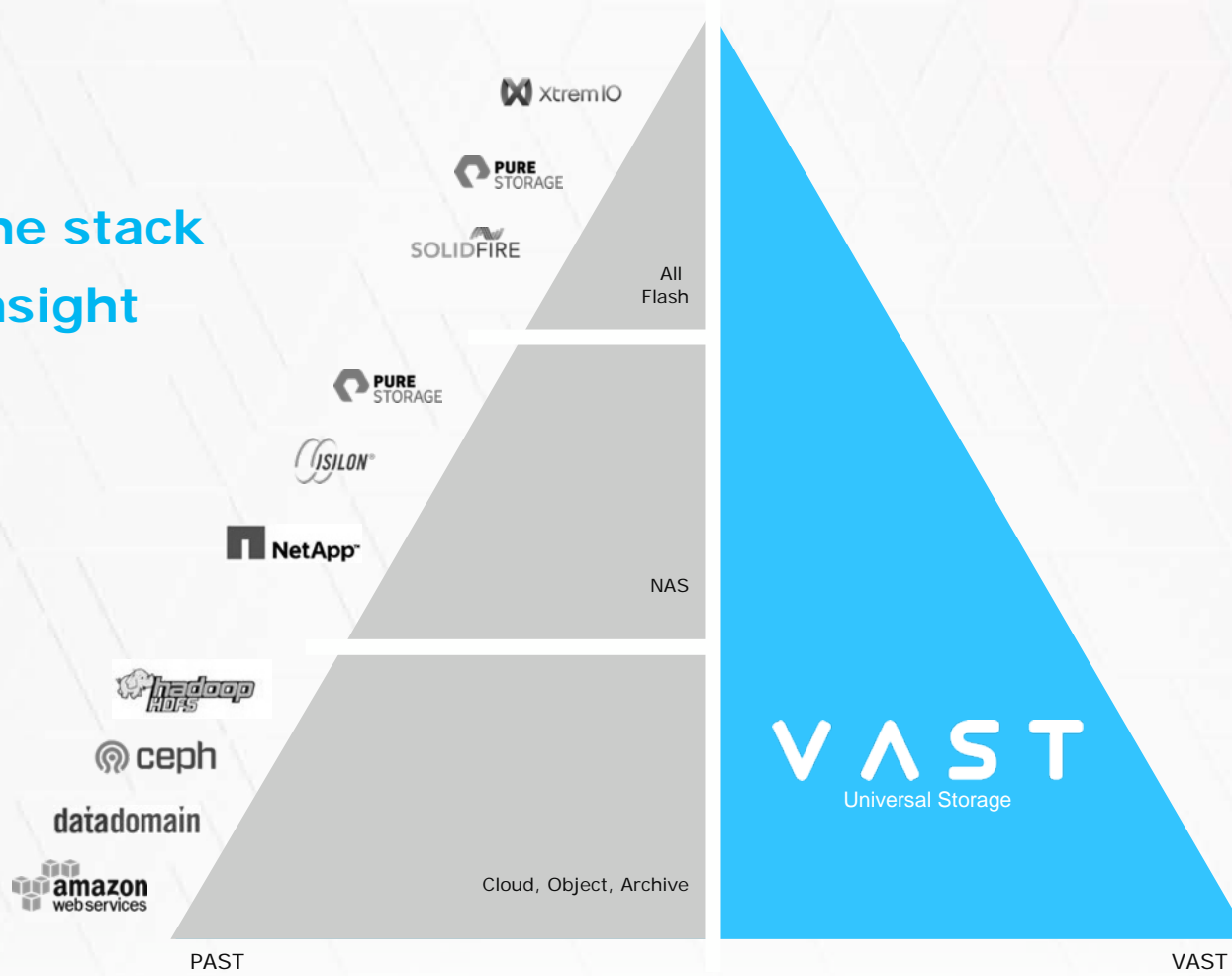
## 10Y Longevity

More Like A Tape Library  
Than A HDD Storage System

# THE END STATE



Simplify the stack  
Unleash insight



# UNLEASH NEW INSIGHTS AND IT AGILITY



## HORIZONTAL APPLICATIONS

### BIG DATA



### LOG ANALYTICS



### MACHINE LEARNING



### ENTERPRISE BACKUP



## VERTICAL FOCUS





# LEARN MORE



[vastdata.com](https://vastdata.com)



[@VAST\\_Data](https://twitter.com/VAST_Data)



[hello@vastdata.com](mailto:hello@vastdata.com)

