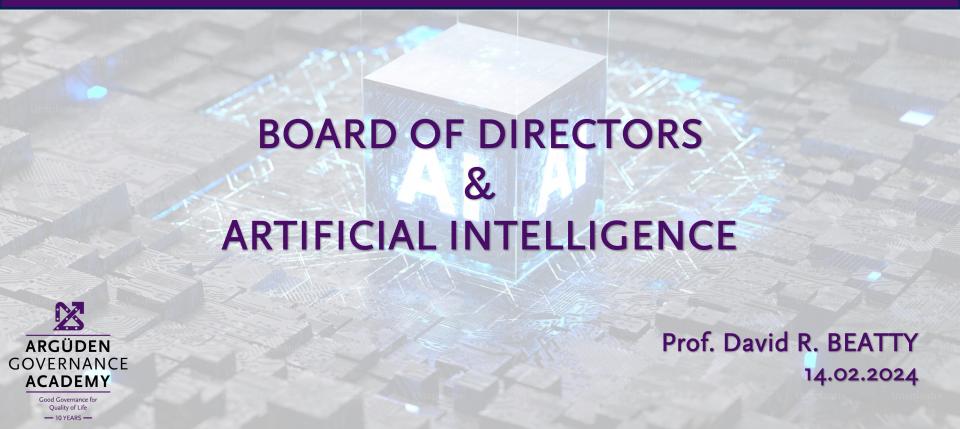
A Decade on the Journey towards Governance Excellence





The Al Tsunami

Professor David R. Beatty C.M., O.B.E., F.ICD, CFA

Founding Director, The David & Sharon Johnston Centre for Corporate Governance Innovation Rotman School of Management

University of Toronto



Lifetime Achievement Award 2018

Please visit: http://boardchair.com



Good Governance for Quality of Life

— 10 YEARS —



TÜSİAD Roundtables

≡

Economy & Finance

Industrial Policies and Investment Environment Relations with the
Parliament and
Public Institutions

Social Digital Türkiye
Development

ye Environme and Clima

Environment, Entrepreneurship and Climate & Youth Change

Global Relations and the EU

Agriculture, Relations with the Business Services Organizations



Co-Leader of Roundtable

Perihan İnci

TÜSİAD Board Member

Digital Türkiye Round Table works on technology, innovation and digital economy. Its purpose is to support the transformation to the information society and enhancing the innovation capacity in order to raise the added value and competitiveness.



Co-Leader of Roundtable

H. Çağatay Özdoğru

TÜSİAD Board Member

The Al Tsunami



- 10 YEARS -

Günyadın. Kolay gelsin!

You need a compass at sea to navigate – to find your way



ARGÜDEN GOVERNANCE ACADEMY

Good Governance for Quality of Life

You need a compass at sea to navigate + sextant

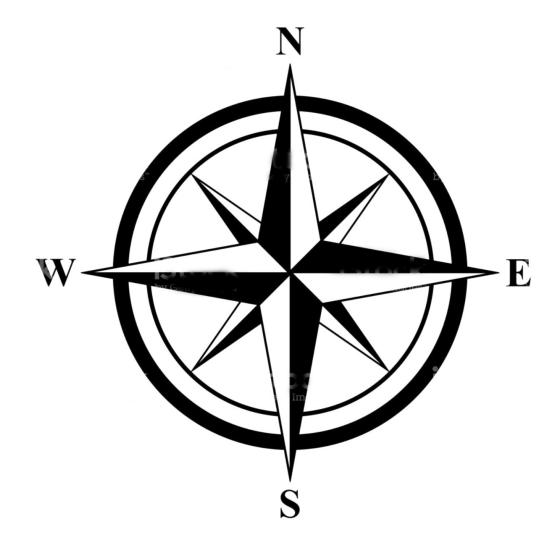




November 1977 embarked on 3.500 mile voyage to New Zealand:









