

Deloitte.



2020科技趨勢
資訊圖表

Macro technology forces

TREND SUMMARY

Exploring intersections of the macro technology forces can drive purposeful, transformational change.



Source:
Deloitte Insights,
Tech Trends 2020,
Macro technology forces

Ethical technology and trust

TREND SUMMARY

In a time of constant tech disruption, earning trust is a 360-degree challenge—and opportunity.



DEFINITION

e-thi-kəl / technology

An overarching set of values that direct an organization's approach to its use of technologies as a whole and the ways in which they are deployed to drive business.

BY THE NUMBERS



of respondents in a Deloitte study from high-growth companies are highly concerned about the ethical ramifications of technologies, compared to only 27% of low-growth companies.¹

TREND BREAKDOWN



Source:
Deloitte Insights,
*Tech Trends 2020,
Ethical technology
and trust*

¹Timothy Murphy et al.,
*Ethical technology use in the
Fourth Industrial Revolution*,
Deloitte Insights, July 15, 2019.

Finance and the future of IT

TREND SUMMARY

IT and finance leaders work together to develop flexible approaches for funding innovation.



FUNDING INNOVATION AT THE SPEED OF AGILE

CHANGE WITHIN IT

Move the IT organization to a product-focused operating model and create a road map for tech investments.

CREATIVE FINANCE

Explore opportunities for strategic co-investment, ecosystem subsidies, carveout leasebacks, and other models.

CHANGE WITHIN FINANCE

Tailor budgeting, funding, and reporting processes to meet the evolving technology needs of the business.

IT NEEDS

Cross-functional teams
Flexible timelines
Product focus

FINANCE NEEDS

Value calculation
Measurable ROI
Fiscal control

DEFINITIONS

'a-jəl

A synonym for "nimble"; the ability to respond gracefully to a need to change and adapt.

'A-jəl

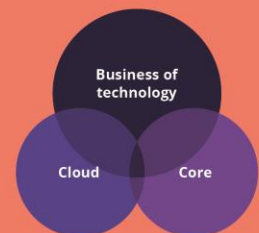
An iterative, incremental software delivery methodology.

BY THE NUMBERS



of CIOs expect to implement Agile, DevOps, or a similar flexible IT delivery model to increase IT responsiveness and help spur broader innovation ambitions.¹

TREND BREAKDOWN



Source:
Deloitte Insights,
*Tech Trends 2020,
Finance and the
future of IT*

¹Bill Briggs et al., *Manifesting legacy: Looking beyond the digital era*, Deloitte Insights, August 8, 2019.

Digital twins: Bridging the physical and digital

TREND SUMMARY

Leveraging next-generation digital twin capabilities to design, optimize, and transform the enterprise.



DEFINITION

di-jə-tʰl / twin

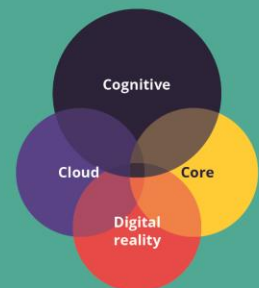
A digital simulation of physical systems, assets, or processes. Often paired with IoT technology to instrument simulated systems. Twins are supported by data science and machine learning, and supply optimizations and insights for physical world action.

BY THE NUMBERS



Projected compound annual growth rate of the digital twins market, from US\$3.8 billion in 2019 to US\$35.8 billion by 2025.¹

