



Powerful New Business Outcomes Unleashed Through 5G and Edge Innovation

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the entire world is becoming
digital



cloud



connectivity



artificial
intelligence



intelligent
edge

The Transformation of the Network

2012
NFV
Defined

2015
20%
Of CoSPs
adopt NFV

2020
50%
Of core network
deployments
virtualized

2024
>80%
Of core network
deployments
virtualized

Sources: Del'Orto, 2020 & 2024 <https://www.delloro.com/industry-research/telecommunications-infrastructure/mobile-core-network/>

Global Network Deployments

Powered by Intel





■ vRAN Transformation

Nearly all commercial vRAN deployments are running on Intel technology

Source: Intel internal estimates

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vRAN Transformation

dish wireless

1st US cloud-native, 5G network, relying on Intel technology for core, access, edge

Deutsche Telekom **T** . . .

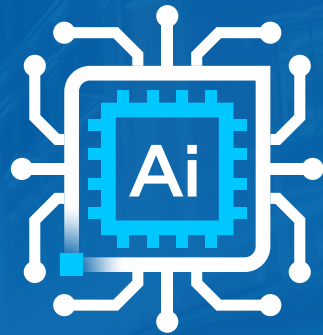
O-RAN Town live-network deployment using Intel FlexRAN with accelerators.

Jio

New partnership with Intel in 5G Radio, wireless core, Cloud, AI, Edge Computing

Source: Intel internal estimates

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The only x86 data center
processor with built-in
AI acceleration

FlexRAN
Reference
Architecture

UP TO **40%** improved modulation coding scheme

Enhanced spectral efficiency

Improved quality of service

Ultimately... a better user experience

See Disclaimer for workloads and configurations. Results may vary.

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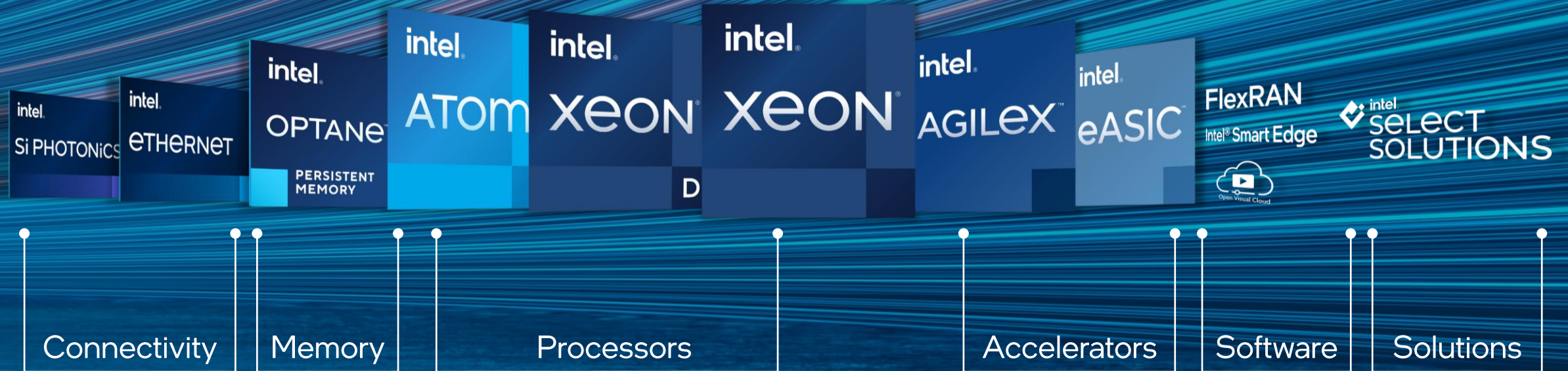


Pioneering the delay doppler approach

Achieved 2X improvement in spectrum utilization using Spectrum Multiplier software and Intel FlexRAN

