

# Leaders Wanted

Technology changes the way we see and understand the world—and as the past year has shown us, it is a lifeline for economies, governments, companies and people. Semiconductor companies are a crucial part of providing that lifeline. As our research shows, there are five themes that are essentials as the use of connected technology becomes more widespread.

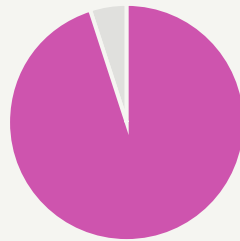


## The need for digital transformation leadership



87%

of semiconductor executives agree that COVID-19 has been a stress test on the largest imaginable scale.



95%

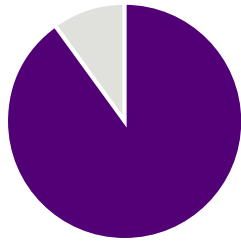
of semiconductor executives agree their organization is operating with a renewed sense of purpose this year.

70%

of semiconductor executives feel that the pace of digital transformation in their organization is accelerating. Out of these, **89% represent fabless companies while 50% represent IDMs.**

# 01 Stack strategically

Technology architecture matters more than ever



90%

Almost all of the semiconductor executives surveyed agree that their technology architecture is becoming critical to their organization's overall success, compared to 77% of executives across industries.

## Future in the cloud

49%

of executives project that more than half of their businesses will be in the cloud in a year—

but 98% project this will happen in the next 3 years.

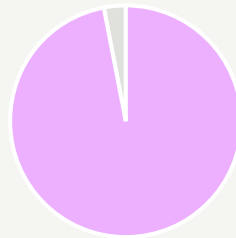
# 02 Mirrored world

Powering new possibilities through a digital-physical world



50%

Semiconductor executive say that up to 50% of the data provided through IoT devices and/or sensors in their organization is fully utilized (vs. 35% in all industries).



97%

Semiconductor executives say that up to 70% of organization's digital twin initiatives use AI and/or ML (vs. 87% in all industries).

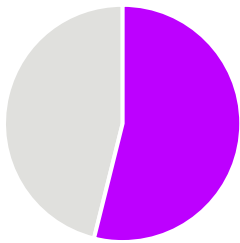
## Digital twin usage

	Semiconductor industry	All industries
For strategy development	54%	29%
To improve operations	54%	32%
To develop new business models	46%	27%
For cybersecurity	41%	27%

The other categories where digital twin usage was more important for the semiconductor industry were energy efficiency, ecosystem collaboration, monitoring, optimization, and real-time decision making.

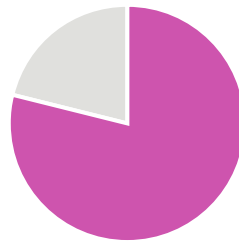
# 03 I, technologist

Placing the power of tech in everyone's hands



54%

of semiconductor executives said that their organization has invested in low-code/no-code platforms as a tool for the technology democratization of their non-IT workforce.



79%

of semiconductor executives agree that their organization must train their people to think like technologists, i.e., to use and customize technology at the individual level even without highly technical skills.

# 04 Anywhere, everywhere

Moving from bring-your-own-device (BYOD) to bring-your-own-environment (BYOE)

## Cloud-enabled architecture

Semiconductor companies surpass other industries in implementing the tools and technologies for a remote workforce—but there is still room for growth.



Productivity management tools



Learning or training tools



Cloud-enabled tools and technologies



Digital collaboration tools

Semiconductors

46%

54%

56%

57%

All industries

41%

39%

48%

47%

## Remote workforce

92%

of semiconductor executives claim that 10-40% of their workforce was working remotely a year ago. **74% of them project that this workforce will still be working remotely a year later.**

# 05 From me to we

Multiplying the impact of complex ecosystems through multiParty systems (MPS)



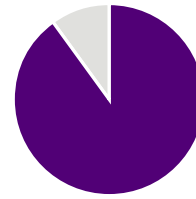
66%

of semiconductor executives report that the #1 element driving an increase in technology-enabled systems is a better understanding of how to make them successful.



93%

of semiconductor executives agree that MPS are poised to become the center of commerce, supply chain and all other transactions among the partners and customers.









90%

of semiconductor executives agree that blockchain provides an unparalleled resilience to supply chains and the corresponding MPS.

## Building a future together

What technology is your organization planning to use over the next year, to enable your ecosystem partnerships?

	 5G	 Cloud	 Digital twins	 Cybersecurity	 IoT	 AI
<b>Semiconductors</b>	38%	38%	38%	36%	34%	31%
<b>All industries score</b>	29%	28%	25%	29%	23%	26%

The connected future is here.

Are you ready to lead?

Learn more at [accenture.com/semiconductors](https://www.accenture.com/semiconductors)

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