Your Innovation Powered by Xilinx

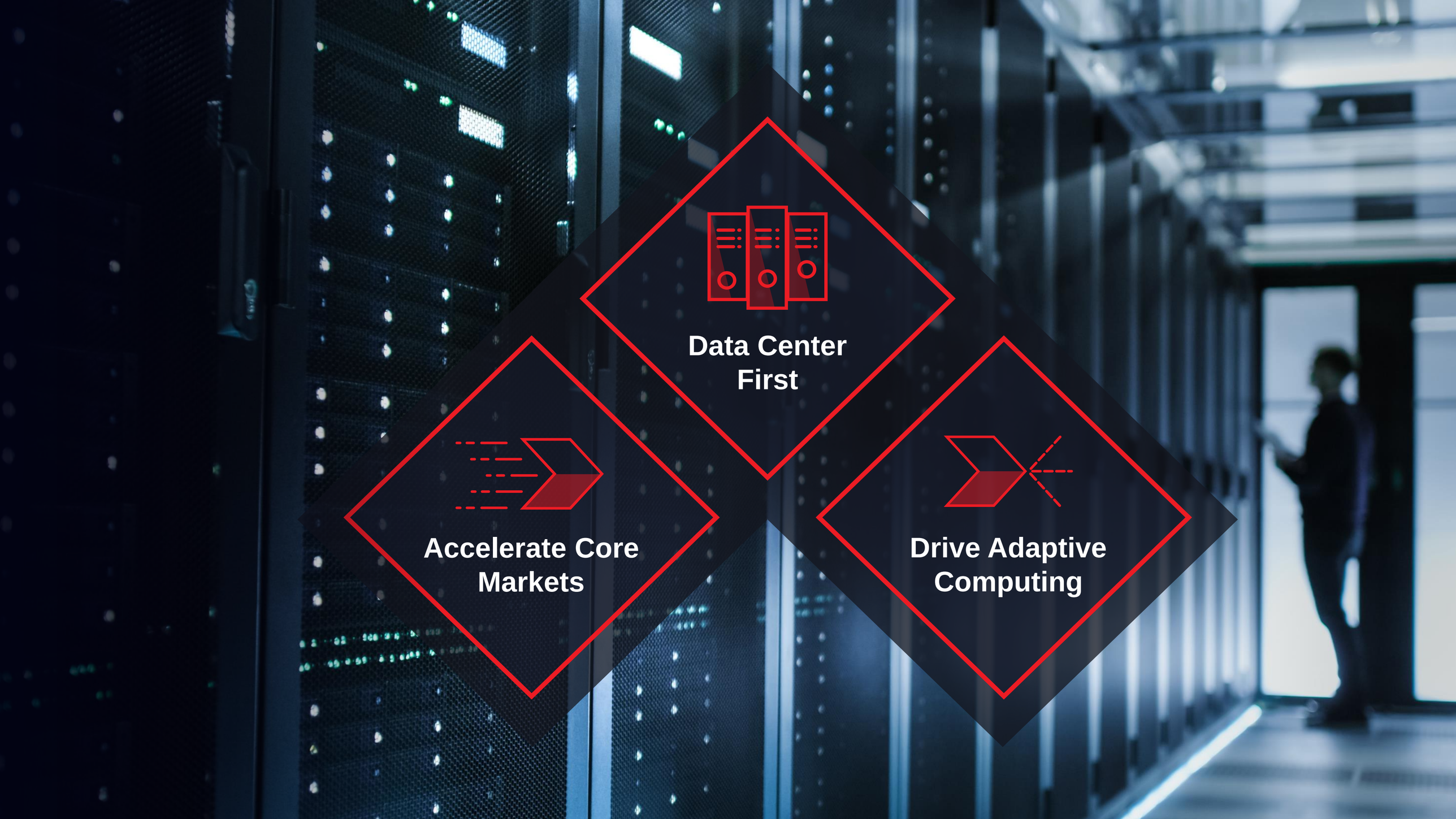
Victor Peng | CEO

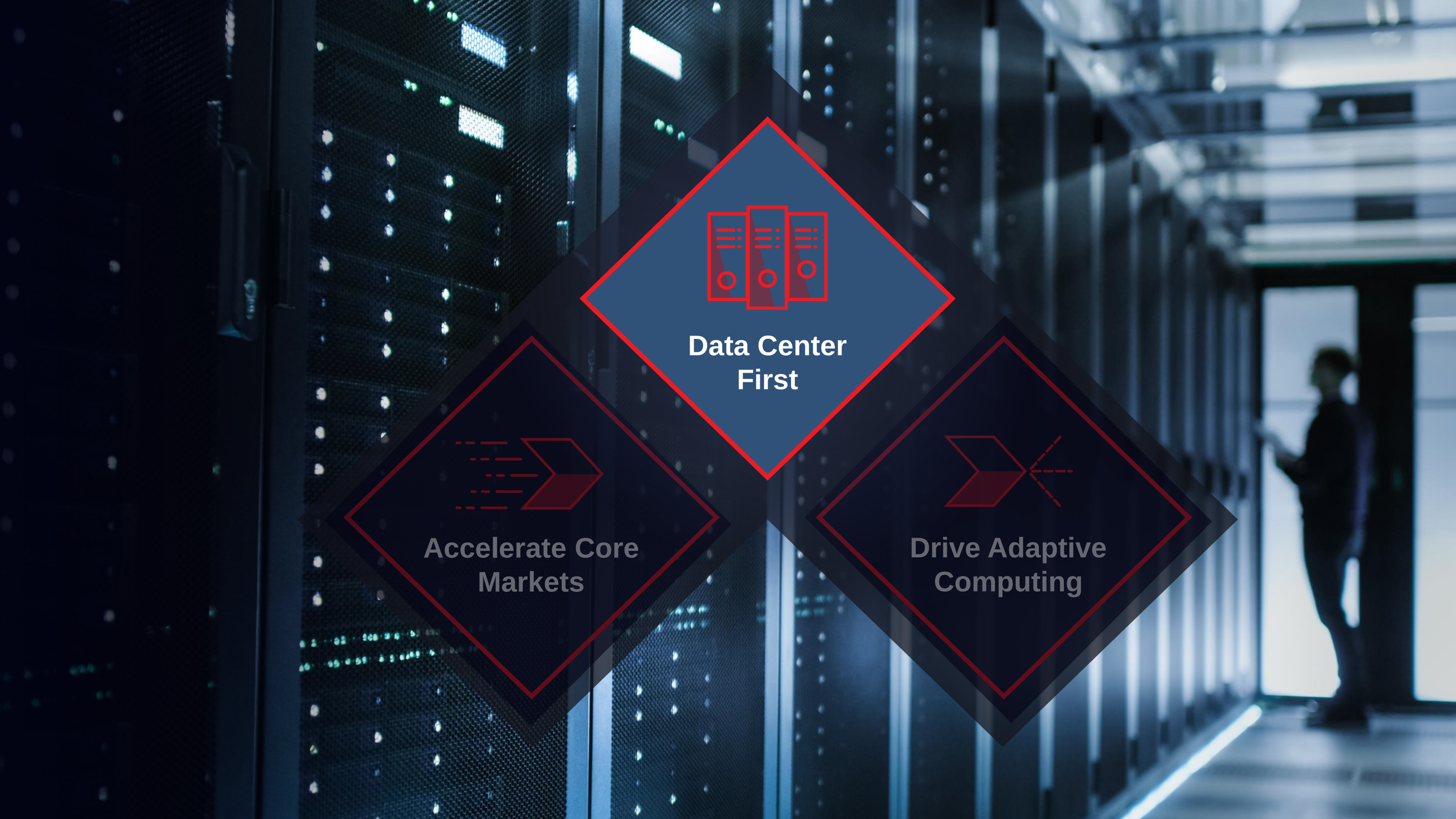
Question

Developers Like You

Mission

Building the Adaptable, Intelligent World


Data Center First
Accelerate Core Markets
Drive Adaptive Computing


Data Center First
Accelerate Core Markets
Drive Adaptive Computing

Xilinx Data Center Customers

Amazon Sagemaker

ONNX
mxnet
TensorFlow
