

# THE WORLD'S MOST EFFICIENT SUPERCOMPUTER FOR AI AND DEEP LEARNING

**NVIDIA DGX SATURNV** 

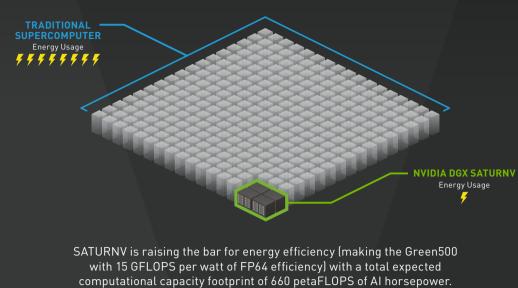


# **EFFICIENCY**

THE GREENEST PATH TO EXASCALE

## The NVIDIA® DGX SATURNV taps into the compute power of 1800 NVIDIA® DGX-1™

server nodes to drive new levels of deep learning and data science.

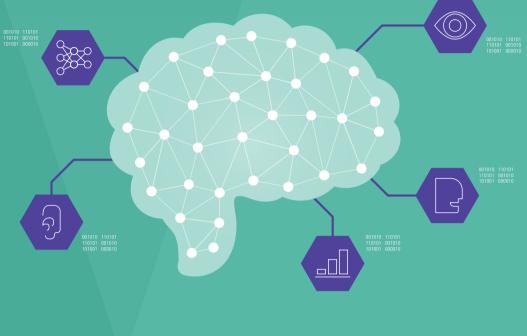


The GREEN NVIDIA is lighting a path for enterprises to build GPU-accelerated

FASTER NEURAL NETWORKS TRAINING FOR SMARTER RESULTS

data centers of the future, breaking the barriers of Moore's law scaling, while offering more compute in less space than ever before.

## **INTELLIGENCE** intelligent it becomes. This can be the difference between a network identifying a

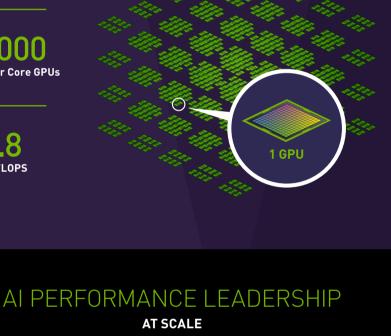


## takes an incredible amount of time and compute power. With GPUs, hundreds of networks can now be trained in parallel, accelerating solutions for some of the world's hardest problems through Al.

Neural networks are the backbone of artificial intelligence, but training them

TAP INTO THE WORLD'S FASTEST GPUs **POWER** 

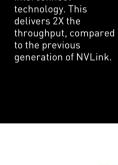




NEW RECORD 18.5 Mins

DGX SuperPOD





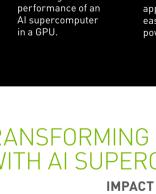
Volta uses next

interconnect

generation NVIDIA

NVLink™ high-speed

POWERED BY NVIDIA TESLA V100 GPUs Built on the latest NVIDIA Volta GPU architecture



With over 21 billion

and Tensor Cores,

delivering the

transistors, Volta is the

world's most powerful GPU architecture, pairing NVIDIA CUDA®



THE NATIONAL CANCER **MOONSHOT INITIATIVE** 

NVIDIA is teaming with the National Cancer Institute, and U.S. Department of Energy to create an AI platform for accelerating cancer research.

**NASA AMES GLOBAL CLIMATE CHANGE** 

With Volta-optimized CUDA and NVIDIA

Deep Learning SDK

libraries like cuDNN,

frameworks and

NCCL, and TensorRT™, the industry's top



Equipped with 640

Tensor Cores, Volta delivers over 100 teraFLOPS of deep

compared to prior generation NVIDIA

learning performance, a 5X increase

Pascal™ architecture.

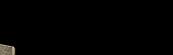
# TRANSFORMING INDUSTRIES WITH AI SUPERCOMPUTING

## A deep learning framework for Satellite Image Classification helps safeguard our planet by using satellite imagery and DeepSAT to measure the effects of

eenhouse o vegetation, and the urban landscape. **ICAHN SCHOOL OF MEDICINE** The school developed 'Deep Patient',

a tool trained on thousands of patient records using GPU accelerators to identify high-risk patients.





BUILD YOUR OWN SATURNY

WITH NVIDIA DGX-1 AND DGX-2

