

# Un espacio que fortalece la cultura de la innovación

Tendencias tecnologicas digitales para el 2021 y más allá y su impacto en nuevos negocios

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# Innovation is the execution of new ideas that create value.

This definition emphasizes:
Novelty ("new ideas")
A useful outcome that generates business value or, for governments and not-for-profits, mission value
The importance of implementing ("execution"), not just exploring, the new ideas

**Future-proofing** is the process of anticipating the future and developing methods of minimizing the effects of shocks and stresses of future events.

#### **Protect Against Disruption**

What if you could see across multiple universes where all options are possible?

Which path to the future would you follow?

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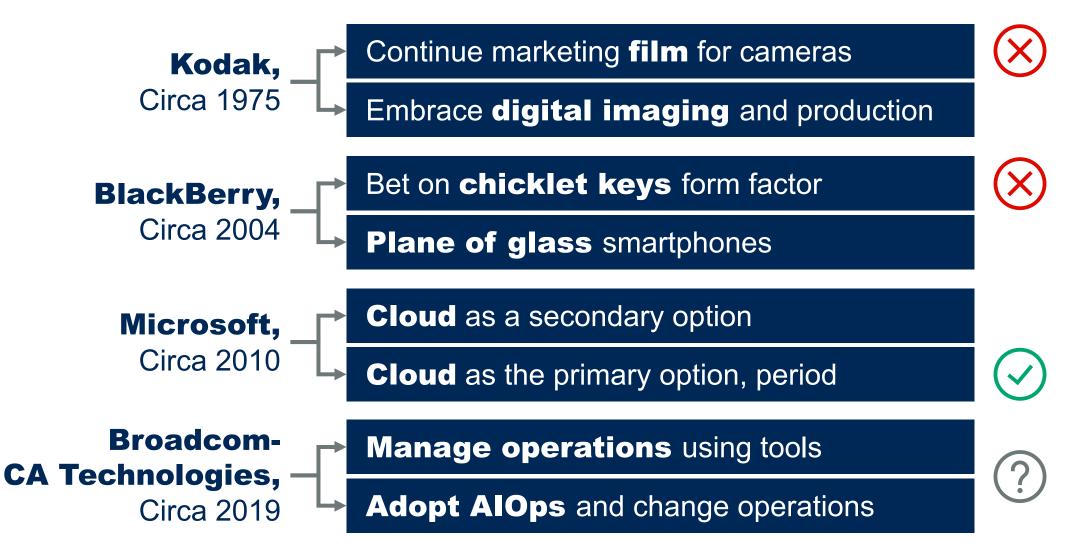
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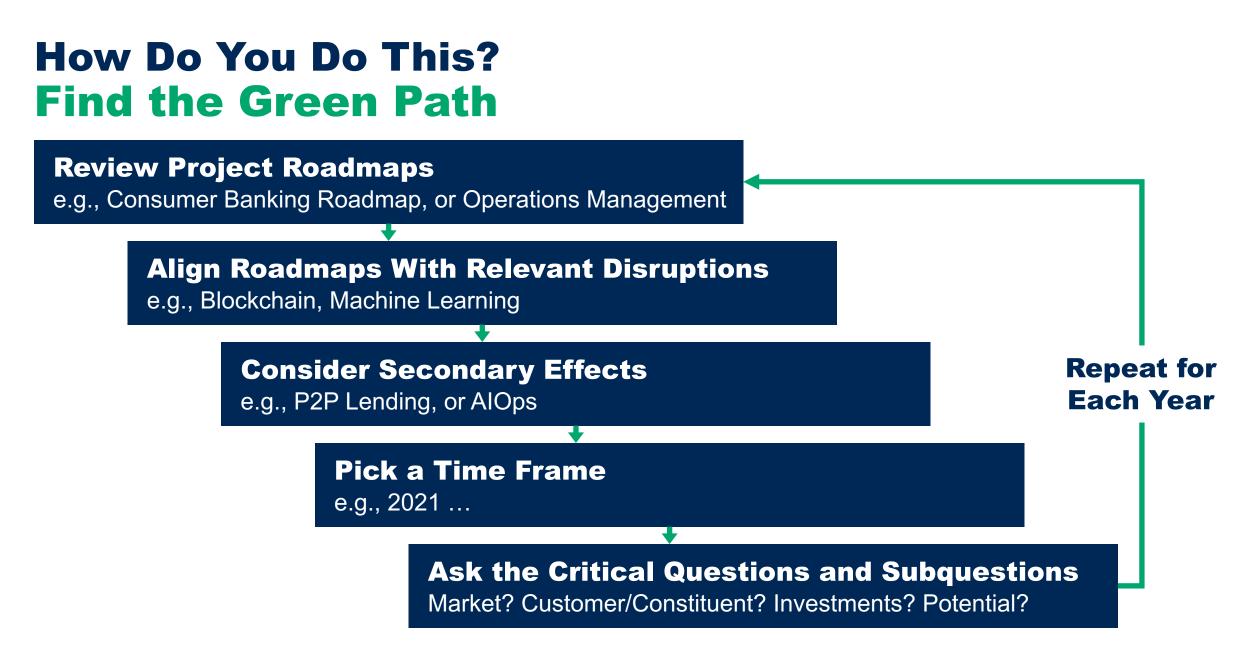
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#### That, Was the Question Faced By ...









