Your Innovation Powered by Xilinx
赛灵思：创新的驱动力

Victor Peng | CEO 行政执行总裁

Question
问 题

Developers Like You
像你一样的开发者

Rapid Innovation
快速创新

Building the Adaptable, Intelligent World
打造灵活应变，万物智能的世界

Strategy
战 略


Data Center First
数据中心优先
Accelerate Core Markets
加速核心市场发展
Drive Adaptive Computing
驱动自适应计算

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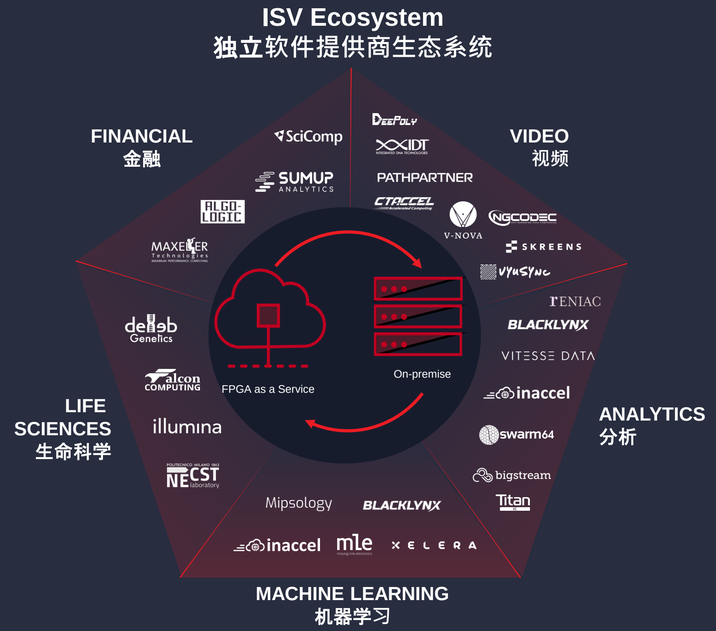
Data Center Ecosystem Growth
数据中心生态系统发展壮大



