

An aerial, high-angle photograph of a city at night. The city is illuminated with a strong red glow, likely from streetlights or traffic lights. The buildings are dark, and the streets are filled with light trails from moving vehicles. The overall atmosphere is futuristic and dynamic.

Your Innovation Powered by Xilinx

Victor Peng | CEO



Developers Like You



Strategy



**Accelerate Core
Markets**



**Data Center
First**



**Drive Adaptive
Computing**

Major Growth Drivers



Data Center



5G



Automotive

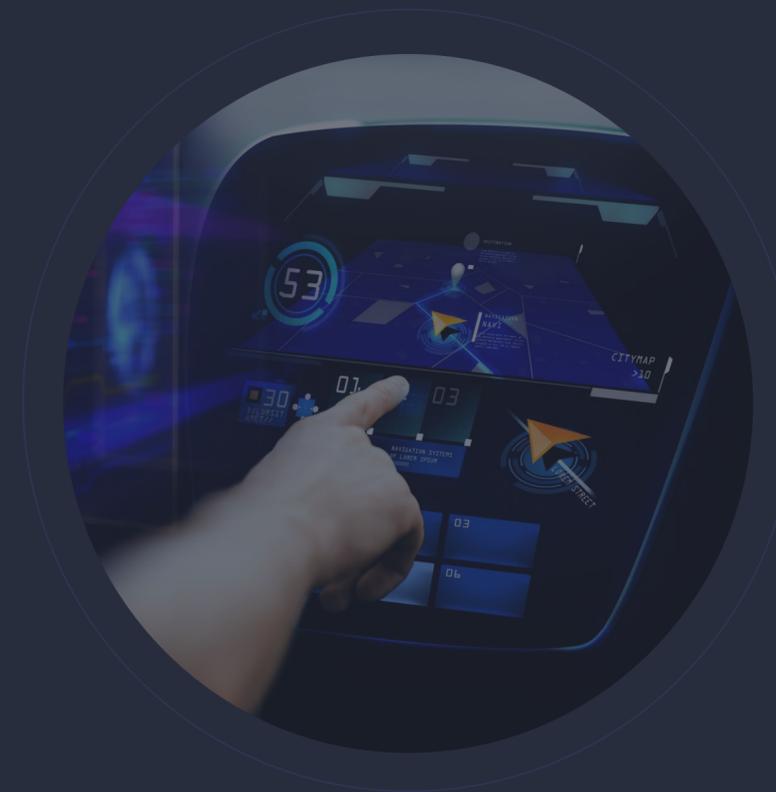
Major Growth Drivers



Data Center



5G



Automotive



The Samsung logo is displayed in a bold, white, sans-serif font. It is positioned on the left side of the image, which has a red background with a subtle geometric pattern of overlapping triangles. A diagonal line separates this red area from a dark blue area on the right.

SAMSUNG

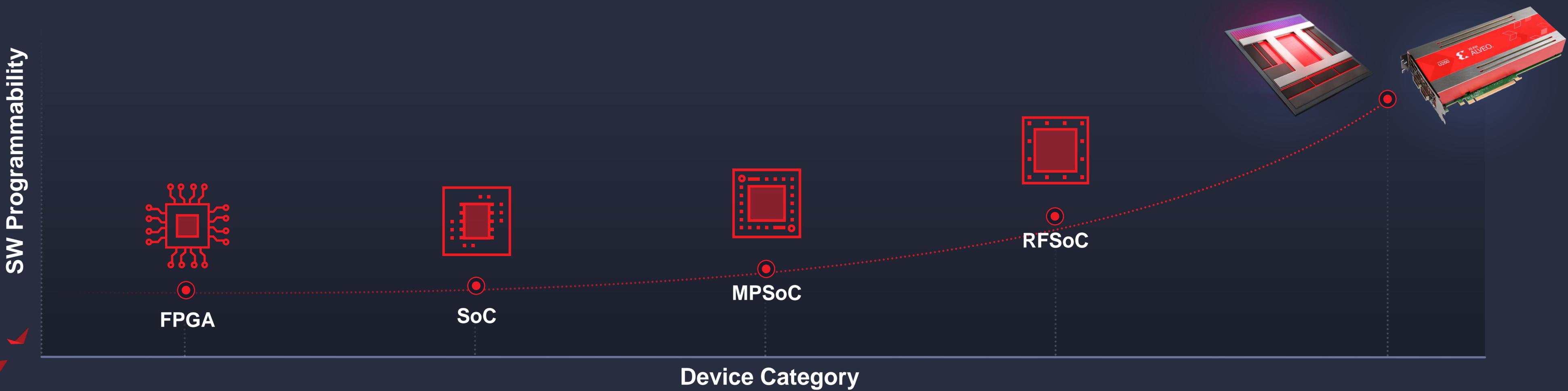
A trail of red paper airplanes is shown in the upper right quadrant of the dark blue background, flying from the bottom left towards the top right.

Wonil Roh, Ph.D.

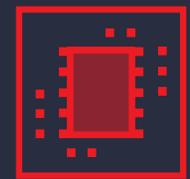
VP, Head of Product Strategy, Networks Business,
Samsung Electronics

A trail of red paper airplanes is shown in the lower left quadrant of the dark blue background, flying from the top left towards the bottom right.