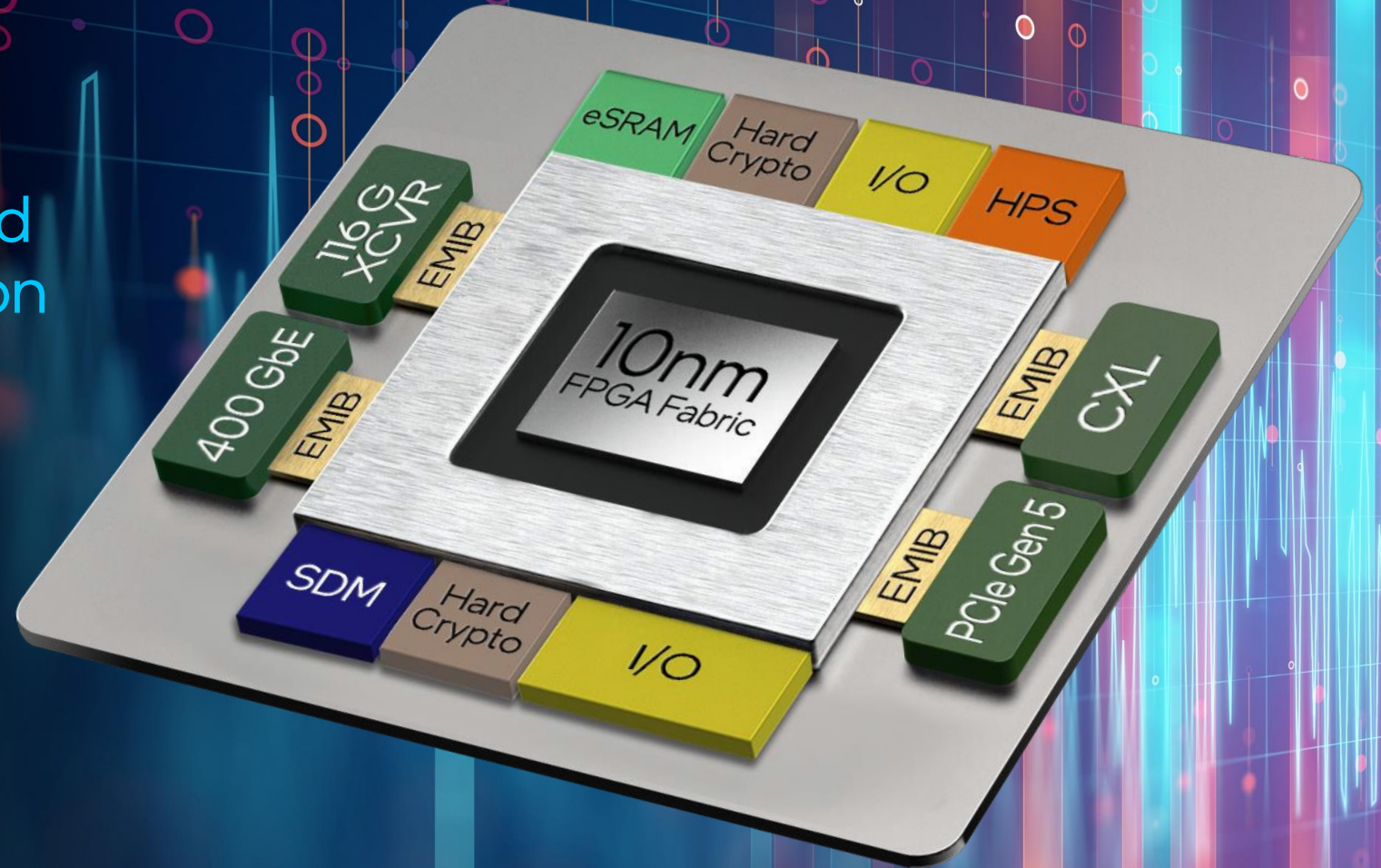
Innovating faster with FlexRAN ecosystem

The most complete set of network technology solutions for the industry to build on