7517
Companies and Academia
企业与学术单位

834
Accelerator Program
加速器项目

95
Published Apps
已发布的应用

inspur | XILINX®

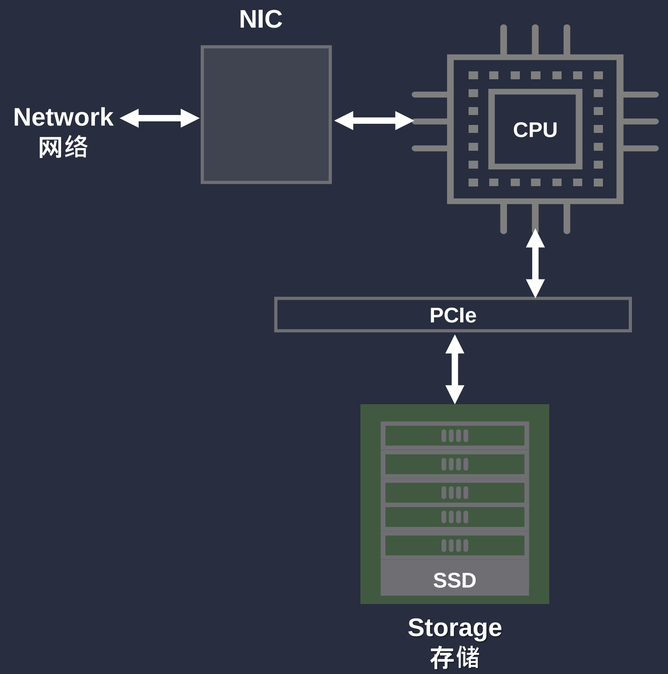
携手加速数据中心创新

Peter Peng 彭震

浪潮信息 CEO

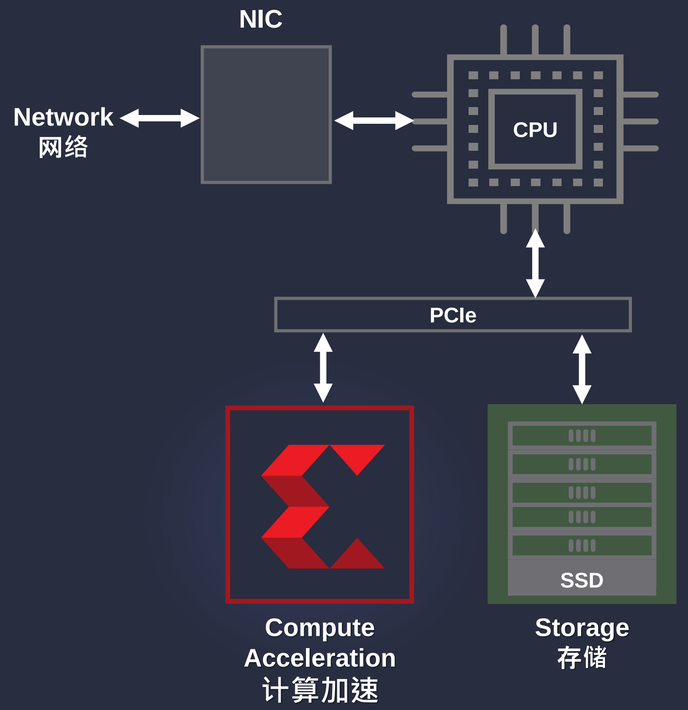
Xilinx in Compute Acceleration

赛灵思计算加速



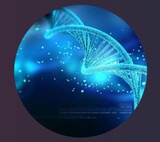
Xilinx in Compute Acceleration

赛灵思计算加速



illumina

Genomic Data Analytics
基因组数据分析



CPU 1x
FPGA 90x

Performance
性能

Aupera
Making Video Alive

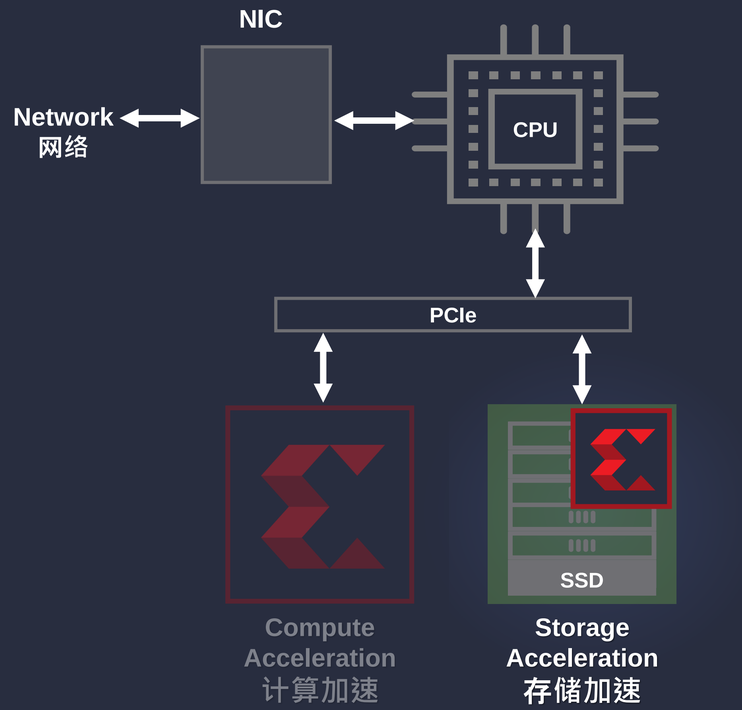