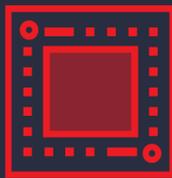
Platform Transformation – Hardware



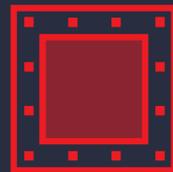
Platform Transformation – Hardware



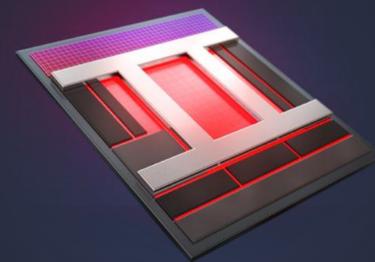
SoC



MPSoC

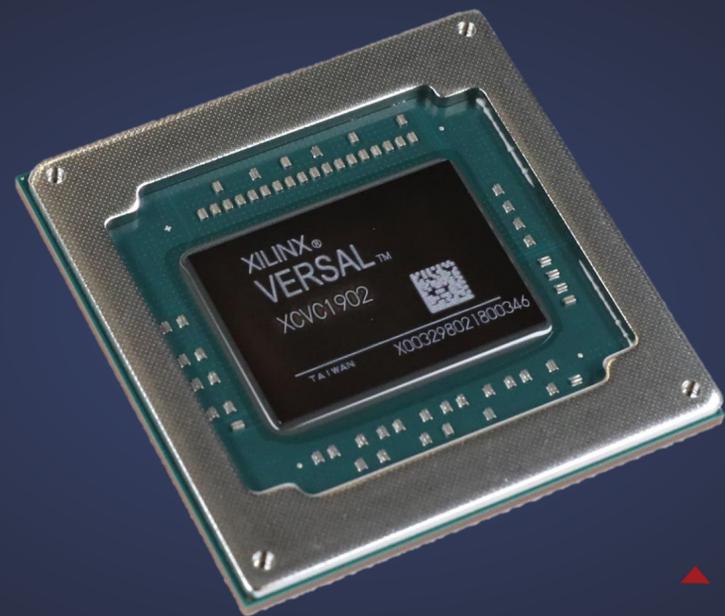


RFSoc



Continuing
Transformation





XILINX®
VERSAL™



Major Growth Drivers



Data Center