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Е







HARD: who

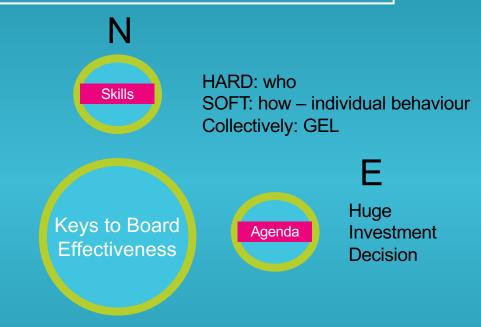
SOFT: how – individual behaviour

Collectively: GEL

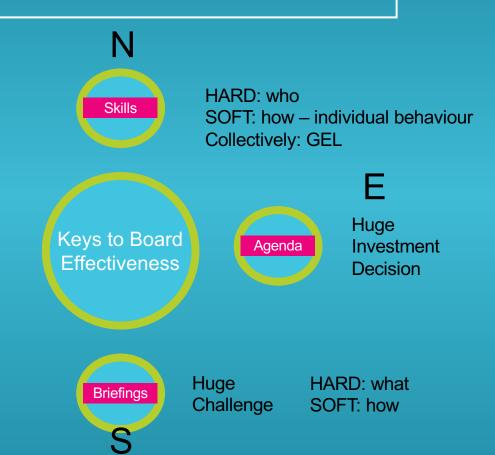




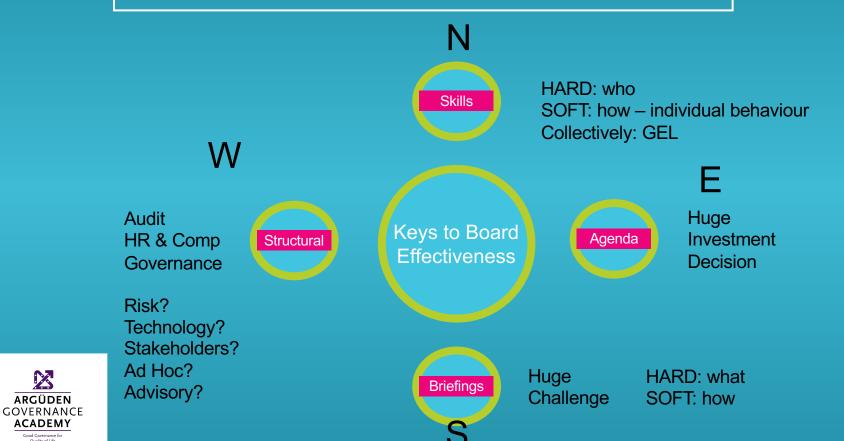












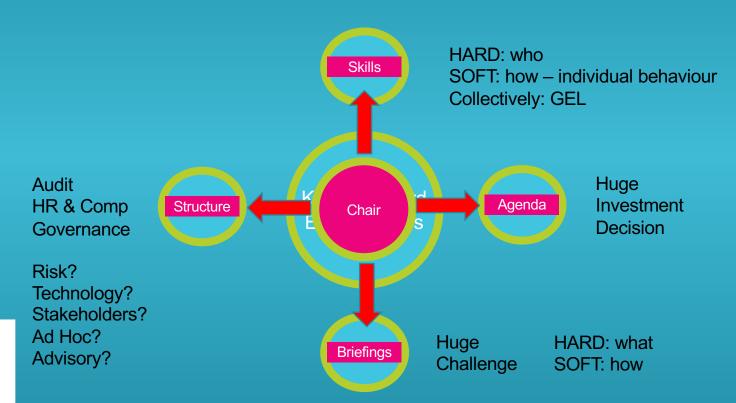
ARGÜDEN

ACADEMY ___ 10 VEADS ___



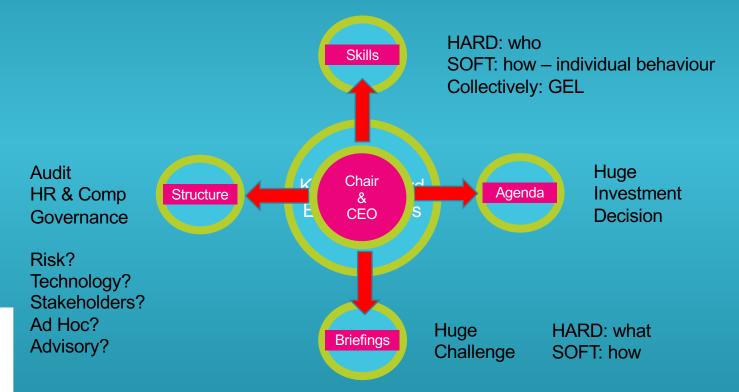
ARGÜDEN
GOVERNANCE
ACADEMY
Good Governance for
Quality of Life

Value Added Boards need Great Chairs





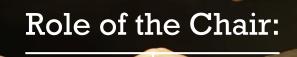
Great Boards need Great Chairs AND Chair & CEO relationship is KFS











