# Deloitte. Insights

Tech Trends 2019
Beyond the digital frontier

DELOITTE'S *Tech Trends 2019* report identifies those trends that are likely to disrupt businesses in the next 18-24 months, from advanced networking to DevSecOps, serverless computing, artificial intelligence and more. In this year's annual report—our 10th— we also look back at a decade of technology evolution as forces such as digital, cloud, and analytics drove disruptive change in cyber, core systems modernization, and the business of technology. We then look to the horizon to examine technology's promise beyond the digital frontier.
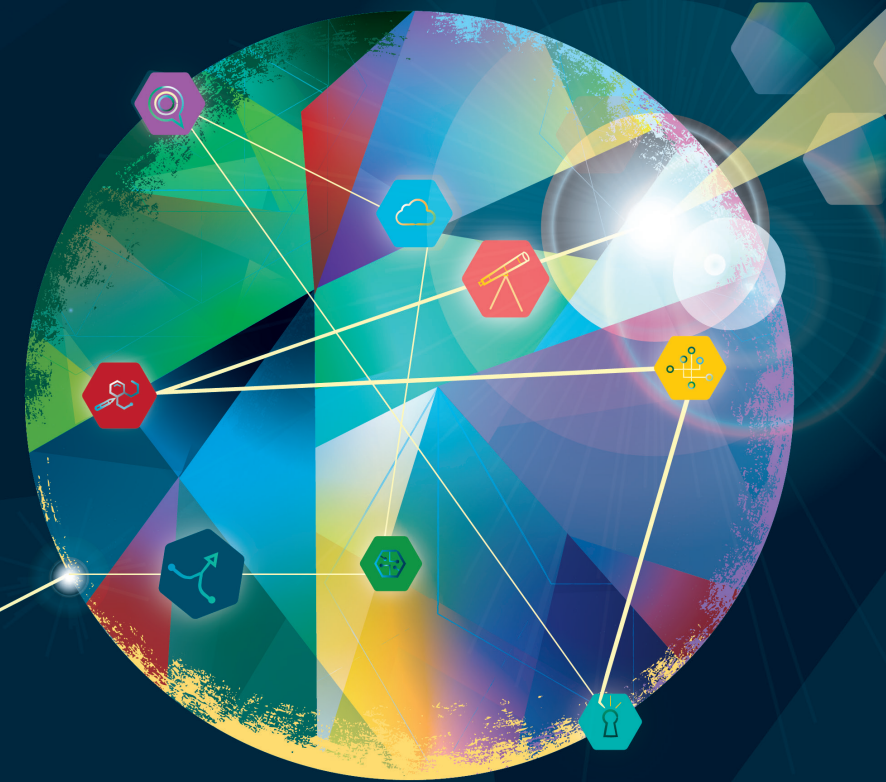
MACRO TECHNOLOGY FORCES AT WORK

Exploring nine macro forces—analytics, cloud, digital, core modernization, business of technology, cyber, cognitive, blockchain, and digital reality—that are the backbone of technology innovation past and present.
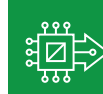
AI-FUELED ORGANIZATIONS

Companies should consider deploying machine learning and other cognitive tools systematically across their core business processes and enterprise operations to support data-driven decision making.

NOOPS IN A SERVERLESS WORLD

The next evolution of cloud computing has technical resources completely abstracted from the underlying system infrastructure and traditional infrastructure and security tasks fully automated.

CONNECTIVITY OF TOMORROW

Rapid advances in connectivity capabilities and a growing spectrum of advanced networking products and services are becoming mission-critical components of CIOs' digital transformation agendas.

INTELLIGENT INTERFACES

The ways people interact with technology today (through touchscreens, mice, keyboards) could soon be replaced with intelligent interfaces that are more synchronous and natural than ever before.

BEYOND MARKETING: EXPERIENCE REIMAGINED

In order to deliver the highly personalized, contextualized experiences that today's astute customers increasingly expect, CMOs and CIOs are partnering to enable a new generation of marketing tools and techniques.