Expanding Agilex FPGA Family

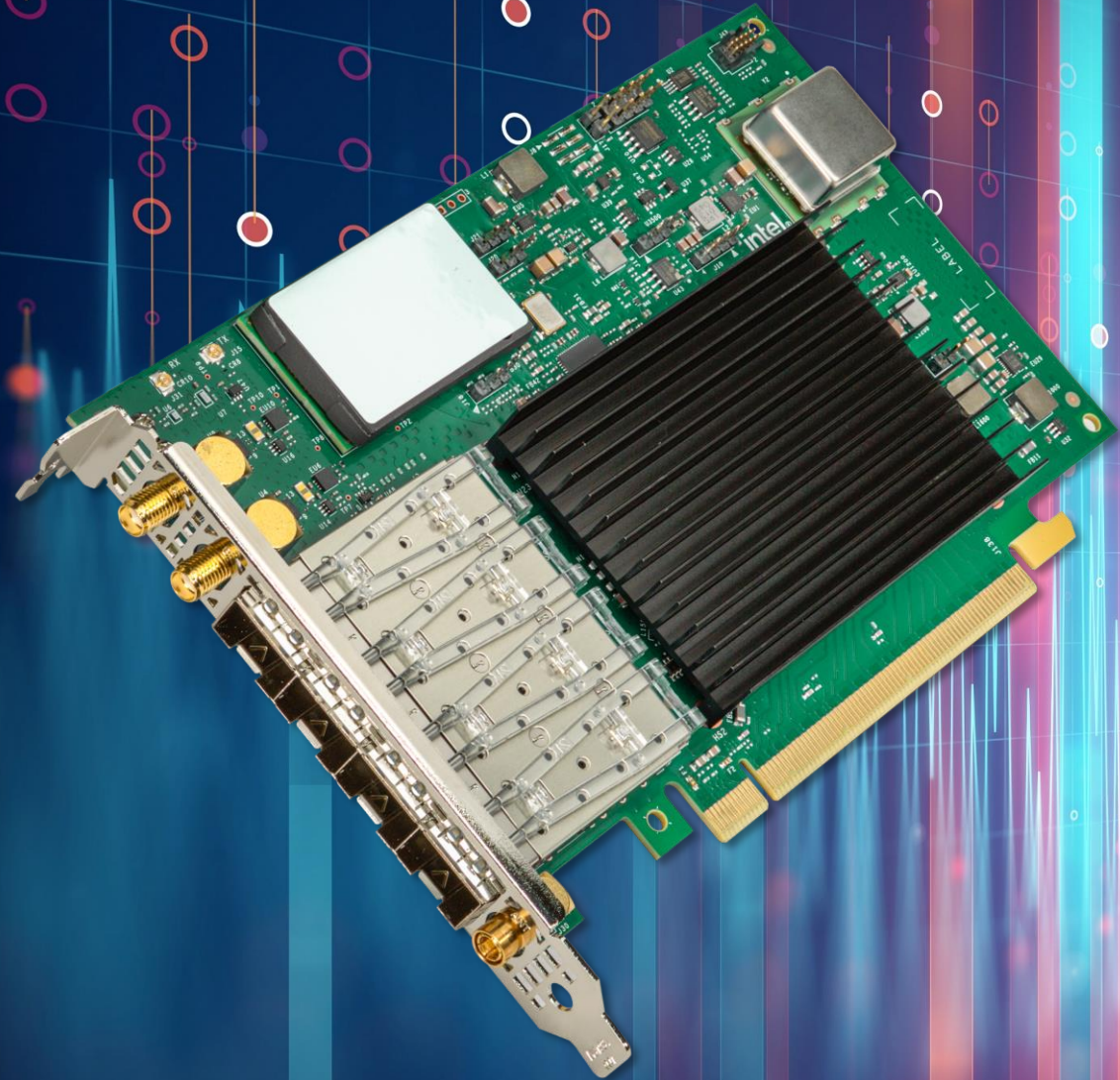
New FPGA with Integrated
Cryptography Acceleration



