

Governança, riscos, compliance e inovação: combinam?

Tendências e visão Futura na era digital.

Felipe Dal Belo

São Paulo, SP 26 de setembro de 2018



Felipe Dal Belo

Governance, Risk and Compliance Executive

- Advisory Board Member Thomson Reuters
- ■Risk & Legal Board Member Italy Brazil Chamber
- Board Member Montvero Business Intelligence
- Chief Compliance Officer (VP) Telecom Itália (TIM)
- Global Audit and Compliance Officer Coca-Cola
- Business Development Leader Johnson & Johnson
- Operations and Six Sigma Supervisor Sanofi-Aventis

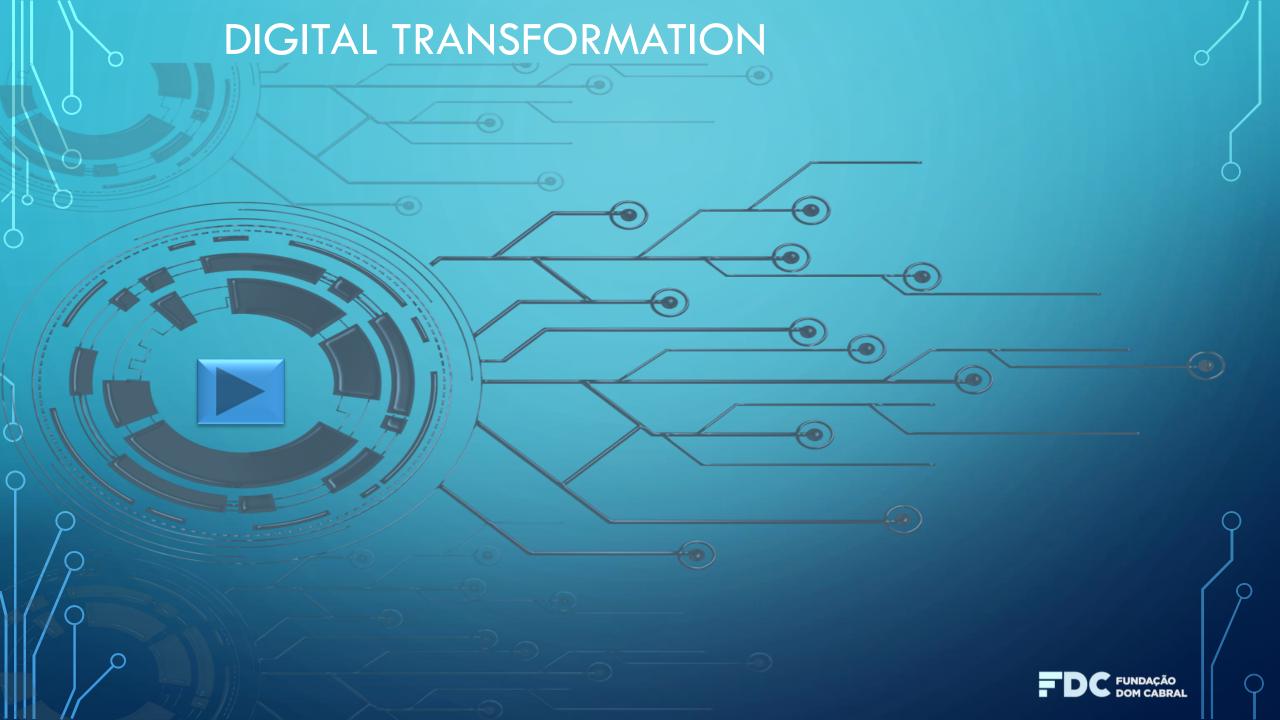
- Finance & Accounting Columbia Business School.
- Big Data & Business Analytics Kellogg School of Management.
- Economic-Financial Management Fundação Dom Cabral.
- Master in Business Administration Fundação Getúlio Vargas.
- People Development Leadership Harvard Business School.
- Business Strategy and Sustainability IESE.
- Black Belt Certification (Six Sigma) USP.
- PhD student Organization Management, Business Analytics-USP | IPEN

