

CORPORATE GOVERNANCE DEVELOPMENT FRAMEWORK

12th Annual DFI Corporate **Governance Conference**

Working Group members are:













hosted by





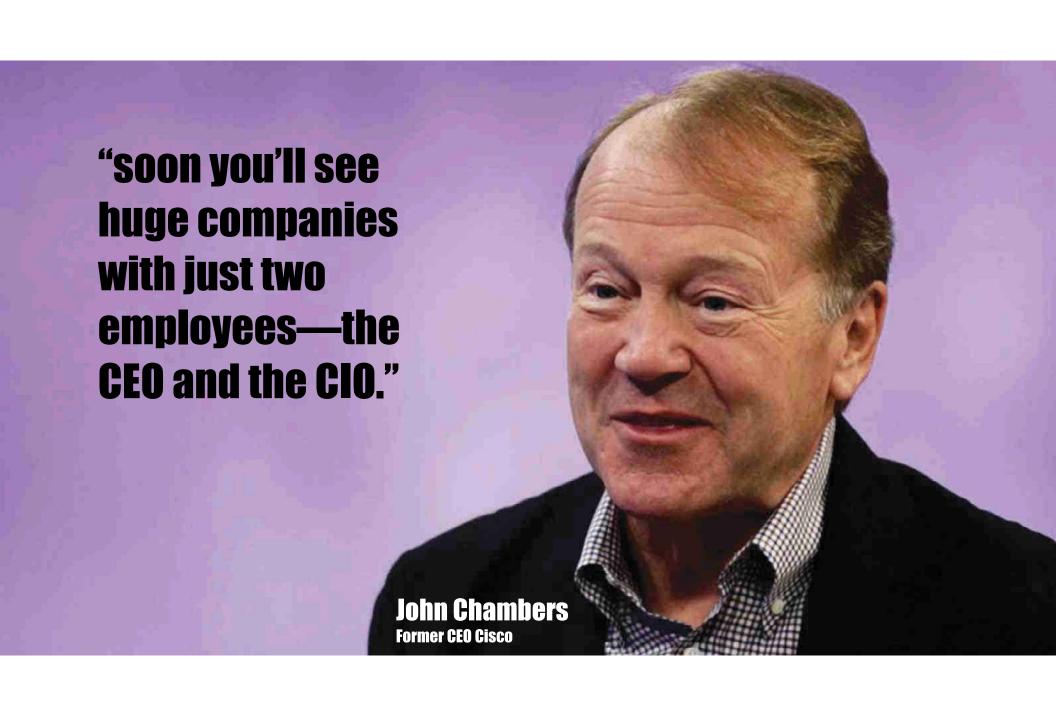


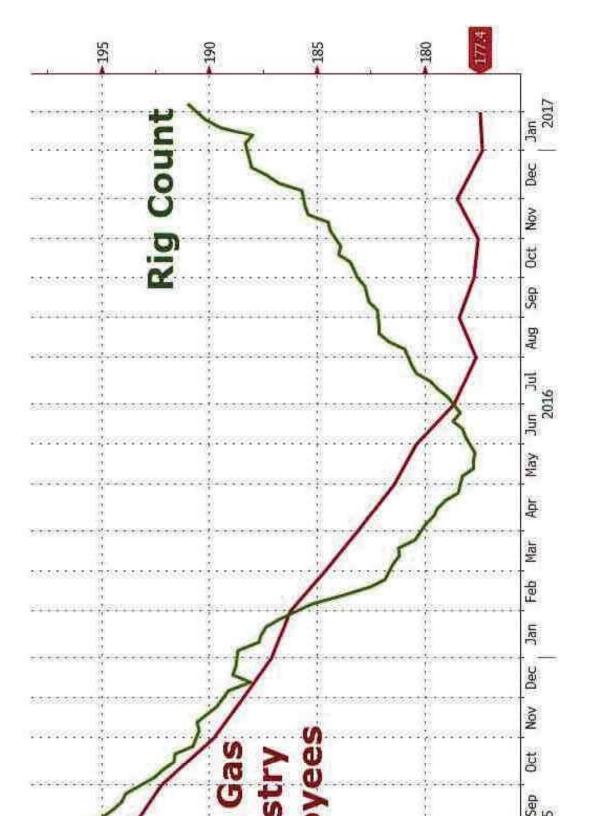


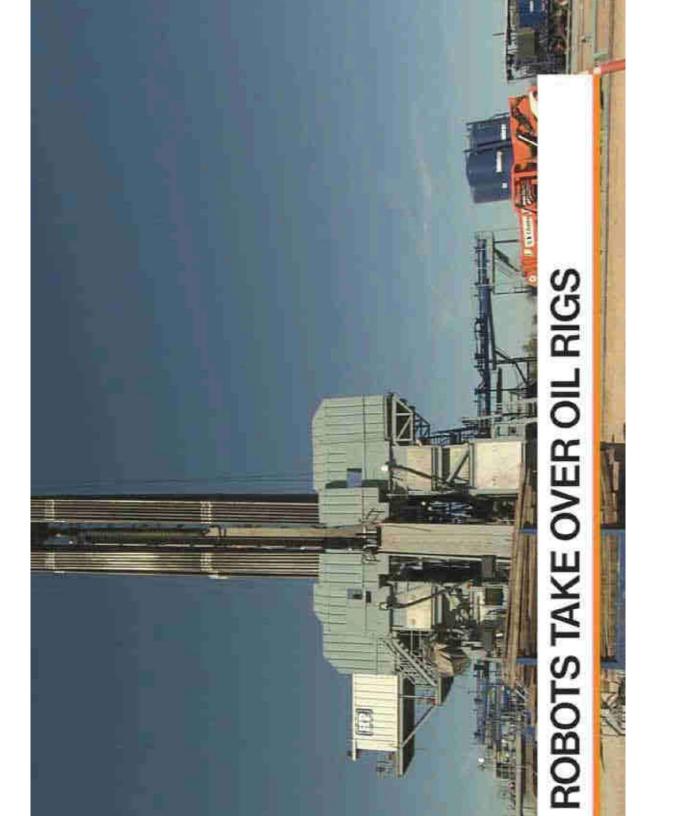


Welcome to 2030. I own nothing, have no privacy, and life has never been better









You Need to Study e or You'll be a

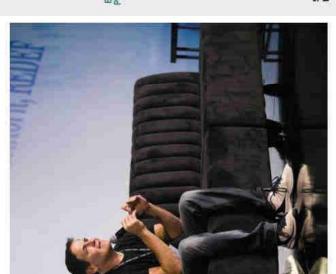
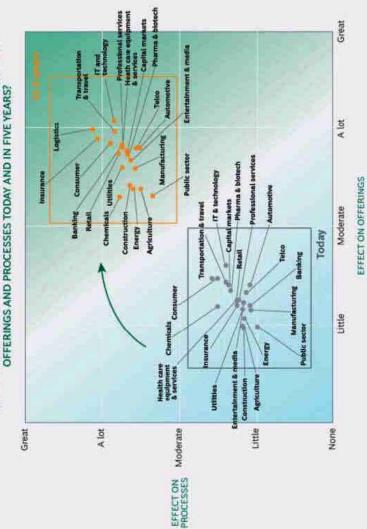


EXHIBIT 1 Expectations Run High for Al's Effect on Business Across Industries

WHAT EFFECT WILL THE ADOPTION OF AI HAVE ON YOUR ORGANIZATION'S OFFERINGS AND PROCESSES TODAY AND IN FIVE YEARS?



Source: Joint BCG-MIT Stoon Management Review survey on the impact of artificial intelligence on bushness, 2017.

Note: Average of all respondents per Industry, based on a five-point scale.



Alicia T.