PYTORCH

Amazon SageMaker Neo

XILINX

Kutleng ENGINEERING TECHNOLOGIES

IBM Watson / Power AI Vision

Create Dataset

Prepare Data

Train Model

Deploy Model

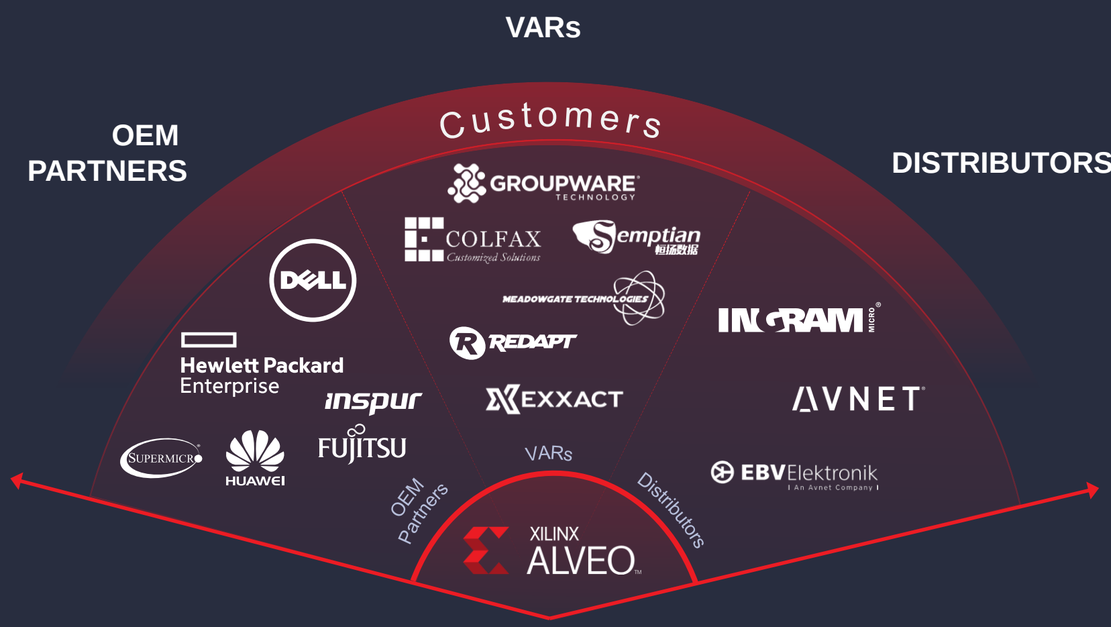
VITIS AI

Microsoft Azure FaaS

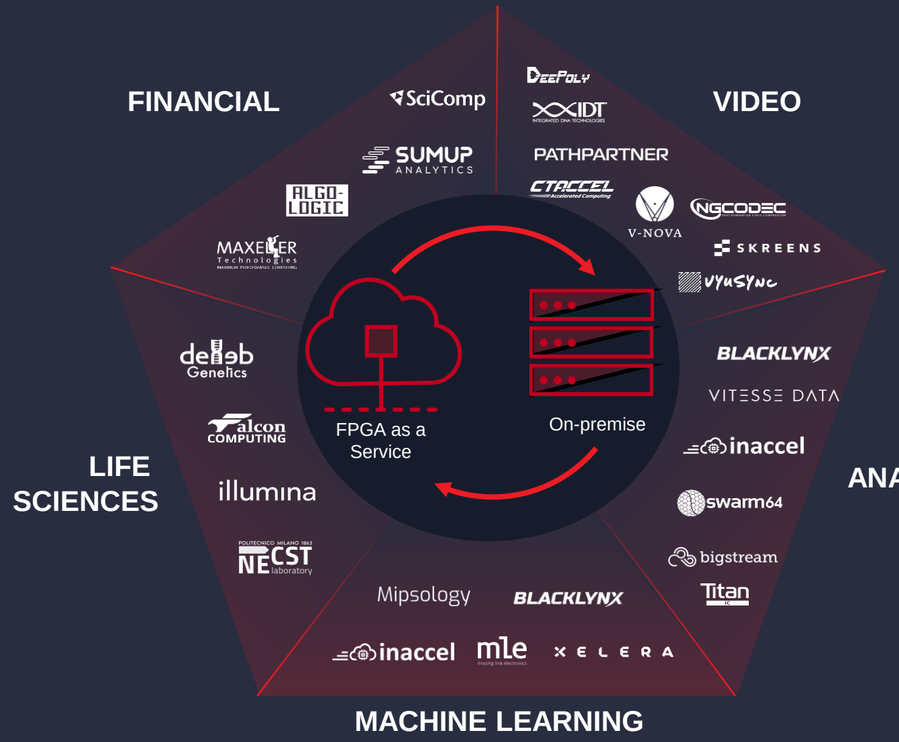
Host VM Specifications	NP10	NP20	NP40
CPU Cores	10	20	40
Local SSD Temp. Storage	0.7 TB	1.4 TB	2.8 TB
Host RAM	168 GB	336 GB	672 GB
Accelerators (U250s)	1	2	4