Governance Risk and Compliance (GRC):

- Enterprise Risk Management
- Sarbanes Oxley | COSO certification
- FCPA, UK Bribery act, Brazilian/Italian anti-corruption laws
- Cyber Security requirements
- Anti-Money Laundering
- Investor Relations
- ACL platform
- Due Diligence
- Privacy

Business and Supply Chain:

- Strategic Economic-Fnance Planning
- New Business Development
- Merger & Acquisition;
- Business Analytics
- Government Affairs
- Environmental, Consumer Relations Health & Safety
- Licenses & Permitsi



Gerhd Leonhard: Digital Ethics, Al, Humanity and Brands

"It's quite clear if we don't have a moral compass and a value system and eventually we disconnect, then everything falls apart because we've lost our purpose. The bottom line as you know technology has no ethics, but society and humans depend on it".





CONTEXTO GLOBAL

Qual a quantidade de dados que nós criamos todos os dias?

"The amount of data we produce every day is truly mind-boggling.

There are 2.5 quintillion bytes of data created each day at our current pace, but that pace is only accelerating with the growth of the Internet of Things (IoT)".

Fonte: FORBES, 21 de maio, 2018.

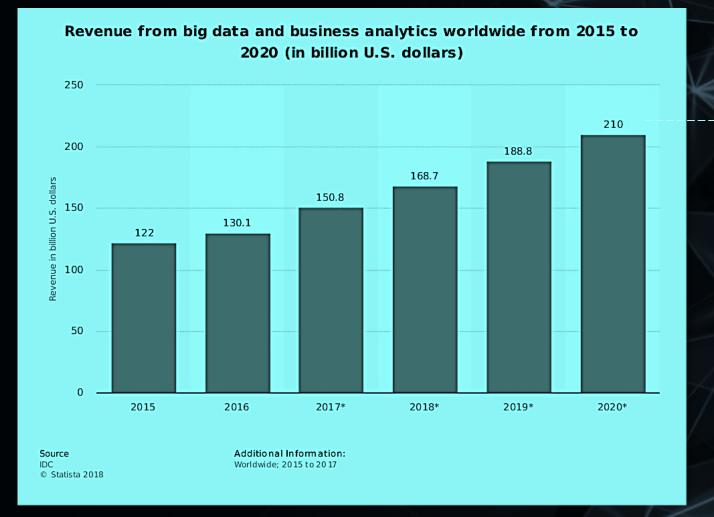


- Redes sociais
- Comunicação
- Fotos digitais
- Serviços
- Internet das coisas





MERCADO: BIG DATA & BUSINESS ANALYTICS



"A expectativa é que o mercado mundial de *Big Data* e *Analytics* chegue a US\$ 210 Bilhões" em 2020.

Fonte: Statista 2018



BIG DATA

• Big data is highvolume, highvelocity and/or highvariety information assets that demand costeffective, innovative forms of information processing that enable enhanced insight, decision making, and process automation.



ANALYTICS

Analytics is the discovery, interpretation, and communication of meaningful patterns in data. Especially valuable in areas rich with recorded information, analytics relies on the simultaneous application of statistics, computer, programming and operations research to quantify performance.



ANALYTICS





3,160 CIOs



98 countries



15 main industries

Porcentagem de respondentes por indústria.



21% Manufacturing



15% Government



11% Banking and Investment



11% Services



10% Education





5% Retail



4% Natural Resources



4% Transportation



4% Healthcare



Insurance

Energy/Utilities



2% Media



2% Telecom



Wholesale Trade



Healthcare Payers

gartner.com/SmarterWithGartner



The survey represented approximately US\$13 trillion in revenue/public sector budgets and \$277 billion in IT spending.

