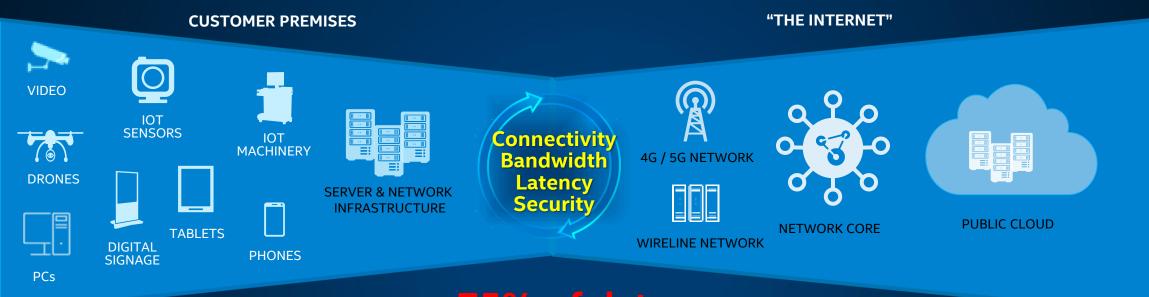
Intel边缘云解决方案与最佳实践

许渊 Intel资深解决方案架构师



EXPANDING IOT/IT/CLOUD TRANSFORMATION INCREASED EDGE PAIN POINTS



75% Of Clata will be created outside of data centers by 2025'

Connectivity

Insufficient coverage Per-device cost structure

Bandwidth

Data growth \rightarrow higher costs

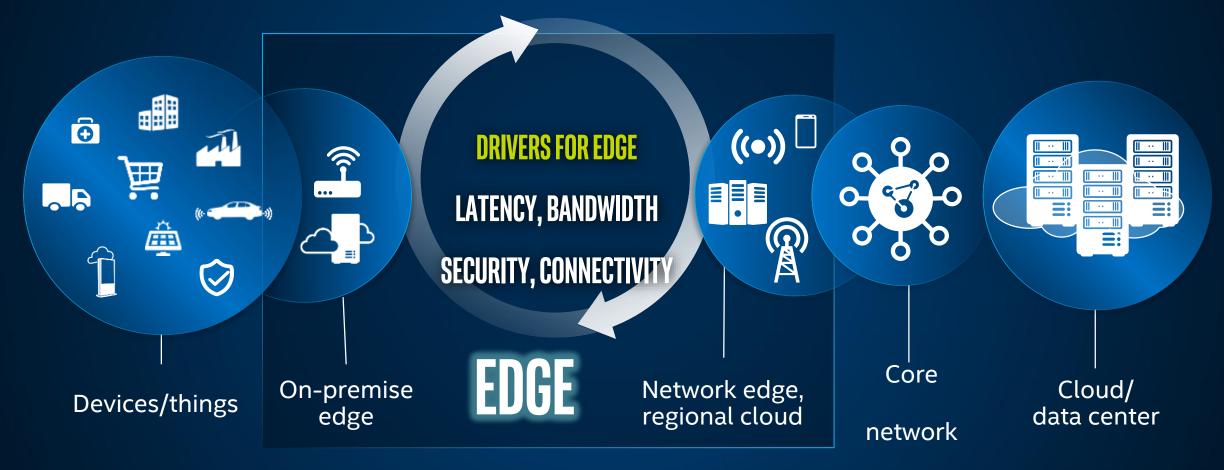
Latency

Long routes limit real-time processing

Security

Data traverses' multiple networks and resides "in the cloud"

THE EDGE: PLACEMENT OF COMPUTE CLOSER TO THE DATA SOURCE OR POINT OF Service Delivery



AI and 5G are major accelerants for edge computing

EDGE COMPUTING SCENARIO

	V	Volume and Cost of Data Transmission	
	L	Latency to/from Cloud	
01010101010101010 010101010101010 11010010	С	Lack of Persistent Connectivity)
	Ρ	Privacy: Secure the Data Locally, Isolation from public Data Center	
	W	Workload Orchestration	ĺ