Orchestrating the Board

Talent



Time





ARGÜDEN GOVERNANCE ACADEMY

Good Governance for Quality of Life — 10 YEARS —







Ensure accounts are accurate

Report to all stakeholders

Oversight of results

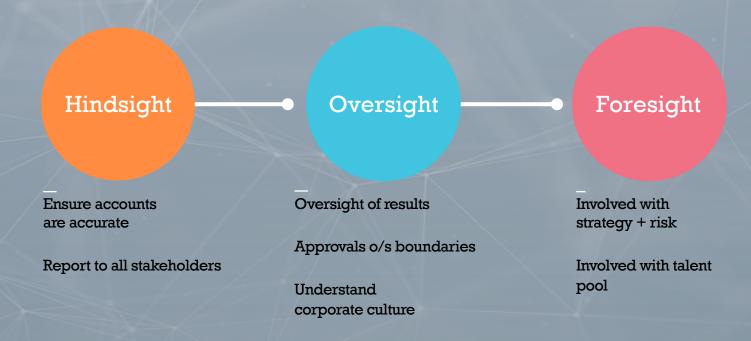
Approvals o/s boundaries

Understand corporate culture

Involved with strategy + risk

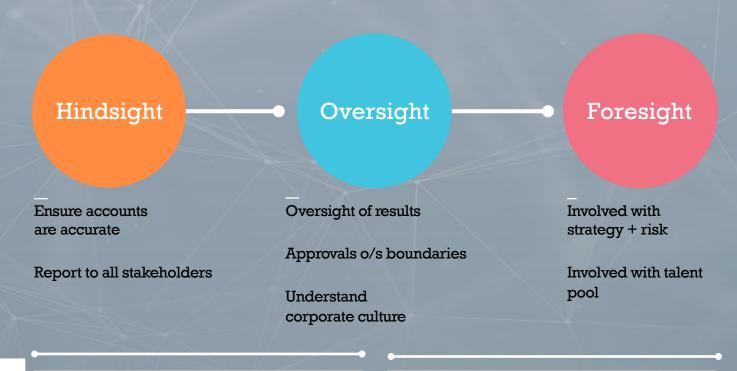
Involved with talent pool







Compliance/Policing





Compliance/Policing

Strategy and Talent





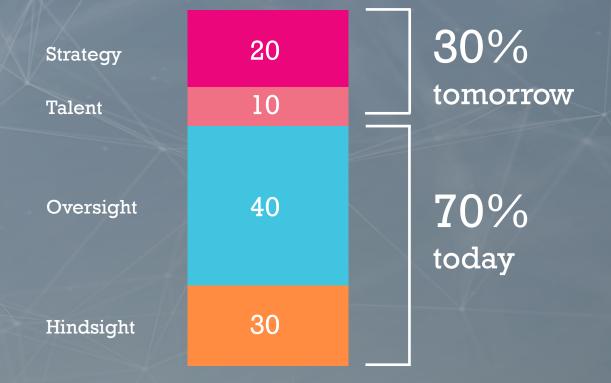
Compliant Policing



How do Boards their time today?



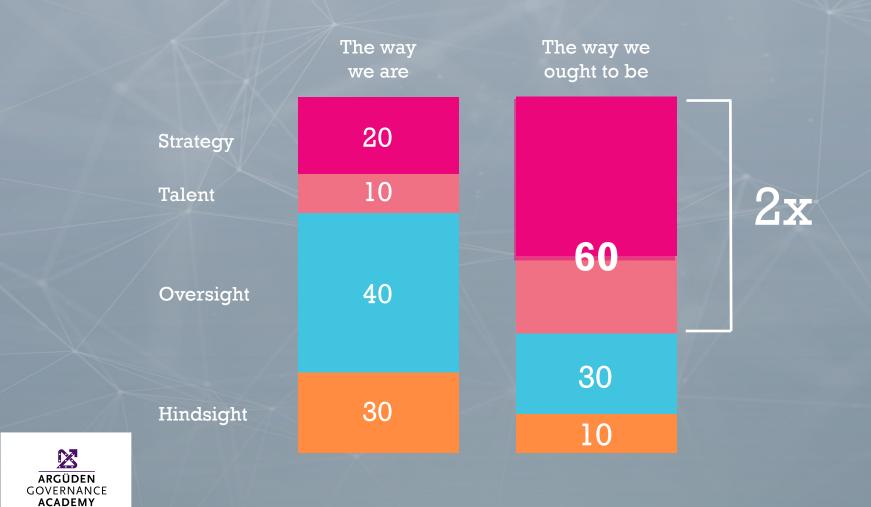
How DID you INVEST your time ??