Al's role in the leadership team is to drive truly data-driven decision-making and innovate new data-driven ideas

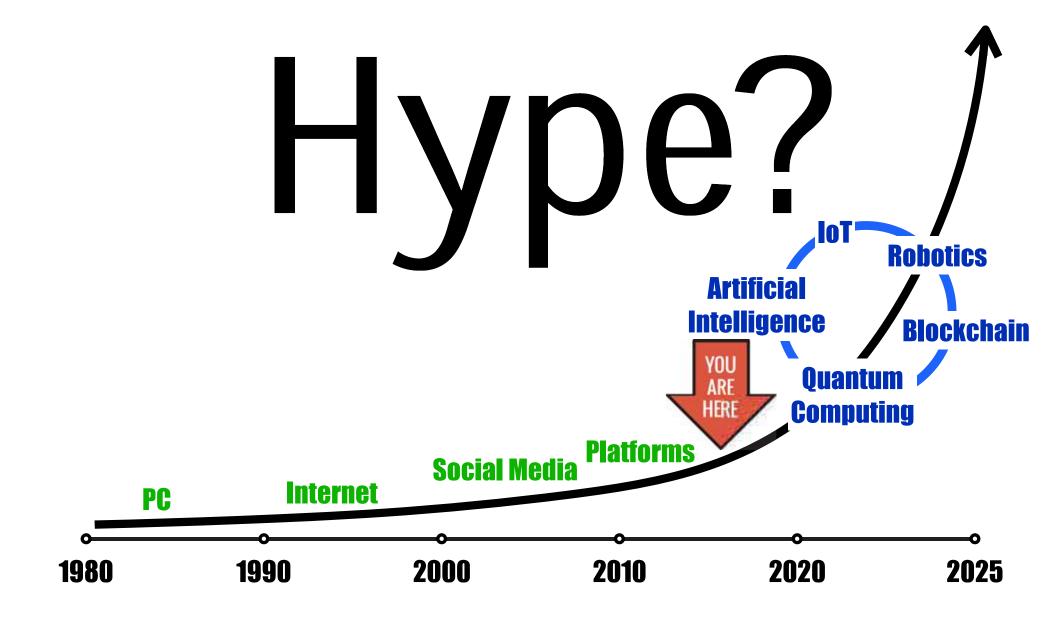
With AI called Alicia T. we wanted
 in an agile 'startup' way – to study the effects of decision-making in human-robot teams.

 Alicia T. will leverage semantic natural-language processing and supervised learning

 Over time, Alicia T. "learns" what type of information is most useful to users and delivers tailored results

 Al will continue to evolve in both form and data capacity – its story will continue



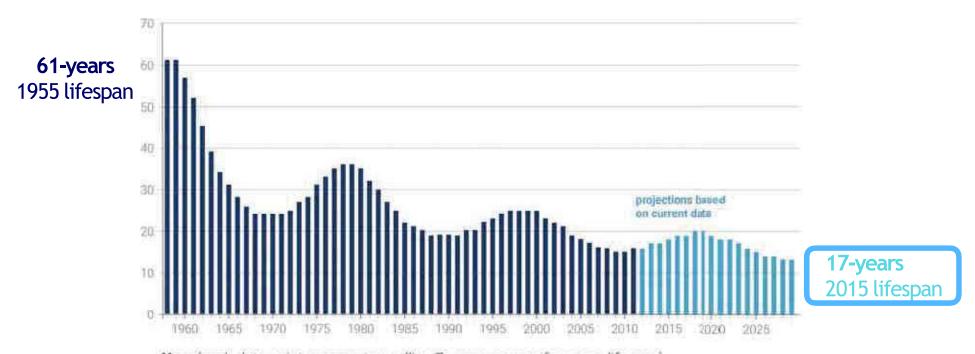


What Should We Be Doing Now to get to



IN THE LAST 15 YEARS

52% of S&P 500 companies have disappeared



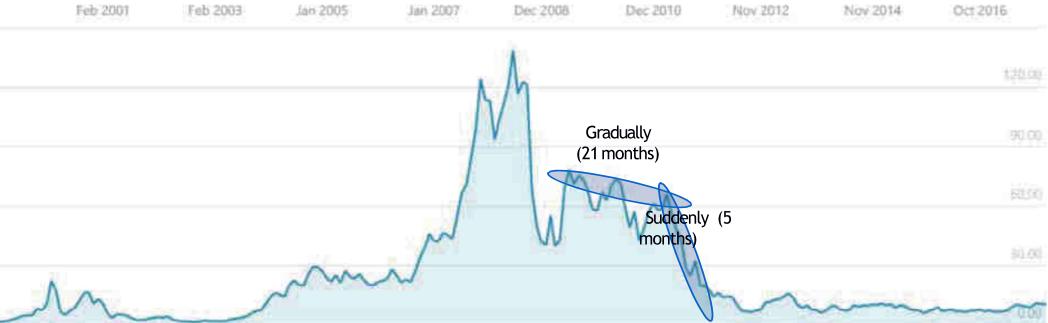
Year (each data point represents a rolling 7-year average of average lifespan)



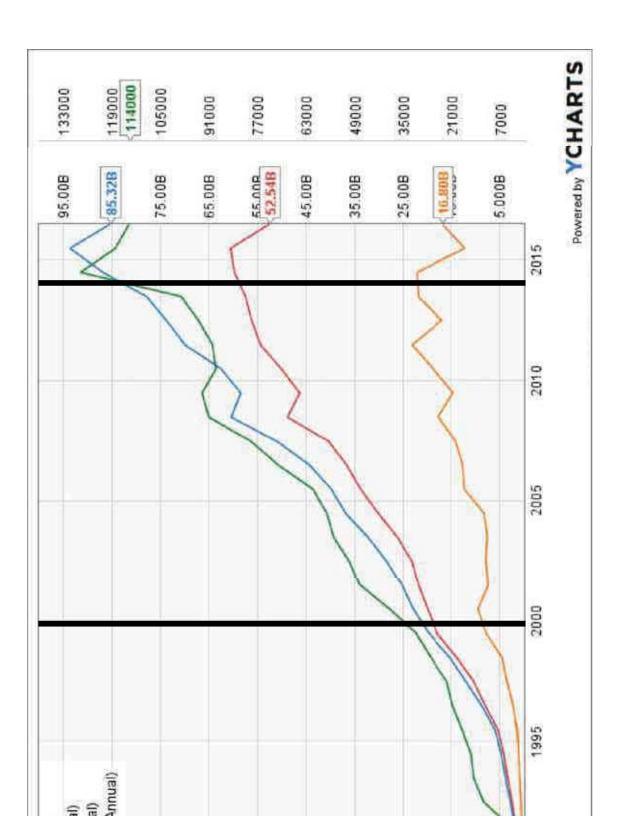
Source: INNOSIGHT/Richard N. Foster/Standard & Poor's

Gradually, then Suddenly in Action









Gates



Windows 8 Sarface Bing Windows 7 Windows Vista Ballmer Xbox 360 Xbox Windows XP Windows 98 IE4 Windows 95

2010

2005

2000

10105

Windows 3.1

aws 3.0



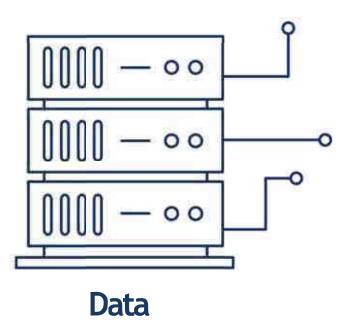


intelligence-driven enterprises win

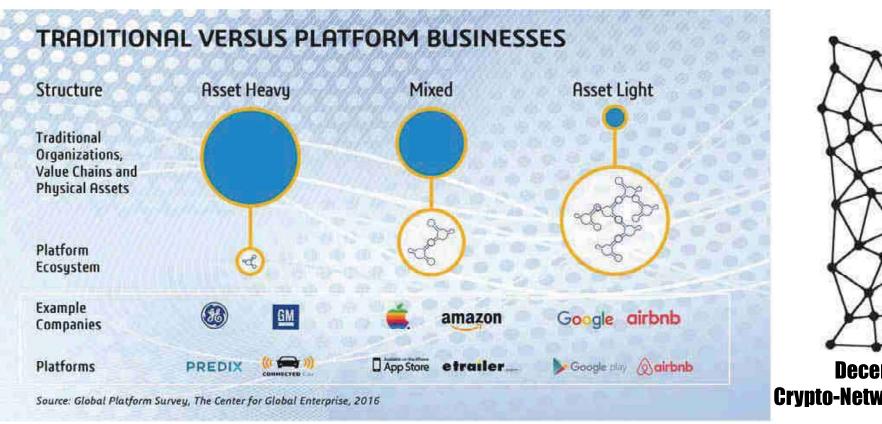
The two things making business faster

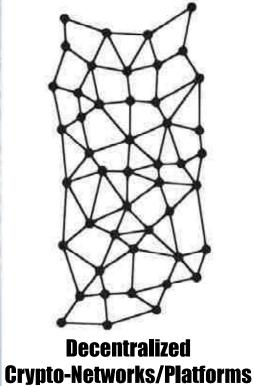


Technology









Technology can do what "managers" used to do

Flatter, more decentralized, organizations innovate faster





90 years	Age	9 years
1.1 million in 110 countries	Rooms/Listings	2 million in more than 191 countries
127,500	Employees	4,227
\$17.8bn	Valuation	\$30bn
\$0.1m	Value per Employee	\$7m

