

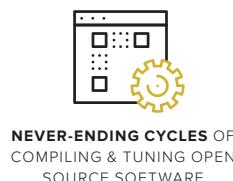
# MEET AIRI™ YOUR FIRST AI-READY INFRASTRUCTURE AT SCALE

## THE ERA OF AI IS HERE

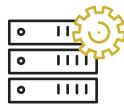
Enterprises will tap the power of AI for faster innovation and a competitive edge. Yet AI requires a completely new infrastructure, and the complexities of legacy solutions are holding enterprises back from moving into the new era of intelligence.

## “DO-IT-YOURSELF” OFTEN YOUR ONLY OPTION

AI requires new, modern technologies like GPUs, scale-out flash, and RDMA fabric to move tremendous amounts of data. Unfortunately, too many AI initiatives are stalled with the complexities of a “do-it-yourself” approach using legacy technologies, leading to months of delays and idle time.



NEVER-ENDING CYCLES OF  
COMPILING & TUNING OPEN  
SOURCE SOFTWARE



MONTHS OF SYSTEM BUILDING  
AND TUNING, CONSTANT  
MAINTENANCE



LEGACY SOLUTIONS FULL OF  
DATA BOTTLENECKS, FROM  
STORAGE TO GPU TO APPS

## HYPERSCALE MADE SIMPLE AND FAST

AIRI™ is the industry’s first complete AI-ready infrastructure, architected by Pure Storage® and NVIDIA® to extend the power of NVIDIA® DGX™ systems. Powered by FlashBlade™ storage and NVIDIA DGX-1 and DGX-2 servers, AIRI offers enterprises a simple, fast, and future-proof infrastructure capable of growing from AIRI “Mini” to hyperscale – and meeting AI demands at any scale, without downtime.



FROM “MINI” TO HYPERSCALE AIRI

## AIRI SIMPLIFIES AI-AT-SCALE

- Reduces racks of complexity into a complete solution
- Data scientists can focus on algorithms, not infrastructure

## AI-AT-SCALE IS AN ADVANTAGE

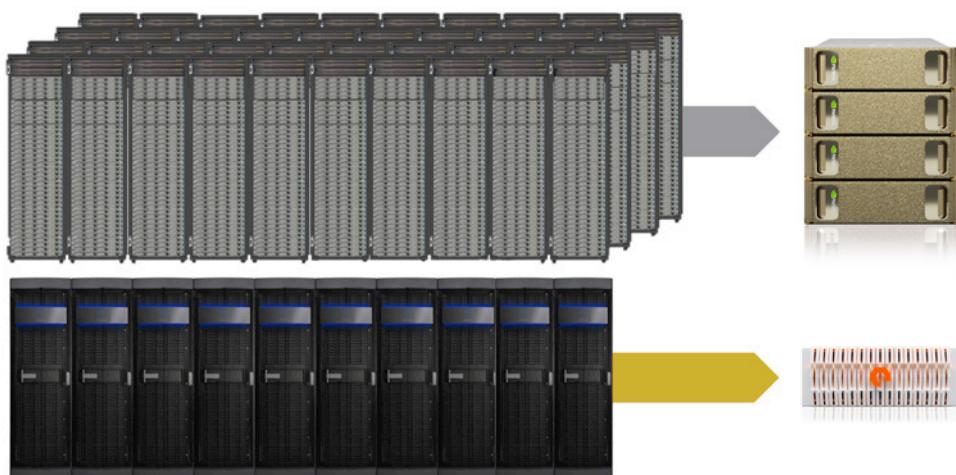
- More compute = faster training, more data = higher accuracy
- AIRI makes it simpler to run multi-node training

## AI IS DIVERSE AND EVOLVING

- From CNNs to GANs, AI is constantly changing
- AI is a data pipeline, requiring an integrated platform

## 50 RACKS UNDER 50 INCHES

AI pushes beyond the reach of legacy technologies like serial CPUs and spinning disks. At the core of AIRI are NVIDIA® DGX-1™ servers and FlashBlade, industry-leading solutions architected for AI. Each replaces the performance of many racks of legacy technology, offering data scientists the power of a large supercomputer for any AI initiative – in a converged solution with a fraction of the physical space and power and cooling costs of legacy infrastructure.

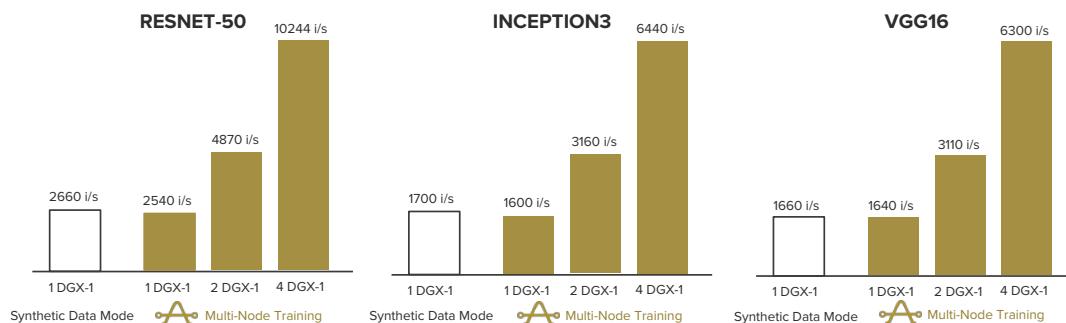


## DATA BOTTLENECKS, ELIMINATED

“Do-it-yourself” infrastructure requires constant tuning. As one bottleneck is resolved, another often shows up somewhere else in the system, resulting in weeks to months of lost productivity. AIRI is a complete infrastructure, tuned from software to hardware to keep the GPUs busy for workloads at any scale.