Data Center Ecosystem Growth

Alveo Ecosystem



ISV Ecosystem



7517
Companies and Academia

834
Accelerator Program

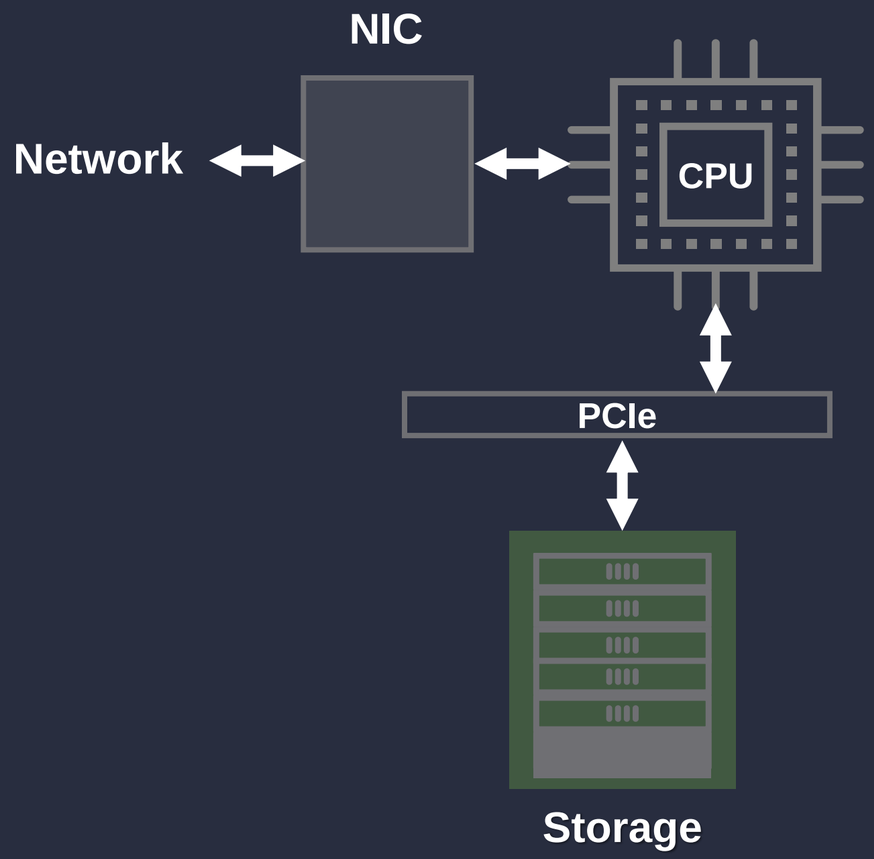
95
Published Apps

amadeus

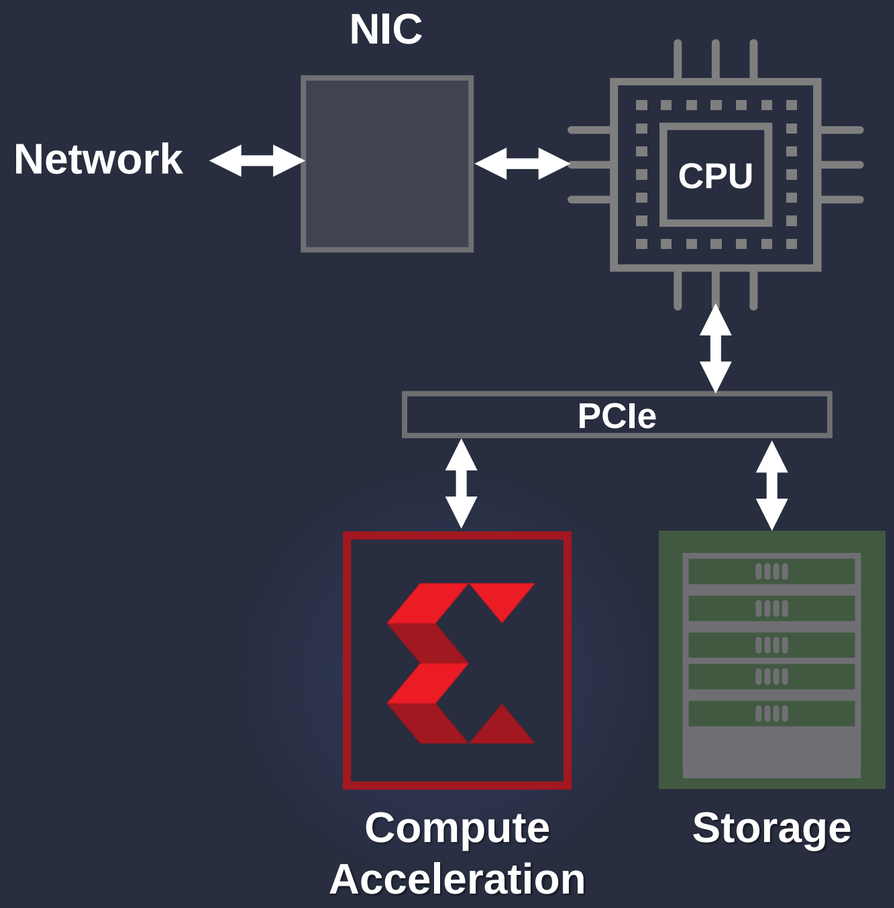
Pierre-Etienne Melet

Head of Horizon 3 Technologies,
Amadeus

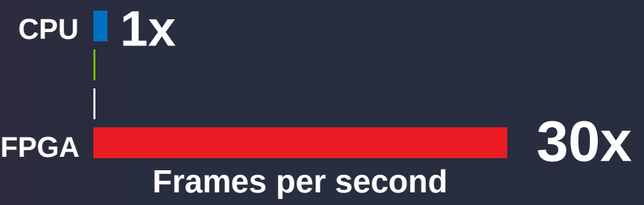
Xilinx in Compute Acceleration



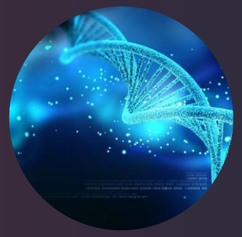