The survey showed that a majority of CIOs say that technology trends, specifically Cybersecurity and artificial intelligence (Al), will significantly change how they do their jobs in the near future.

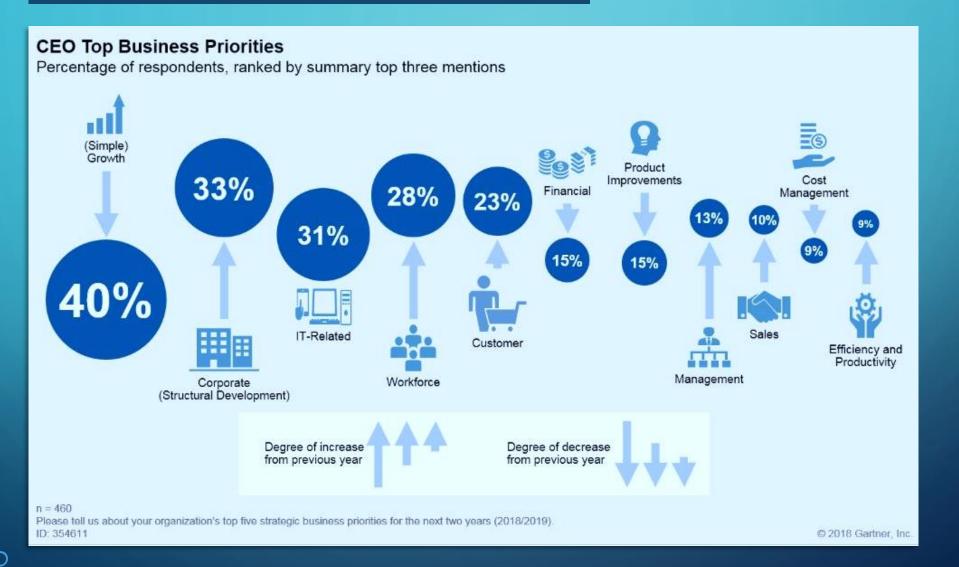
"In response to these concerns, the survey found that digital security ranks high on the CIO agenda as 35% of respondents said they have already invested and deployed some aspect of digital security.



"Forty-seven percent of CEOs said they are being challenged by the board of directors to make progress in digital business, and this enterprisewide focus on digital is also being felt by CIOs across industries".









The survey found that **Growth** is the No. 1 CIO priority for 2018, as reported by 26% of CIOs. The use of digitized products and services is expected to drive new forms of revenue, business value and engagement of customers and citizens





98 countries

"CIOs across most industries are struggling to move from experimentation to scaling their digital business initiatives"



15 main industries





RISCOS – OS 5 PRINCIPAIS QUE AFETAM AS EMPRESAS

65% Regulatórios





34% Tecnologia da informação





31% Execução estratégia de negócios

30%

Condições econômicas e de mercado





RISCOS CORPORATIVOS— CRIMES FINANCEIROS





RISCOS CORPORATIVOS – CRIMES CIBERNÉTICOS

76%

dos CEOs não consideram suas empresas preparadas para responder a um ataque cibernético