#### **But Reset Does Not Mean Just Restart**







By 2025, traditional computing technologies will hit a digital wall forcing the shift to new paradigms such as neuromorphic computing.

Analysis: Nick Jones

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### **Top 10 Strategic Predictions for 2021 and Beyond**

Technology	Storage	Experience	Products	Leadership
The Wall nontraditional computing rises	<b>30%</b> start DNA storage trials	<b>40%</b> add virtual experiences	20% products first touched by customers	<b>25%</b> Chief Operating Officers "by proxy"
2025	2024	2025	2025	2024
Applications	Workplace	Society	Customer	Content
<b>75%</b> conversations recorded at work	<b>20%</b> office space becomes childcare space	<b>30%</b> listen to the voice of society	<b>75%</b> freelance customer support agents	<b>30%</b> prioritize content moderation services
2025	2023	2024	2025	2024



# **3 Things** to Consider



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#### Innovation and Efficiency



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Impact on Society

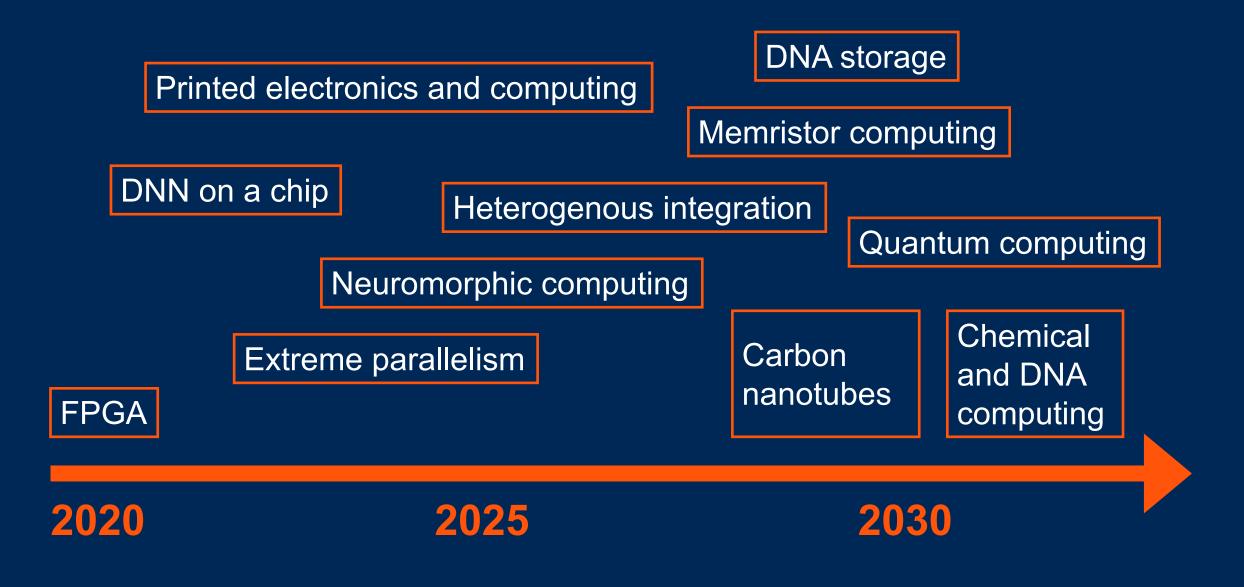


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Nontraditional approaches will enable the next round of innovation and efficiency