September 2016



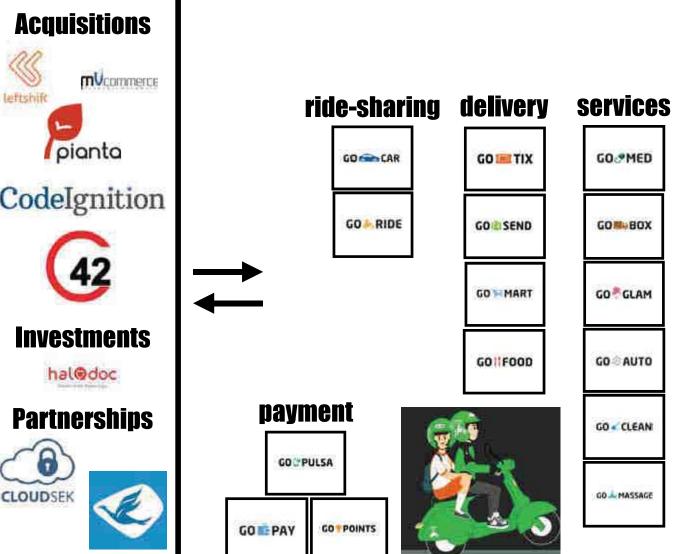


Investors

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rain Equity (Lead)







GO MED

GO BOX

GO GLAM

GO @ AUTO

GO CLEAN

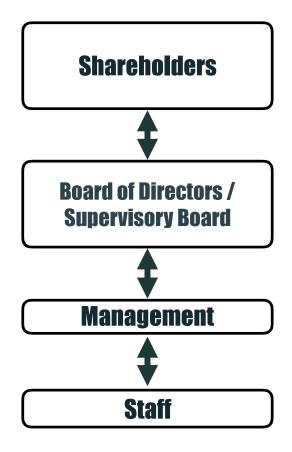
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Hierarchical Organization

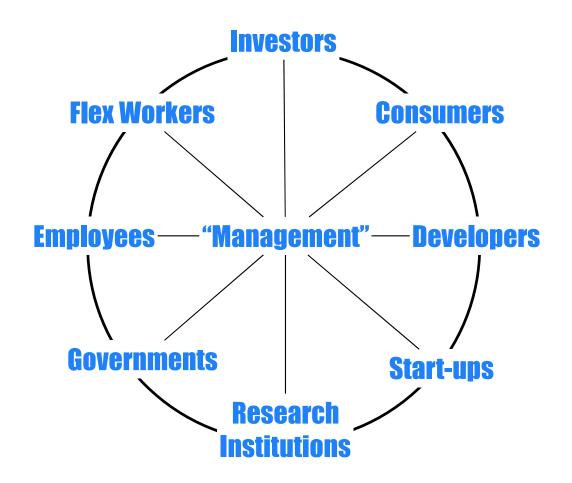
Flatter (more decentralized) **Organization**

20th Century Company

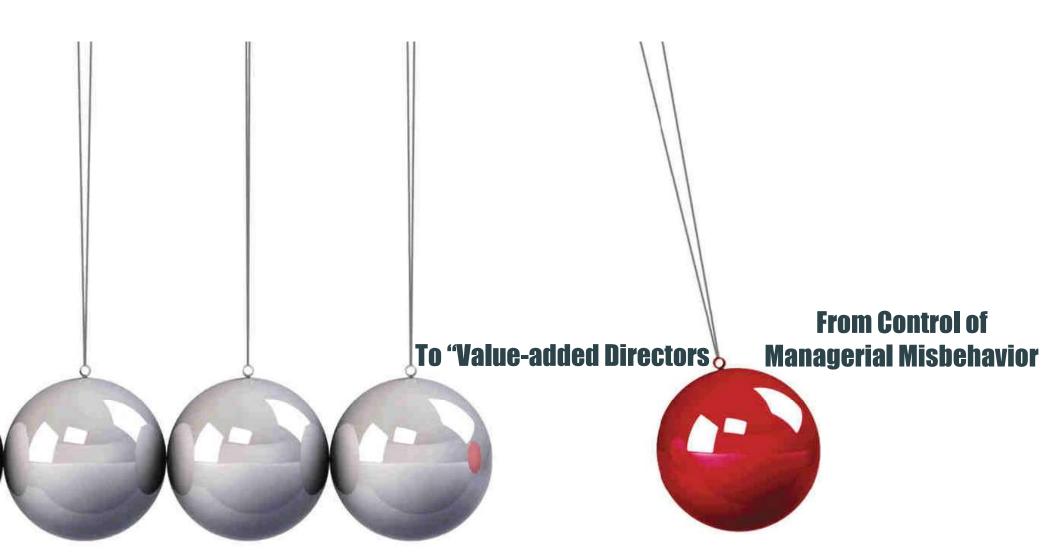
21st Century Company **Employees Developers Investors** Flat Hierarchy Open **Seniority** Visionary Communication Leadership **Flexible** Meaningful, Relevant **Workers Managers** Experience for **Governments** Stakeholders **Consumers Start-ups** Inclusive Partnering **Other Suppliers Companies**



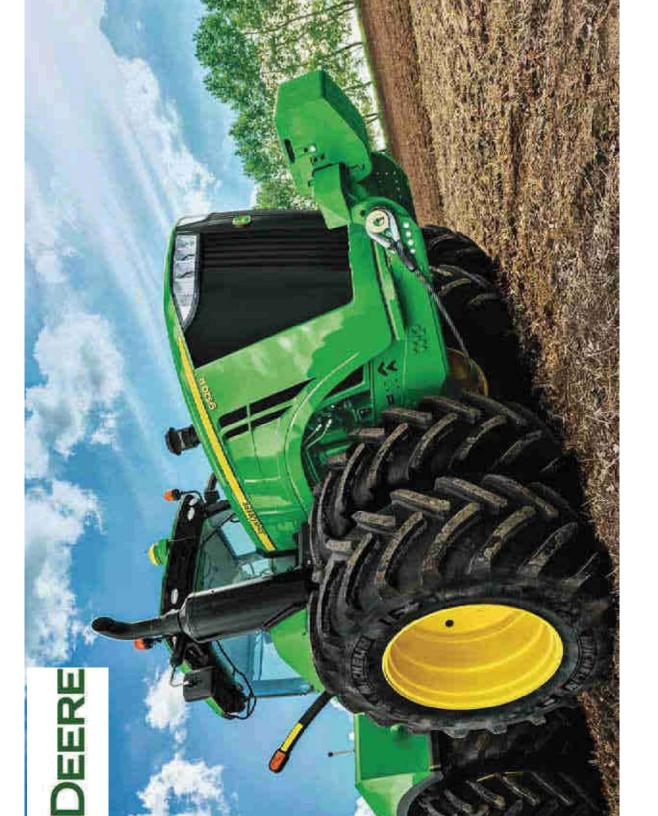
Hierarchies, Profit, Control, Focus on Managerial Misbehavior

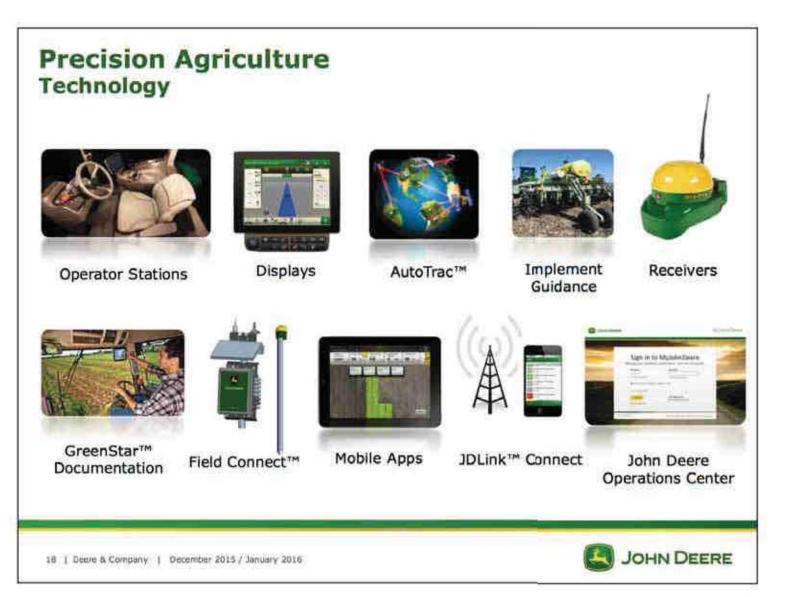


Networks, Purpose, Empowering, Experimentation, Collaboration, Co-Creation



Board of Directors







Sheila G. Talton





Directors as "Consumer Experts"

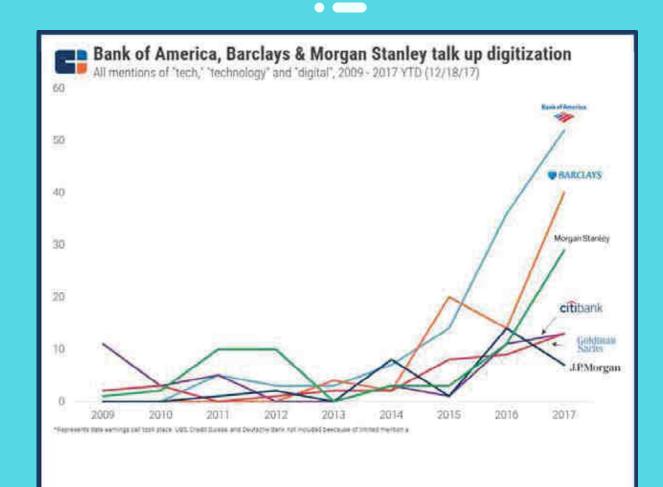


Compliance with classical corporate governance standards is not Enough



Now, more are talking up their own digital capabilities

Mentions of "technology" and "digital" on bulge bracket bank earnings calls have jumped in 2017.

