

SEMICONDUCTOR TECHNOLOGY VISION 2020

ESSENTIAL, REIMAGINED

Of the more than 6,000 business and IT executives worldwide that Accenture surveyed for the Technology Vision report, 85% of semiconductor executives acknowledge that technology has become an inextricable part of the human experience.

The I in Experience

Bringing people and technology together, humanly

74%

of semiconductor executives agree that digital experiences must become more human-centric



TECHNOLOGY VISION REALIZED: Intel's first purpose-built ASICs, the Nervana Neural Network Processors (NPP), bring the future of AI to cloud and datacenter customers.

AI & Me

Unlocking AI's potential to transform what businesses do

79%

of semiconductor executives believe collaboration between humans and machines will be critical to innovation in the future

87%

semiconductor companies report piloting or adopting AI in one or more business units

ONLY

13%

semiconductor organizations report they are preparing their workforce for collaborative, interactive, & explainable AI-based systems

TECHNOLOGY VISION REALIZED: [Optimal+](#) AI analytics platform improves yield and quality, and optimizes testing for semiconductor manufacturing.

The Dilemma of Smart Things

Becoming a true partner to customers in the post-digital era

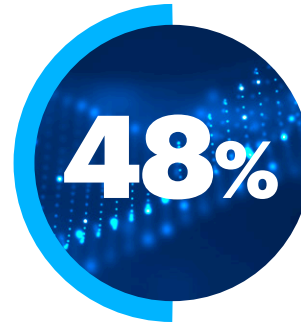


of semiconductor executives say the industry is moving toward more variety in ownership models for connected products

TECHNOLOGY VISION REALIZED: Micron unveils first silicon-based SaaS platform for IoT edge devices. The platform allows installed secure flash devices to be activated and managed at the edge through a cloud-based service, enabling platform-hardening and device protection through the entire lifecycle.

Robots in the Wild

Reaching the next frontier in robotics technology



of semiconductor organizations expect to use robots in uncontrolled environments within the next two years

TECHNOLOGY VISION REALIZED: KUKA's first-of-its-kind wafer handling solution automates the transfer and handling of semiconductor cassettes from a single source.

Innovation DNA

Setting a course for the future of semiconductors



of semiconductor executives say the stakes for getting innovation "right" have never been higher



of semiconductor executives believe rapid advancements in new technologies and scientific innovations are poised to disrupt their industries

TECHNOLOGY VISION REALIZED: Intel is expanding global innovation with three new IoT Ignition Labs, in addition to the launch of a joint AI and 5G Innovation Lab with Baidu.

Embed innovation across the entire semiconductor ecosystem—
for 2020 and beyond.

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