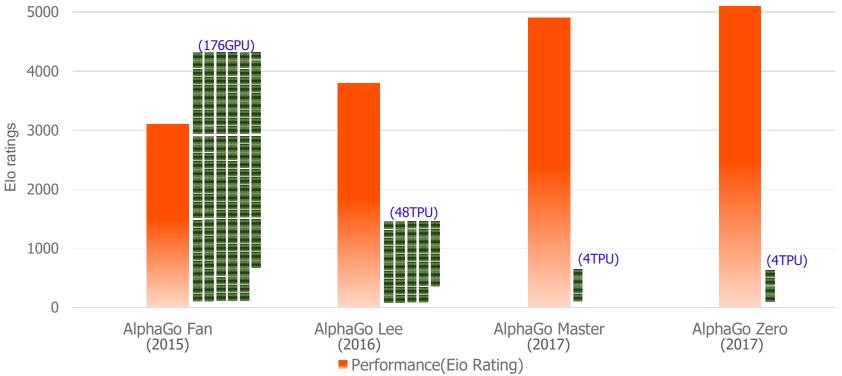




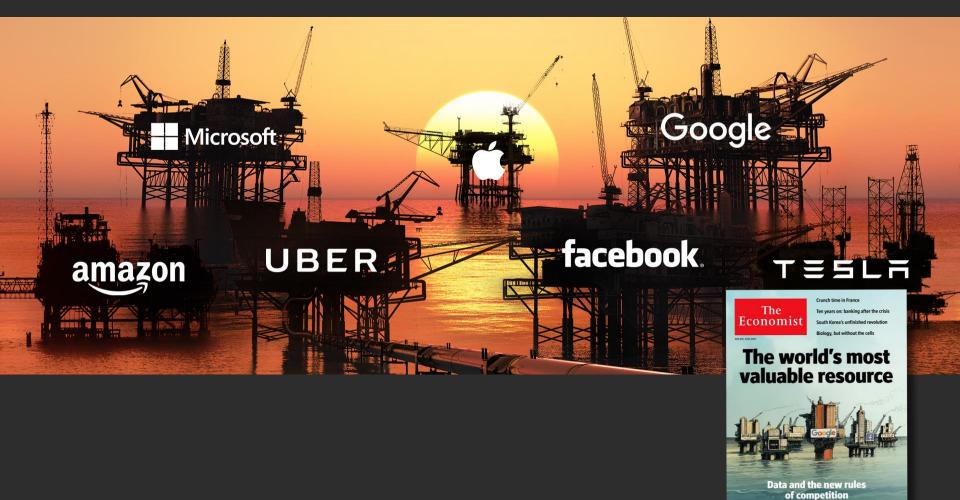
Evolving H/W Accelerates AI Performance



Elo ratings - a measure of the relative skill levels of players in competitive games such as Go