IMPACTO DA INTELIGÊNCIA ARTIFICIAL E ANALYTICS

CRIAÇÃO DE VALOR FRENTE AOS DESAFIOS



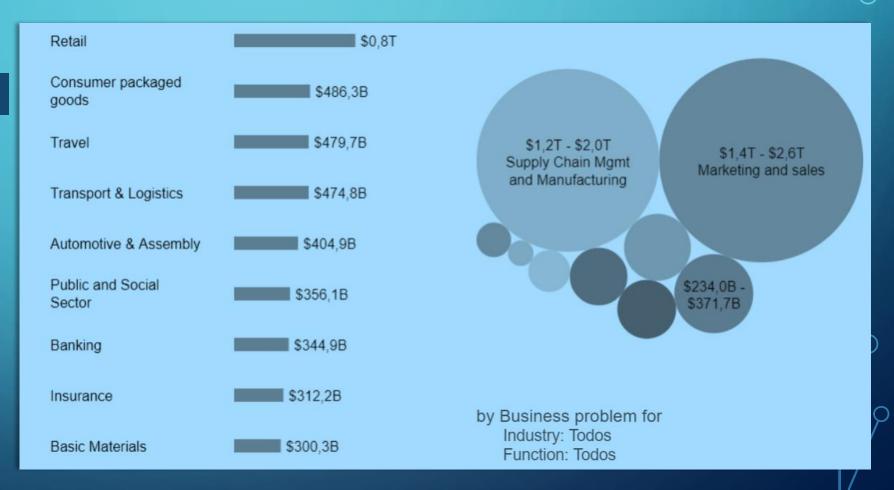
US\$ 3,5T - 5,8T



19 tipos industrias e ou setores



400 diferentes casos de negócio.





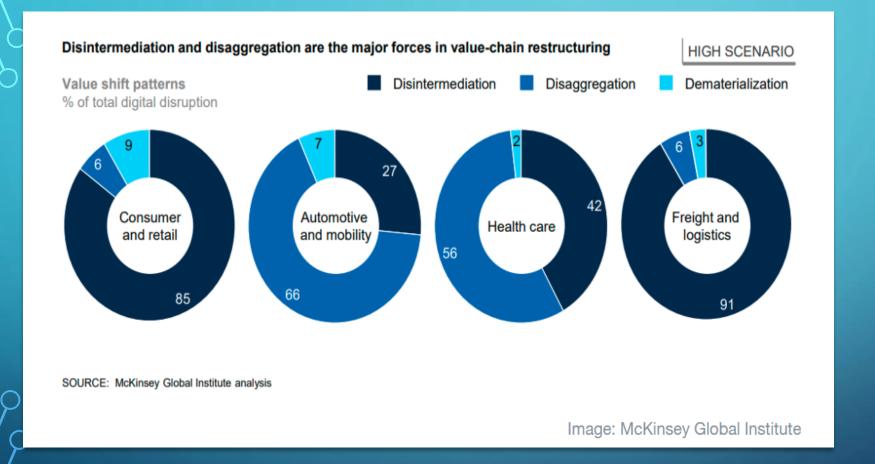
DIGITALIZAÇÃO - CONTEXTO GLOBAL

By 2030, digitization in China has the potential to shift (and create) value equivalent to 10 to 45% of the revenue pools across the consumer goods and retail, automotive and mobility, healthcare, and freight and logistics industries.

THREE DIGITAL FORCES CAN SHIFT (OR CREATE) 10-45% OF INDUSTRY REVENUE POOLS BY 2030 DISINTERMEDIATION DISAGGREGATION DEMATERIALIZATION Turning the physical into the virtual Using digital to cut out Breaking up large items (3-D printing, virtual reality) (cars, properties) and repackaging as services THE POTENTIAL IMPACT OF THE THREE FORCES IN FOUR KEY SECTORS IS LARGE CONSUMER AND RETAIL **AUTOMOTIVE AND MOBILITY HEALTH CARE** FREIGHT AND LOGISTICS 13-34% 10-30% 12-45% 23-33% Image: McKinsey Global Institute



DIGITALIZAÇÃO – CONTEXTO GLOBAL





For large, traditional companies in particular, this means a substantial portion of their revenue could be at risk of being lost to new products, services and business models from digital companies.