Online Video Processing
在线视频处理

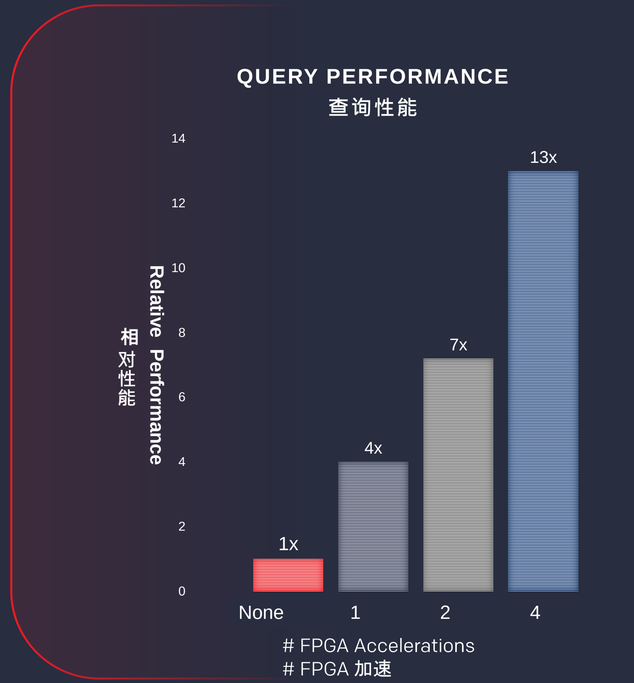
CPU 1x
FPGA 33x

Performance/Watt/Cost
每瓦性能成本

Xilinx in Storage Acceleration

赛灵思存储加速

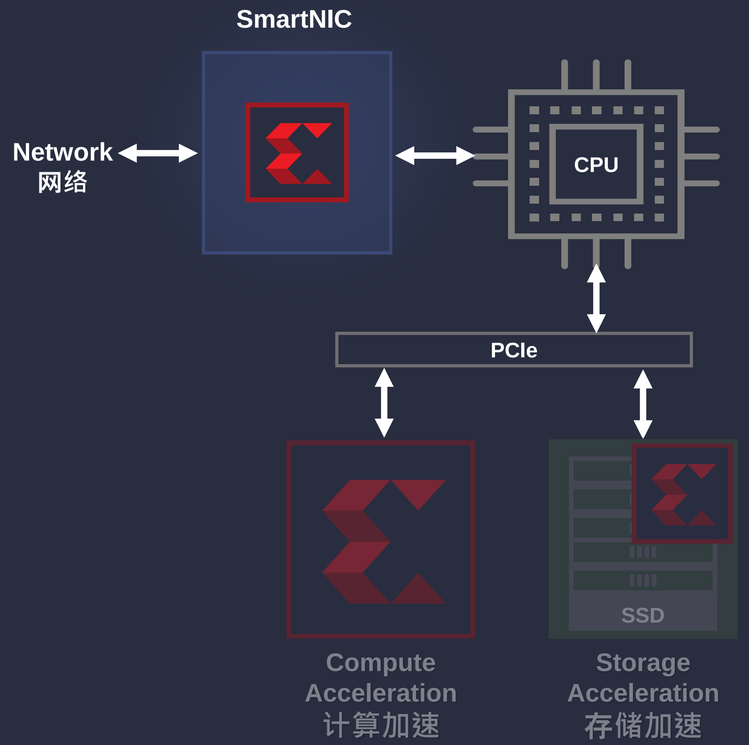




Server: Dual Socket Xeon E5-2697 (24 Cores) - Data-Plane: ~20 Mpps - # Cores Used: 10

Xilinx in Network Acceleration

赛灵思网络加速



1.5x
CPU Acceleration
CPU 加速

3-6X
Packet Processing Throughput
包处理吞吐量

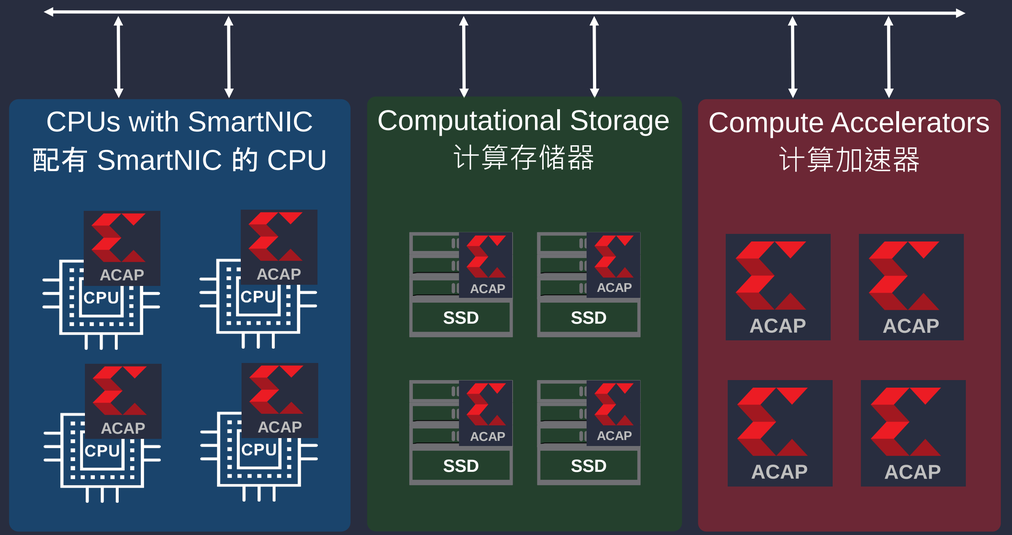
Server + FPGA (VU9P) - Data-Plane: ~100 Mpps - # Cores Used: 2