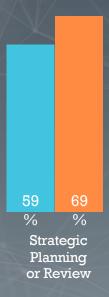




SOURCE: McKinsey & CCGG Survey of 275 directors

- 10 YEARS -

Gold Boards*







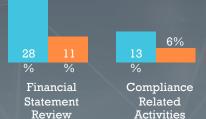


- 10 YEARS -



Gold Boards*





11 3%

%

Audit

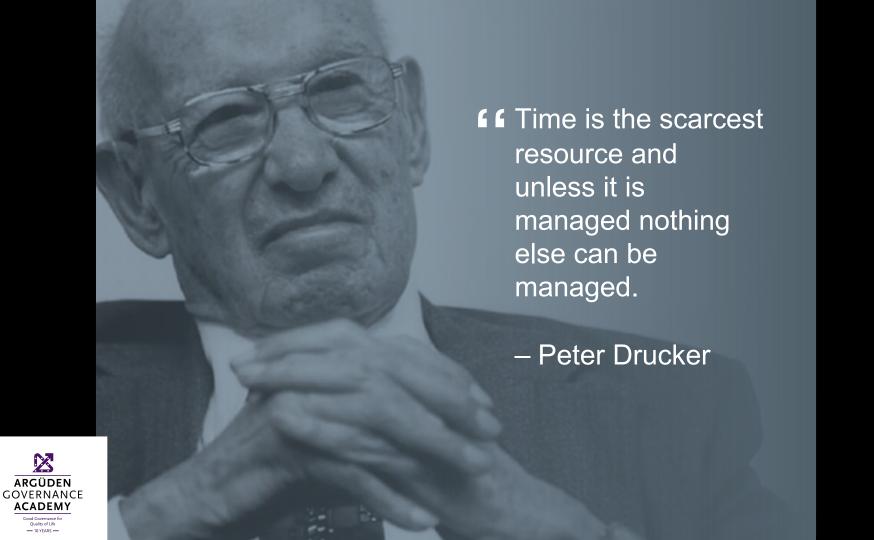
Related

Activities

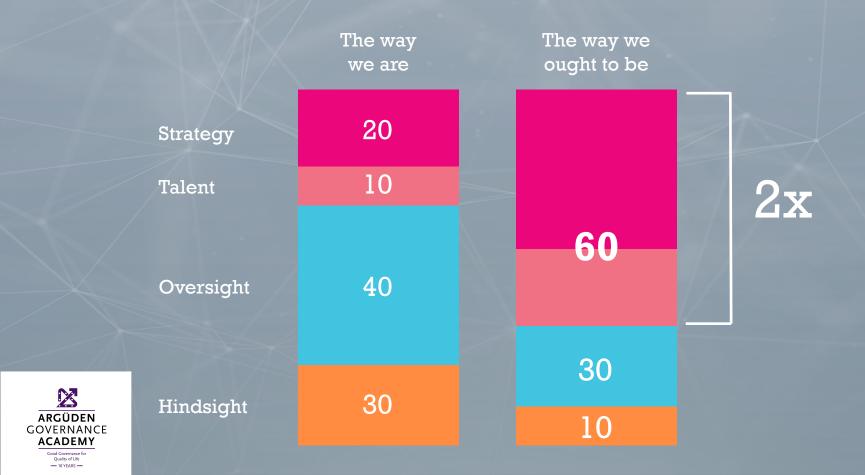


Quality of Life
— 10 YEARS —





Whatever the balance make the INVESTMENT an EXPLICIT decision!







World Economic Forum Annual Meeting

15-19 January 2024



- 10 YEARS -

THE TOP **GLOBAL RISKS** IN 2024

Risk Categories

Economic



Societal





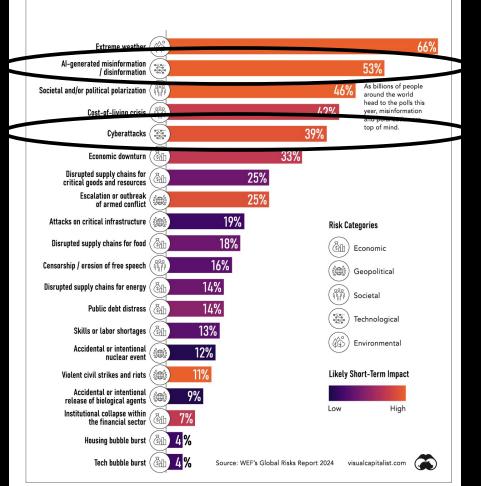
Likely Short-Term Impact





Good Governance fo Quality of Life — 10 YEARS —

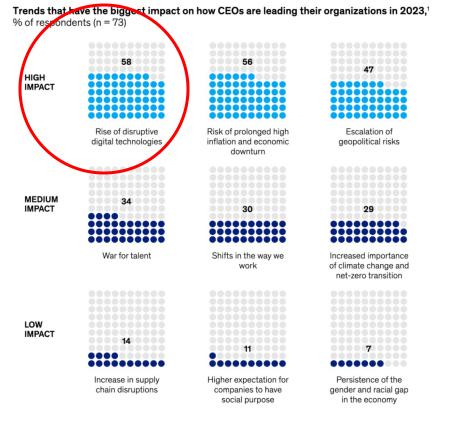
THE TOP **GLOBAL RISKS** IN 2024



ARGÜDEN GOVERNANCE

ACADEMY

Good Governance for Quality of Life — 10 YEARS — Top CEOs identify disruptive technology, the economy, and geopolitics as the most important trends to act on in 2023.