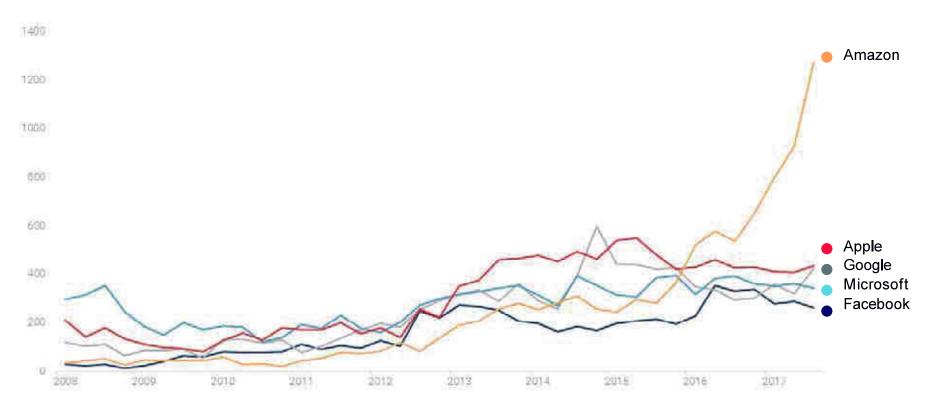




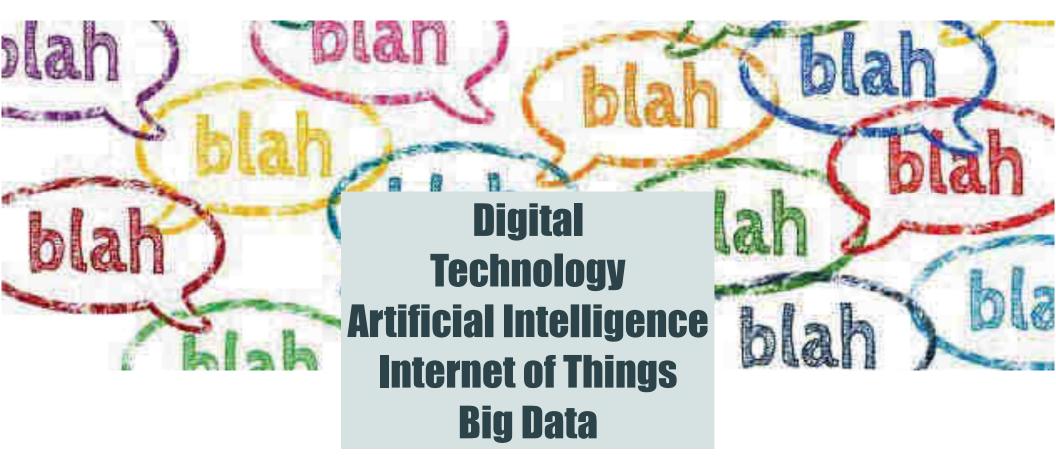
BEZOS ON THE BRAIN

Public co execs talking Amazon on earningscalls

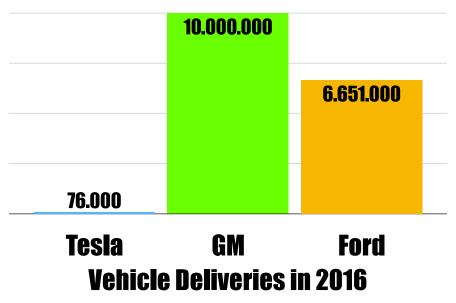
Mentions of the 5 largest tech companies in earnings callsby quarter

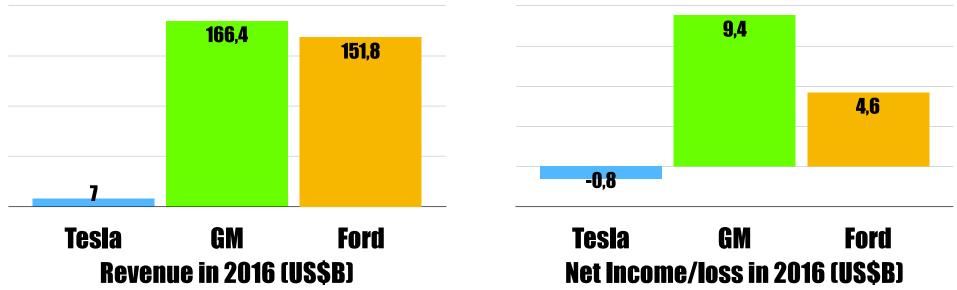






Often empty talk and actions without being genuinely committed to the digital transformation







The Economist Follow

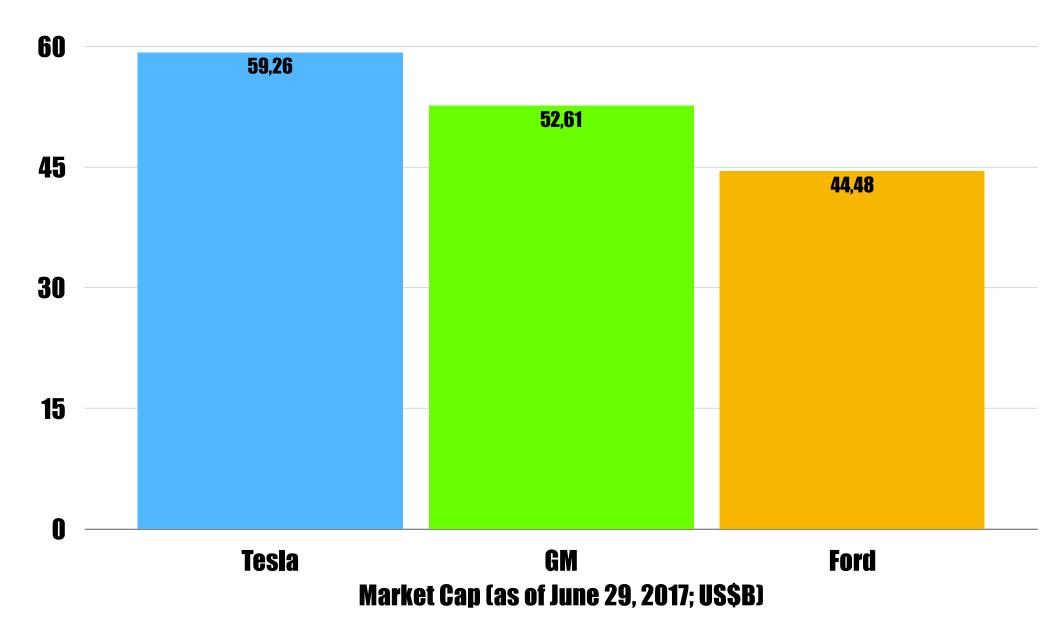
Insight and opinion on international news, politics, business, finance, science, technology, books and

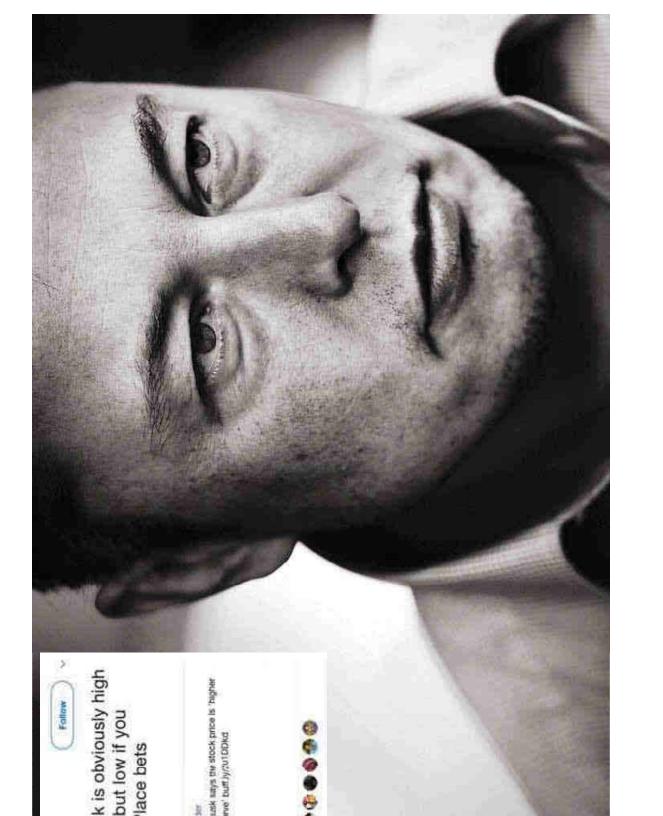
Oct 21 - 5 min read

Firms that burn \$1B a year are sexy but statistically doomed

Five outliers — Chesapeake Energy, Netflix, Nextera Energy, Tesla and Uber — have collectively lost \$100B in the past decade.