TREND BREAKDOWN



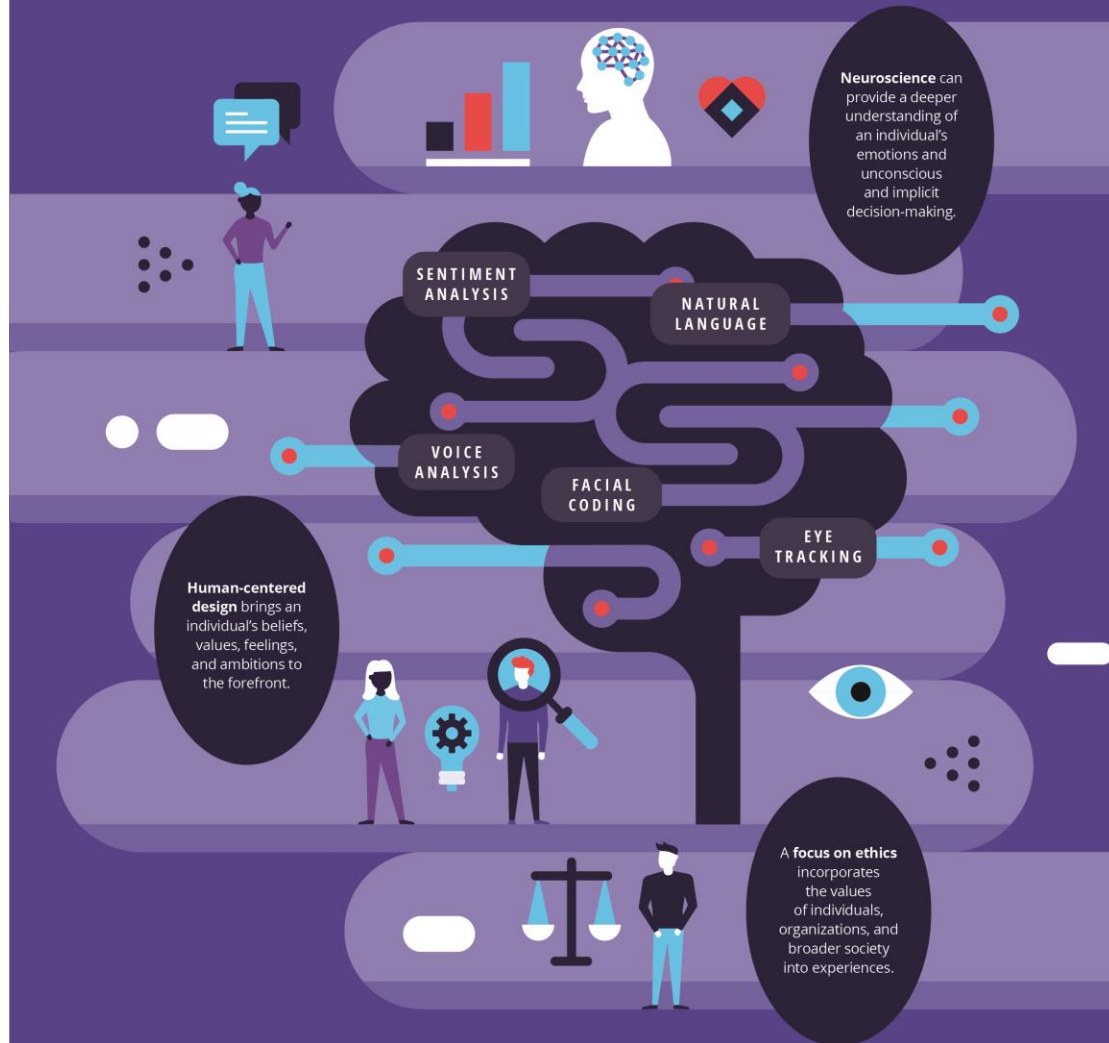
¹MarketsandMarkets, "Digital twin market worth \$35.8 billion by 2025."

Source:
Deloitte Insights,
Tech Trends 2020,
Digital twins: Bridging
the physical and digital

Human experience platforms

TREND SUMMARY

Reshaping human-machine connections through AI, neuroscience, and human-centered design.



DEFINITION

a-'fek-tiv / computing

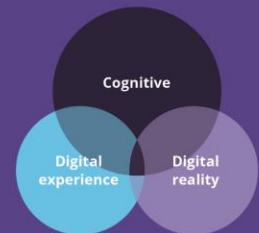
Computing that relates to, arises from, or deliberately influences emotion or other affective phenomena.¹

BY THE NUMBERS



of long-term customers in a Deloitte Digital survey use emotional language to describe their connection to favored brands.²

TREND BREAKDOWN



Source:
Deloitte Insights,
Tech Trends 2020,
Human experience platforms

¹Rosalind Picard, *Affective Computing* (Cambridge, MA: MIT Press, 1997); ²Tim Greulich et. al, *Exploring the value of emotion-driven engagement*, Deloitte Digital, May 2019.

Architecture awakens

TREND SUMMARY

Evolve the role of architects to transform systems architecture and support the speed of business.



DEFINITION

är-kə-tek

Individuals responsible for the design, implementation, and oversight of technology components, applications, and infrastructure and their respective interactions. Deep experts in their domains, they are often responsible for finding a path to the future.

BY THE NUMBERS



of Deloitte Tech Execs Dbriefs webcast respondents said their organization has skilled architects in sufficient quantity; 54% report gaps in skills or headcount.¹

TREND BREAKDOWN



¹Deloitte Dbriefs webcast, "The future of architecture: Designing a foundation for growth," Deloitte, October 3, 2019.

Source:
Deloitte Insights,
Tech Trends 2020,
Architecture awakens

Horizon next:
A future look
at the trends

TREND SUMMARY

Look beyond *what's new* to *what's next* to help
guide today's business and technology decisions.