Fonte: McKinsey global Institute



BOTS - WORLD ECONOMIC FORUM

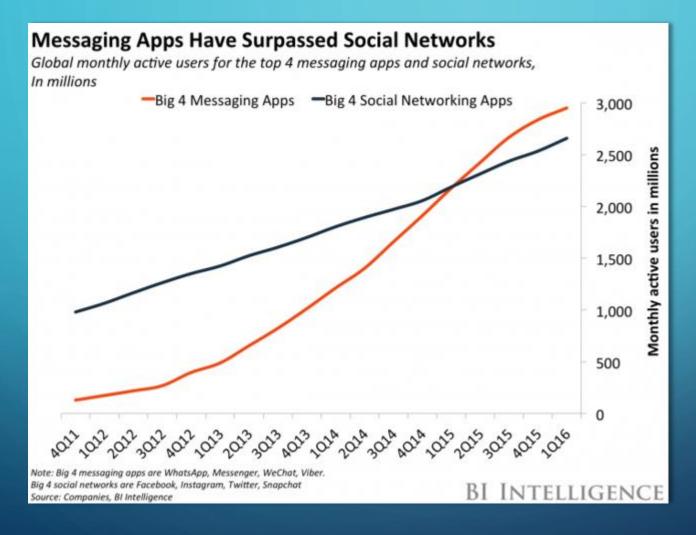


According to a recent report by Grand View Research, the global chatbot market is expected to reach \$1.23 billion by 2025, a compounded annual growth rate (CAGR) of 24.3%

Fonte: Busines Insider – Chatbox Market stats 2017



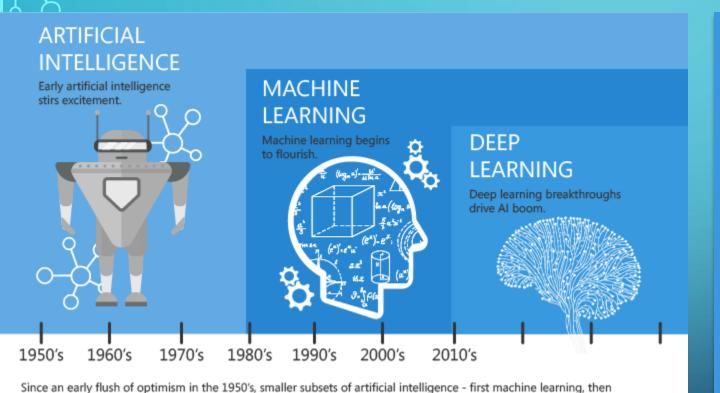
BOTS – TENDÊNCIAS E CRESCIMENTO



The four top messaging apps surpassed the top four social networks in terms of global monthly active users in 2015, and they continue to grow.



BOTS – TENDÊNCIAS E CRESCIMENTO



deep learning, a subset of machine learning - have created ever larger disruptions.

- Maiores avanços em Inteligencia artificia e Aprendizado de máquina:
 - Percepção;
 - Cognição.
- Reconhecimento de voz ainda tem um longo percurso a se desenvolver.
 - ✓ Líderes: Apple, Amazon, and Google:
 - ✓ Produtos: Siri, Alexa and Google Assistant, respectively.