art Deux

10 years ago is now in the final stages of completion. It wasn't all consisted of:

ch would necessarily be expensive

medium volume car at a lower price

affordable, high volume car

ing, this has literally been on our website for 10 years.



ter Plan, Part Deux is:

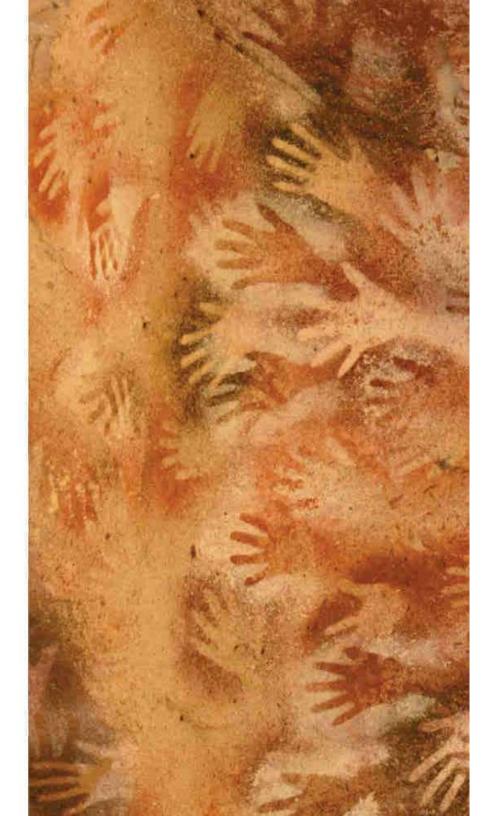
ving capability that is 10X safer than manual via massive fleet learning c vehicle product line to address all major segments olar roofs with seamlessly integrated battery storage make money for you when you aren't using it

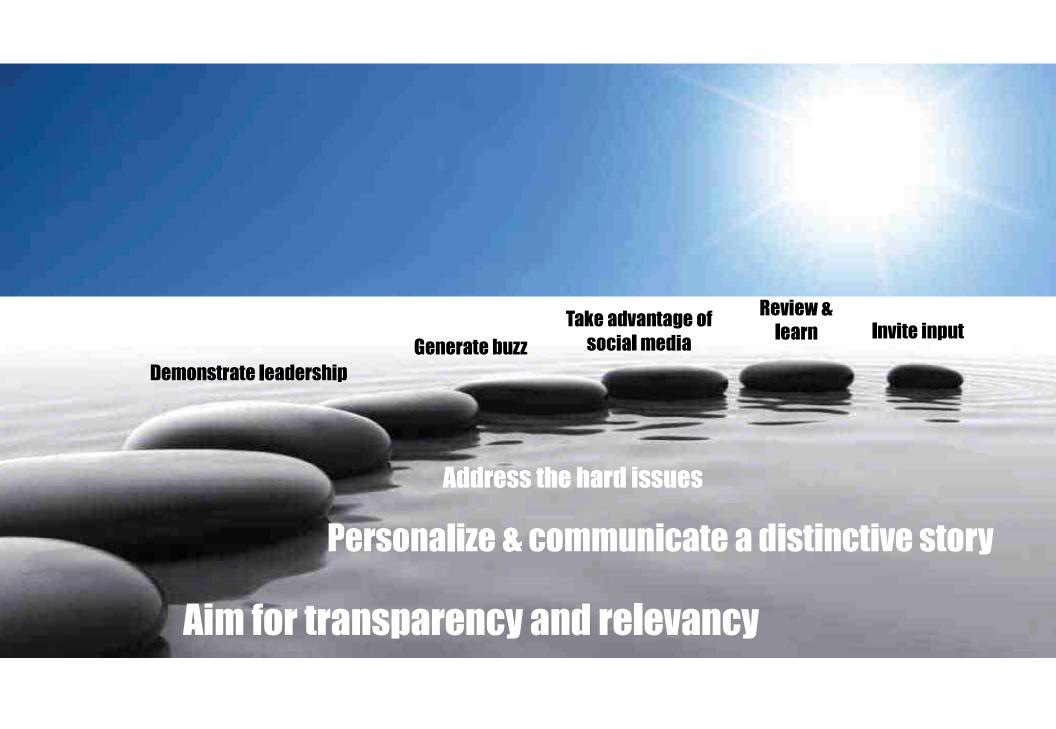




How to tell a story in the blockchain world?

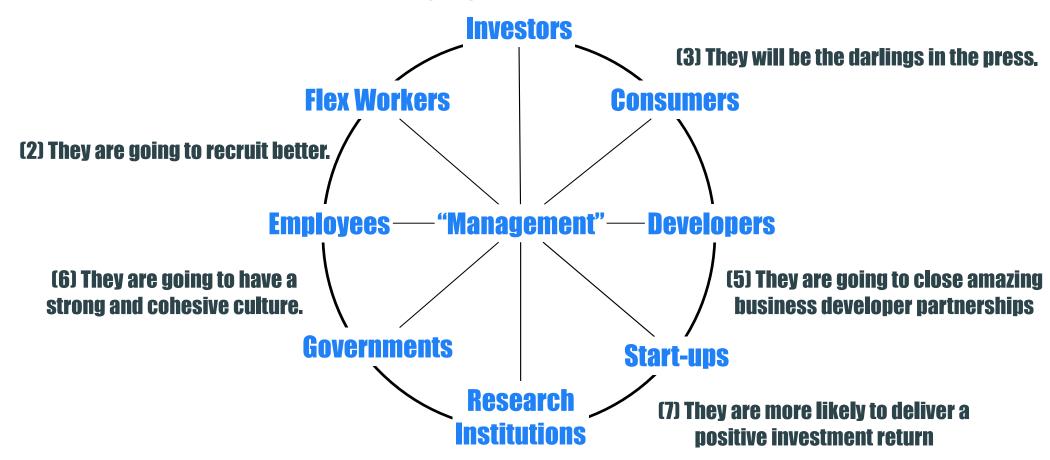
See where the caveman has arrived since those cave paintings.



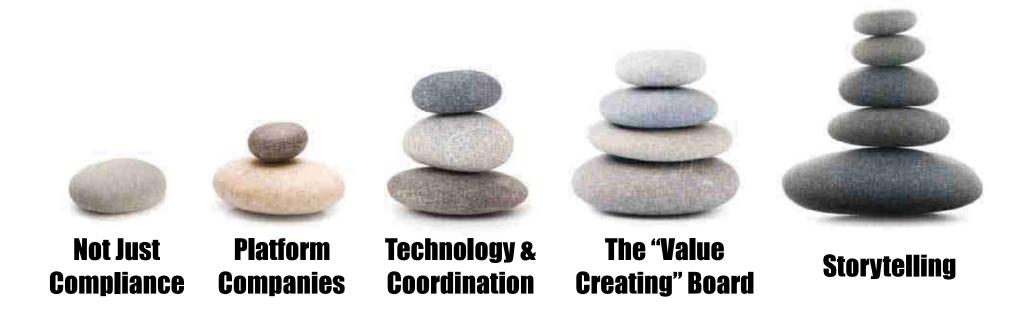


(1) The great storytellers have an unfair competitive advantage.

(4) They are going to raise money more easily.