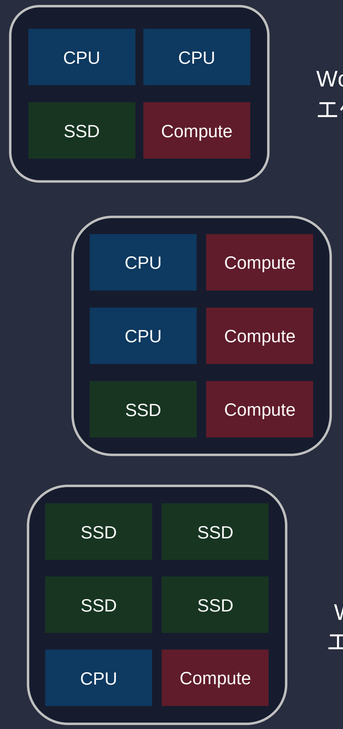
Data Center Future: Distributed Adaptive Computing

数据中心未来：分布式自适应计算

Disaggregated & Composable

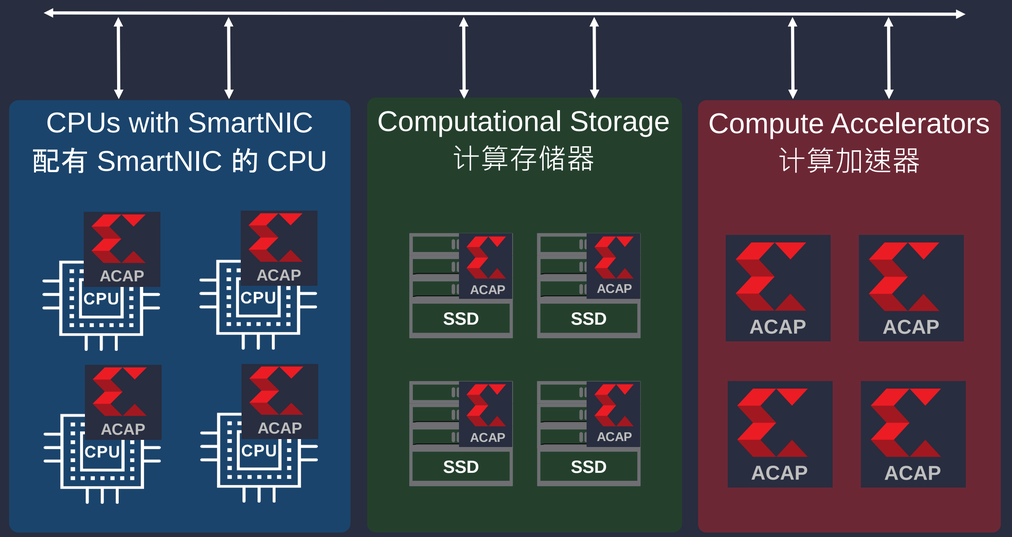
可分解和可组合





Key Values of Distributed Adaptive Computing

分布式自适应计算核心价值



Low Total Cost of Ownership
更低的总拥有成本（TCO）

High Performance with Low Latency
高性能与低时延

Customization & Rapid Innovation without New Silicon
无需更新芯片即可定制化和快速创新

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Accelerating Core Markets

加速核心市场发展

Industrial & Vision