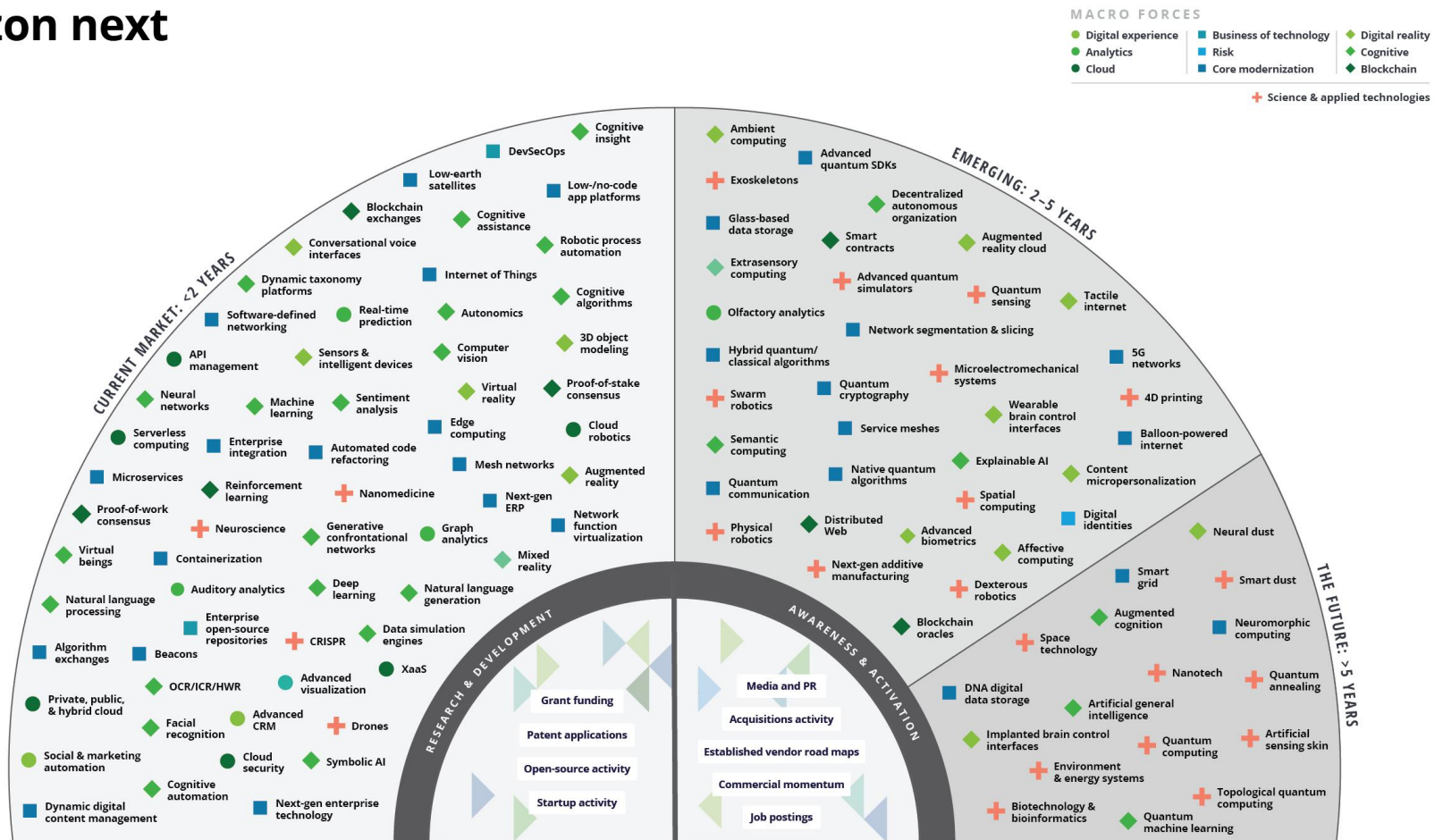


Source:
Deloitte Insights,
Tech Trends 2020,
*Horizon next: A future
look at the trends*

Horizon next: A future look at the trends

Source:
Deloitte Insights,
Tech Trends 2020,
*Horizon next: A future
look at the trends*

Horizon next





About Deloitte

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee (“DTTL”), its network of member firms, and their related entities. DTTL and each of its member firms are legally separate and independent entities. DTTL (also referred to as “Deloitte Global”) does not provide services to clients. Please see www.deloitte.com/about for a detailed description of DTTL and its member firms. Please see www.deloitte.com/us/about for a detailed description of the legal structure of Deloitte LLP and its subsidiaries. Certain services may not be available to attest clients under the rules and regulations of public accounting.

This publication contains general information only and Deloitte is not, by means of this publication, rendering accounting, business, financial, investment, legal, tax, or other professional advice or services. This publication is not a substitute for such professional advice or services, nor should it be used as a basis for any decision or action that may affect your business. Before making any decision or taking any action that may affect your business, you should consult a qualified professional advisor. Deloitte shall not be responsible for any loss sustained by any person who relies on this publication.