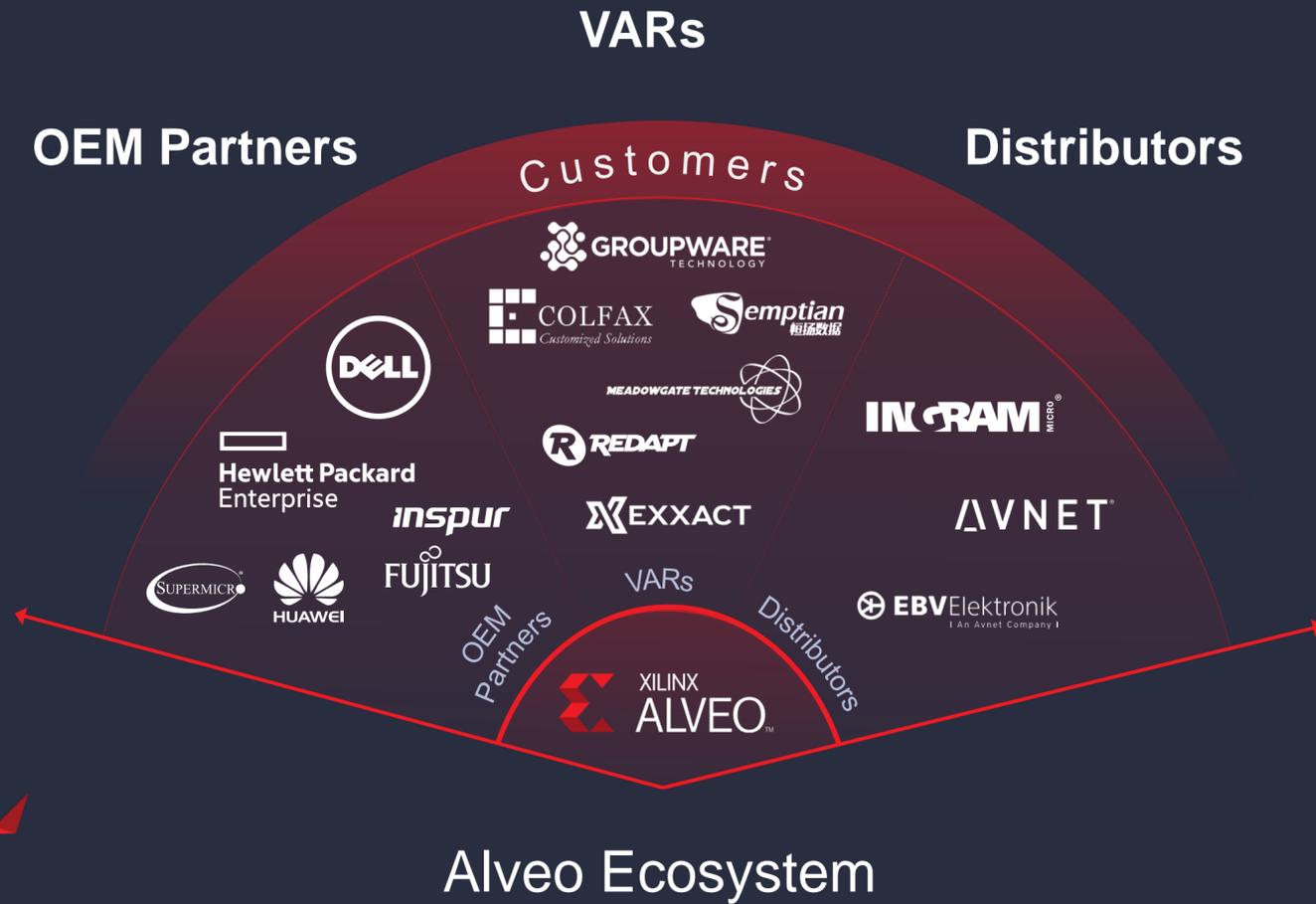
5G



Automotive



Data Center Ecosystem Growth



5815

Companies and Academia

725

Accelerator Program

85

Published Apps



Gadi Hutt

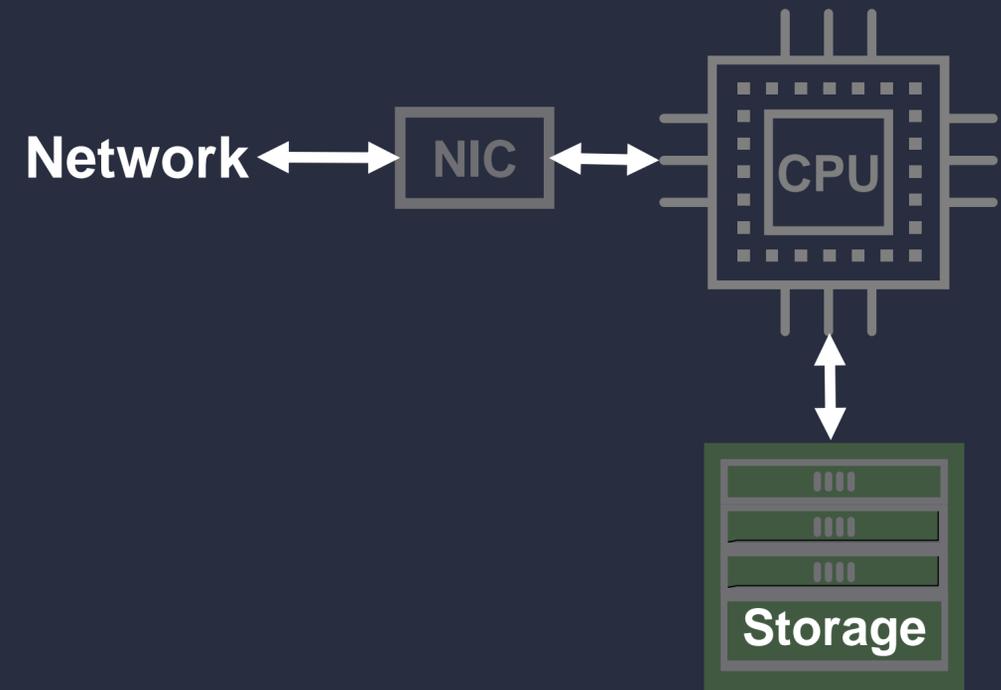
Senior Director,
Amazon Web Services

Vin Sharma

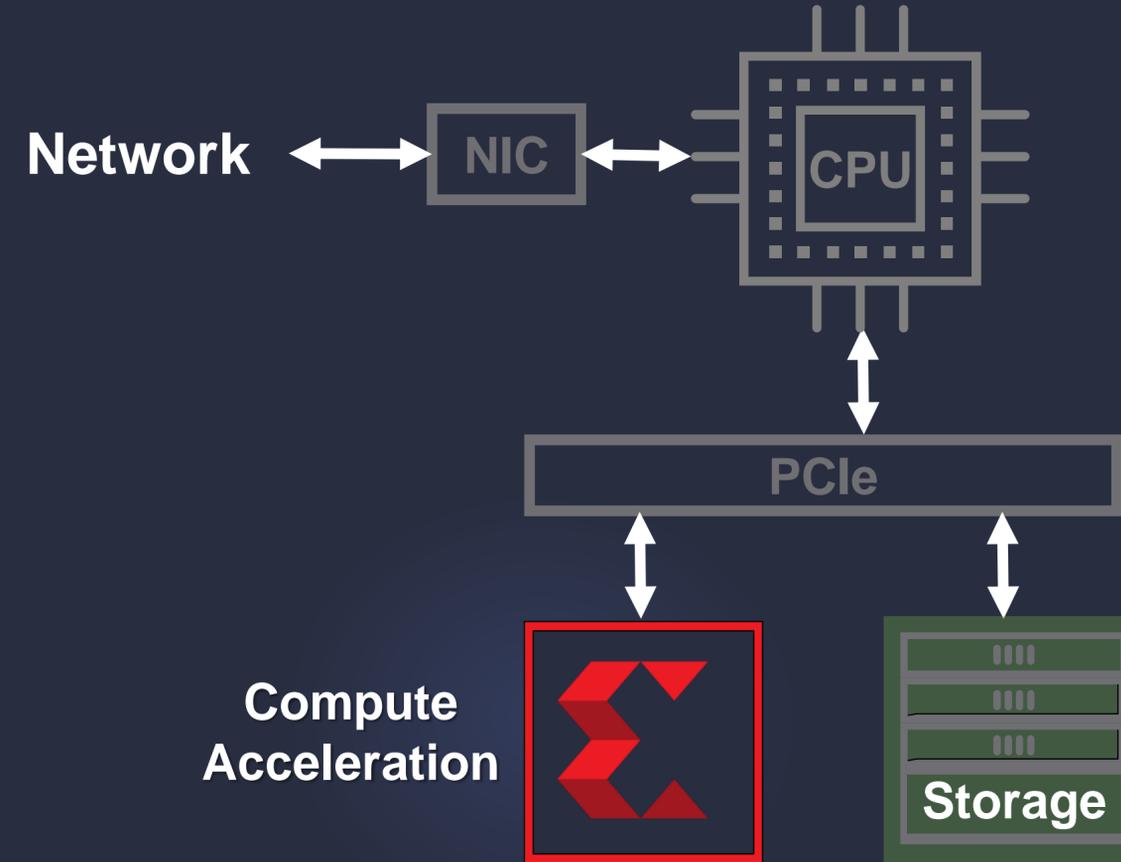
Head of Engineering,
Amazon Web Services