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Dates when technology will be available to early adopters

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#### The Approach

- Conventional computing is hitting a wall
- Performance, power consumption and cost aren't supporting digital innovation needs

### Organization Imperative

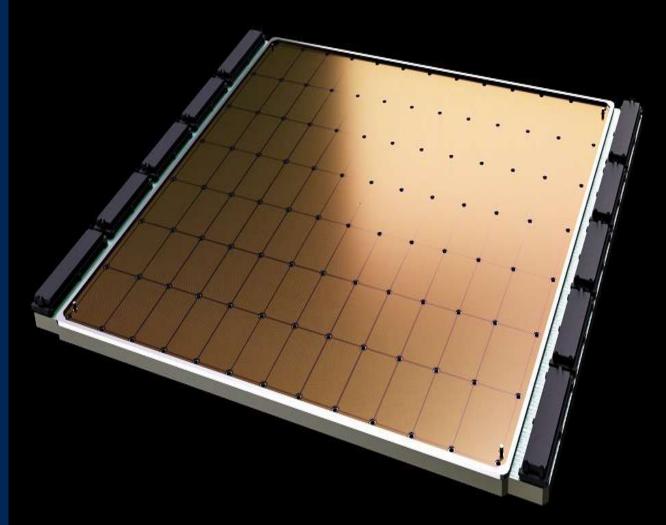
Start now, expect a decade of radical innovation
Pilot new computing technologies and architectures
Watch for the long-term game changers



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Through 2021, Quantum bit advances, DNA storage cost reductions and circuit density increases will make notable headlines in mainstream media.

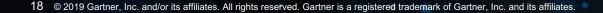
Analysis: Nick Jones





By 2024, 30% of digital businesses will mandate DNA storage trials, addressing the exponential growth of data poised to overwhelm existing storage technology.

Analysis: Daryl Plummer





#### The Approach

- DNA storage life is thousands of years
- Storage density must outpace storage need
- Costly and slow today

#### Organization Imperative

Cloud-based DNA trials
Align uses — archival or active storage?

Monitor data explosion



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Through 2021, watch for minor advances toward random access to DNA archival data in the exabyte-to-yottabyte-scale.

Analysis: Daryl Plummer



#### By 2025, 40% of physical experience-based businesses will improve financial results and outperform competitors by extending into paid virtual experiences.

Analysis: Dave Aron



#### The Approach

- Immersive experiences are more affordable
- Pandemic changed attitudes about remote and virtual
- Imperative to reinvent physical offerings

### Organization Imperative

- Look for virtual experience product opportunities
  Build competencies in VR/AR, digital twins and IoT
  - Experiment and deliver quickly



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In 2022, at least three leading providers of physical experiences will make more than 10% of their revenue from virtual, immersive experiences.

Analysis: Dave Aron



By 2025, customers will be the first humans to touch more than 20% of the products and produce in the world.

Analysis: Rajesh Kandaswamy



#### The Approach

- New technologies are automating most processes
- Pandemic is a hyperaccelerator
- New source of competitive advantage and disruption

#### Organization Imperative

Hyperautomation is a principle, not a project
Update processes while you automate

Use scenario-planning to decide where to apply full automation



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Through 2021, watch for an increase in planning for fully automated factories and farms.

Analysis: Rajesh Kandaswamy



Organizations will reset responsibilities, risk and rewards to find greater effectiveness ....

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By 2024, 25% of traditional large enterprise CIOs will be held accountable for digital business operational results, effectively becoming "COO by proxy."

Analysis: Janelle Hill, Joanne Kopcho

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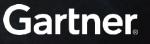


#### Greater Effectiveness

- "Digital" to generate above-the-line value
- Technology and business are inseparable
- Unforeseen business capability gaps are the No. 1 cause of execution planning and delivery

#### Organization Imperative

- Help business leaders to own differentiating business capabilities as digital products
- Selectively refactor business capabilities into composable building blocks
- Realign promising digital pilots to the updated digital strategy



Through 2021, the trend of CIOs in highly digitalized traditional businesses reporting to the CEO will become a flood.

Analysis: Janelle Hill, Joanne Kopcho



By 2025, 75% of conversations at work will be recorded and analyzed, enabling the discovery of added organizational value or risk.

