

# AI SUMMIT: ACCELERATE YOUR PATH TO AI ENTERPRISE WITH GPUS

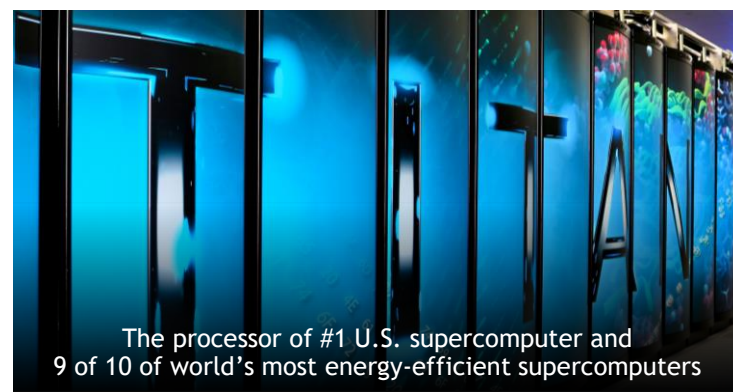
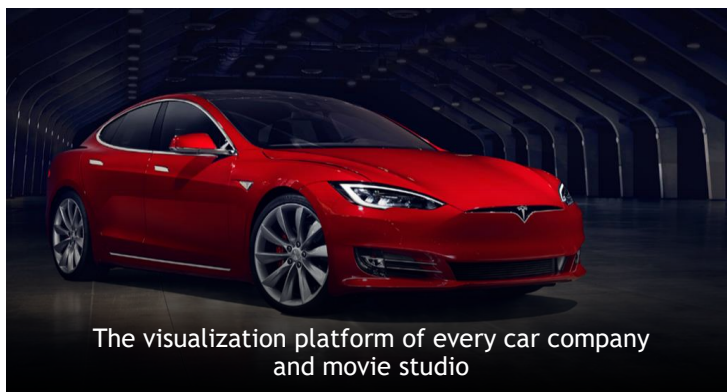
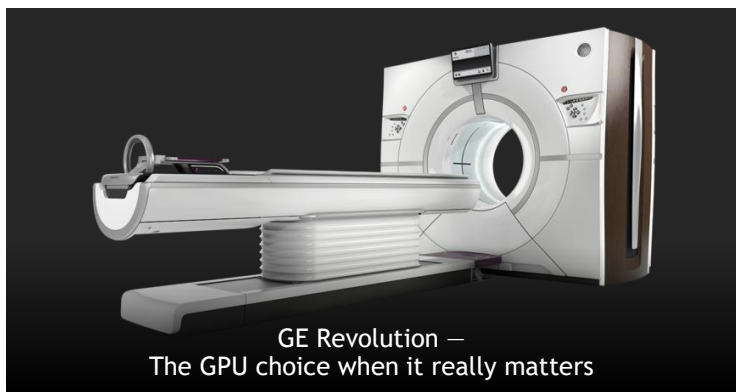
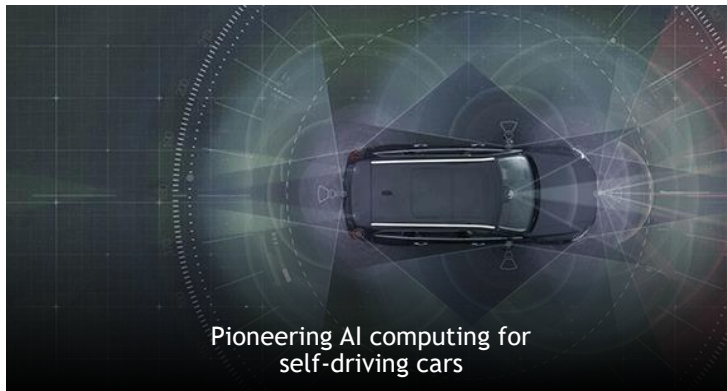
Paul Phillips | NVIDIA | IBD – Deep Learning and AI, ANZ  
Anshu Bhaskar | XENON  
03 May 2018