Xilinx in Compute Acceleration



twitch **Video Transcoding for VP9 Live Stream**

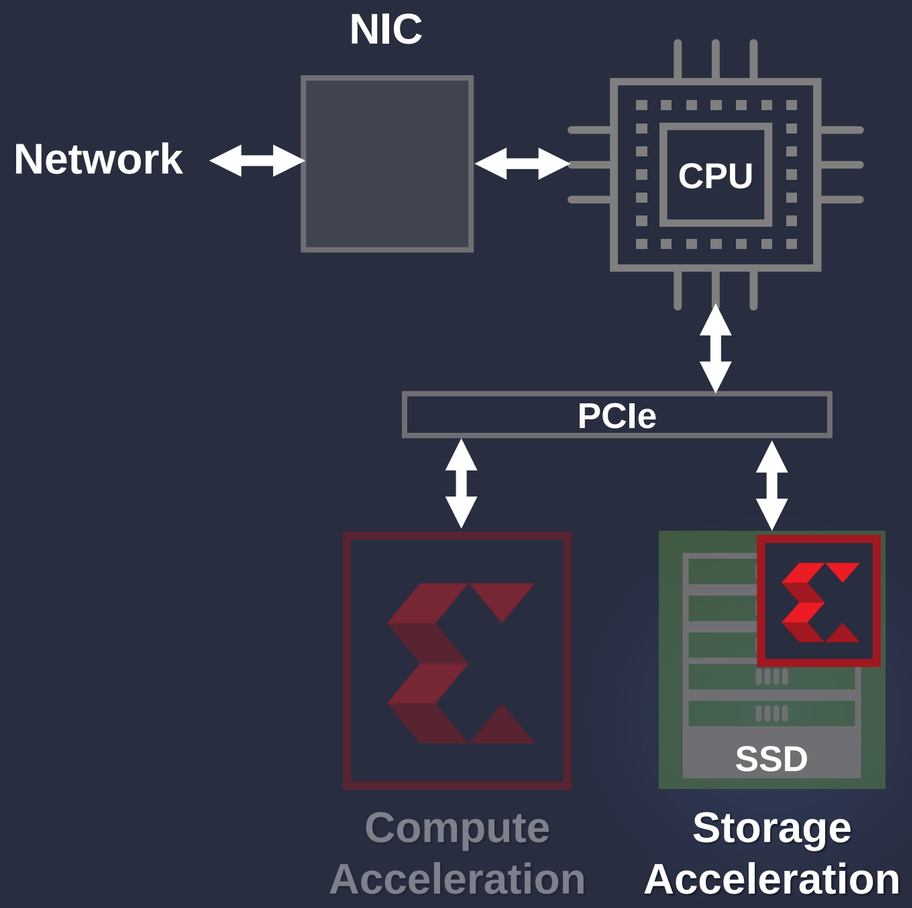


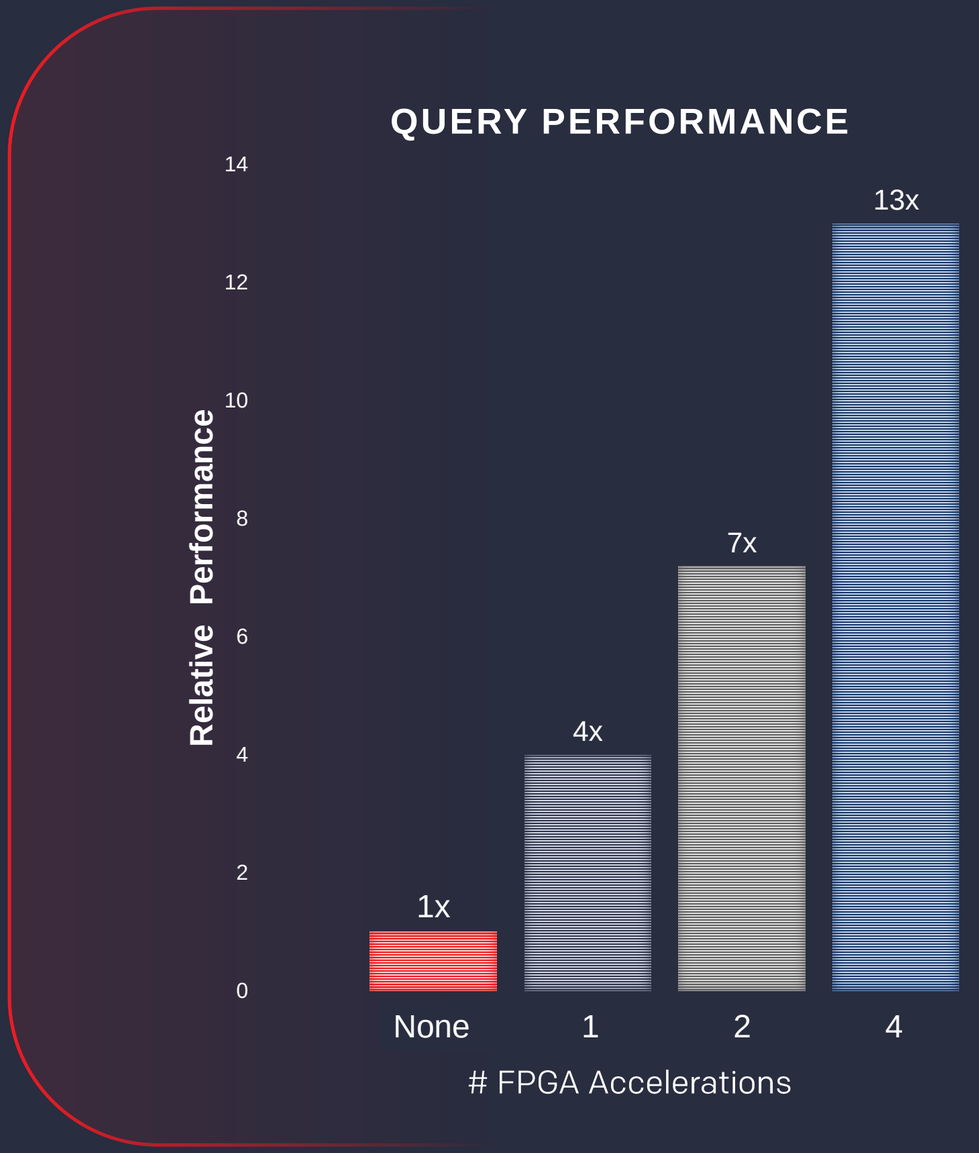
illumina **Genomic Data Analytics**



tend **Real-time AI Inference**

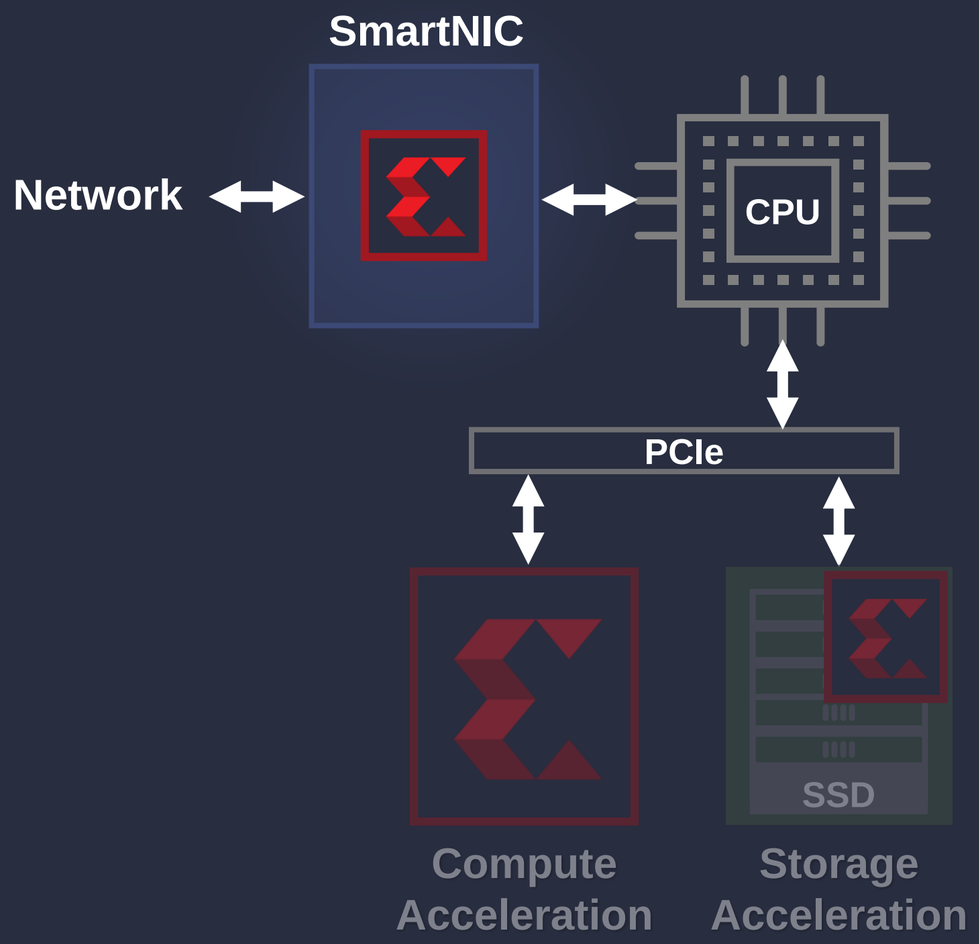
Xilinx Storage Acceleration





Server: Dual Socket Xeon E5-2697 (24 Cores) - Data-Plane: ~20 Mpps - # Cores Used: 10