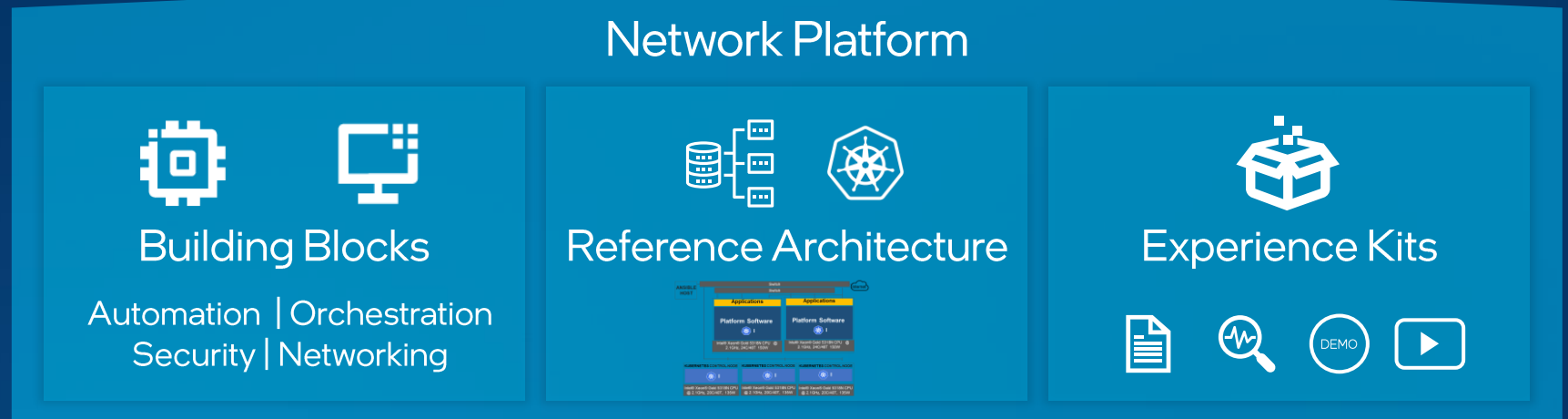
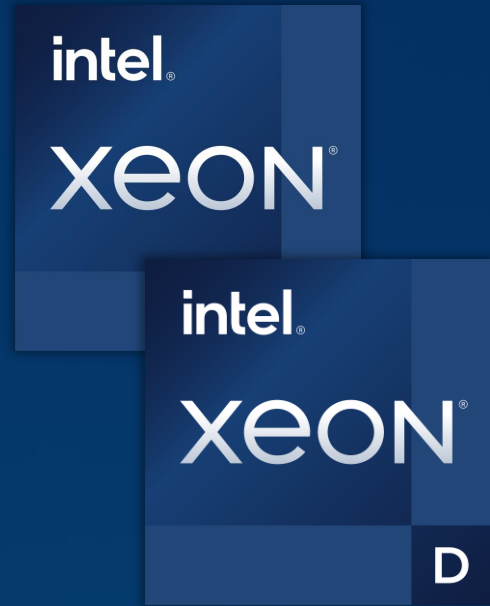
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AGILEX™

Expanding Intel Ethernet 800 Series New Network Adaptor with SyncE



Intel Network Platform





By 2023, 75% of data
will be created outside
of the data center.

Source: [What Edge Computing Means for Infrastructure and Operations Leaders](#), Gartner, Oct 3, 2018

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The logo features the text '5G' in a large, white, sans-serif font. To the right of the 'G' is a white Wi-Fi symbol consisting of three curved lines. A small blue square is positioned at the center of the topmost curve of the Wi-Fi symbol.

