

In the top left corner, there are several decorative geometric shapes consisting of red-outlined polygons, some of which are nested or overlapping.

# ➤ Accelerating the Data Center

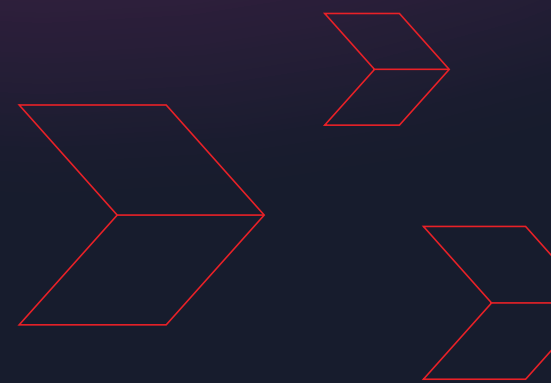
Manish Muthal  
Vice President, Data Center







Meet  
**ALVEO™**





## U200

**892K**  
LUTs

**35MB**  
Internal SRAM  
Capacity

**31TB/s**  
Internal SRAM  
Bandwidth

**3100img/s**  
CNN Throughput\*

## U250

**1,341K**  
LUTs

**54MB**  
Internal SRAM  
Capacity

**38TB/s**  
Internal SRAM  
Bandwidth

**4100img/s**  
CNN Throughput\*

\*Low-latency GoogLeNet v1

# Xilinx Acceleration Platform



## TOOLS

## USER



Frameworks

Data Scientists  
& AI Developers



Libraries, Compilers, Middleware

Application  
Developers



Firmware And Runtime

Software  
Developers



Integrated Development Environment

Hardware and  
Software Developers



# Alveo Ecosystem





## **FAST**

Faster than CPUs & GPUs  
Latency advantage over GPUs

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## **ADAPTABLE**

Optimized for any workload  
Adapt to changing algorithms

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## **ACCESSIBLE**

Deploy in the cloud or on-premises  
Applications available now





# ➤ Worlds Fastest Data Center and AI Accelerator Cards



**90x**

Database Search  
& Analytics



**89x**

Financial  
Computing



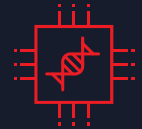
**20x**

Machine  
Learning



**12x**

Video  
Processing



**10x**

HPC &  
Life Sciences



Financial Risk  
Modeling / Analytics

Data Analytics  
Acceleration

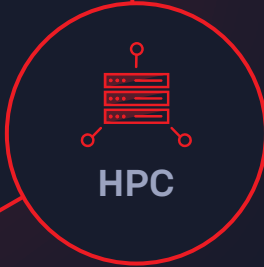
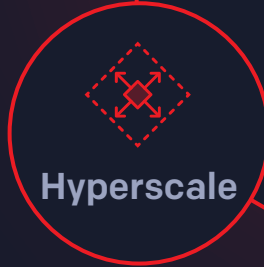
ML Inference  
Applications



# The Value of Adaptability

Search  
Acceleration

Genome  
Sequencing



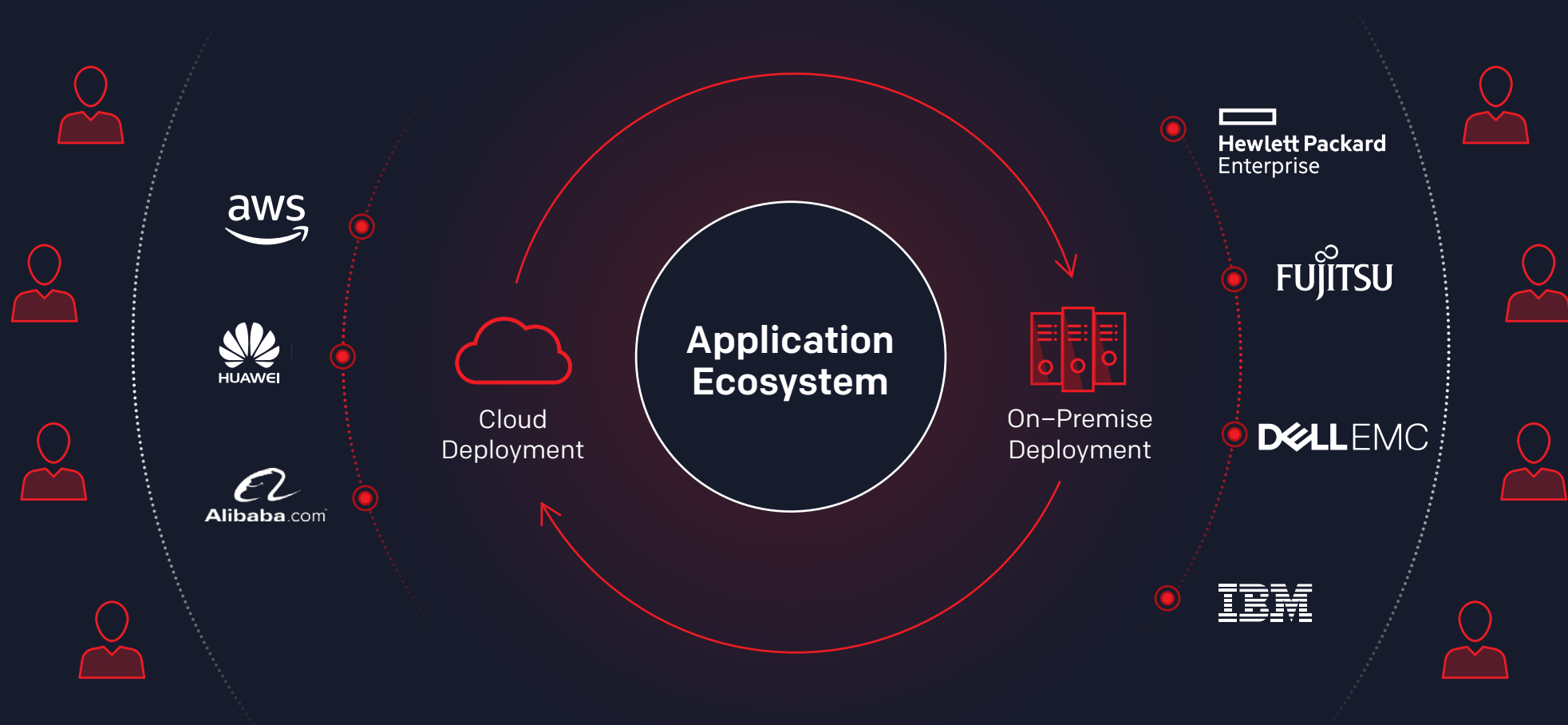
Live Video  
Processing

Weather  
Simulations

ML Inference  
Applications

ML Inference  
Applications

# ➤ Accessible: Cloud to On-Premises Mobility





**We're Just  
Getting Started**