Xilinx Network Acceleration

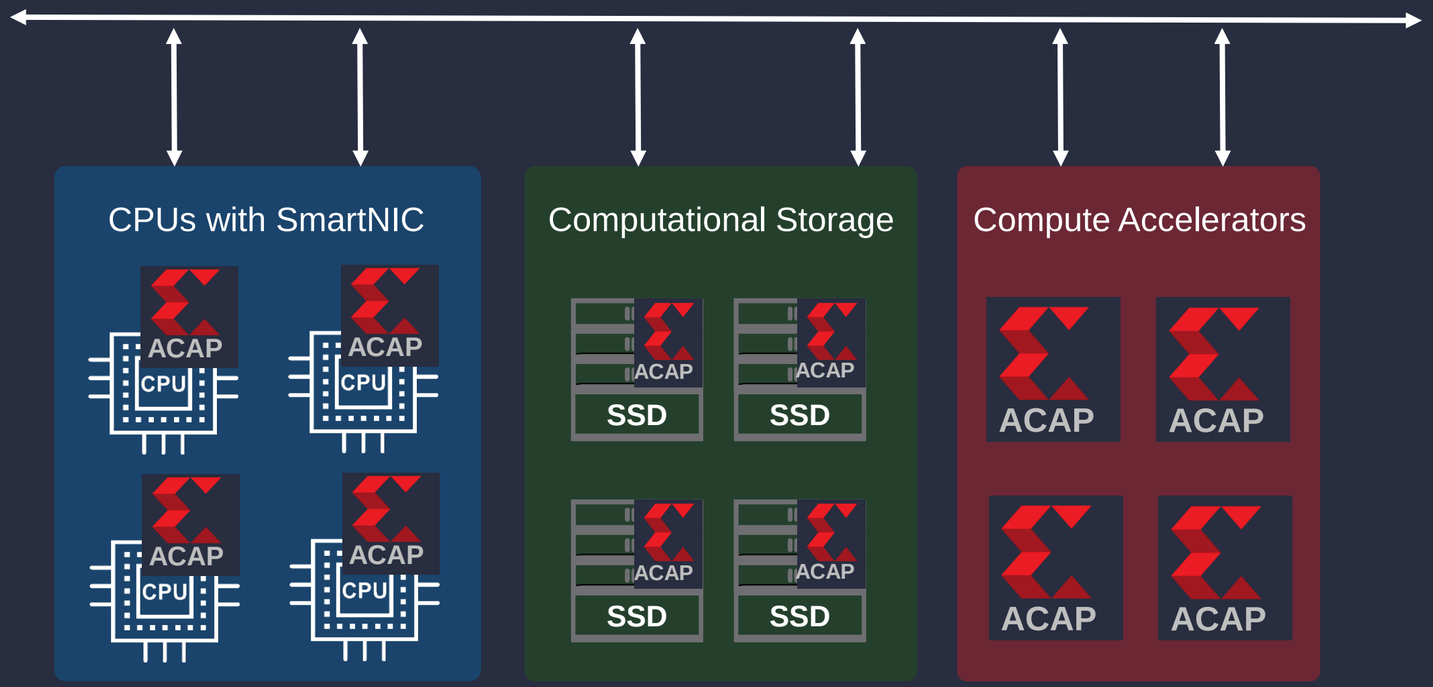


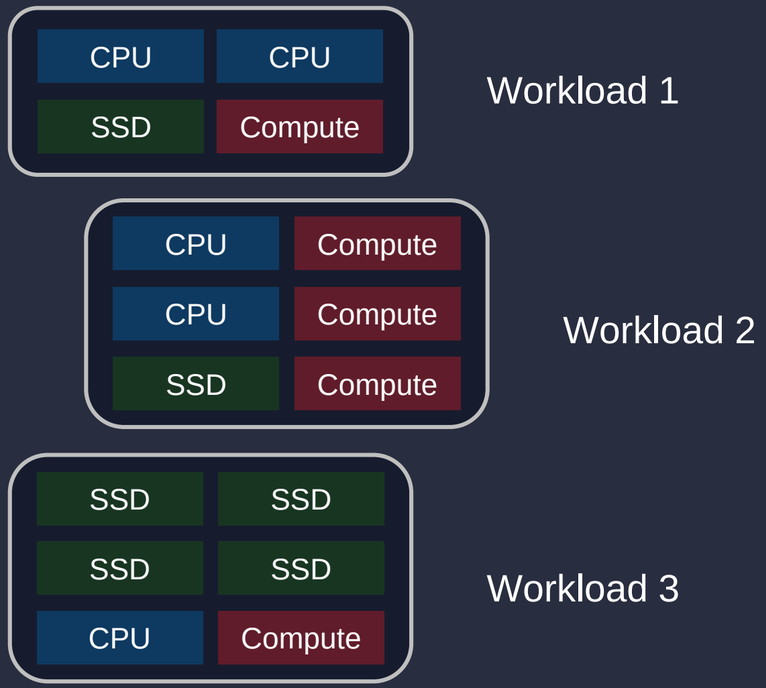
1.5x
CPU acceleration

3-6X
Packet processing throughput

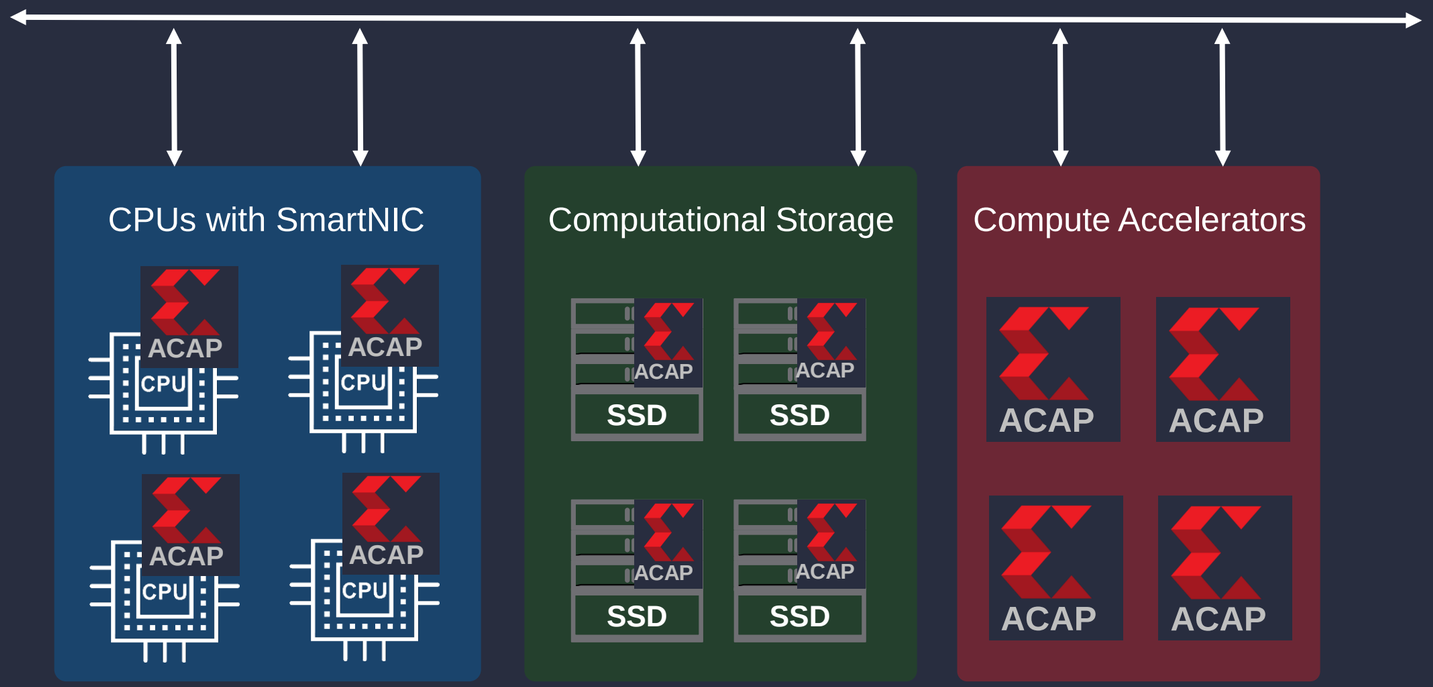
Server + FPGA (VU9P) - Data-Plane: ~100 Mpps - # Cores Used: 2