Corporate Governance in a Digital Age



Join the conversation!



e.p.m.vermeulen@tilburguniversity.edu

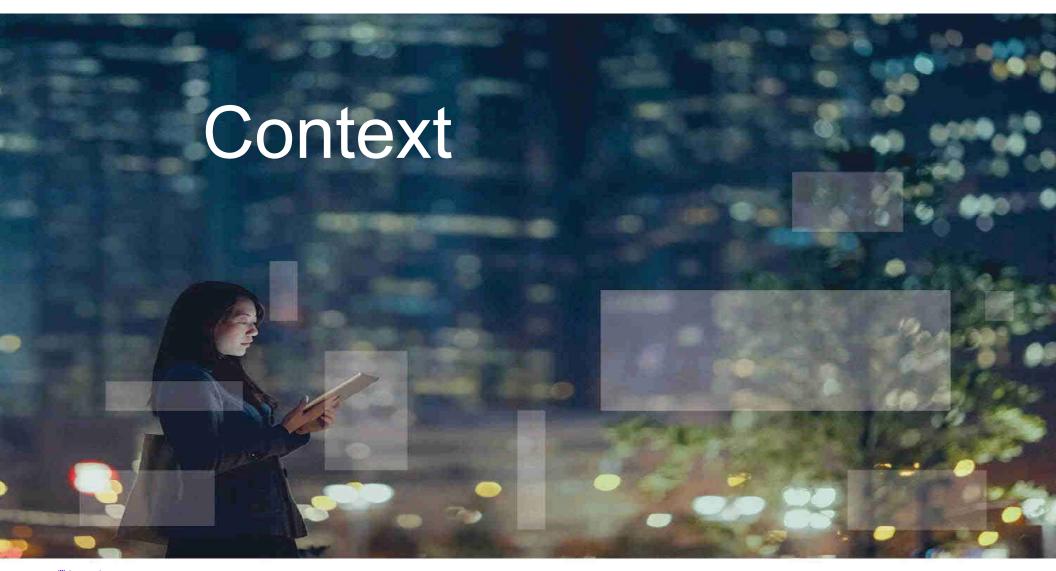


Medium medium.com/@erikpmvermeulen



@erikpmvermeulen erikpmvermeulen





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We have entered the Fourth Industrial Revolution

It Is:

- a digital revolution
- characterized by the fusion of technologies blurring the lines between the physical, digital, and biological spheres
- A revolution of technological breakthroughs (e.g., Artificial intelligence, robotics, the Internet of Things)

t will:

- disrupt almost every industry in every country
- have a significant impact on jobs
 - significant job creation to job displacement
 - heightened
 labor productivity
 to widening skills
 gaps

We see:

- the most in-demand occupations or specialties did not exist 10 or even five years ago
- 65% of children entering primary school today will ultimately end up working in completely new job types that don't yet exist

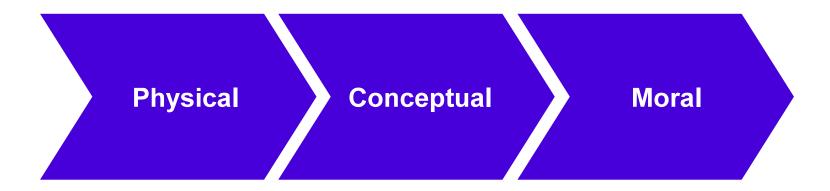
Context

Scope of the cyber landscape

Global	Cyber	Threat
Covering, influencing or relating to the whole world, land, sea, air and space	Notional environment within which electronic communications occur	Intent, capability and opportunity. Indication of imminent harm, danger or pain

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Capability

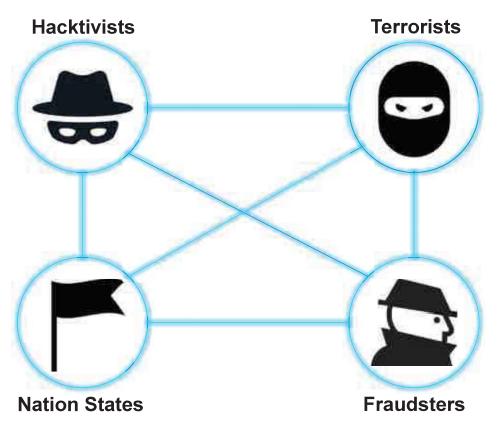




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Willis Towers Watson III'IIII

Global cyber actors – intent?



Cyber Attacks

The world we live in

\$400bn

Global cost of cyber crime per year

\$4m

Average cost of a single breach

431m

New malware variants added in one year

2/3rds 1/3rd

£M's

LARGE FIRM **BREACHES**

'two thirds of large businesses experienced a cyber breach or attack in the past year'

EFFECTIVE POLICIES

'Only 'about a third of all firms, had formal written cyber security policies'

EFFECTIVE MANAGEMENT

'only 10% had an incident management plan in place'

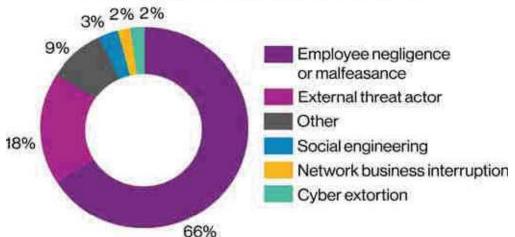
THE IMPACT

in some cases the cost of cyber breaches and attacks to business reached millions'

Employee actors have become the top source of breaches

- Employee negligence or malicious behaviors are the most common source of cyber incidents
- The workplace is thus a major influence in mitigating cyber risk using all the tools at an organization's disposal, such as:
 - Strong culture
 - Effective recruitment, onboarding, and induction
 - Targeted training, compliance, and incentive policies

Percentage of claims by breach type



Source: Willis Towers Watson claims data

Cyber Risk

The availability of systems and data coming under increasing legal scrutiny



Cyber incident response - what should you do?

Reporting a cyber incident

Under Principle 11 of the FCA Handbook, you must report material cyber incidents. An incident may be material if it:

- results in significant loss of data, or the availability or control of your IT systems
- affects a large number of customers
- results in authorised access to, or malicious software present on, your information and communication systems

We will update these requirements in line with any future regulations.

EU Network & Information Security Directive

- Applies to providers of "Essential Services"
- Fines expected to be similar to GDPR
- Security of networks and information systems (not necessarily the data held on them)
- Make sure the digital economy stays up and running.

Art 32.1 GDPR

Implement appropriate technical and organisational measures to ensure a level of security appropriate to the risk, including inter alia as appropriate.... (b) the ability to ensure **the ongoing confidentiality**, **integrity**, **availability and resilience of processing systems and services**

Cyber Risk

GDPR Governance is key to avoiding.....

Enforcement

Supervisory Authority (e.g. ICO) may:

- carry out audits;
- issue orders to suspend or cease processing; or
- order suspension of data flows to third countries.

Enforcement applies a breach of **any** GDPR requirement.

Mandatory data breach notification may reveal wider GDPR breaches and therefore increase the number of enforcement actions.

Sanctions

Tier 1: 2% Annual Turnover / EUR 10m

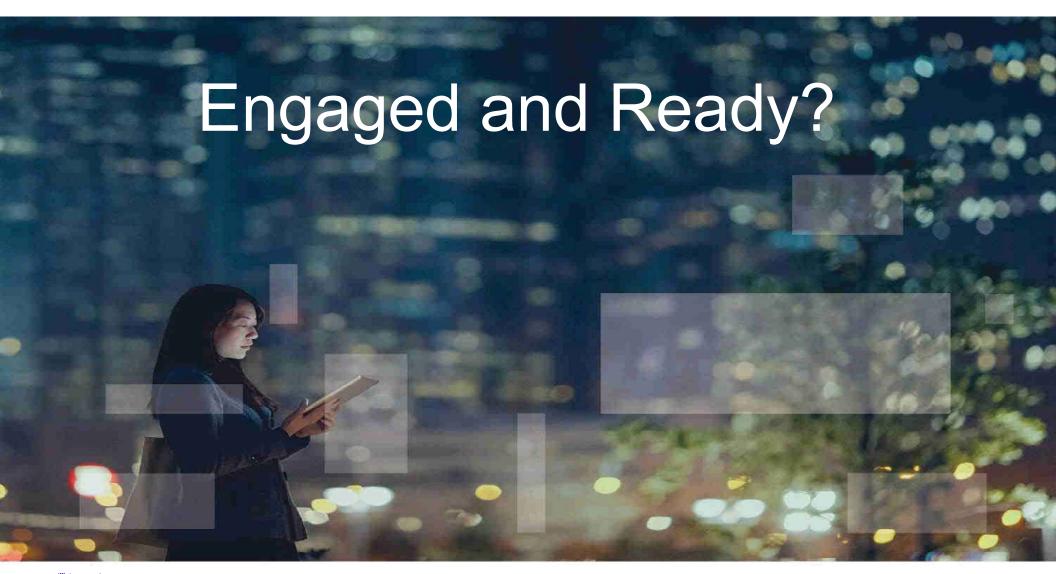
Tier 2: 4% Annual Turnover / EUR 20m

Member States may introduce criminal sanctions.

Compensation

Compensation for material (i.e. financial) and non-material (i.e distress / moral damage) for GDPR breaches.

Typical awards in UK for distress £2k - £15k but precedents exist for up to £250,000.