A Analytics and AI

EDGE CLOUD





INTEL DIVERSE PRODUCT PORTFOLIO

BUILDING FOR THE EDGE

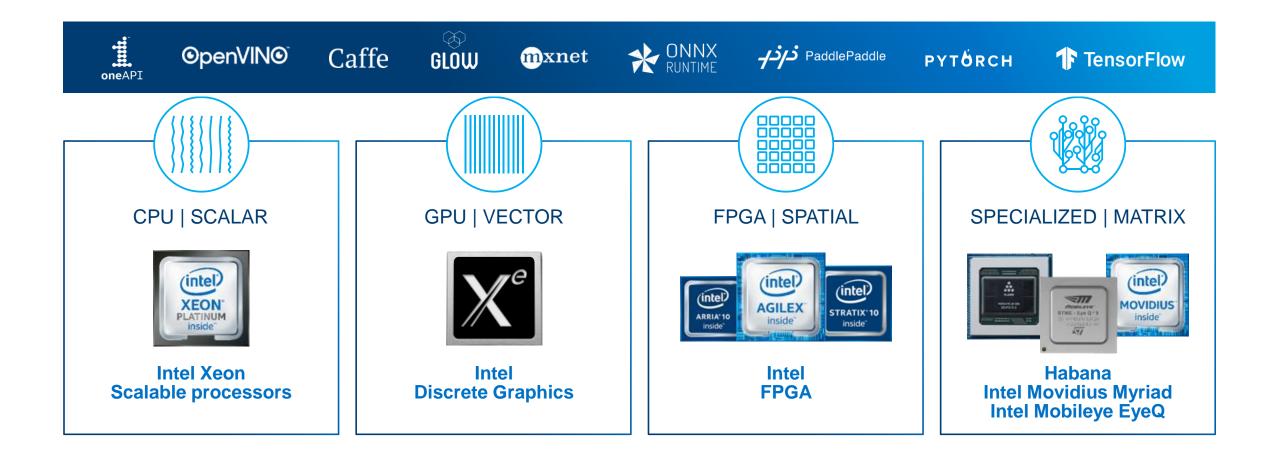


PROCESS MOVE STORE



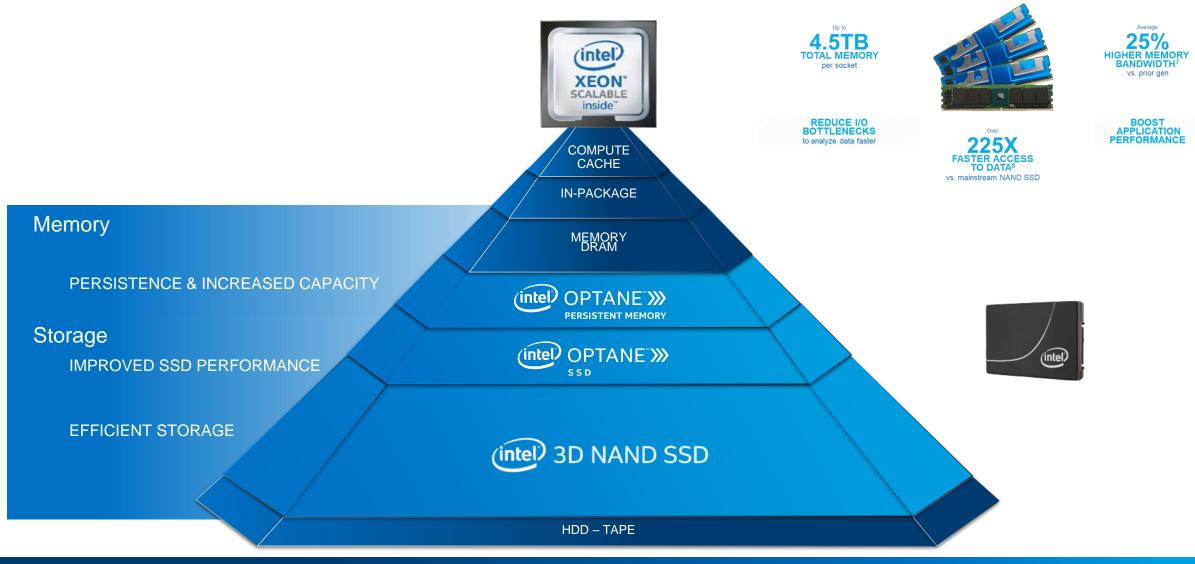
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Delivering AI compute from cloud to edge





Transforming memory & storage





INTEL® ETHERNET 800 SERIES WITH APPLICATION DEVICE QUEUES (ADQ)

Application Device Queues

- An application-specific queuing and steering technology 🛤
- Filters application traffic to a dedicated set of queues



LUUGIIUN ITH OPEN SOURCE REDIS USING 2ND GEN TEL® XEON® SCALABLE PROCESSORS AN





BETTER TOGETHER CONSISTENTLY IMPROVED SERVICES AND SLA WITH 2ND GEN INTEL® XEON® SCALABLE PROCESSORS AND INTEL® ETHERNET 800 SERIES







CONSISTENT Application response time with ADQ

For more complete information about performance and benchmark results, visit www.intel.com/benchmarks. See configuration slide 50 for details. For more information regarding performance and optimization choices in Intel software products., please visit https://software.intel.com/benchmarks.