Xilinx in Compute Acceleration

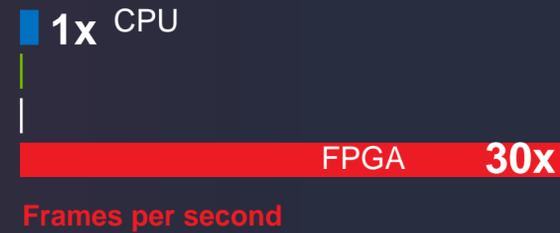
Traditional Computing



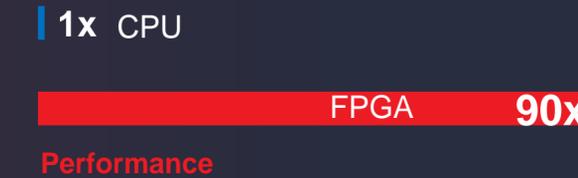
Xilinx Accelerated Computing



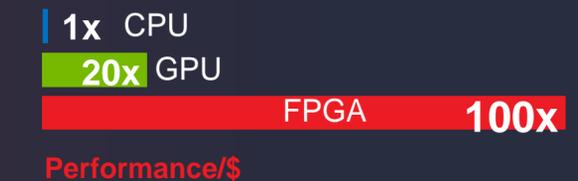
twitch Video Transcoding for VP9 Live Stream



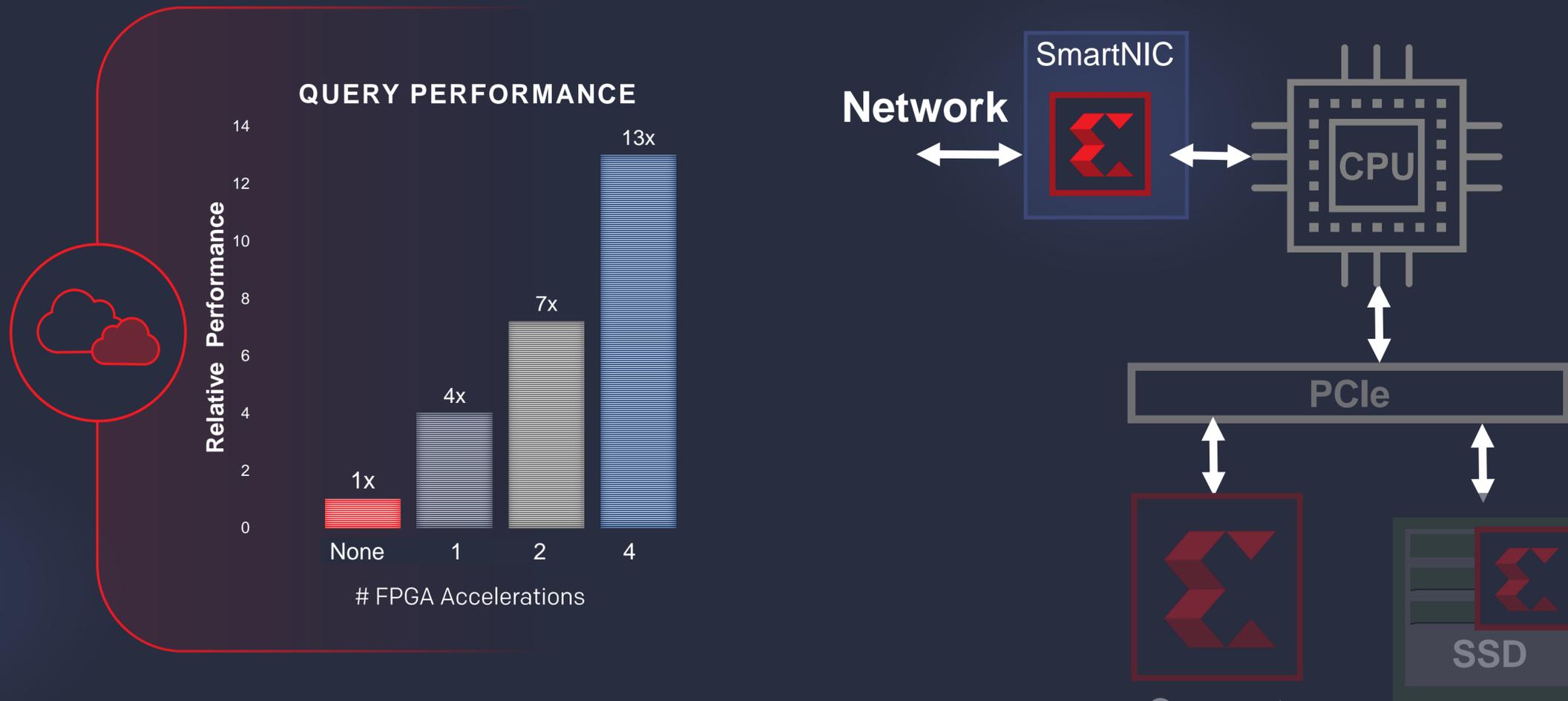
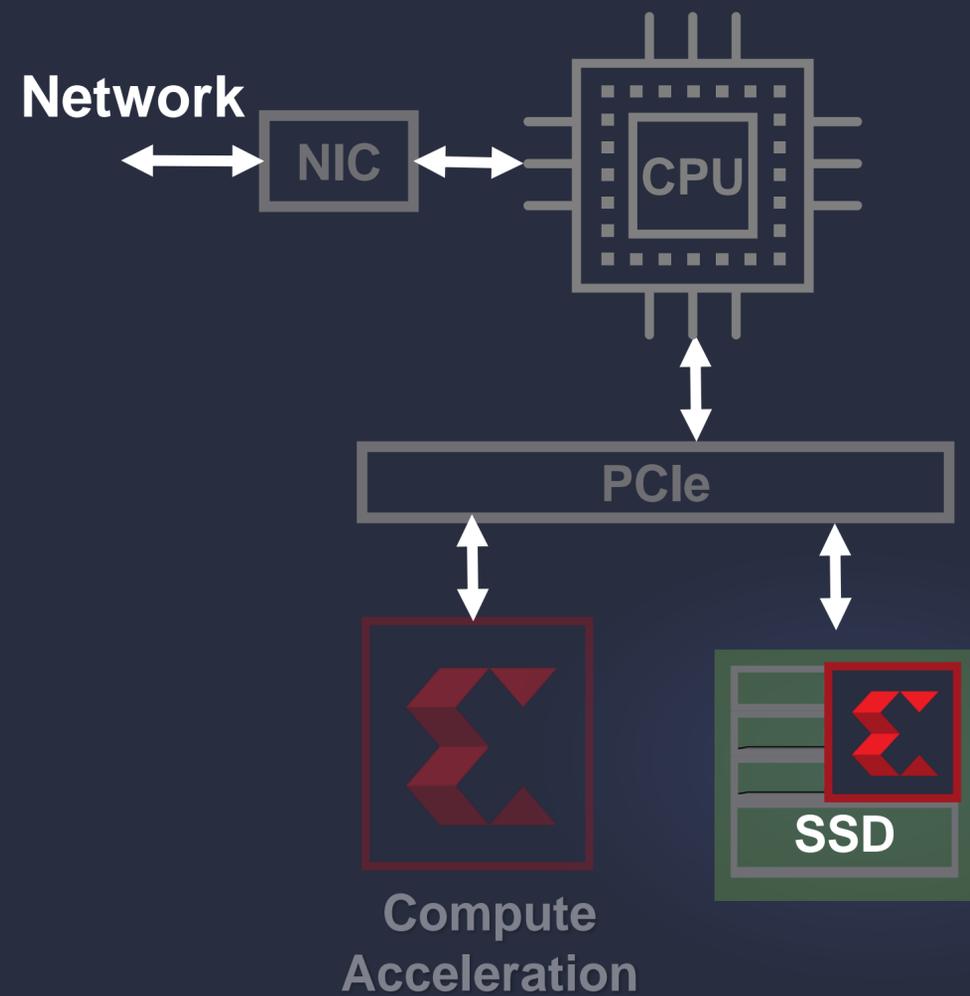
illumina Genomic Data Analytics