PURESTORAGE®





DAWN OF 4TH INDUSTRIAL REVOLUTION

BIG DATA, AI DRIVING CHANGE IN EVERY INDUSTRY



1st Revolution

1760-1820's Steam Power Rural to Industrial



2nd Revolution

1870-1914 Electricity Industrial to Mass Production

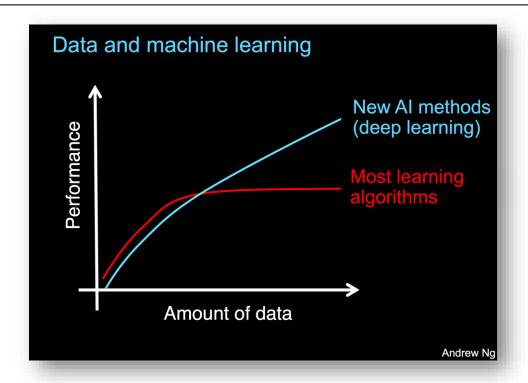






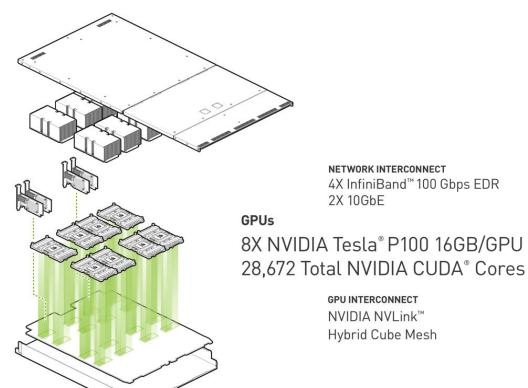
DATA IS VITAL TO MACHINE LEARNING

OBSERVATION BY PROF. ANDREW NG, AI LUMINARY





SOUL OF DGX-1 IS PARALLEL



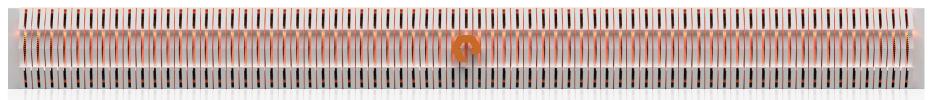


SOUL OF FLASHBLADE IS PARALLEL

POWERING 75 BLADE-SCALE IN SINGLE IP WITH PURITY FOR FLASHBLADE









THREE ESSENTIAL THINGS FOR AI

FRAMEWORKS & APPLICATIONS







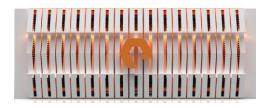


COMPUTEFROM CPU TO GPU SERVERS





STORAGE
POWER ENTIRE AI PIPELINE

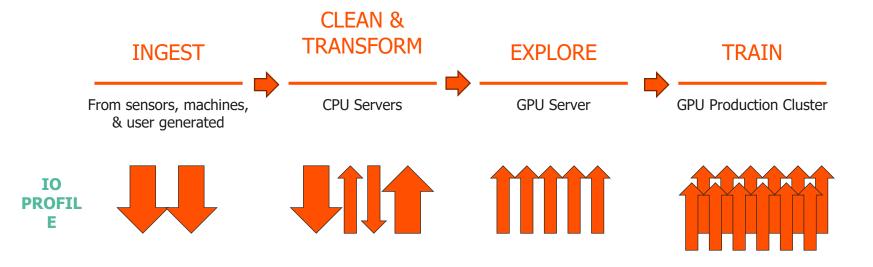






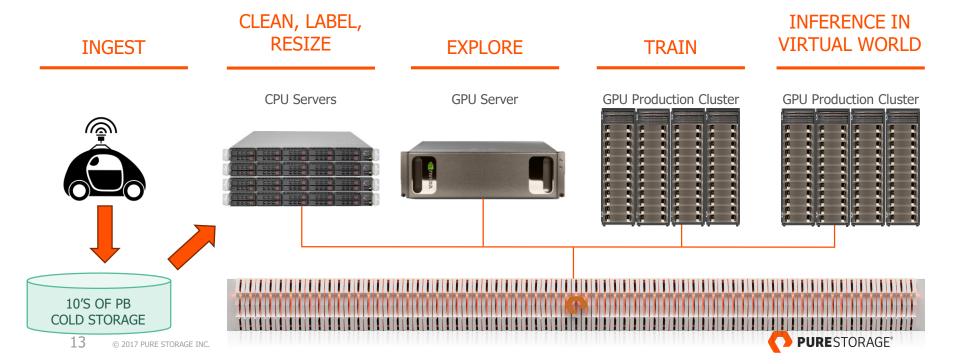
WIDE RANGE OF NEEDS IN THE PIPELINE

SIGNIFICANT CHALLENGE TO LEGACY STORAGE





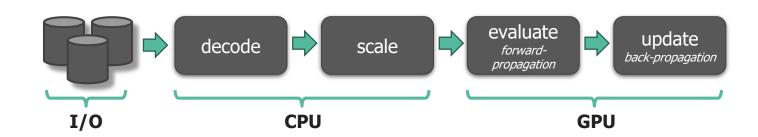
REAL WORLD PIPELINE IN AN AUTONOMOUS CAR COMPANY



AI SYSTEMS DESIGN PATTERNS

GOAL IS TO KEEP THE GPUs 100% BUSY

FULL TRAINING WORKFLOW



BENCHMARK SETUP



Setup #1: DGX-1 with 4x Local SSDs

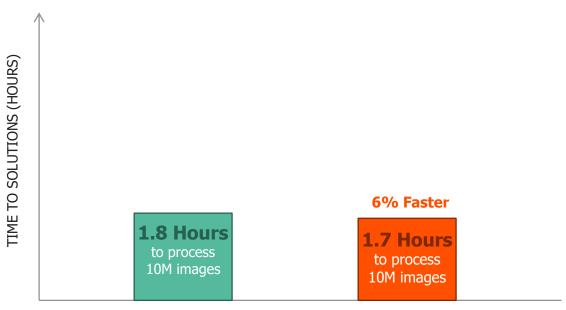


Setup #2: DGX-1 with 1x FlashBlade



RESULT: FLASHBLADE vs LOCAL SSDs

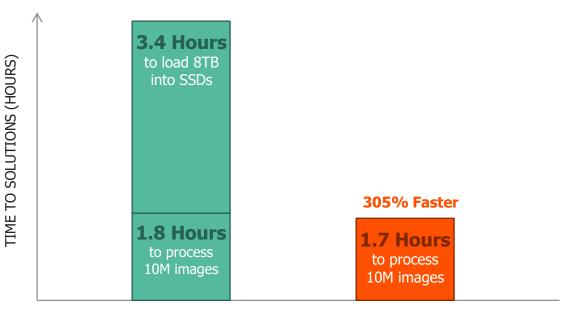
TENSORFLOW TRAINING BENCHMARK WITH RESNET-50