5G

Will Transform Enterprises

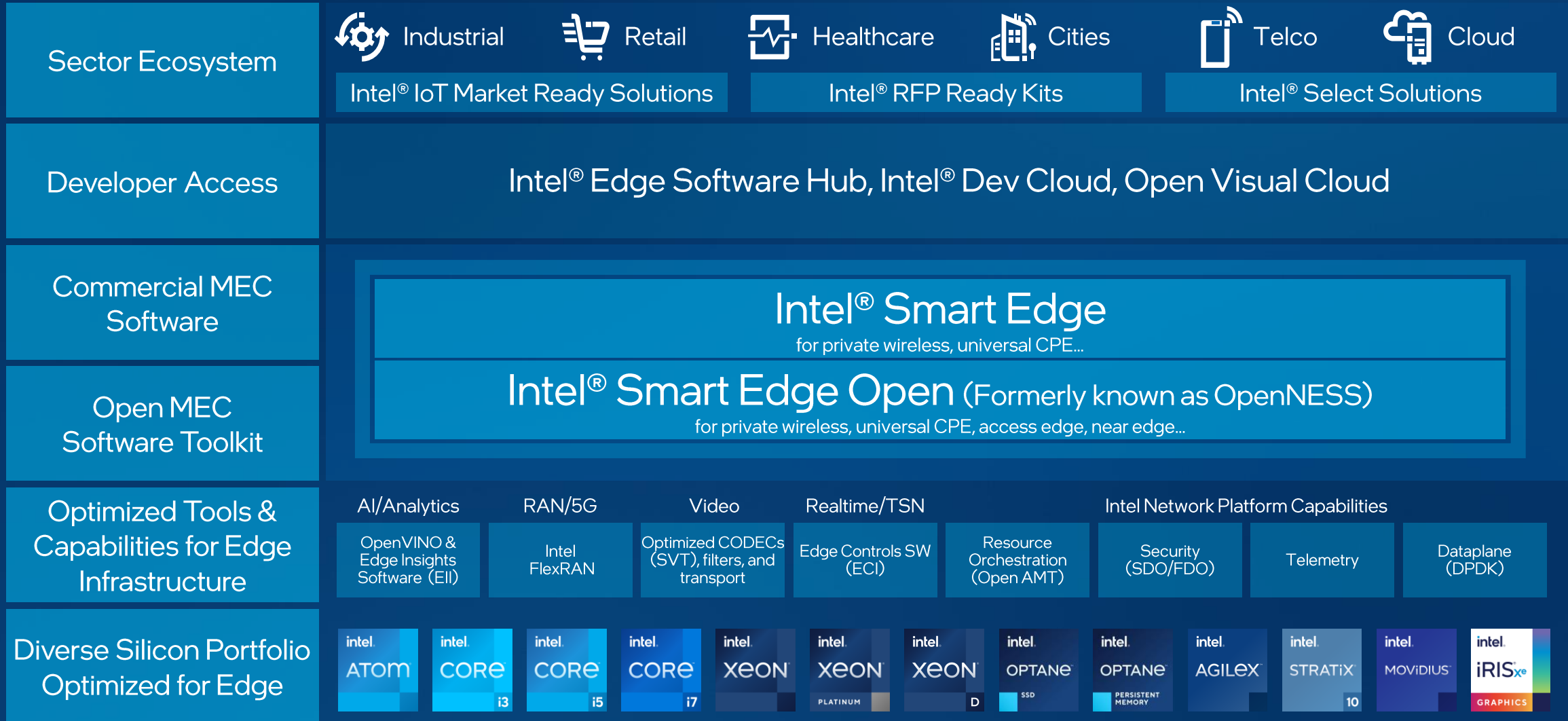
IT decision makers believe

80% 5G will impact their business

78% 5G technology is crucial to keep
pace with innovation

70% Expect to spend 5% or more of their
IT budget on 5G technology over
the next 3 years