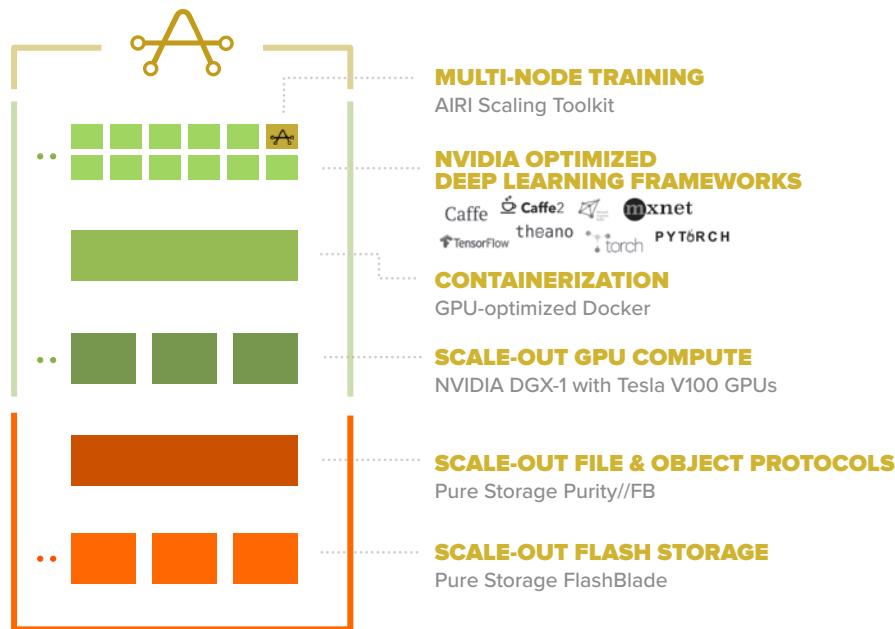
## AIRI DELIVERS LINEAR, SCALE-OUT PERFORMANCE

KEEPING GPUs BUSY WITH TENSORFLOW AND 100Gb ETHERNET WITH RDMA



## AIRI TECHNOLOGY STACK

EXTENDING THE POWER OF NVIDIA DGX-1 SYSTEMS FOR AI-AT-SCALE



AIRI is built with a **complete software stack** enabling data scientists to get up and running in a few hours, not weeks or months.

**AIRI Scaling Toolkit** allows users to run their first multi-DGX training within hours, with a few commands, and to slash training time from weeks to days for their most critical AI workloads.

## CUSTOMER HIGHLIGHT

### LEADING SOLUTIONS PROVIDER BRINGING AI TO ALL ENTERPRISES

ElementAI is an artificial intelligence solutions provider that gives organizations unparalleled access to cutting-edge technology. It is founded by leading AI experts, including Yoshua Bengio, who is widely considered to be one of the three pioneers of deep learning.

**ELEMENT**<sup>AI</sup>

"AIRI represents an exciting breakthrough for AI adoption in the enterprise, **shattering the barrier of infrastructure complexities** and clearing the path to jumpstart any organization's AI initiative. AIRI is built with the same core solutions ElementAI uses extensively both internally and with customers – the NVIDIA® DGX-1™ and Pure Storage FlashBlade."

Jeremy Barnes, Chief Architect, ElementAI

## SPECIFICATIONS



### AIRI "MINI"

**2x NVIDIA® DGX-1™ SYSTEMS**  
2 PFLOPS of DL Performance  
**1x PURE FLASHBLADE**  
7x 17TB Blades  
**CONVERGED FABRIC**  
2x 100Gb Ethernet or EDR InfiniBand

### AIRI

**4x NVIDIA® DGX-1™ SYSTEMS**  
4 PFLOPS of DL Performance  
**1x PURE FLASHBLADE**  
15x 17TB Blades  
**CONVERGED FABRIC**  
2x 100Gb Ethernet or EDR InfiniBand

### HYPERSCALE AIRI

<b>9x NVIDIA® DGX-1™ SYSTEMS</b> 9 PFLOPS of DL Performance	<b>3x NVIDIA® DGX-2™ SYSTEMS</b> 6 PFLOPS of DL Performance	<b>2x NVIDIA® DGX-2™ SYSTEMS</b> 4 PFLOPS of DL Performance
<b>2x PURE FLASHBLADE WITH MULTI-CHASSIS</b> 30x 17TB Blades	<b>2x PURE FLASHBLADE WITH MULTI-CHASSIS</b> 30x 17TB Blades	<b>1x PURE FLASHBLADE</b> 15x 17TB Blades
<b>CONVERGED FABRIC</b> 2x 100Gb Ethernet or EDR InfiniBand	<b>CONVERGED FABRIC</b> 2x 100Gb Ethernet or EDR InfiniBand	<b>CONVERGED FABRIC</b> 2x 100Gb Ethernet or EDR InfiniBand

VISIT [PURESTORAGE.COM/AIRI](http://PURESTORAGE.COM/AIRI) TO LEARN MORE

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