# NVIDIA

Pioneered GPU Computing | Founded 1993 | \$9.0B | 12,000 Employees

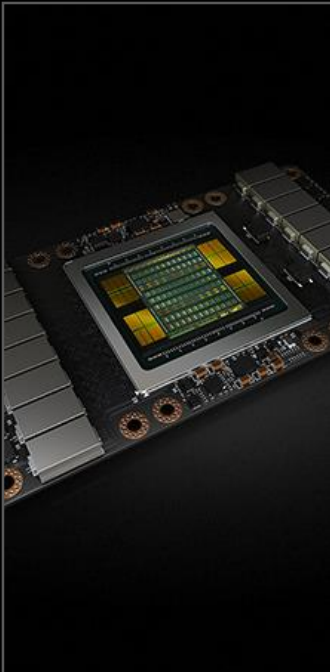








# NVIDIA AI PLATFORM



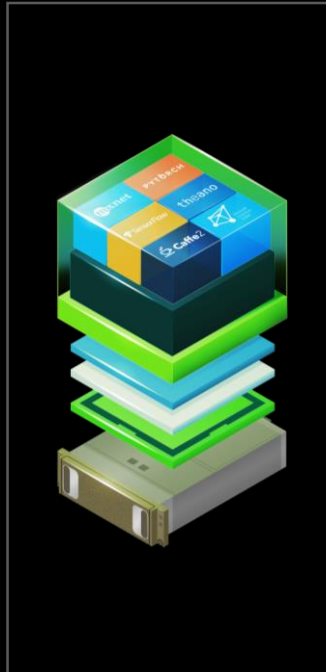
Tesla V100, P4, P40,  
P100



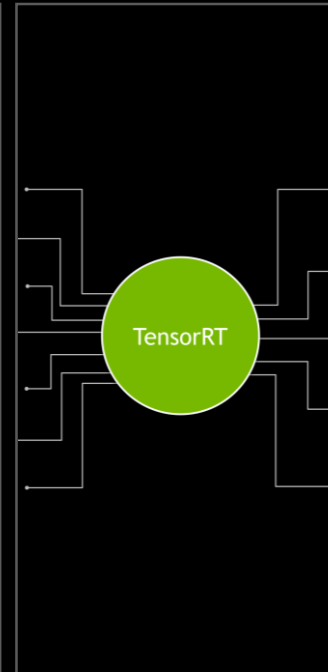
DGX-1, DGX-2 and  
DGX Station



Every Cloud  
Every Computer Maker



NVIDIA GPU Cloud



NVIDIA AI Inference



Quadro GV100

# TRADITIONAL HPC CLUSTER

600 Dual-CPU Servers  
360 kW





A tall, black server rack stands in a large, empty data center. The rack is filled with numerous circuit boards, likely GPUs. On top of the rack, a small, orange, crane-like device is mounted. The data center has a high ceiling with a grid of square light fixtures, some of which are illuminated. The floor is made of large, light-colored tiles, some of which have a hexagonal pattern. The walls are dark and feature vertical slats. The overall atmosphere is clean, modern, and industrial.