Board Responsibility (Corporate Governance Code) - Cyber

Leading a framework of prudent and effective controls



- Enabling risk to be assessed and managed
- Set strategic aims
- Ensure the necessary financial and human resources are in place



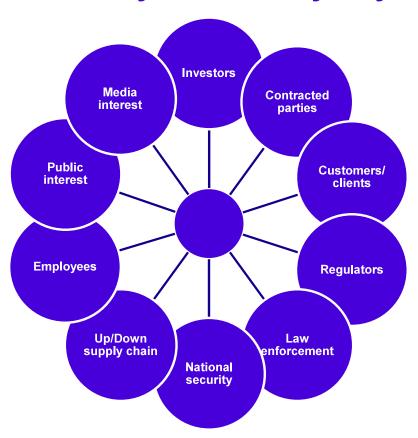
- Review management performance
- Set the companies values and standards
- Ensure that obligations to shareholders and others are understood and met



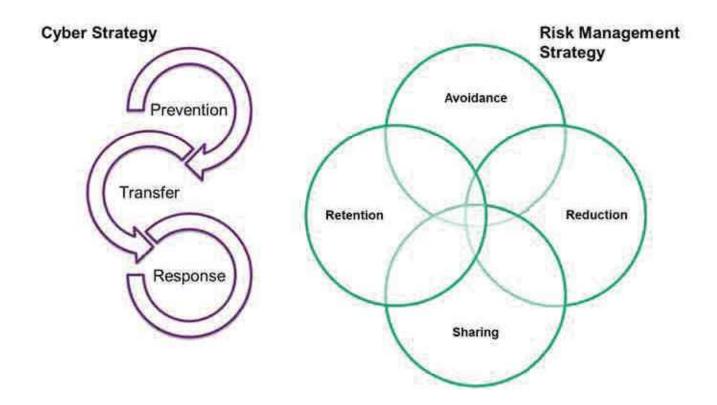
DAC beachcroft

1 Cyber Risk

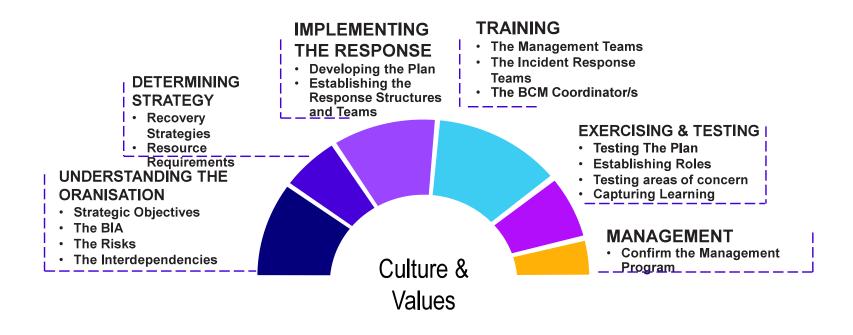
Stakeholders in the cyber security of your company



Cyber Strategy

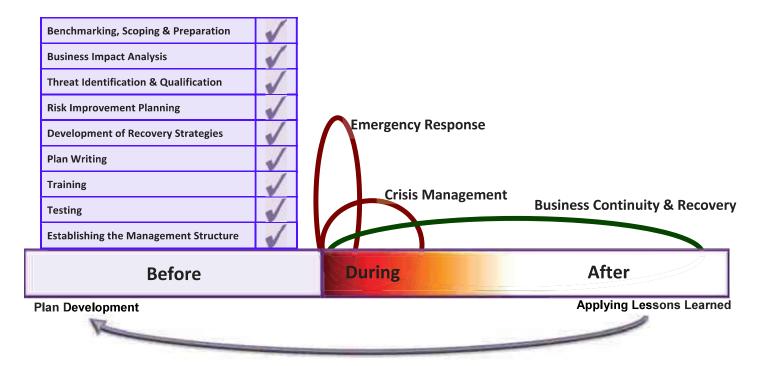


Business Continuity Lifecycle



The Crisis Journey

Technology failure





CORPORATE GOVERNANCE DEVELOPMENT FRAMEWORK

The Effective Board: Diversity and Beyond

Mike LubranoPrincipal Managing Partner, Cartica



















Cyber – Remaining on the front foot



Leading and Managing Your Responsibilities

Integrated Across People, Capital and Technology

Protection: Assessment: Recovery: **Measurement + Analytics People Solutions and Risk Transfer Incident Resilience** Cyber Risk Exposure **Cyber Insurance Program** Cyber/Silent Cyber **Incident Response Consulting and Diagnostic Advisory & Placements** Aggregation Modelling Coordination Tool Cyber Exposure **Captive Reserve Funding Cyber Security Work Incident Response Services** Quantification **Solutions** Readiness **Incident Response** Facultative & Treaty **Talent Management Solutions** Claims Advocacy Workshops **Reinsurance Solutions** for Cyber Vulnerabilities Cyber Security Training and **Cyber Risk Culture Survey Forensic Accounting Planning Cyber Vulnerability Business Continuity Assessment** Consulting

Access to human capital consultants and risk advisors

Your Internal Knowledge and Actions

- Current and emerging law, regulation and policies (GDPR, NISD May 18 ...)
- International requirements Atlantic Council ... where is your data
- Preparing your landscape how long to work up
- Trends for your sector what is happening, what can you expect
- How well are you embracing the National and International threat intelligence architecture
- Who might be interested in targeting your company and why
- How well do you know your people
- Are you structured and empowered to make quick decisions
- Ability to stress test your system

"For the strength of the pack is the wolf, and the strength of the wolf is the pack"

Rudyard Kipling



Basic Board Benchmark – Philippines

ilipino Companies BoD Benchmarking	# BOD	Ind. (per company)	True Ind.	Non-exec	Non-ind, non-exec	Female	Ind. Fema le	A	\ge	Te	enure	9yr violat ors (Ind)		ver- ording	Mtgs 2016	Avg attenda nce	Ind. attendance	Ind. chairman?	Non-exec chairman?	Audit Comm tenure
								All	Ind.	All	Ind.		All	Ind.						
Aboitiz Equity	8	38%	25%	63%	38%	0%	0%	63	57	26	7	1	2	2	7	99%	100%	No	Yes	13
Aboltiz Power	9	33%	22%	78%	56%	0%	0%	64	73	11	4	1	1	1	5	93%	100%	No	No	8
Alliance Global	7	29%	0%	57%	57%	0%	0%	61	N/A	13	N/A	2	2	N/A	17	99%	N/A	No	No	14
Ayala Corp	7	43%	43%	71%	29%	0%	0%	62	67	14	8	0	3	3	6	94%	94%	No	No	8
Ayala Land	9	33%	33%	78%	44%	22%	22%	61	59	11	4	0	2	1	6	92%	83%	No	No	7
BDQ	11	45%	36%	64%	27%	18%	0%	68	65	16	4	1	0	1	17	100%	100%	No.	Yes	15
BPI	15	47%	27%	93%	67%	33%	13%	64	62	15	4	3	2	1	13	94%	94%	No	Yes	18
Emperador	7	29%	29%	71%	43%	14%	0%	58	61	4	3	0	2	2	6	93%	86%	No	Yes	4
First Gen	9	33%	22%	67%	44%	0%	0%	63	60	12	3	1	4	3	7	89%	92%	No	No	10
GT Capital	11	36%	36%	91%	55%	0%	0%	59	59	6	4	0	0	0	7	90%	89%	No	Yes	4
ICT	7	29%	0%	86%	86%	0%	0%	68	N/A	22	N/A	2	2	N/A	28	100%	N/A	No	No	19
Jollibee	8	25%	13%	63%	50%	0%	0%	66	72	22	17	1	2	6	10	81%	80%	No	No	24
MegaWorld	7	43%	14%	71%	57%	14%	0%	65	N/A	17	2	2	2	0	5	100%	100%	No	No	18
MPIC	14	16%	7%	71%	64%	7%	7%	65	68	8	8	2	2	1	8	88%	100%	No	Yes	7
PLDT	13	23%	15%	7.7%	62%	23%	0%	65	66	9	4	1	4	5	16	93%	88%	No	No	8
San Miguel	15	27%	20%	73%	53%	7%	0%	70	74	12	5	1	2	2	8	96%	90%	No	No	11
Security Bank	15	1394	27%	87%	60%	20%	7%	64	65	16	2	2	0	1	14	97%	100%	No	Yes	19
SM Investments	8	38%	38%	75%	38%	25%	13%	66	70	16	3	0	1	1	6	98%	100%	No	Yes	5
URC	9	22%	0%	56%	56%	0%	0%	65	N/A	27	N/A	2	3	N/A	12	100%	N/A	No	Yes	32
Broad market avg	10	32%	21%	73%	52%	10%	3%	64	65	15	5	1	2	2	10	94%	94%			13
Cartica company avg	11	20%	8%	75%	66%	7%	3%	65	66	18	5	2	2	1	16	96%	100%			19