'Question: From your perspective as a current or former CEO, which of the following trends will have the biggest impact on how you lead/would lead your organization in 2023 and beyond, compared with past years? Respondents selected their 3 most important trends.
Source: McKinsey CEO Excellence Survey

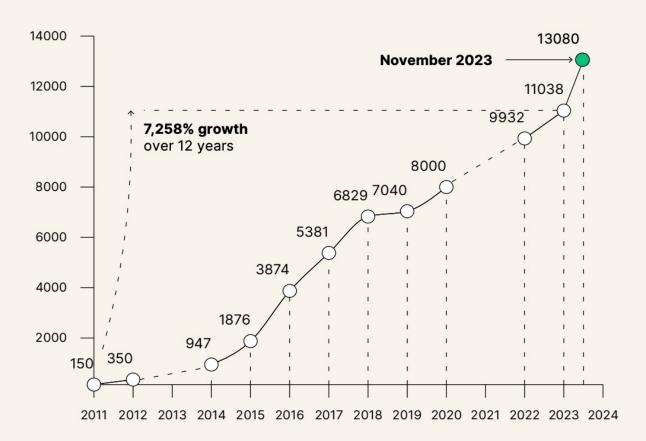
McKinsey & Company







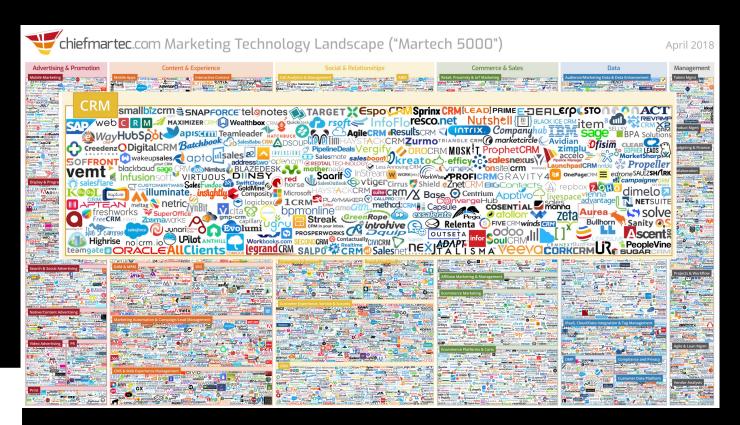
Number of martech software apps since 2011