DEVSECOPS AND THE CYBER IMPERATIVE

DevSecOps fundamentally transforms cyber and risk management from being compliance-based activities—typically undertaken late in the development lifecycle—into essential framing mindsets.
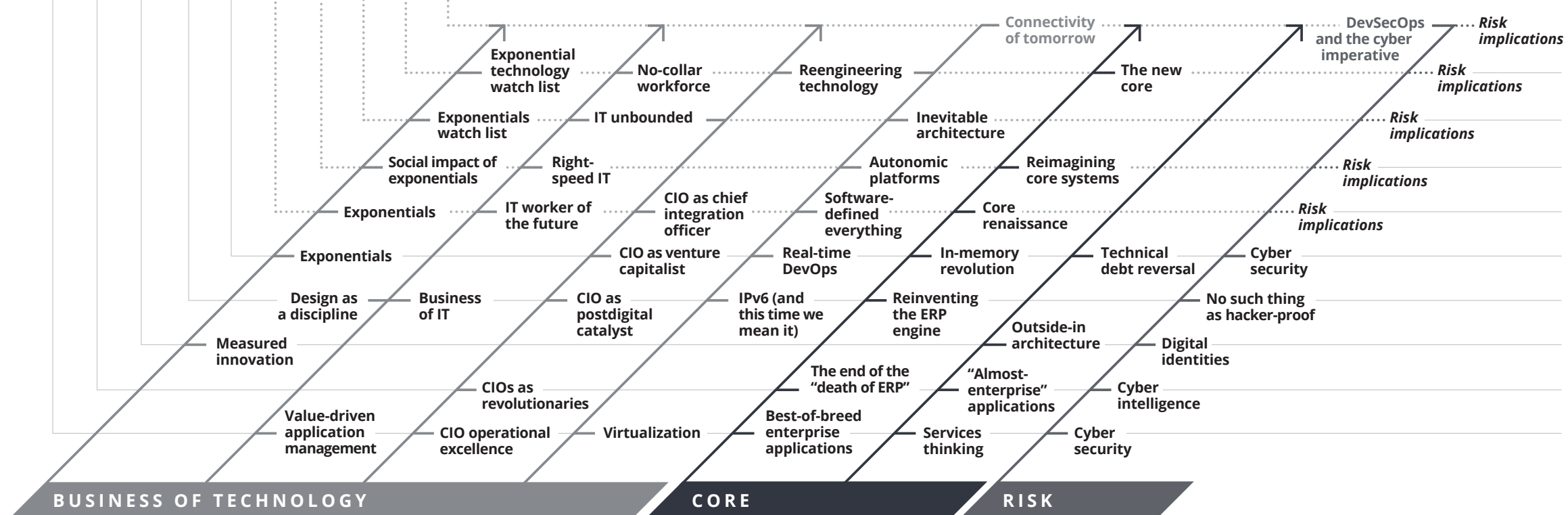
BEYOND THE DIGITAL FRONTIER: MAPPING YOUR FUTURE