Basic Board Benchmark-India

Indian Companies BoD Benchmarking	34000°	*200	indi Alterbira		Approved, mon-ease	terms.	-	(444)	:30	97	atology (Seed)	Over- brankle	4713- 14	attends (mm	ent. stheebeck	trek. chairman	harr-granualities charmonis	(Province Province)	Manthet of wall removing	heart tenun	Meetings of souls committee	hadii stematine attaintania	Anne Flore.	Market Co (SN)
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*8564	NEE	311	20%	30%	117%	18.		48 11	- 84	188			8.	29%	10%	No.	196	ROF E-Ch		1.12		80%	- 83	- 12
TVX Stutters	Nes		MS.	10.733	479	540	18 17	75 55	46	100	2.			52%	105	-	100	S. State New S. Co.	4.	100		629	28	
BAIN AVEN	- Aldiz	48	55%	. H%-	17%	4		10 . 73			4.	8 4		78%	17%	Her	56	266.5366		16.		388%	. 41	- 11
substitutions.	BANK	-	33%	\$500%	14%			M 28	48		¥.	H 1		16%	30%	Her	744	Delette	- 1	12		84%	80	. 16
Enther Mytors	Adt	-	97%	375	279	100		10	100			187 3		- 25%	8874	He	196	SANCIENTS.		- 10		84%	100	24.
ambige	Carees	17	42%	90%	-896		*	10 34	dit:	18.2		9 9	-3	20%	work.	200	191	spec (clin)		188		-1674	(m:	
Windows	Galeunt	348.	10%	64%	16%		4	94 67			100	4 1	- 1	79%	119	1	Cape	ESR & To. (SPAIG)	4	1.0		12%	17	34
Resco	Carrier		11%	6756	19%	. 1	1	H . H			4	1. 1		32%	10%		16-	Exemples Asia & Co. 1824 & names are		13		444	14	
MADE	Carriers		30%	50%	11%		4	10.00			- 10	100	. 7	93%	38%	1180	190	11 M Eagetile				.83%	99	1.5
BRIG CRIS	SWINE		579	199	1476			70 14		:80	1	0 1		300%	188	NE :	tes	IS P Chambridge		- 1		94%	. 87	13.
Score	Carrent		1914	11176	22%	. 1		66 21	196	1.8		0. 1		16%	10%	-	194	Delotte		- 11		200%	TW	- 11
Show	Carreet	316	54%	82%	28%		8	10 78	7-034-0	33		192 3		91%	195	Att	799	Suggest & Date	100 PS	710		875	86	-10
1.50	Construction	22	50%	31%	4%	4	1	50 95			- 1	W		91%	1175	160	THE	Delatte				suh	. 10	- 20
Autoral Puriotes	Attreves		17%	72%	14%	- 1		62 06	LT.	++	100	1 1		16%	87%	Neo-	764	Delite		142		20%	19	
own imperior	Ampromeio	***	405	50%	10%			10	49	47	100			grb.	79%	An	764	THEFTY		24		100%	46	8.
Fitolet	Arabettein	107	20%	76%	100		#	64 W	. 99	63	. E	100		3/075	1004	the .	70	PIL Morphal		98.		30%	541	0.1
Dirties	Atoteries	335	21%	Table	10%	1.1	. 1	70 72	33.	3.4	1.	2: 1		90%	34%	-	796	phan 6 then		127	- 4	946	26	
THE DOG	Materials	311	55%	82%	27%		1	67 . 69	. 31	13	4	W 1		. 92%	91%	940	Tex	feloffs	4	111		51%	37	10
BIO Party	Adalessels		27%	38%	28%			N 62	A		1	4 1		36%	oth	Ven	- No	Delutte		. 9	,	38%	46	1.2
Natural Control of the Control of th	Chances.		2619	2010	32%	1	1	62 62			1	1. 1		9479	91%	110	791	Desitte		74		96%	146	-31
ARRA PRINTS	Cherocale	34	50%	100	41%	- 1	1	64 . 00	38	- 62	4	W 1		. 22%	29%	He	Text	658 (KRAND)		10	1	81%	18	39
Mrs.	Charterin	48	20%	- 79%	23%			66 66	34	300	4	4 2	- 4	26%	96%	760	Ne	tinacitá+)-		18		200%	79	4.
phedic	Chercon	+	2979 50%	20% 52%	2%	1.	D.	40 41		4		2 4	- 1	879	:9479	100	No	precishe)				200%	.78	3
Trianing.	Chemistic	44		8294	196	. 8.	4	10 41	. 90.			2 2		214	refs.	166	946	DOWN SHATE & CO.		21		94%	18.	
Histories	Dental	*	10V	60%	196	4	.8	10 41	13/4/	**	-	1 4		affi	100%	196	196	THE	- 180	141		100%	140	- 8
Arred market seeings		111	71%	MPs.	10%	1		1) M	. 13	40	1.	2 4	- 4	36%	101				-4/	b.		333.	.0:	11.3
Cartra company services			90%	AME	100	1545113	78 4	NO. 185	5 L900	200	-	4. 1	1 4	2160	105				100			20%	144	
Companies hallowing peerings		111	109	779	23%	- 1		6) ST	381	- 1	1	2:11		929	100							30%	41:	11.3
Bully industry asserting		311	41%	ern	32%			E3 68	t.t		1	2 1		APP	195				4	12		39%	33	11.9
Comment influency everage			41%	21%	41%					30		4/ 1	- 1	879	95%					10		47%	44	54
Charmon's industry womage		311	en	rjte	20%	4		42 83		10	1	8 1		924	17%					12		44%	41.	- 1



Director Skills Matrix

					Ski	112					
1	2	3	4	5	6	7	8	9	10	11	12
			1 2 5								

	Background												
Director:	1	2	3	4	5	6	7	8	9	10	11	12	
Legal													
Government													
Academic													
Economist													
Accounting & Audit													
Engineering													

Source: Bloomberg and Cartica Internal Reports.



Example: Board Competencies Table for a Cartica Portfolio Company

Directors:

- 1. Director
- 2. Director/CEO
- 3. Director/CFO
- 4. Director
- 5. Director
- 6. Director
- 7. Director

* Indicates Executive
Directors
Indicates Independent
Director

				Skills			
Director:	1	2*	3*	4	5	6	7
Strategy	((●.			0			1.01
Marketing & Sales		• 1					
Capital Markets			•			•	
Finance			•	0		•	
Audit, Controls and Risk	•		•		•	•	
Corporate Governance				0	•		•
Managerial Expertise		0		0			0
Sector/ Industry Experience		•	•	0		•	
Intl. Business Experience		•	•	•	•		
Public Company Board Experience		•	•	0			
Sustainability	(III)				•	•	•
Real Estate		10		0			0
M&A		•	•	0	•	(a)	
Human Capital Resources		•	•		•		
ICT & Cyber		•	•	0			
Other (co. or indust. specific)					•	•	100

- Competency apparent from public disclosures
- O Competency present but not adequately disclosed in publicly available materials
- •O Directors that most evidently exhibit a particular competency and can be expected to show board leadership on related topics



Basic Board Competencies and Professional Backgrounds

Competencies¹:

- 1. Strategy
- 2. Marketing and Sales
- 3. Capital Markets
- 4. Finance
- 5. Audit, Controls and Risk
- 6. Corporate Governance
- 7. Managerial Expertise
- 8. Sector/Industry Experience
- 9. International Business
- 10. Public Company Board Experience
- 11. Sustainability

Professional Qualifications²:

- 1. Legal/regulatory
- 2. Government
- 3. Academia
- 4. Economics
- 5. Accounting & Audit
- 6. Technical / engineering

¹ In general, we deem an important skill to be adequately present on a Board when at least three Directors can be shown to possess it.

² Qualification by as few as a single Director in each relevant profession may be sufficient.



Overview - Comparative Board Skillset Review

		Board compositio	n and competence	es		
	Company A	Companuy B	Company C	Company D	Company E	Company F
Strategy	×	/	×	×	×	1
Marketing & Sales	×	✓	×	1	×	1
Capital Markets	V	✓	V	1	✓	~
Finance	V	V	V	V	1	/
Audit, Controls and Risk	×	1	×	×	×	×
Corporate Governance	1	V	V	1	×	1
Managerial Expertise	V	V	1	1	×	1
Sector/ Industry Experience	×	/	×	1	×	V
Intl. Business Experience	1	✓	1	1	1	1
Public Company Board Experience	×	×	×	×	×	×
Sustainability	×	×	×	×	×	×
Real Estate	×	/	×	×	×	1
M&A	1	✓	V	1	×	1
Human Capital Resources	×	×	1	×	×	×
ICT & Cyber	×	/	×	V	×	V
Other (co. or indust. specific)	/	/	/	1	1	/

Legal	√	V	×	1	✓	1
Government	✓	×	1	×	✓	V
Academic	✓	V	V	×	×	×
Economist	√	×	1	×	1	/
Accounting & Audit	1	V	1	×	×	×
Engineering	Ĺ √	✓	V	1	×	V

vve assign a check for 5 of more unectors with a skill