工业与视觉

Pro AV & Broadcast
专业 A/V 与广播

Automotive
汽车

Consumer
消费领域

Healthcare & Sciences
医疗与科学

Test & Measurement, and Emulation
测试测量与仿真

Wired Communications
有线通信

Wireless Communications
无线通信

Adaptive Devices: Broadly Used in Automotive

自适应器件：广泛应用于汽车

170M+ Devices Shipped

器件出货量达 1.7亿片以上

2018
29 Makes & 111 Models 29 个品牌 & 111 款车型

2017
26 Makes & 96 Models 26 个品牌 & 96 款车型

2016
23 Makes & 85 Models 23 个品牌 & 85 款车型

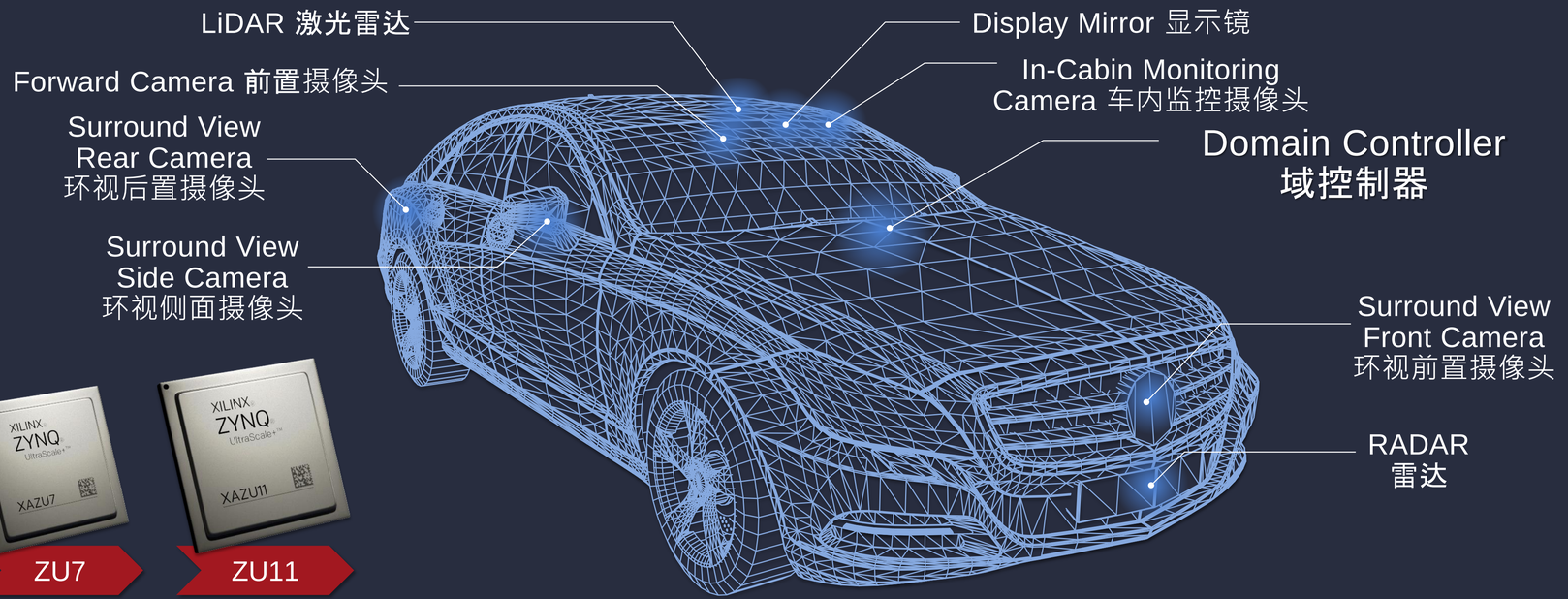
2015
19 Makes & 64 Models 19 个品牌 & 64 款车型