Harnessing opportunities at the intersection of technology, science, and business is an essential part of demystifying digital transformation and making it achievable.
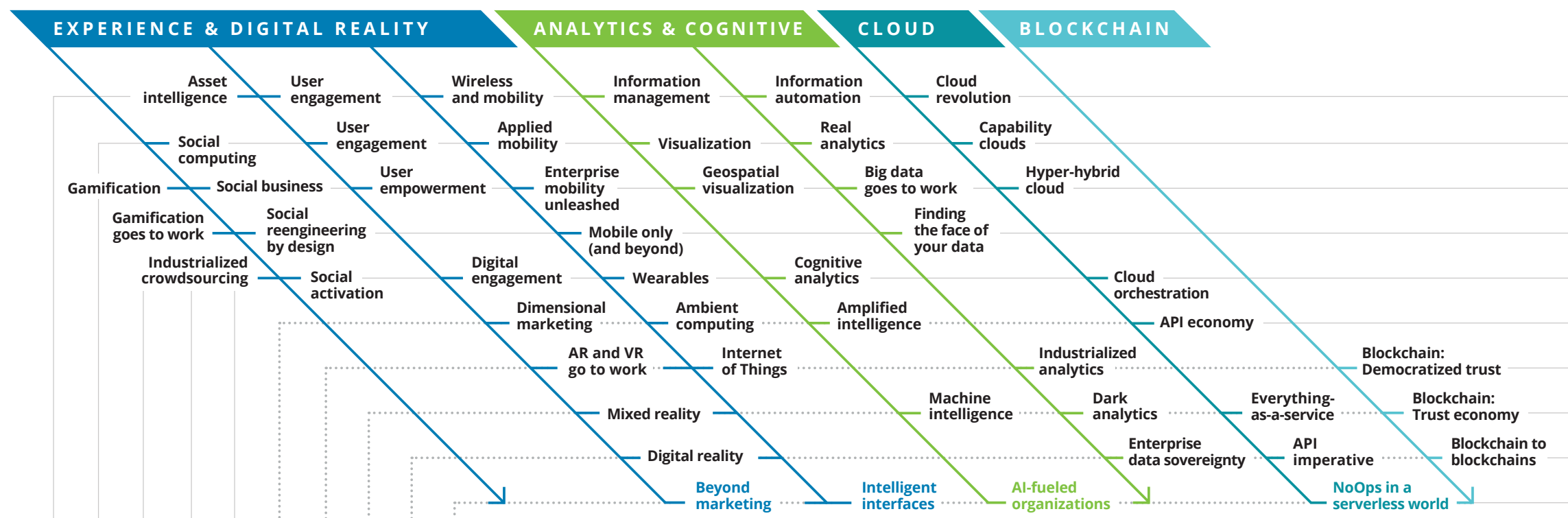
Trending the trends: A decade of research

EXPERIENCE & DIGITAL REALITY | ANALYTICS & COGNITIVE | CLOUD | BLOCKCHAIN

Years: 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019

EXPERIENCE & DIGITAL REALITY
- Asset intelligence
- Social computing
- Gamification
- Gamification goes to work
- Industrialized crowdsourcing
- User engagement
- User engagement
- Social business
- Social reengineering by design
- Social activation
- Wireless and mobility
- Applied mobility
- User empowerment
- Digital engagement
- Enterprise mobility unleashed
- Dimensional marketing
- AR and VR go to work
- Mixed reality
- Digital reality
- Mobile only (and beyond)
- Wearables
- Ambient computing
- Internet of Things
- Beyond marketing

ANALYTICS & COGNITIVE
- Information management
- Visualization
- Geospatial visualization
- Cognitive analytics
- Amplified intelligence
- Machine intelligence
- Information automation
- Real analytics
- Big data goes to work
- Finding the face of your data
- Industrialized analytics
- Dark analytics
- Enterprise data sovereignty
- Intelligent interfaces
- AI-fueled organizations

CLOUD
- Cloud revolution
- Capability clouds
- Hyper-hybrid cloud
- Cloud orchestration
- API economy
- Everything-as-a-service
- API imperative

BLOCKCHAIN
- Blockchain: Democratized trust
- Blockchain: Trust economy
- Blockchain to blockchains
- NoOps in a serverless world

BUSINESS OF TECHNOLOGY
- Exponential technology watch list
- Exponentials watch list
- Social impact of exponentials
- Exponentials
- Exponentials
- Design as a discipline
- Measured innovation
- Value-driven application management
- Business of IT
- CIOs as revolutionaries
- CIO operational excellence
- No-collar workforce
- IT unbounded
- Right-speed IT
- IT worker of the future
- CIO as chief integration officer
- CIO as venture capitalist
- CIO as postdigital catalyst
- Virtualization

CORE
- Reengineering technology
- Inevitable architecture
- Autonomic platforms
- Software-defined everything
- Real-time DevOps
- IPv6 (and this time we mean it)
- The end of the "death of ERP"
- Best-of-breed enterprise applications
- Connectivity of tomorrow
- The new core
- Reimagining core systems
- Core renaissance
- In-memory revolution
- Reinventing the ERP engine
- "Almost-enterprise" applications
- Services thinking
- Technical debt reversal
- Outside-in architecture

RISK
- DevSecOps and the cyber imperative
- Cyber security
- Digital identities
- Cyber intelligence
- Cyber security
- No such thing as hacker-proof
- Risk implications
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