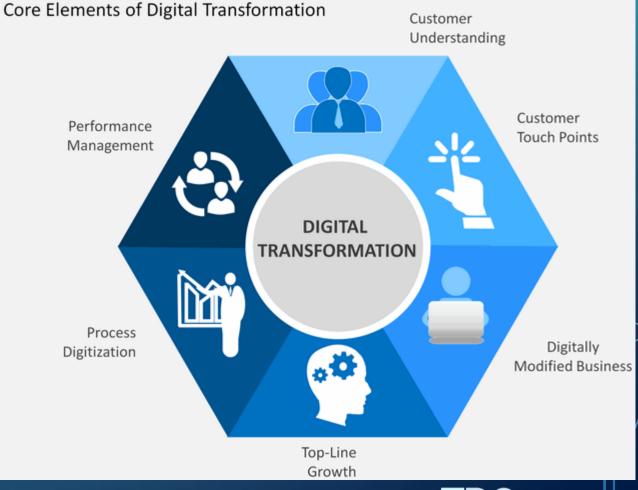


TRANSFORMAÇÃO DIGITAL

Habilidades necessárias para a transformação digital



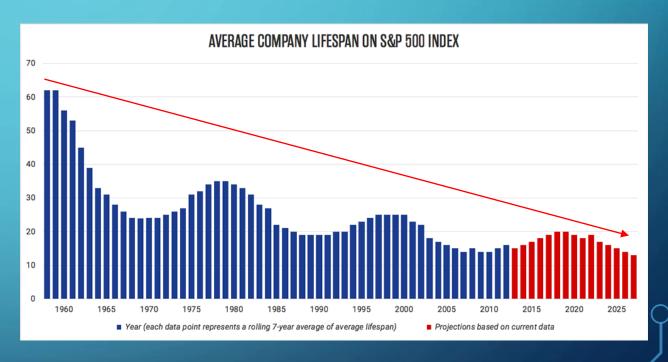
Principais elementos da transformação digital





TEMPO DE VIDA MÉDIO DAS EMPRESAS NA S&P 500

• The disruptive force of technology is killing off older companies earlier and at a much faster rate than decades ago, squeezing employees, investors and other stakeholders, according to a new report.



- In 1965, the average was 33 years.
- By 1990, it was 20 years.
- By 2026 the forecast is 14 years.

Fonte: Credt Suisse 2017







INNOVATION EXAMPLES



Cancer detection pen



INNOVATION EXAMPLES





INNOVATION EXAMPLES



Intelligent stethoscope



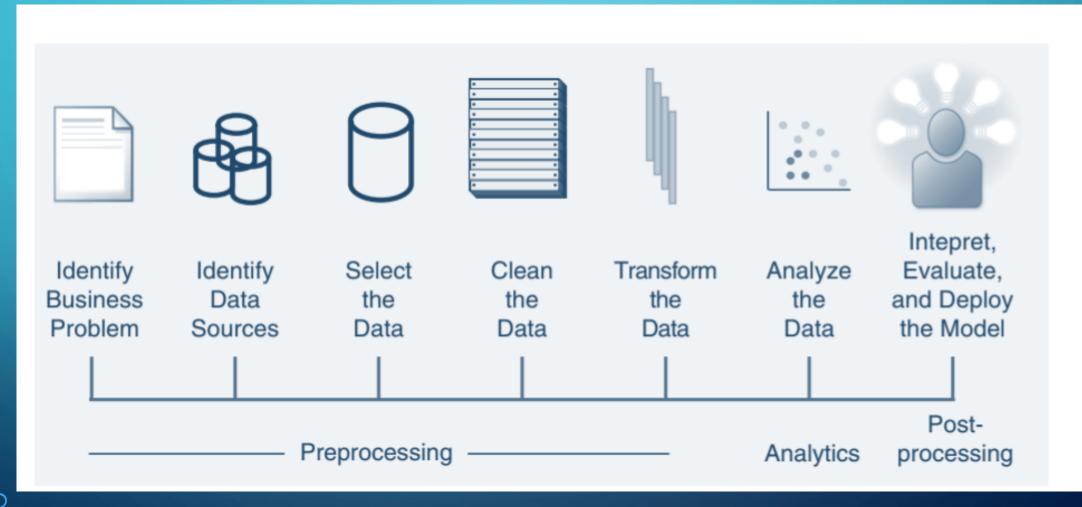
INNOVATION EXAMPLES



Fight against plastic



Técnicas de *Big Data* contra fraude Modelo de análise de fraude





Técnicas de *Big Data* contra fraude

Fraude em cartão de crédito

 Table 1.3
 Example Credit Card Transaction Data Fields

Transaction ID	Transaction type	Date of transaction
Time of transaction	Amount	Currency
Local currency amount	Merchant ID	Merchant category
Card issuer ID	ATM ID	Cheque account prefix