2014
14 Makes & 29 Models 14 个品牌 & 29 款车型

apollo BYD DAIMLER MAGNA ZF pony.ai

Enabling Automated Driving

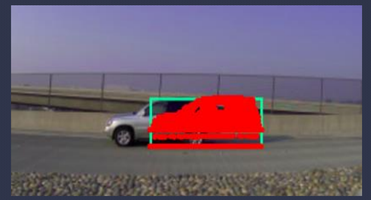
实现自动驾驶



Does not represent actual vehicle architecture

Automated Driving Example: Pony.ai
自动驾驶示例：小马智行 （Pony.ai）

Without FPGA Sensor Fusion
没有 FPGA 传感器融合



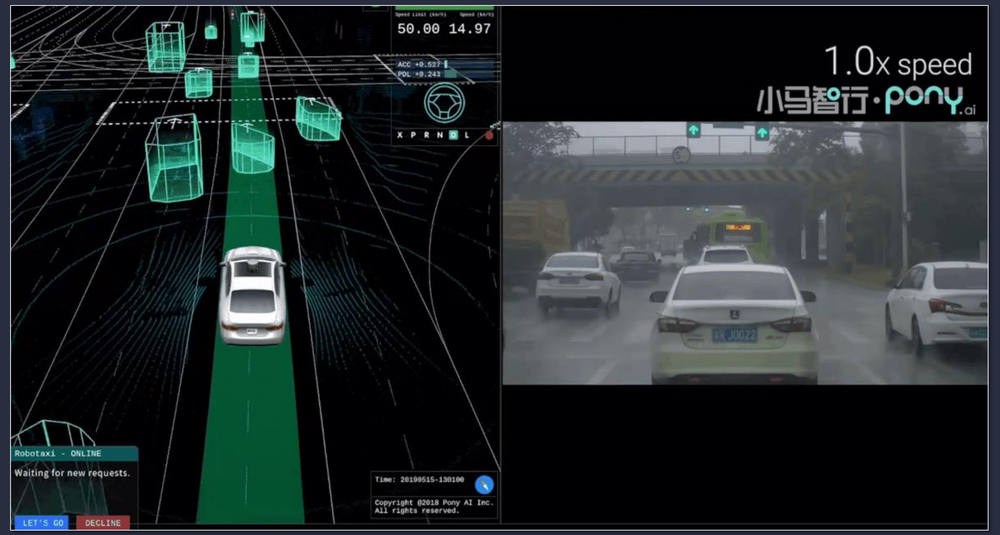
✗ Sensor Fusion Output Discrepancy by Nearly ½ Car Length

传感器融合输出差异接近 ½ 车长

With **Xilinx FPGA** Sensor Fusion
有赛灵思 FPGA 传感器融合

✔ No Discrepancy in Sensor Fusion Output

✔ 传感器输出完全吻合



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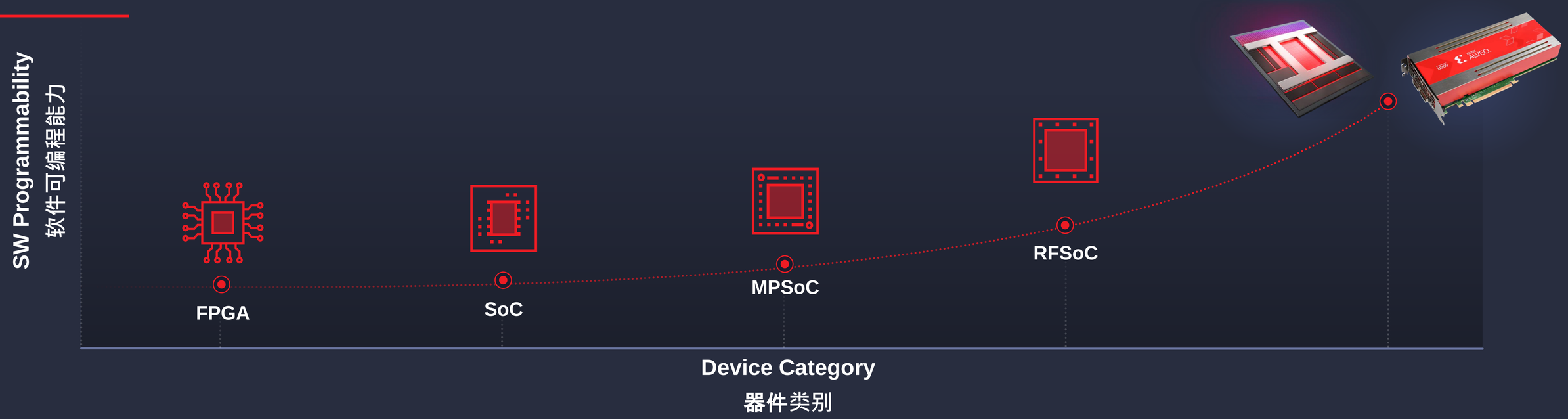
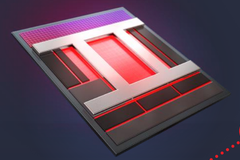
Platform Transformation – Hardware
平台转型之路 – 硬件