Source: chiefmartec & MartechTribe

13,080 start ups in the marketing technology

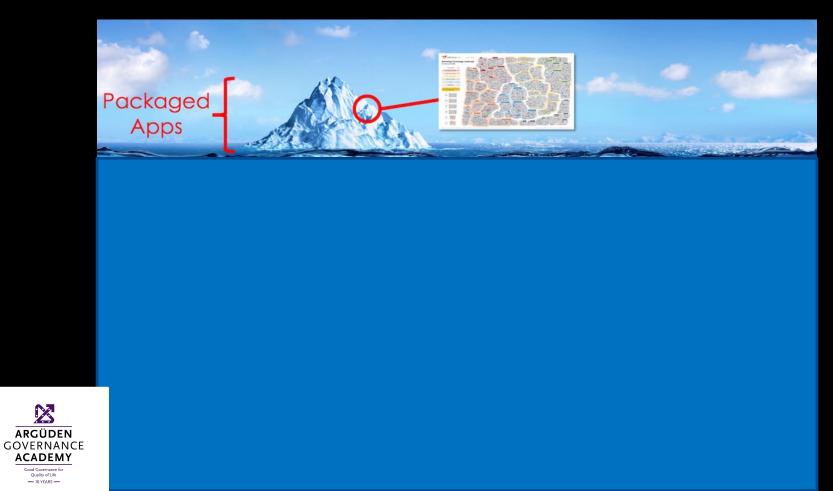




And that's only the tip of the iceberg

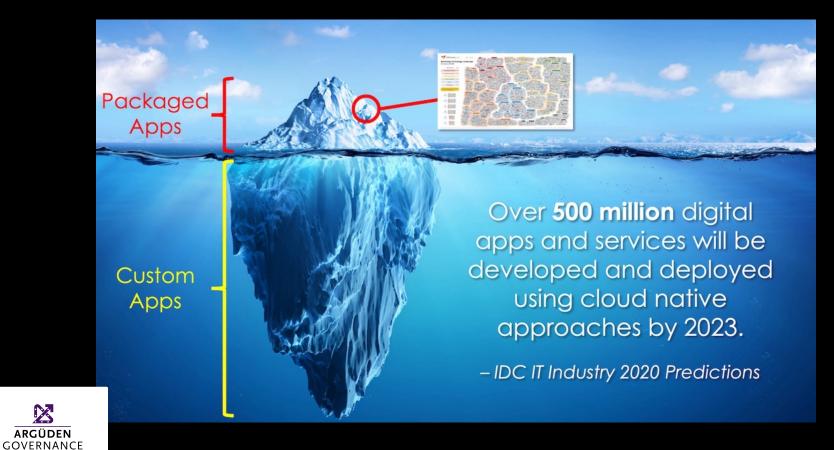
ARGÜDEN

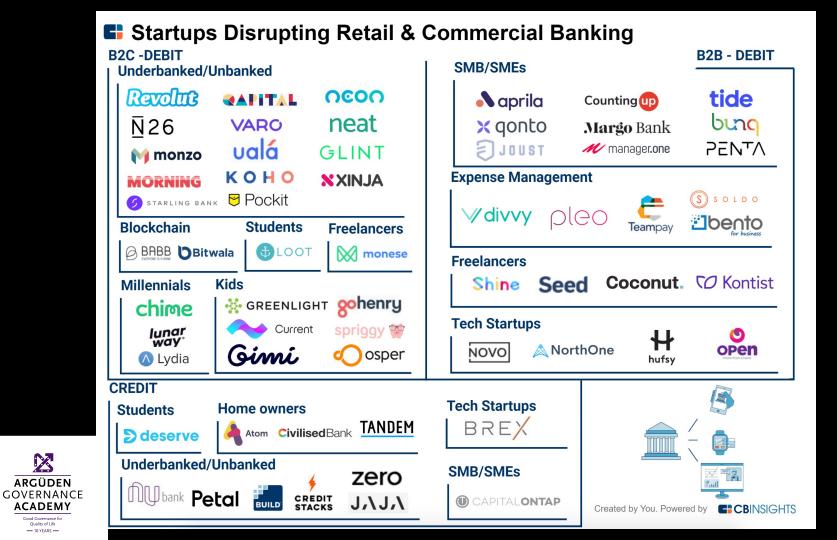
ACADEMY Quality of Life - 10 YEARS -



And that's only the tip of the iceberg

ACADEMY





Furniture Tech

D2C Furniture

MADE[®] ZAOZUO造作 SERENA & LILY FLOYD GAIA PENTATONIC MYCS Campaign ARTICLE. tylko SWOON INTERIOR DEFINE

Smart Furniture



Art



Visualization Tools

GROKSTYLE



3vjia



Good Governance for Quality of Life ___ 10 VEADS ___

D2C Home Accessories





P2P Marketplaces



Interior Design Solutions



D2C Mattresses



Search & Discovery



E-Commerce Multibrand



Furniture Rental Platforms



Created by You. Powered by GHTS



■ Disrupting The Happy Hour

Craft Spirits Brands



Alcohol-Free Wines & Spirits



Cannabis-Infused Beverages



Subscription Services







Bar Tech





Alcohol Appliances



New Alcoholic Drinks



Celebrity-Backed Spirits



Anti-Hangover Solutions



On-Demand Delivery Services



CBINSIGHTS



The Future Of Stadium Tech Market Map



Connected Device Analytics

mnubo **FOGHORN**

SWIM.AI **HXPERIENCE**

Consumer Behavior Analytics

Place Gravy

e cuebiq unacast.

Crowd Sentiment Analysis

CLOMDRISION :) Affectiva

CrowdOptic (F) KAIROS

ADVERTIMA

sightcorp

Real-Time Player Insights



HEXOSKIN



signal **ATHOS**

Live Event Holograms



MIMESYS



Concessions & Payments











Stadium Robots & Drones





brain@



eventchain.

EVOPASS

Security

Ticketing, Access, &



zenus

Blink Identity

Stadium Connectivity



Esports Tournaments



Live Betting



MYTHIC WUNIFLY. Created by You. Powered by CBINSIGHTS

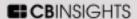


X

ARGÜDEN

Global Unicorn Club

1,205 private companies valued at \$1B+







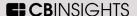
- 10 YEARS -

Global Unicorn Club

TO SEE CRECKS CHEEK BY

Global Unicorn Club

1,205 private companies valued at \$1B+







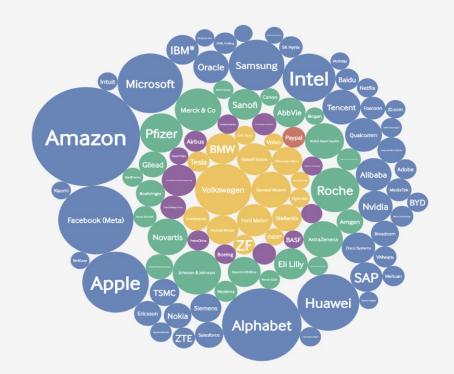


Global Unicorn Club



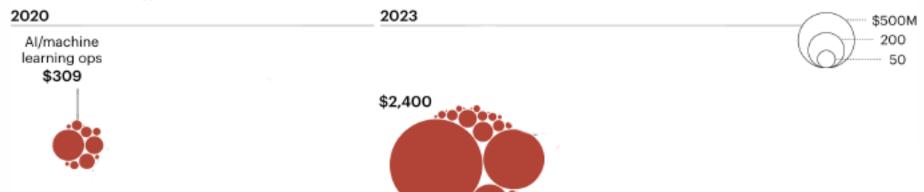
Top 100 global innovation leaders

Some \$720bn was invested into R&D by the top innovative firms in 2022





Select a cluster for type definition



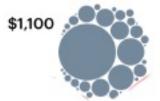
Notes: 2023 data is through September 19, 2023; clusters created using flourish.studio Sources: PitchBook; Bain analysis