Analysis: Magnus Revang and Anthony Mullen

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### Greater Effectiveness

- We have no privacy, get over it. Everything records
- Measuring intangibles (e.g., satisfaction) is
   now possible
- New organizational value comes from monitoring

#### Organization Imperative

- Create an ethics board with employee representatives
- Ensure understanding of legal risks
- Focus on analytics and not individual monitoring



In 2022, a major corporate acquisition will use analysis of recorded conversations as the primary data source for deciding which employees to retain.

Analysis: Magnus Revang and Anthony Mullen



By 2025, customers will pay a freelance customer service expert to address 75% of their customer service needs.

Analysis: Emily Potosky, Jacob Joseph-David, Jennifer Irwin

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#### Greater Effectiveness

- Customers resolve service issues outside of company channels
- Better experts will cost money
- CX, brand and opportunity to monetize service can be at risk

#### Organization Imperative

- Identify popular freelance experts
- Understand legal and regulatory risks
- Listen to VOC and customer feedback



Through 2021, there will be a 15% rise in customers seeking outside help after being frustrated by traditional support channels.

Analysis: Emily Potosky, Jacob Joseph-David, Jennifer Irwin

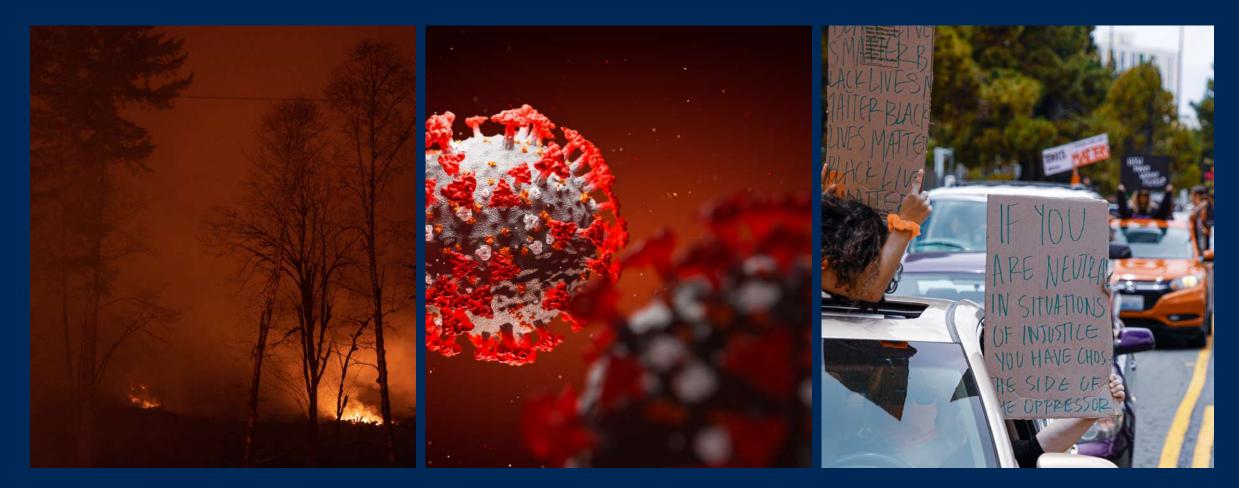


# External groups, communities and employees will put pressure on corporate brands to measure their impact on societ

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# What Do Fires, Viruses and Inequality Have to Do With One Another?





#### By 2024, 30% of major organizations will use a new voice of society metrics to act on societal issues and assess the impacts to their business performance.

Analysis: Daryl Plummer, Gene Alvarez



#### Impact on Society

- Being tone deaf to societal issues can hurt quickly
- Opinion metrics are now as reliable as click-through analysis

Make this a C-suite imperative

Use business composition to react quickly

- Sense the opinions of society on a regular basis
- Adopt tools to measure impact on society (e.g., sentiment analysis)



### Organization Imperative

# **Near-Term Flag**

Responding to the voice of society, more product brands or messages will be changed or dropped through 2021 than in the previous five years.

Analysis: Daryl Plummer, Gene Alvarez



By 2023, large organizations will increase employee retention by more than 20% through repurposing office space as on-site childcare and education facilities.