Platform Transformation – Hardware
平台转型之路 – 硬件

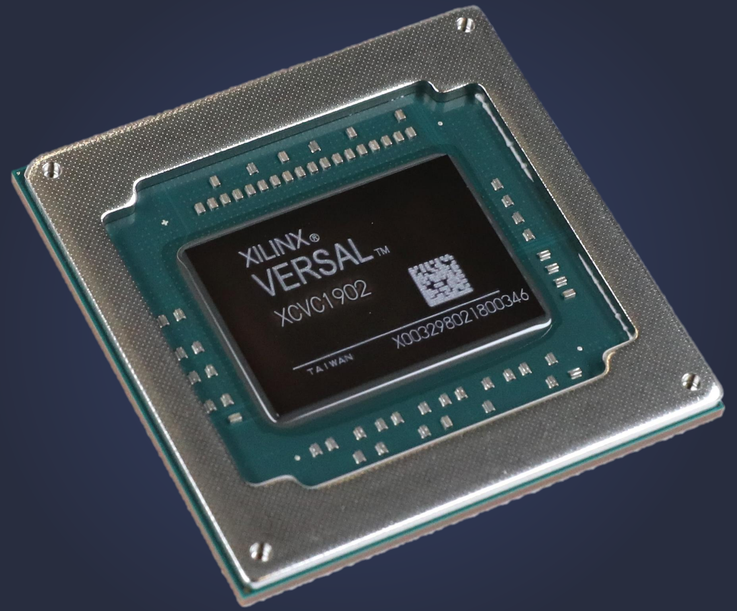
Continuing Transformation
持续转型



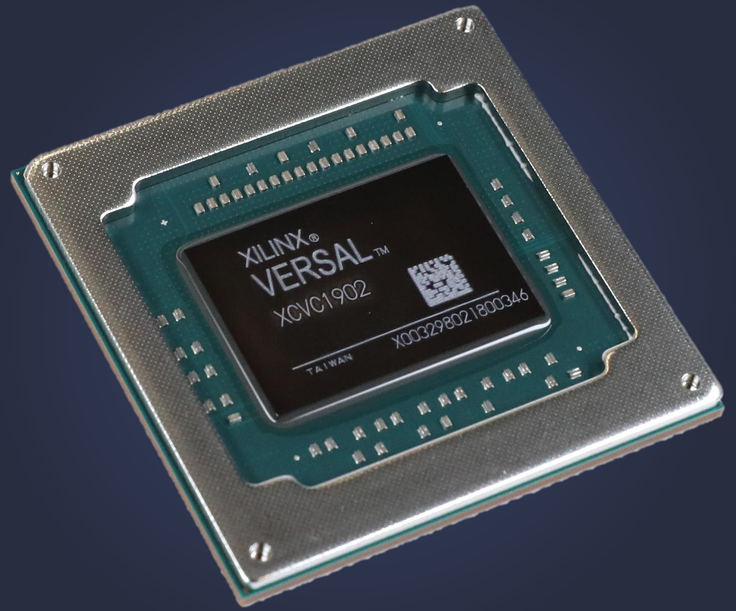
SoC

MPSoC

RFSoC

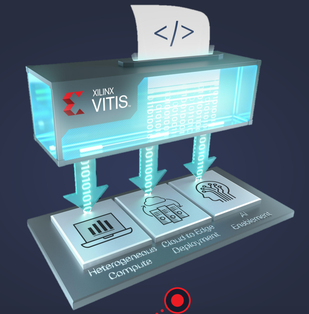


XILINX®
VERSAL™



XILINX®
VERSAL™

Platform Transformation – Software
平台转型之路 – 软件



Productivity
生产力

Vivado

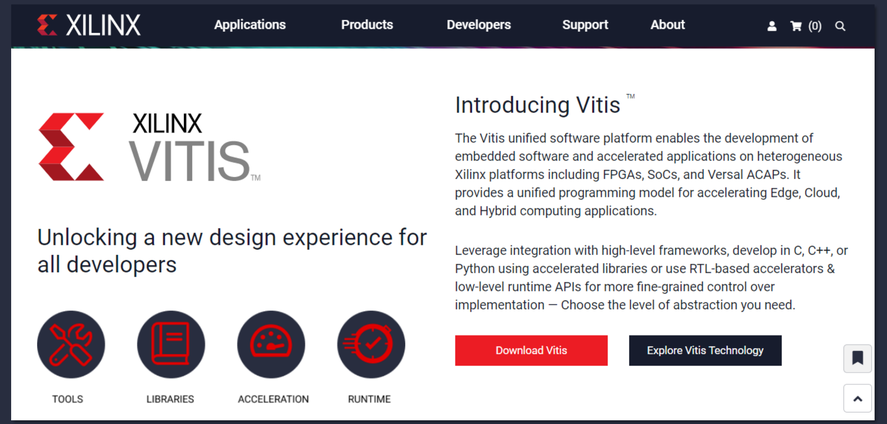
OS & Firmware SDK
操作系统和固件 SDK

SDSoC, Embedded Applications
SDSoC、嵌入式应用

SDAccel, Data Center Platform (FaaS, Alveo)
SDAccel、数据中心平台（FaaS、Alveo）

AI Inference Acceleration
AI 推断加速

Unified Software Platform
统一软件平台



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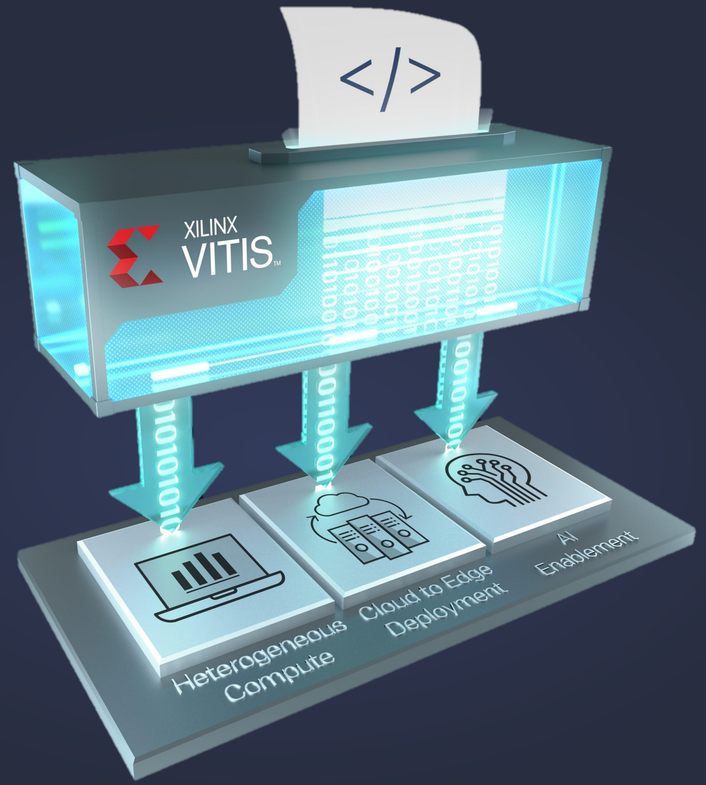