Intel Confidential

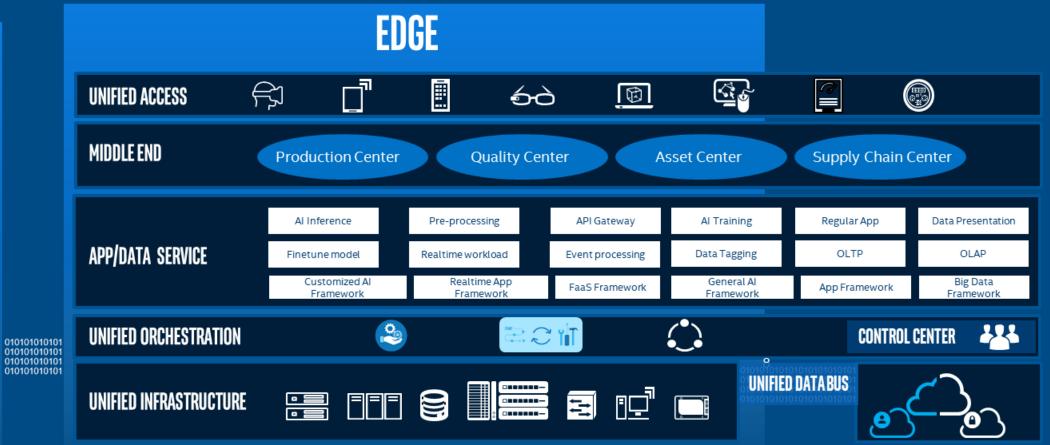
EDGE CLOUD SOLUTION ARCHITECT



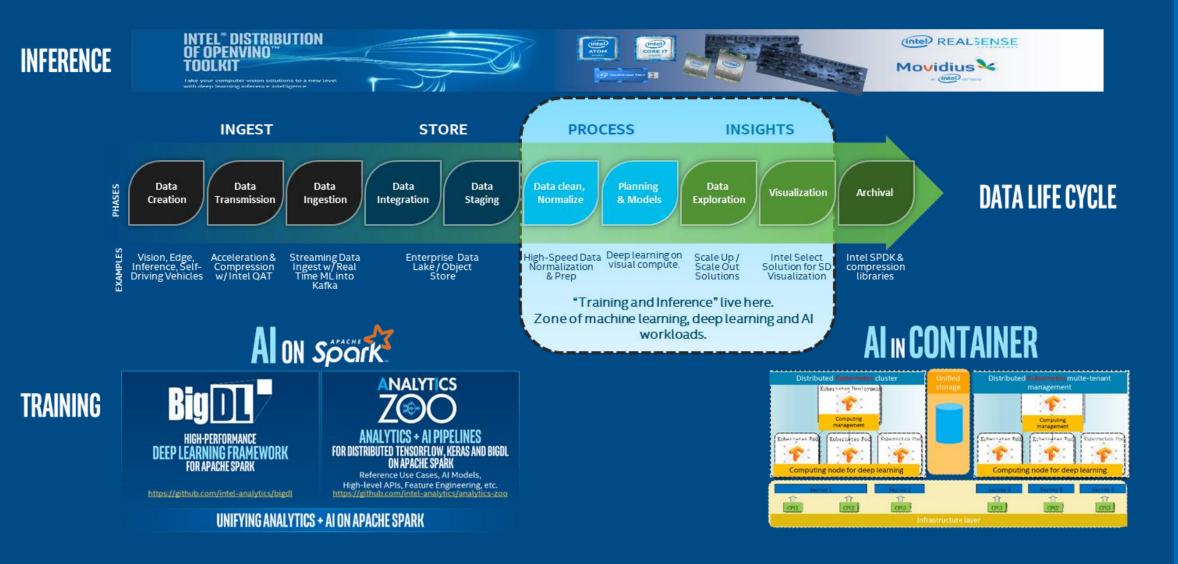
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EDGE SIDE ARCHITECT