The Future Data Center: Distributed Adaptive Computing





Key Values of Distributed Adaptive Computing



Low Total
Cost of Ownership

High Performance
with Low Latency

Customization & Rapid Innovation
without New Silicon


Data Center First
Accelerate Core Markets
Drive Adaptive Computing

Accelerating Core Markets

Aerospace & Defense

ProAV & Broadcast

Automotive

Consumer

Industrial & Vision

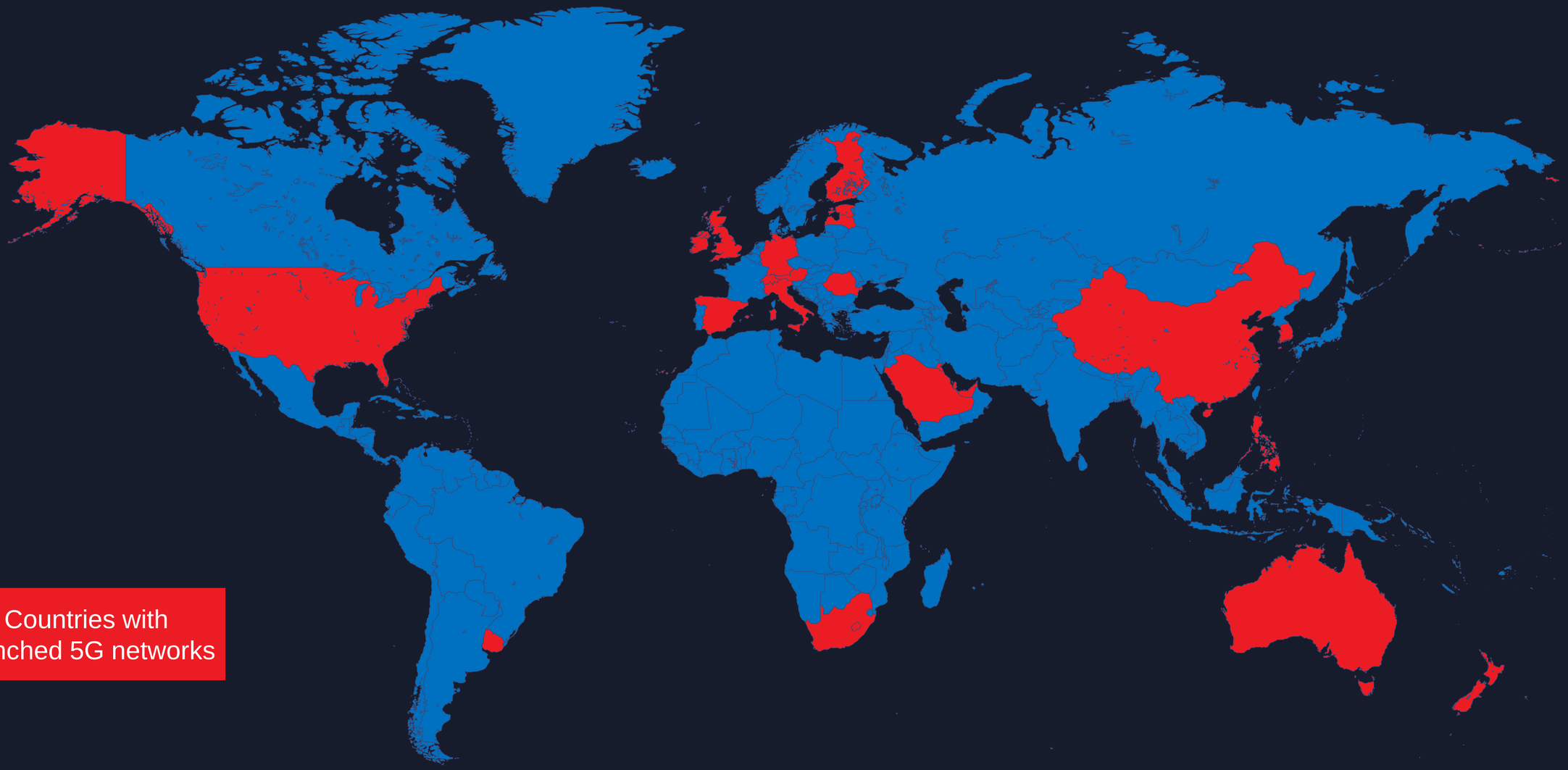
Healthcare & Sciences

Test & Measurement, and Emulation

Wired Communications

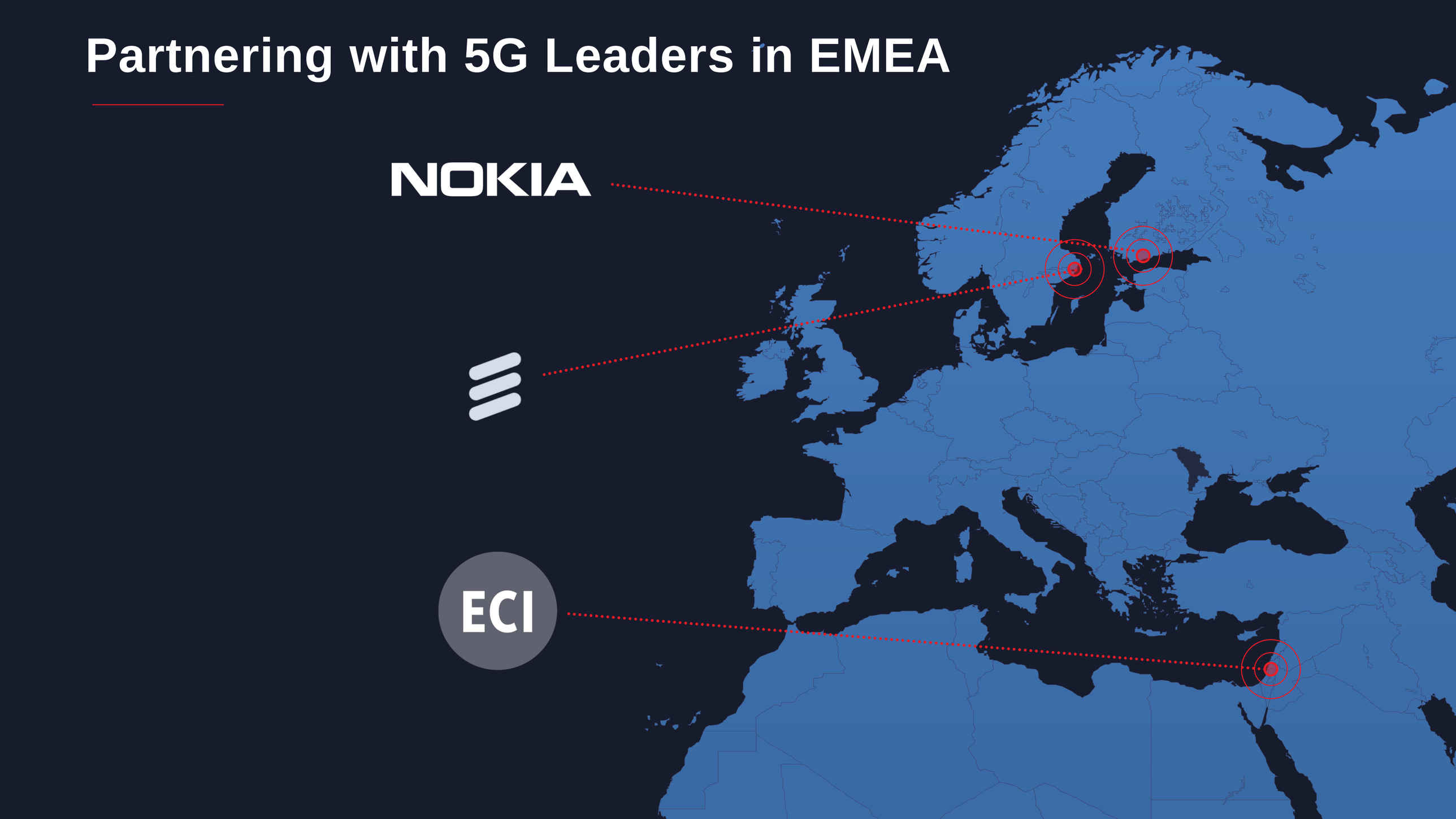
Wireless Communications

Driving Global 5G Deployment