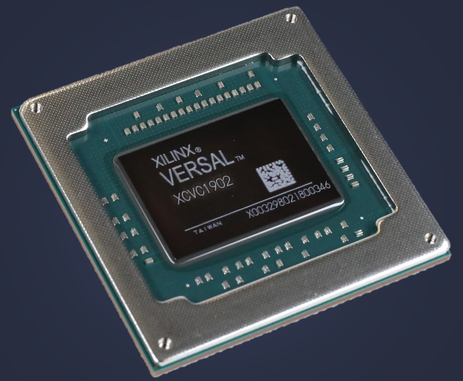


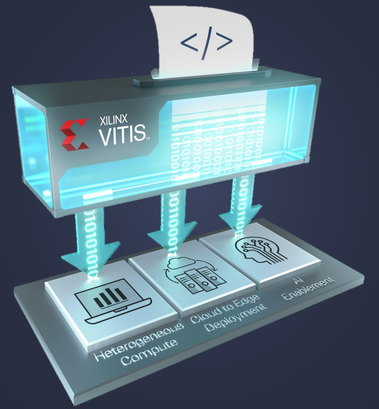
Platform Transformation Momentum
平台转型之路取得重大进展

Alveo is Here
Alveo 面世

Versal is Here
Versal 面世



Vitis is Here
Vitis 面世



Xilinx Recognized as a Global Technology Leader
赛灵思已成为公认的全球技术领导者

17 of Fortune Magazine's "Future 50" list
排名财富杂志"未来 50 强"第 17 位

"Well-positioned to serve growing markets including A.I. and 5G technology.. （在服务持续性增长的市场如人工智能和 5G 技术上占据有利地位 ）"

Top 15 World-Leading Science/Technology Achievements
世界互联网 15 大领先科技成果

Awarded at the 6th World Internet Conference, Wuzhen, China
获誉于第六届中国乌镇互联网大会

Empowering the Future
赋能未来

Building the Adaptable, Intelligent World
打造灵活应变，万物智能的世界