Data management \$138

Select a cluster for type definition

2020



\$500M 200

50



2023

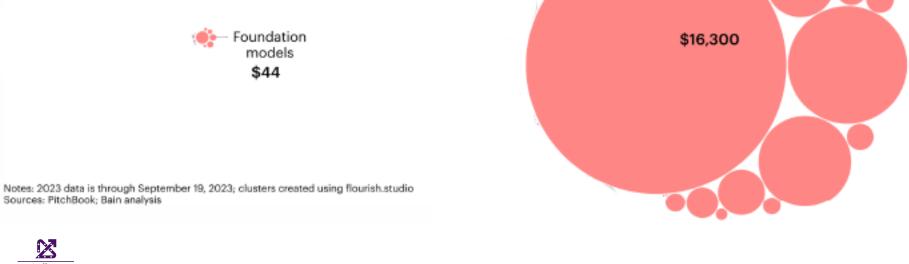
Notes: 2023 data is through September 19, 2023; clusters created using flourish studio Sources: PitchBook; Bain analysis



Select a cluster for type definition

2020

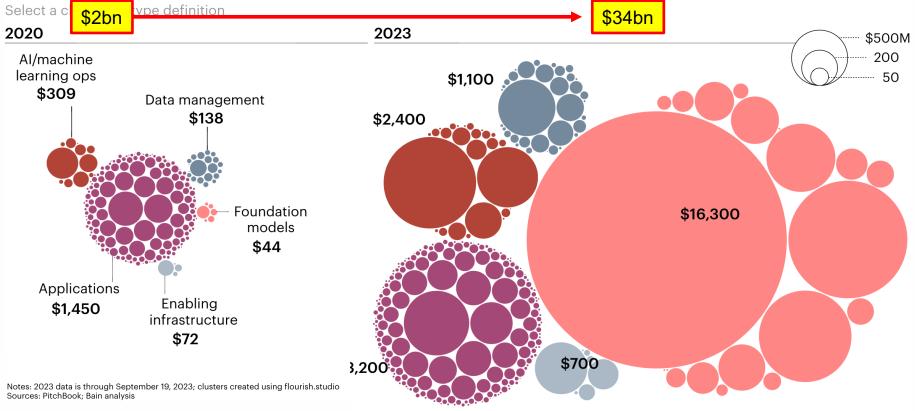
Sources: PitchBook; Bain analysis



\$500M 200 50

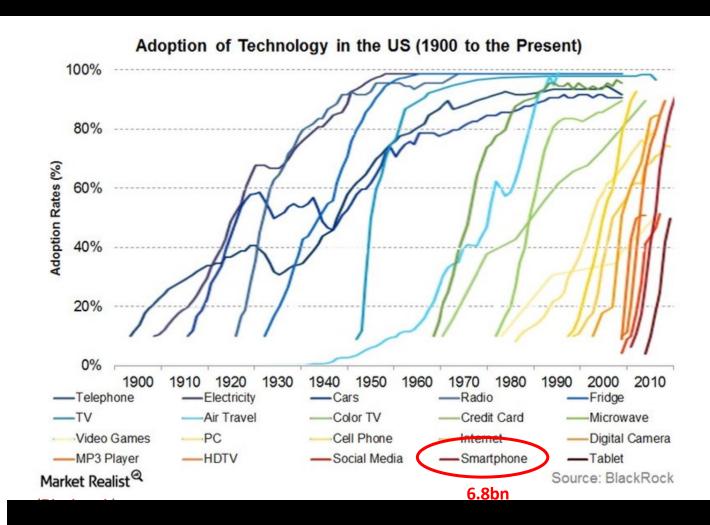
2023











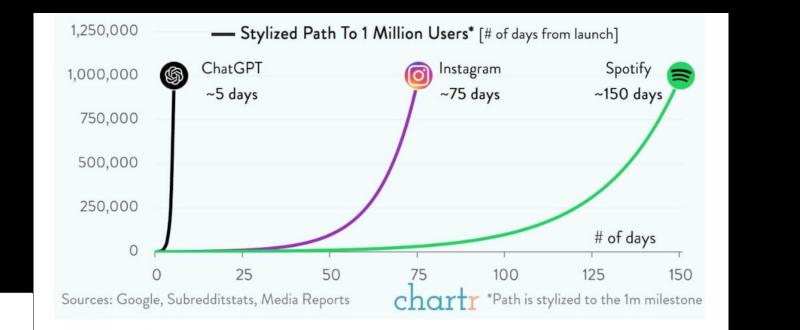
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ARGÜDEN