# NVIDIA TESLA V100

BIG SAVINGS

30 Quad-GPU Servers  
48 kW

1/5 the Cost  
1/7 the Space  
1/7 the Power



# NVIDIA DGX-2 FOR DEEP LEARNING

1 DGX-2

Big Savings for Deep Learning

10 kW

1/8 the Cost

1/60 the Space

1/18 the Power



# INTELLIGENT VIDEO ANALYTICS FOR DETECTION, TRACKING, & CLASSIFICATION



Vehicle Detection



License Recognition



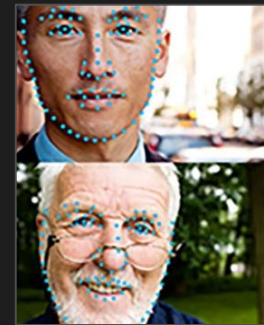
Pedestrian Detection



People Counting



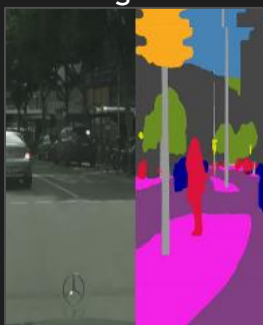
Face Detection



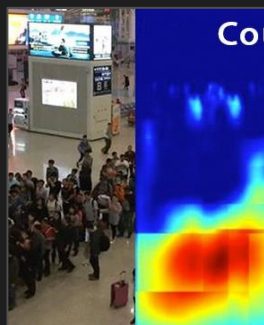
Face Alignment



Vehicle Model Recognition



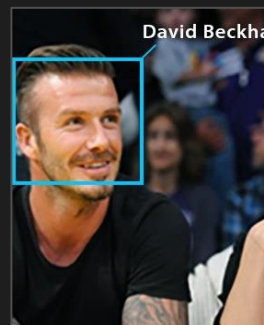
Scene Parsing



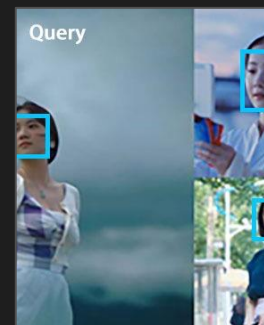
Crowd Density Analysis



Crowd Tracking



Face Recognition



Search by Face



**FRAUD DETECTION**

**CYBER SECURITY**

**AI IN A CALL CENTRE**

**FSI DECISION MAKING**







# NVIDIA DEEP LEARNING INSTITUTE

## Overview

**DLI Mission:** Helping the world to solve the most challenging problems using AI and deep learning.

We help developers, data scientists and engineers to get started in training, optimizing, and deploying neural networks to solve real-world problems in diverse disciplines such as self-driving cars, healthcare, consumer services and robotics.

**XENON**<sup>®</sup>  
High Performance Computing



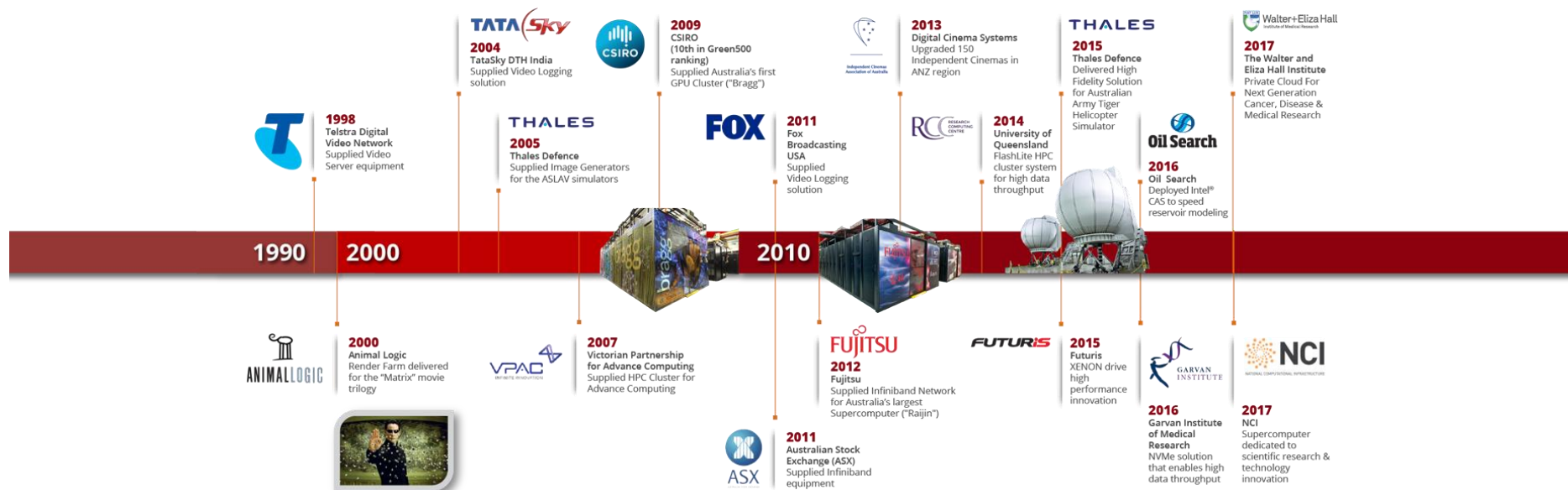
# WHO IS XENON?