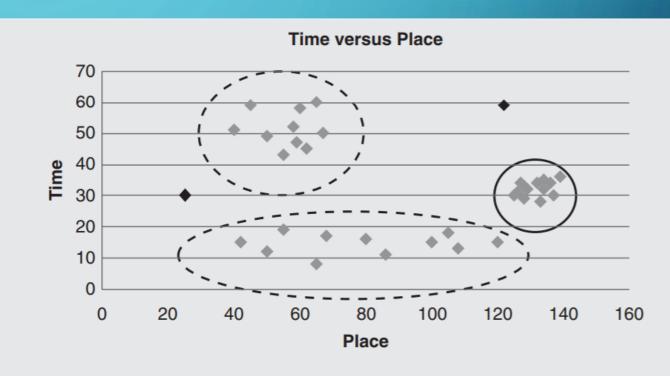


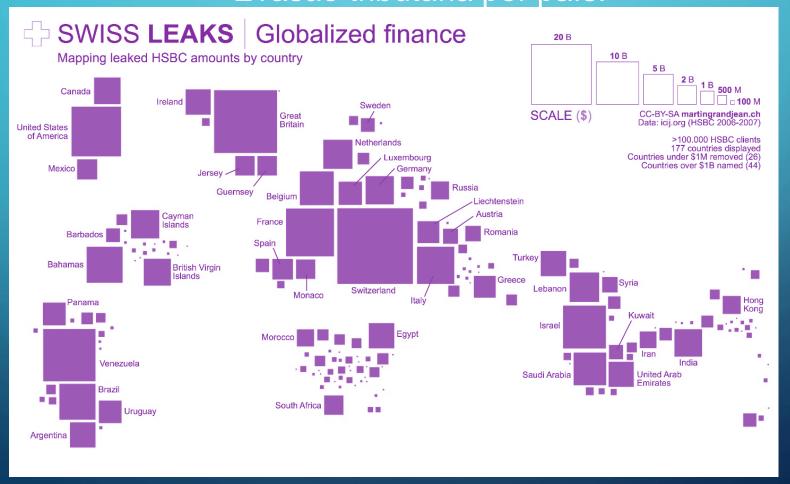
Figure 1.4 Outlier Detection at the Data Item Level



> Técnicas de *Big Data* contra fraude

Data Visualization:

Evasão tributária por país:





Fonte: Fraud Analytics – Wiley, 2015

EXEMPLOS CASOS PRÁTICOS

PREVENÇÃO DE FRAUDE E DETECÇÃO.

Alimentação e entretenimento

Marketing & Eventos

SAC e Vendas

Cyber e ameaças internas

Contratos

Distribuição & Análise de margens

Pagamento de terceiros

Investimentos em projetos

Centros de custos

Inventário

Due Diligence e monitoramento

Reconhecimento de receita

Atividades de monitoramento emergentes incluem:

Monitoramento Redes sociais

Monitoramento avançado de email

Dispositivos móveis



PLANEJAMENTO ESTRATÉGICO



WHAT DIRECTORS THINK

"We found that one thing is on the minds of directors more than anything else these days: technology"

Spencer Stuart Survey specialist

A CORPORATE BOARD MEMBER/SPENCER STUART SURVEY



HIGHLIGHTS

6 out of 10 directors say their top concern is cybersecurity.

57% of directors say an enhanced brand image and reputation and a greater ability to attract and retain employees

are the two biggest benefits of a corporate social responsibility program.