tend Real-time ML Inference



Xilinx Storage & Network Acceleration



CPU acceleration: 1.5x

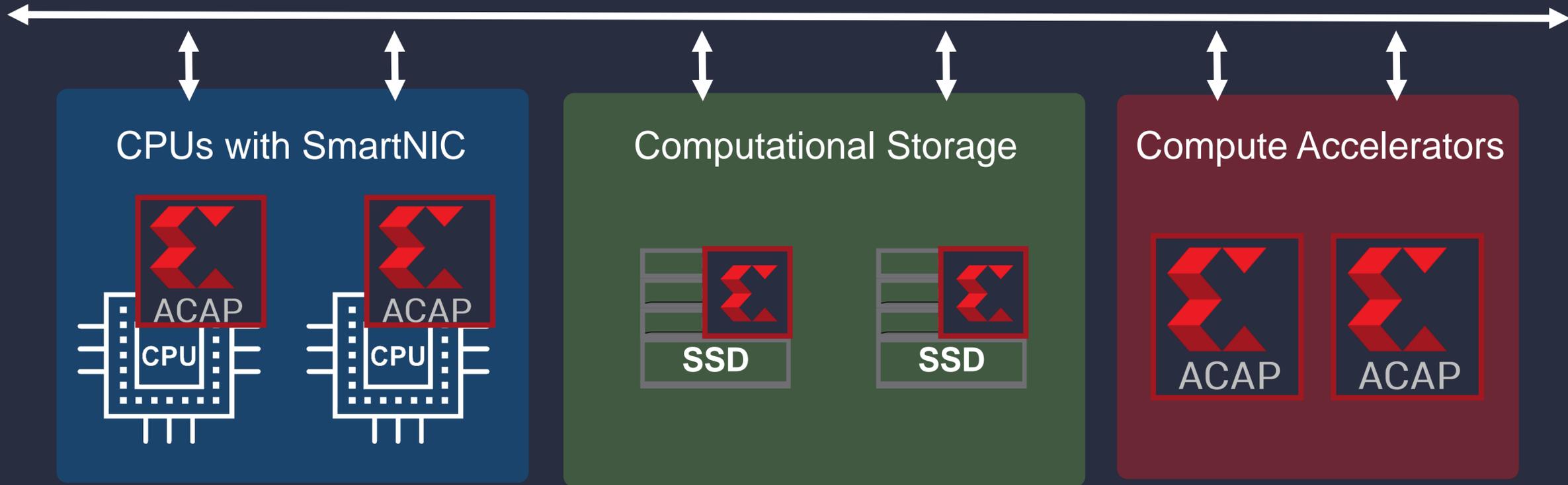
Packet processing throughput: 3-6X

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

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

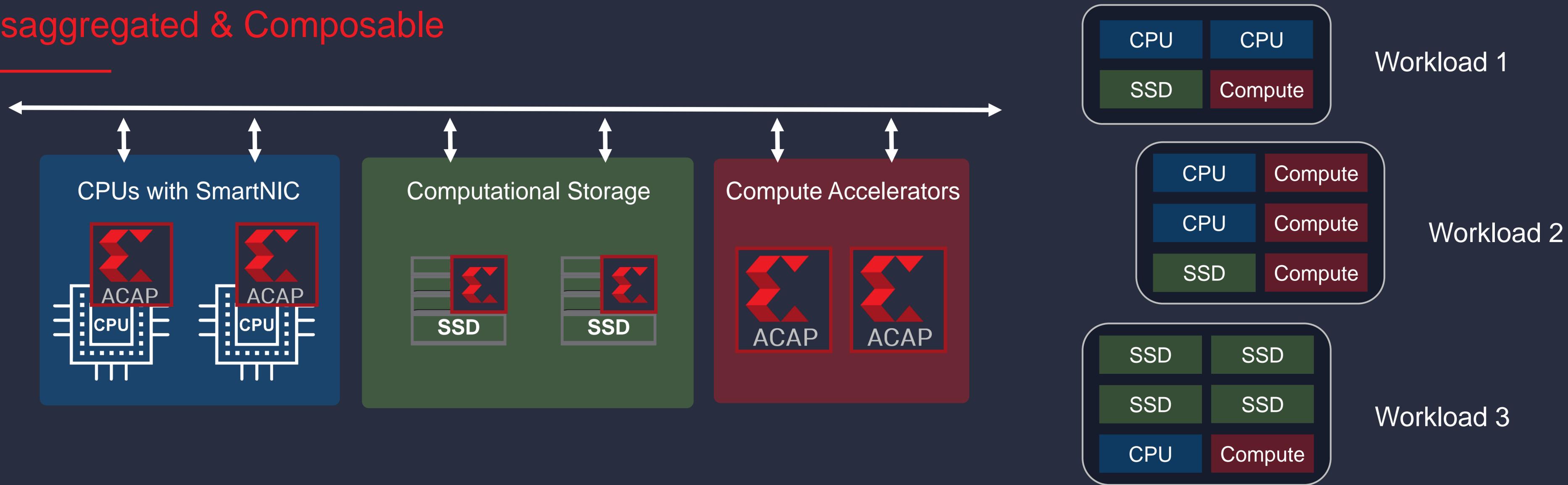
Future of Data Center: Distributed Adaptive Computing

Disaggregated & Composable



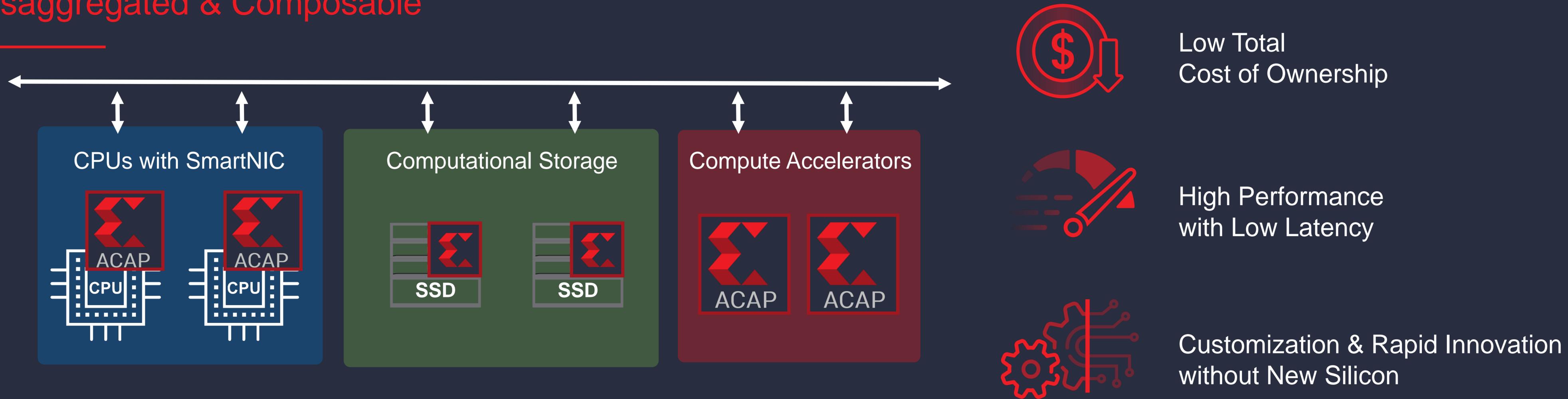
Future of Data Center: Distributed Adaptive Computing

Disaggregated & Composable



Future of Data Center: Distributed Adaptive Computing

Disaggregated & Composable





Microsoft

Melur Raghuraman

Distinguished Engineer,
Microsoft Azure

Platform Transformation - Software



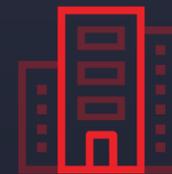
Vivado



OS & Firmware
SDK



SDSoC, Embedded
Applications



SDAccel, Data
Center Platform
(FaaS, Alveo)