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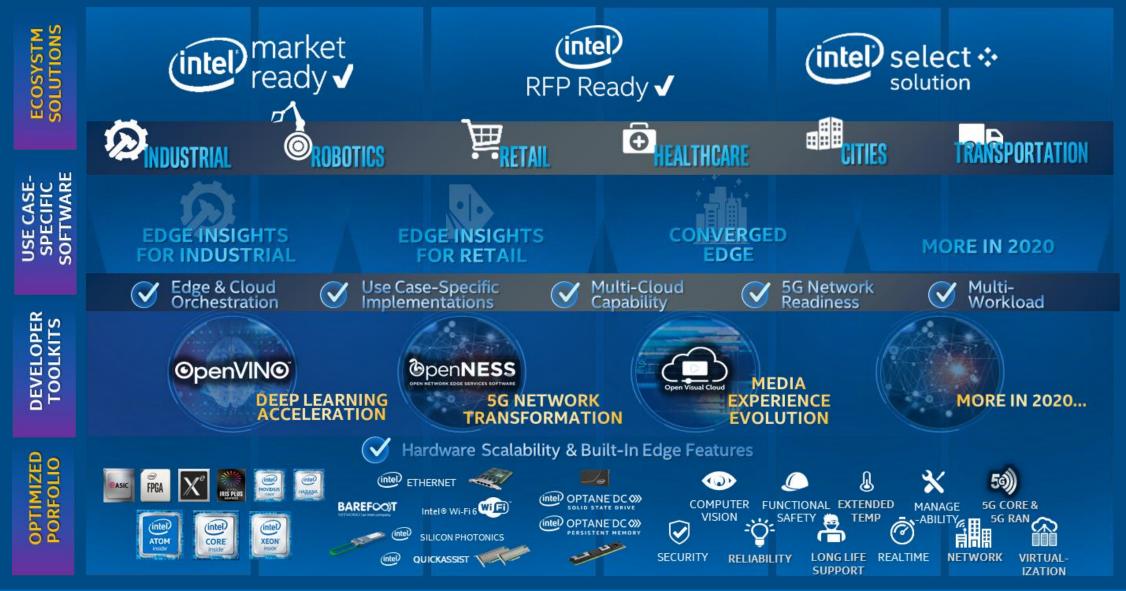


EDGE CLOUD AI PLATFORM

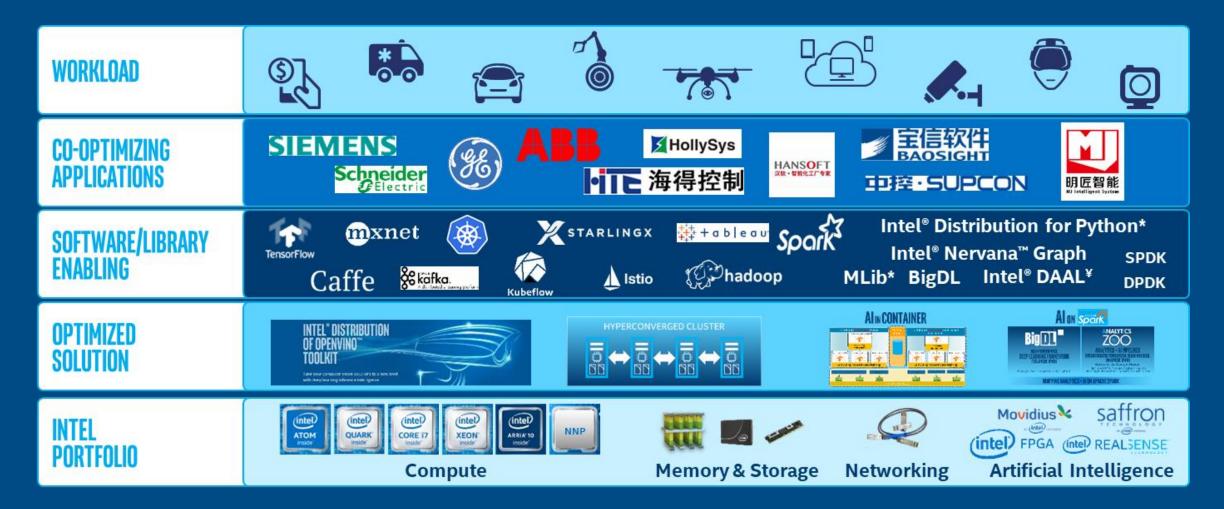




EDGE SOFTWARE OFFERINGS



EDGE CLOUD SOLUTION LANDSCAPE



⁴Note: Intel[®] Data Analytics Acceleration Library, Intel[®] Math Kernel Library, Intel[®] Math Kernel Library for Deep Neural Networks, BigDL: Distributed Deep Learning on Apache Spark*, MLib: Apache Spark's Scalable Machine Learning Library *Other names and brands may be claimed as the property of others.

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