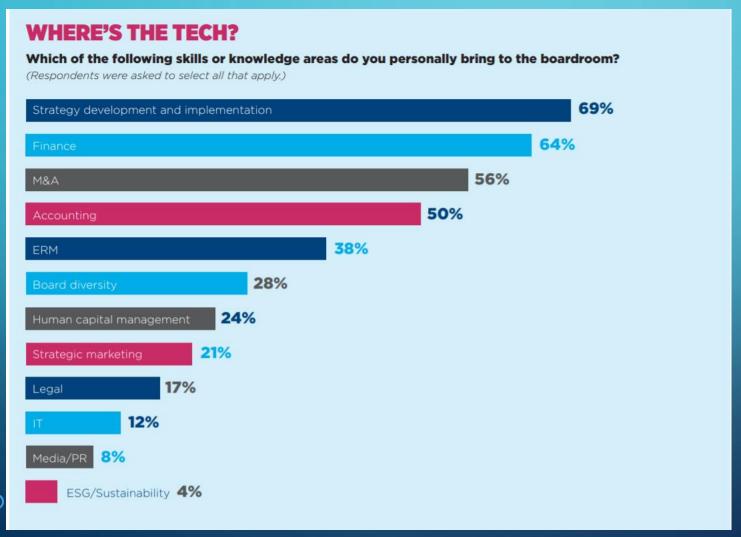
The majority of directors support increased cyber regulation.

20 percent of new S&P 500 directors have backgrounds in the technology or telecommunications industries.

Half of directors say their company has a corporate social responsibility policy in place, with an additional 10 percent saying they have one in the works.



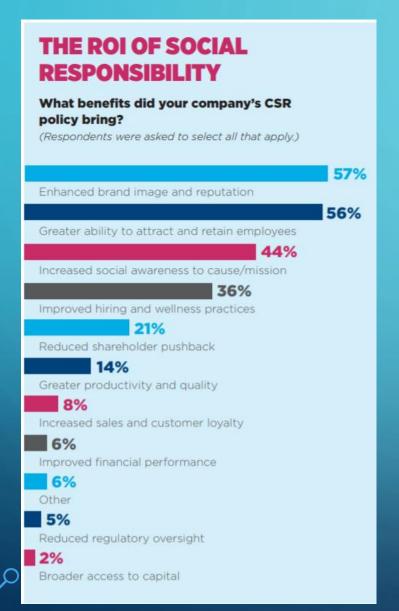
QUAIS HABILIDADES OU CONHECIMENTO VOCÊ CONVIDARIA PARA PROVER *INSIGHTS* ÀS REUNIÕES DO CONSELHO?



- 63 percent said their board has at least one member with the technical skills to engage in a meaningful discussion with senior information security
- Disruptive innovations remain the two main issues that directors told us would be on the agenda if they could bring a panel of experts to their boardroom to provide insights



WHAT BOARD THINKS SURVEY 2018



"Institutional investors have now begun to shift their focus to the social involvement of corporations. And increasingly, the public is demanding it as well".



O Futuro das áreas de Controle

Próximos anos Curto prazo Hoje **Fundamental** Modernização Criação de Valor

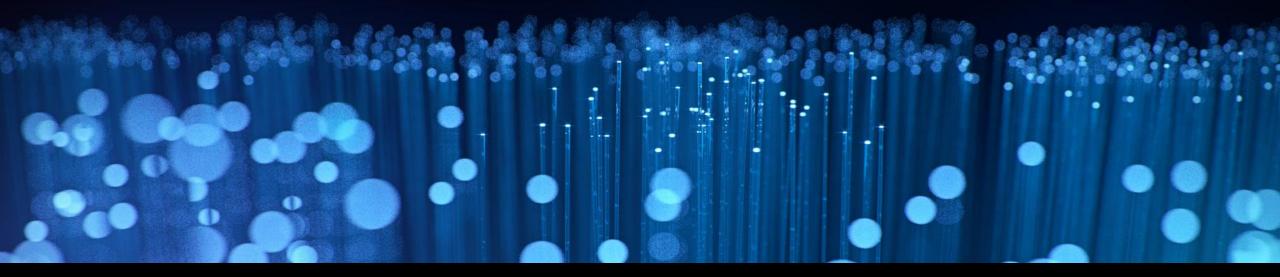
Compliance clássica e tradicional







Obrigado



Felipe Dal Belo

felipedalbelo@yahoo.com.br +55 11 96401-1232