AI Inference
Acceleration

Introducing Vitis Unified Software Platform

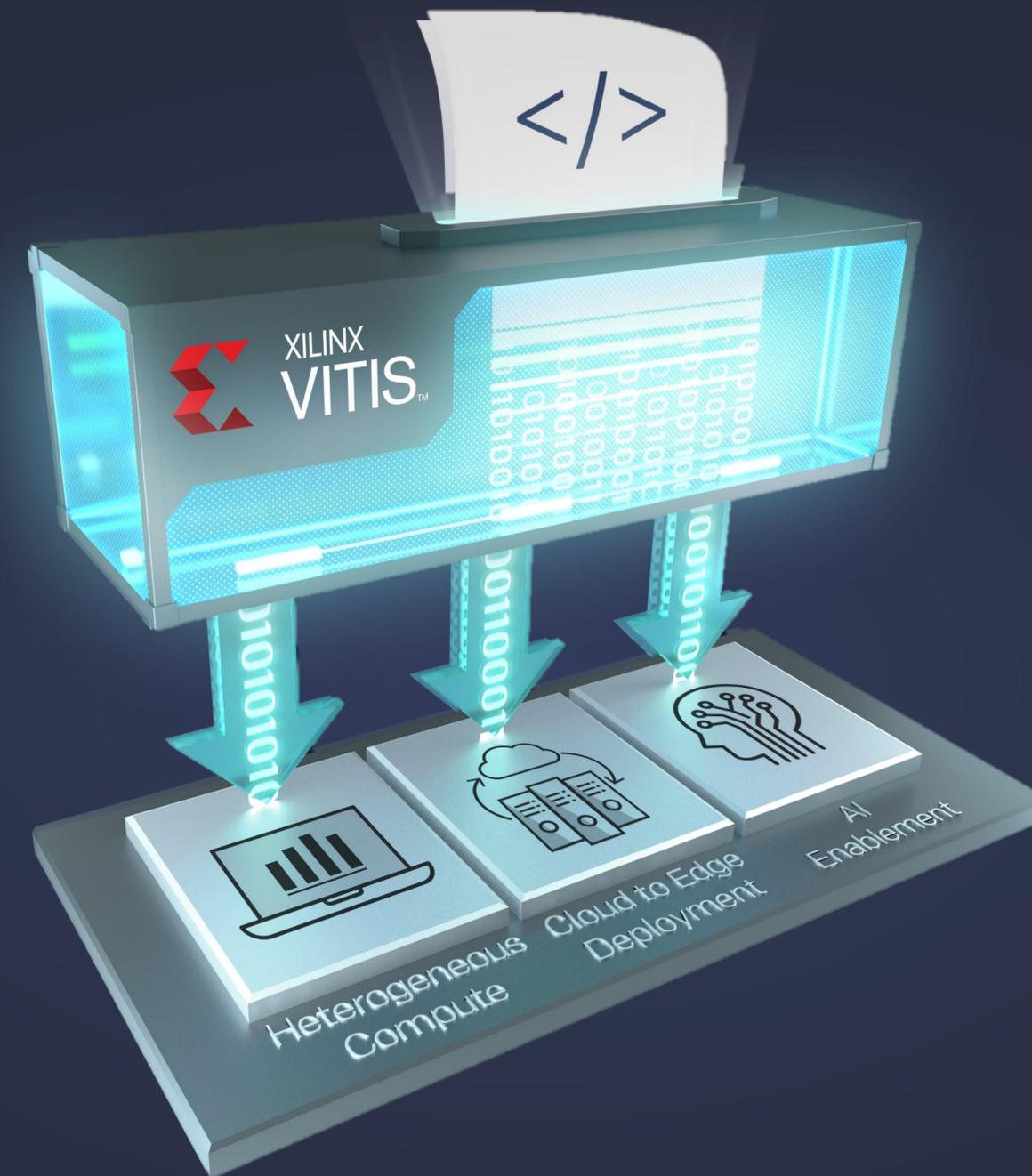


Unified Software Platform

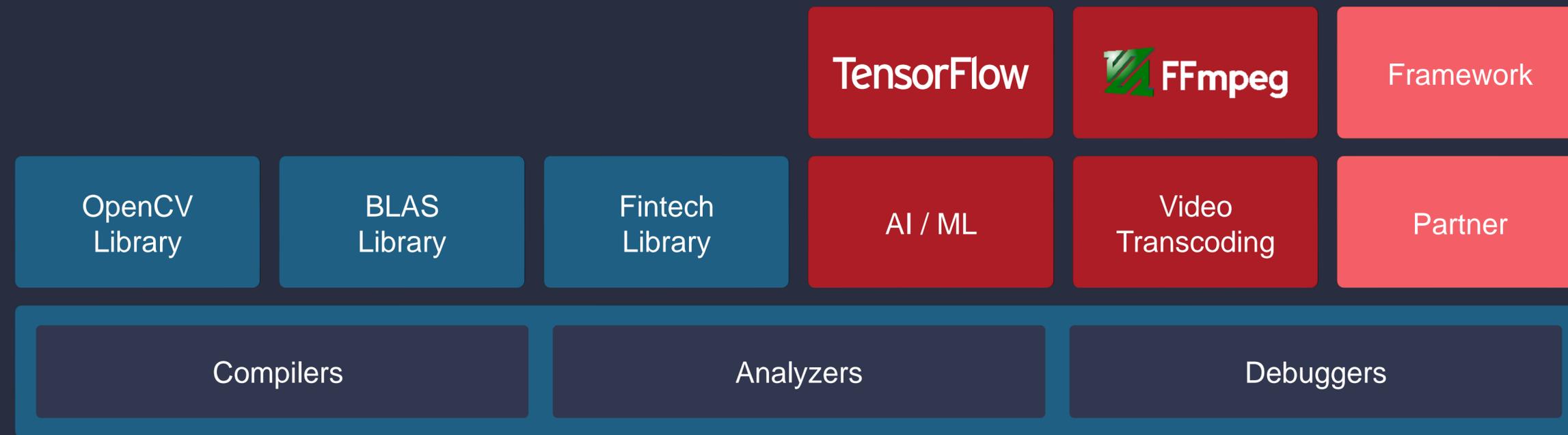
Heterogeneous

Edge to Cloud

Software & AI



Vitis: Unified Software Platform



FREE

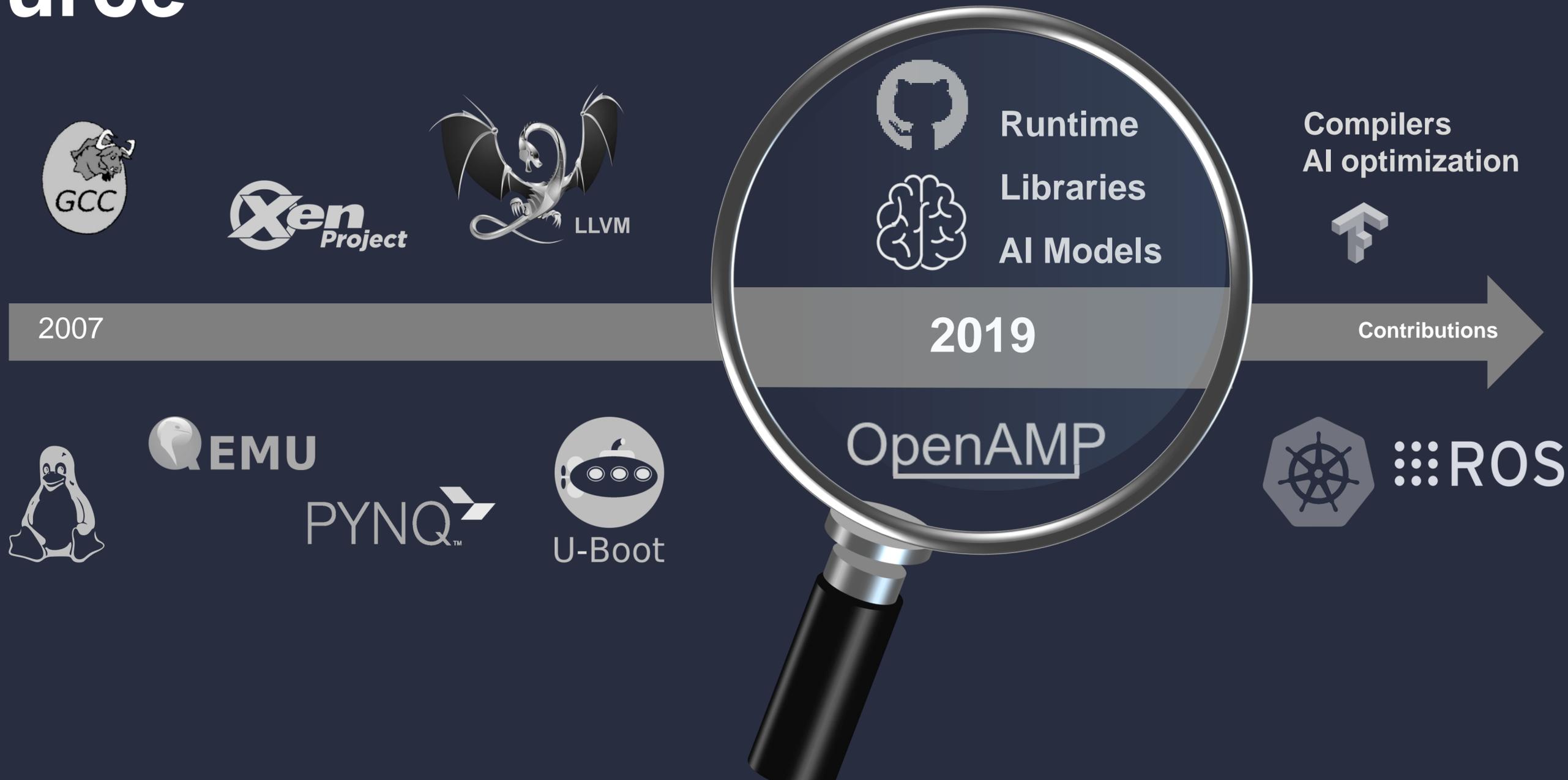


Committed to Open Source

| User Since 2001

| Contributor Since 2007

| Now Core to Xilinx Strategy



Major Growth Drivers



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Automotive



The Hitachi logo is displayed in a bold, white, sans-serif font. It is positioned on the left side of the image, which has a red background with a subtle geometric pattern of overlapping triangles.A graphic of several red paper airplanes flying in a line towards the top right corner of the image. The background is a dark blue-grey color with a subtle geometric pattern of overlapping triangles.

Hiroki Uchiyama

Vice President,
Hitachi Automotive Systems of the Americas

Empowering AI Scientists with Vitis AI

Frameworks

TensorFlow

Caffe

PyTorch

Vitis AI Models



Vitis AI Development Kit

AI Optimizer

AI Quantizer

AI Compiler

AI Profiler

Runtime Library

DSA

CNN

LSTM

MLP

The logo for Pony.ai, featuring the word "pony" in a lowercase, rounded, white font, followed by ".ai" in a smaller, lowercase, white font. The background is a dark red color with a subtle pattern of overlapping, semi-transparent red shapes.

pony.ai

The name "James Peng" in a bold, white, sans-serif font. The background is a dark blue color with a subtle pattern of overlapping, semi-transparent blue shapes.

James Peng

Co-Founder & CEO,
Pony.ai

Empowering the Future





Building the Adaptable, Intelligent World