## Introduced GPU computing into Australia in 2008

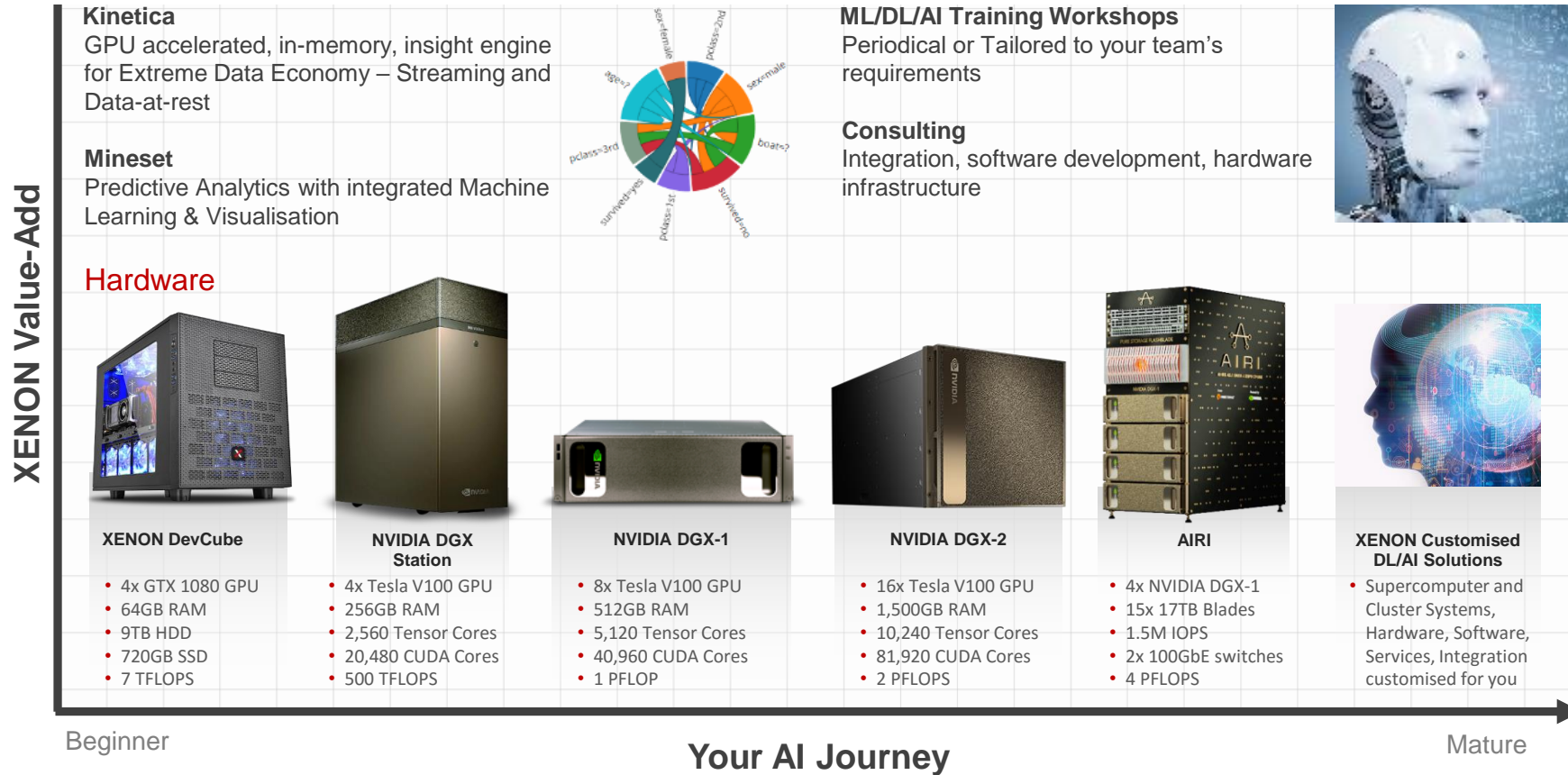
- NVIDIA Elite Solution Provider
- NVIDIA Preferred Deep Learning Partner
- NVIDIA Tesla Preferred Partner program member
- NVIDIA PartnerForce program member
- NVIDIA DGX-1 partner in Australia



## Over a decade of experience in delivering GPU solutions



# HOW XENON CAN ASSIST YOUR AI JOURNEY?







# THANK YOU