Analysis: Emilie Siegler Morton, Kaelyn Lowmaster, Emily Rose McRae

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#### Impact on Society

- Societal and worker demand for childcare still unmet
- Organizations helping reduce high cost and time spent on childcare
- Repurpose empty office space during and postpandemic

# Organization Imperative

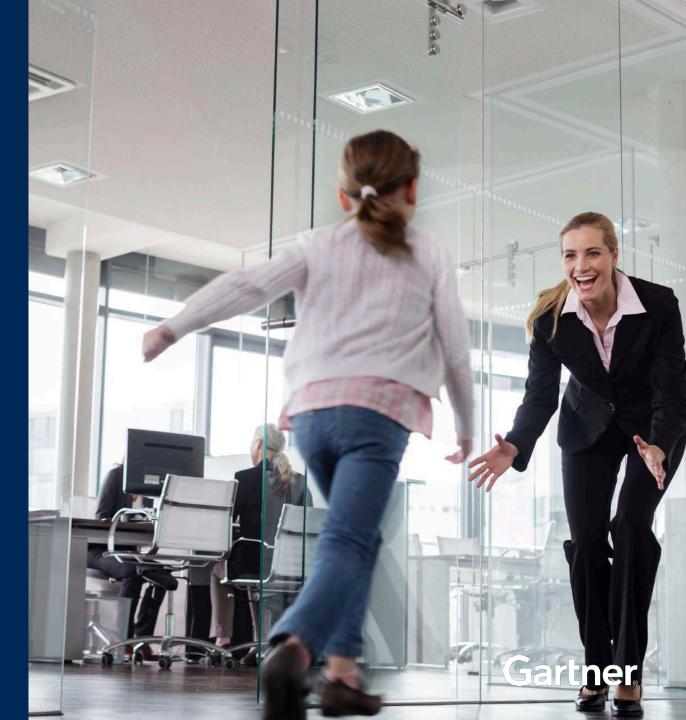
- Evaluate real estate holdings and potential facility spaces
- Set and state goals upfront (e.g., attracting top talent in challenging recruitment markets)
- Audit existing care benefits



# **Near-Term Flag**

By early 2021, 20% of private childcare centers will have closed their doors permanently, leaving a dearth of qualified providers to meet demand.

Analysis: Emilie Siegler Morton, Kaelyn Lowmaster, Emily Rose McRae



#### By 2024, content moderation services for user-generated content will be surveyed as a top CEO priority by 30% of large organizations.

Analysis: Kyle Rees and Michael McGuire

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#### Impact on Society

- Any company with online presence faces
   malicious content
- Brand advertisers must neutralize polarizing content
- Industry standards for content moderation will emerge

# Organization Imperative

 Invest in content moderation services, enforcement and reporting

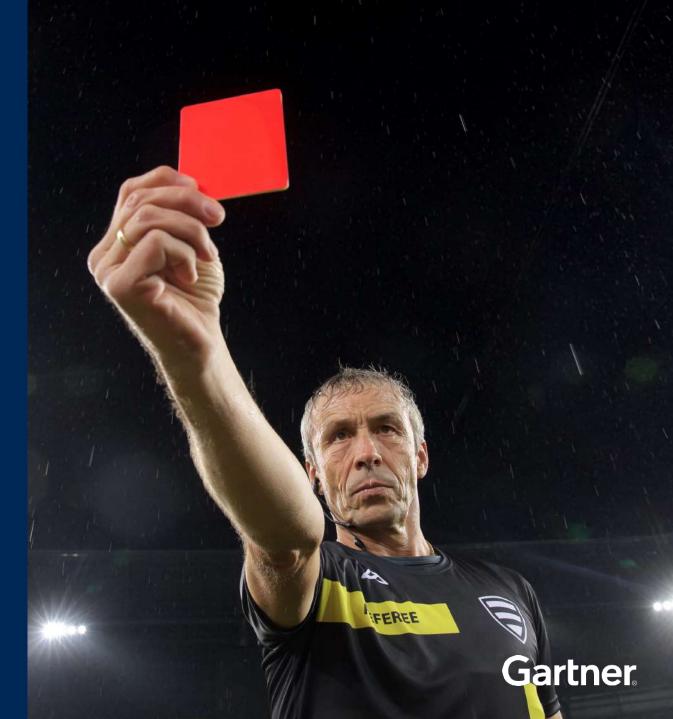
Collaborate for industry standard content tags



# **Near-Term Flag**

Through 2021, brands that create or commission content will develop industry standards for authentic content on brandowned websites.

Analysis: Kyle Rees and Michael McGuire



# The Future Is Ours



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