Intel's Edge Technology Solutions



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SMART EDGE

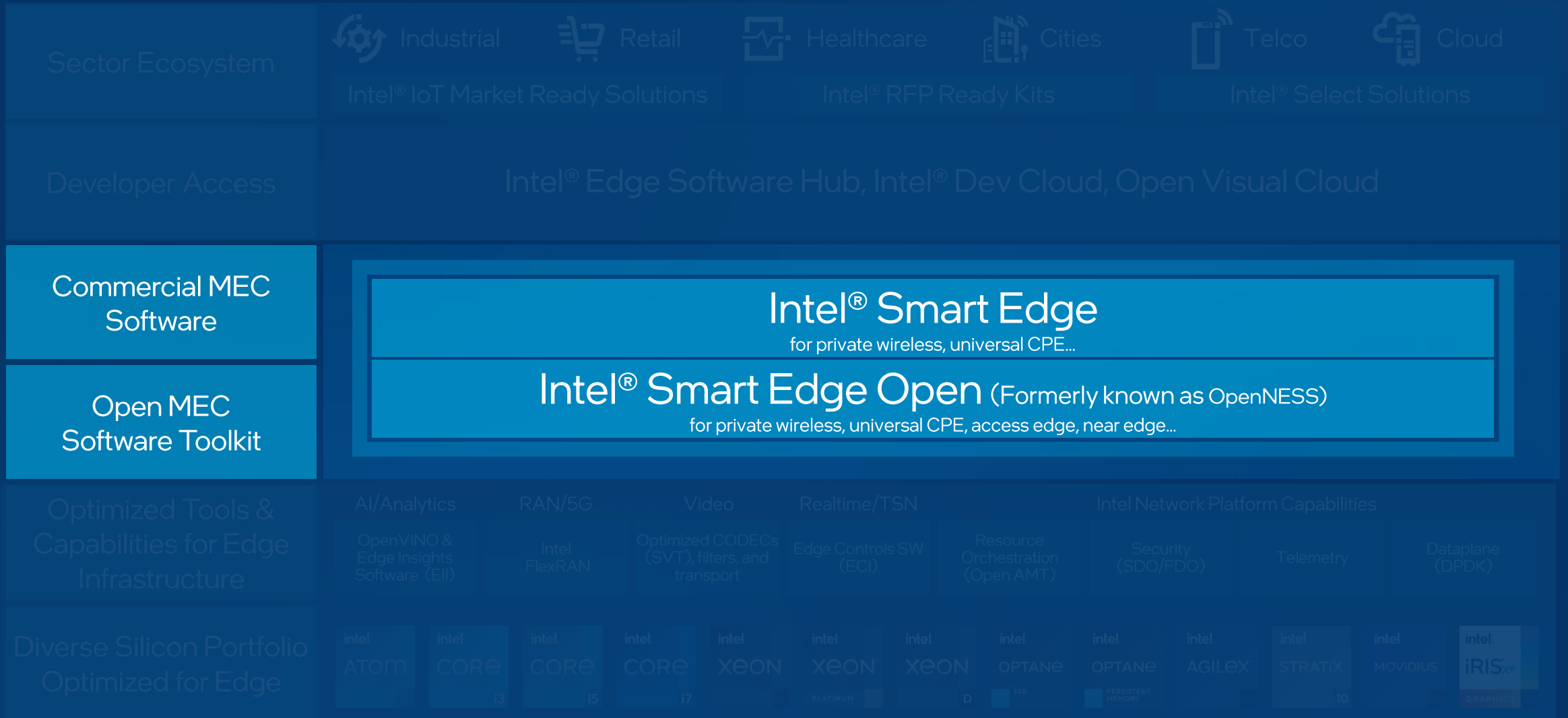
Intel[®] Smart Edge

Commercial MEC Software

Intel[®] Smart Edge Open

Open MEC Software Toolkit

Intel's Edge Technology Solutions





Red Hat

intel
**SMART
EDGE**

Utilizing capabilities in both Intel Smart Edge offerings

Offering their ecosystem a commercial MEC solution that can reduce their time to market.


Easing automation as customers deploy acceleration functions at the edge, through Intel Smart Edge Open Operators that are certified for Red Hat OpenShift

cellnex[®]

Developing Edge Computing capabilities with Intel, Lenovo, Nearby Computing.

Deploying edge options from the physical infrastructure to the service management

Acting faster on data and providing service level management by using capabilities in Intel Smart Edge Open



Customers are
choosing Intel for
groundbreaking
network and edge
deployments

Delivering on a **global
scale with the most
complete portfolio** of
network technology
solutions, proven
ecosystem

Investing for
**innovations in 5G,
edge, AI, cloud** to
transform networks
and grow the
intelligent edge

Learn more and
experience what we can do together
[Intel.com/MWC](https://www.intel.com/MWC)

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Up to 40% improved modulation coding scheme

Configuration: Baseline: 1-node, 2x Intel® Xeon® CPU E5-2620 v4 @ 2.10GHz on HPE DL380 Gen9 with 128 GB (16 slots/ 8GB/ 2400) total DDR4 memory, microcode 0xb000012, HT on, Turbo on, CentOS Linux release 7.8.2003, 3.10.0-862.el7.x86_64, 1x 40GB SSD, Temporal Convolution Networks, Python 3, Pytorch, ONNX runtime, AI performance tested using one Xeon core conducted by Capgemini Engineering on 12/24/2020.

New: 1-node, 2x Intel® Xeon® Platinum 8360Y @ 2.4GHz on Intel® Server System M50CYP2SB2U with 256 GB (16 slots/ 16GB/ 3200) total DDR4 memory, microcode 0x8d055260, HT on, Turbo on, Ubuntu 9.3.0; 17ubuntu1~20.04, 5.4.0-72-generic, Temporal Convolution Networks, Python 3, Pytorch, One API, ONNX runtime, AI performance tested using one Xeon core conducted by Capgemini Engineering on 04/28/2021.

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