Source: GSA 5G Market Snapshot, Oct 2019

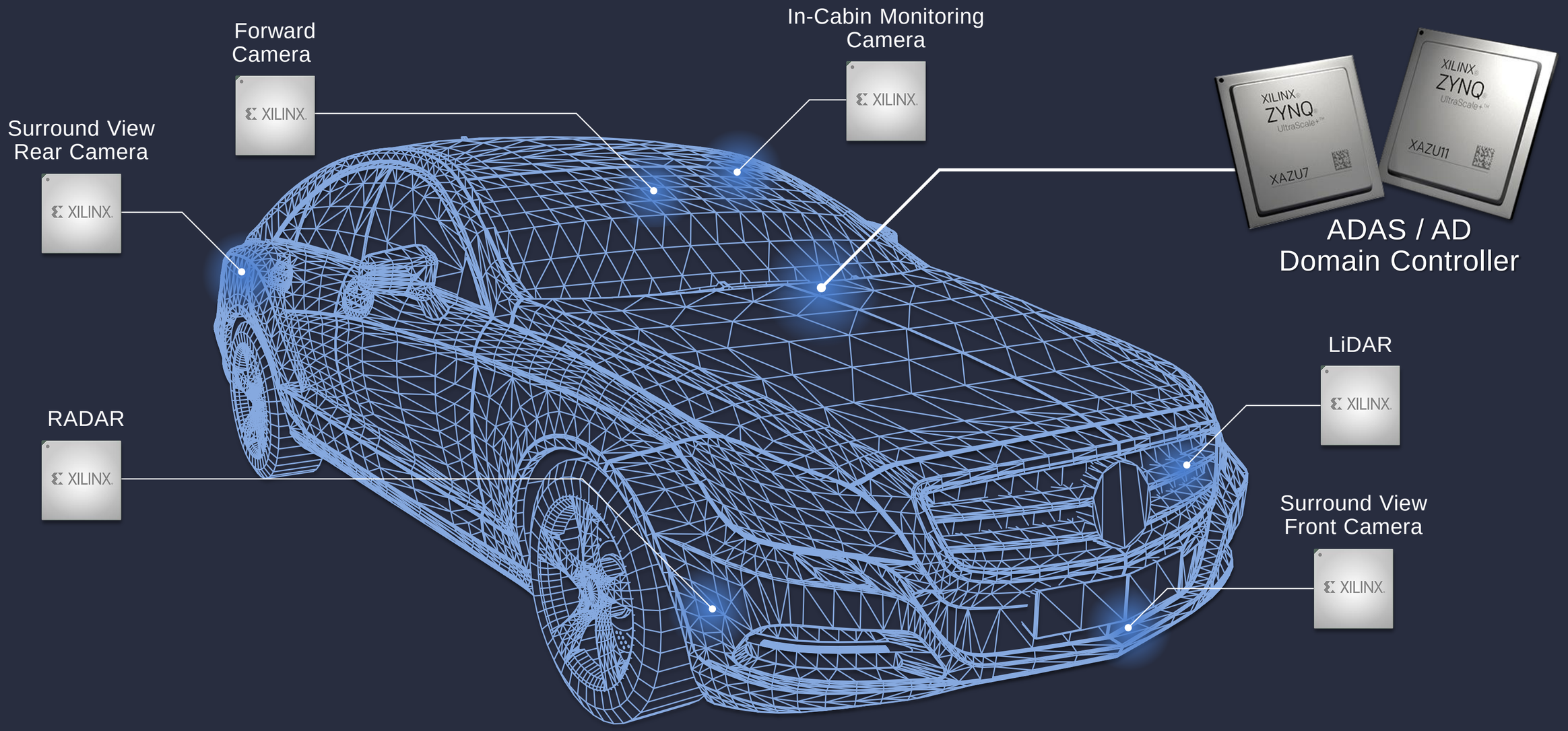
Partnering with 5G Leaders in EMEA



Announcing Two New Automotive Devices

- The world’s highest performance adaptive devices for advanced ADAS and AD applications
- Automotive-grade portfolio expanded to include devices with highest capacity, performance and I/O
- Scalable product family powering edge sensors to domain controllers
- Enables high-speed Data Aggregation, Pre-processing and Distribution as well as Compute Acceleration

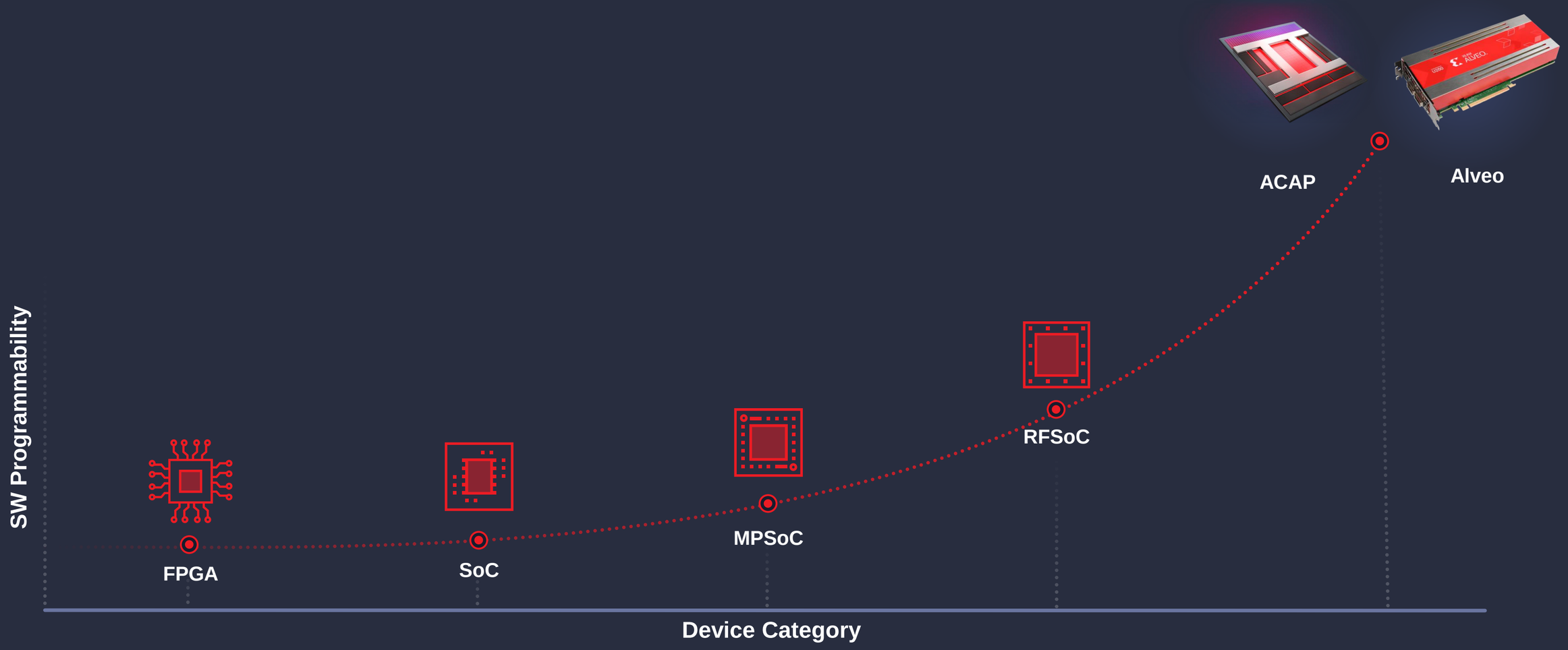
Automotive Solutions to Enable Autonomous Drive