RESULT: 3X FASTER END-TO-END

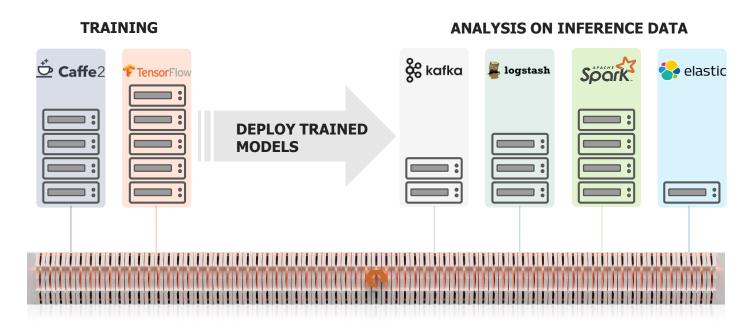
TENSORFLOW TRAINING BENCHMARK WITH RESNET-50





ANALYTICS FOR PRODUCTION DATA

"TUNED FOR EVERYTHING" DATA PLATFORM FOR BOTH TRAINING AND INFERENCING WORKLOADS





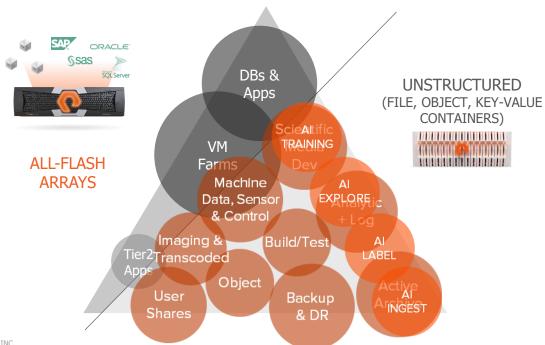




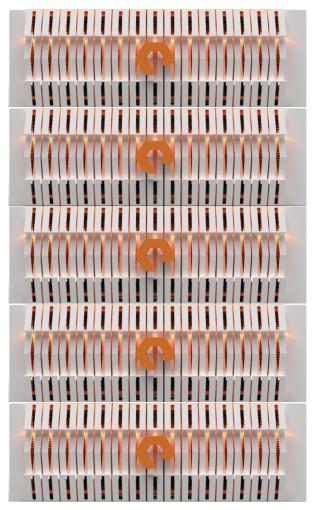


AI EXPANDED OUR VIEW OF THE WORLD

STRUCTURED (BLOCK, DBs, VMs)







FLASHBLADE

INDUSTRY'S FIRST DATA HUB PURPOSE-BUILT FOR AI & DEEP LEARNING



BLADE

Powerful, Elastic Data Processing & Storage Unit



PURITY

Massively Distributed Software for Limitless Scale



SCALE-OUT FABRIC

Software-defined fabric that scales linearly with more data & clients



A LEADER FOUR YEARS IN A ROW!

Figure 1. Magic Quadrant for Solid-State Arrays



Gartner OHABBANT

A MAGIC QUADRANT LEADER

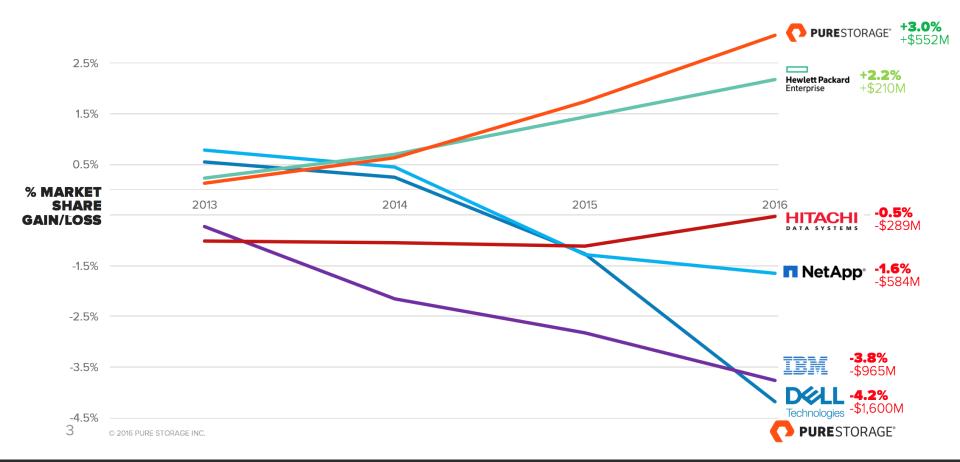
Source: Gartner Magic Quadrant for Solid State Arrays July 2017.

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CUMULATIVE 4-YEAR MARKET SHARE GAIN/LOSS

EXTERNAL ENTERPRISE STORAGE, 2013-2016

















































Al Adobe



SONY











ConocoPhillips



servicenow

(^)) GLOBALFOUN<u>DRIES</u>













Shutterflu

NTTData





BARCLAYS

Peets Coffee & Tea...

Bloomberg

















Carnegie Mellon University





WE'VE HELPED > 3000 CUSTOMERS









ERATE POS

TRANSFORM



servicenuw























































Humana

Shutterfly





25





















HARNESS

VALUE OF DATA



NORDSTROM











CLOUD MODEL









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