Note: Not representing actual vehicle architecture

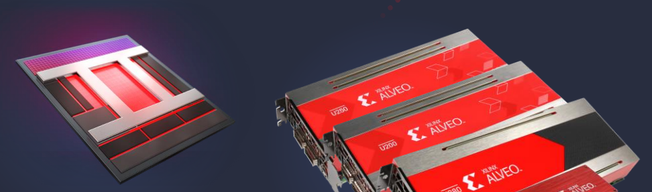

Data Center First
Accelerate Core Markets
Drive Adaptive Computing

Hardware Platform Transformation



Hardware Platform Transformation

Continuing Transformation

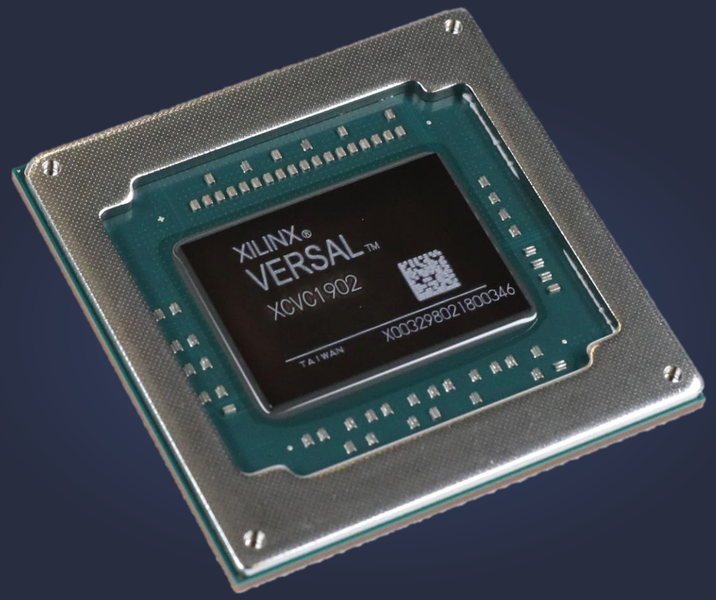


ACAP

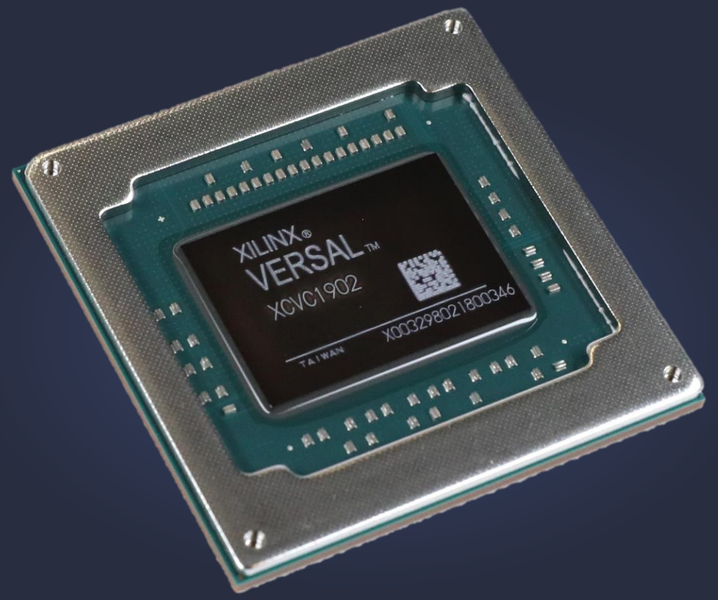
Alveo

RFSoC

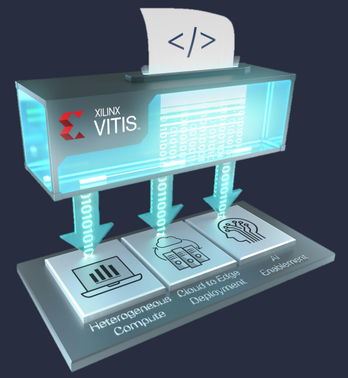
XILINX®
VERSAL™



XILINX®
VERSAL™



Software Platform Transformation



Vitis Unified Software Platform

SW Productivity

Vivado

OS & Firmware SDK

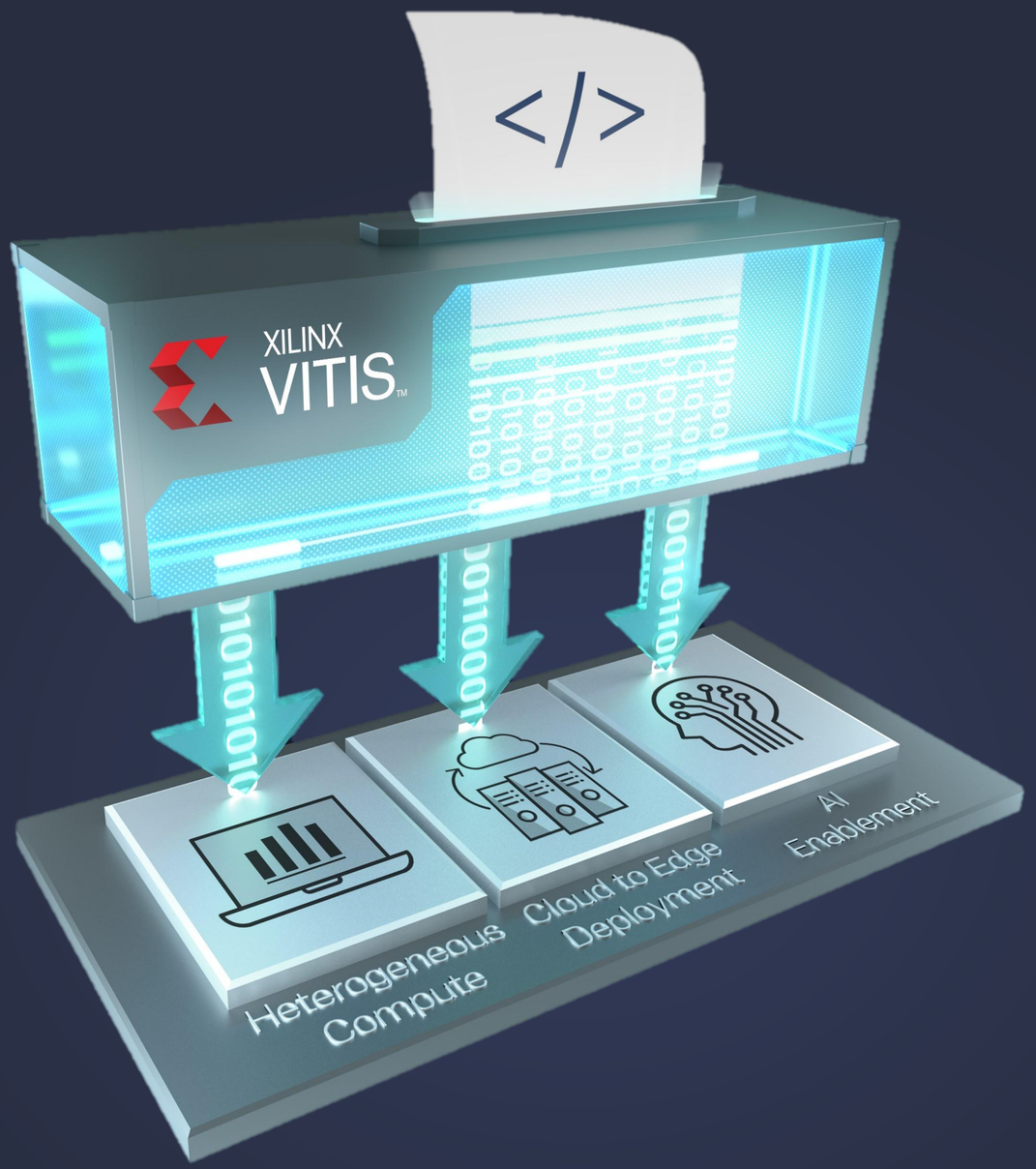
SDSoC, Embedded Applications

SDAccel, Data Center Platform (FaaS, Alveo)

AI Inference Acceleration

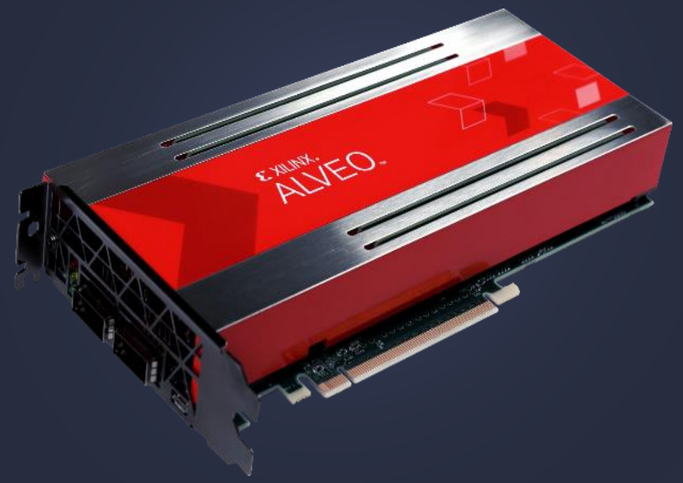
Unified Software Platform

- Heterogeneous
- Cloud to Edge
- Software & AI
- Available TODAY

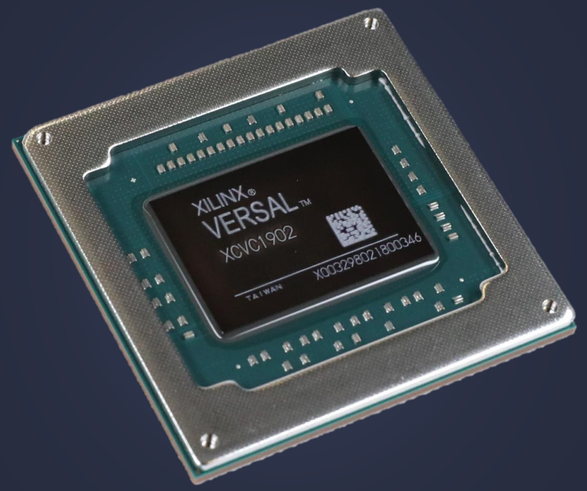


Platform Transformation Momentum

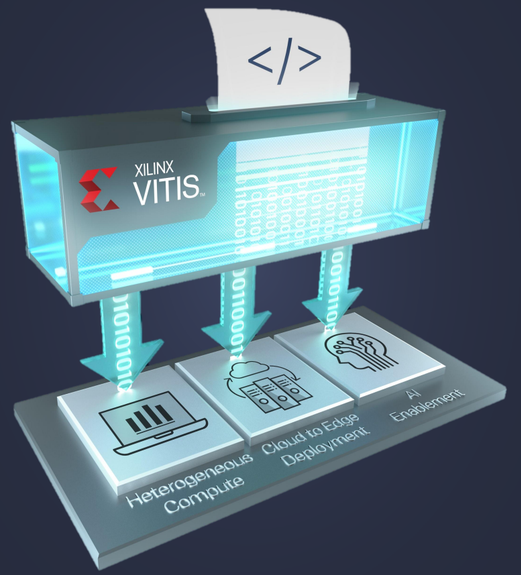
Alveo is here



Versal is here



Vitis is here



Empowering the Future

Mission

Building the Adaptable, Intelligent World