GOVERNANCE

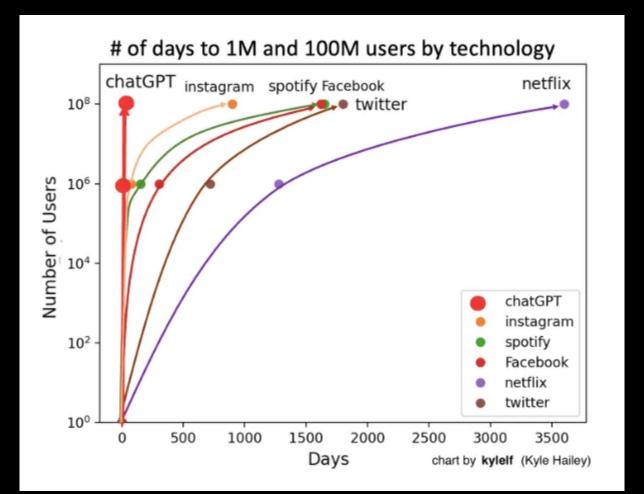
ACADEMY

Good Governance for
Quality of Life
— 10 YEARS —



ARGÜDEN
GOVERNANCE
ACADEMY
God Covernance for
Quility of Ufe
-10 YEARS -

Source: Chartr







ARGÜDEN GOVERNANCE ACADEMY

Good Governance for Quality of Life — 10 YEARS — Nick spoke to Elon Musk a couple of months ago:

"Elon,

10 years from now what will be TESLA's competitive advantage?"

Nick was thinking to himself:

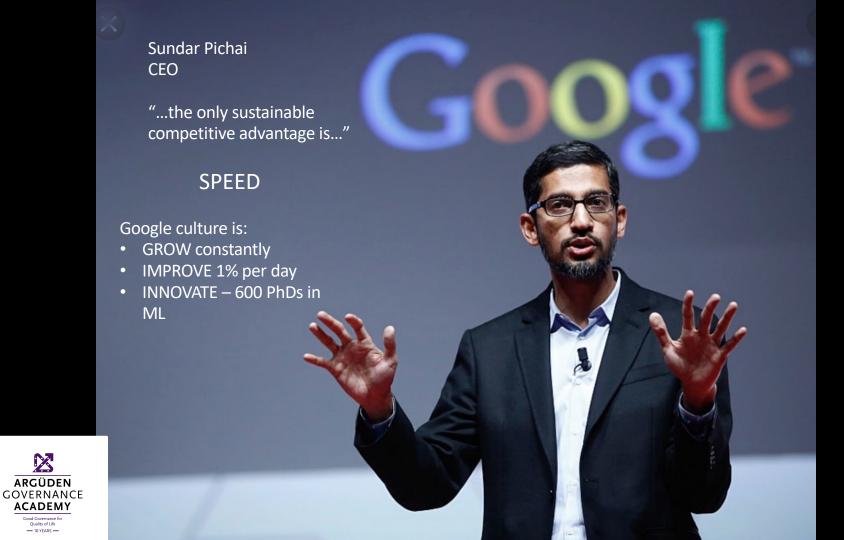
- 1. Batteries?
- 2. Self driving capabilities?
- 3. Charging network?

NO ONE ELSE WILL BE AS FAST















ARGÜDEN GOVERNANCE ACADEMY

Good Governance for Quality of Life — 10 YEARS —

Computational Al



Superhuman Math Almost Always



Computational Al



Superhuman Math Almost Always

Generative Al



+50% Productivity And Infinite Creativity



Computational Al



Superhuman Math Almost Always

Generative Al



+50% Productivity And Infinite Creativity

"Senses AI"





Computational Al



Superhuman Math Almost Always



Automotive insurance industry profitability is based on cost estimates using 72 parameters



24% accuracy with actuaries



Automotive insurance industry profitability is based on cost estimates using 72 parameters





24% accuracy with actuaries

78% accuracy in 2 days



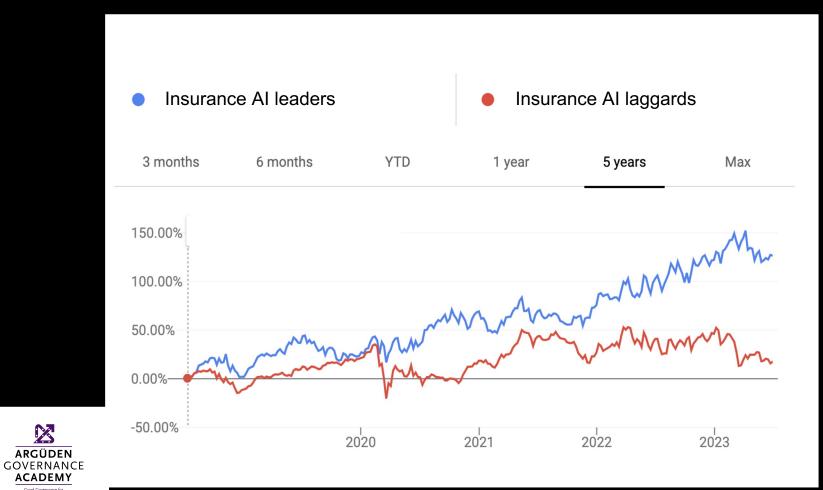
Now a completely integrated Google system in real time

Al profit forecast Al quote engine Al automated ads

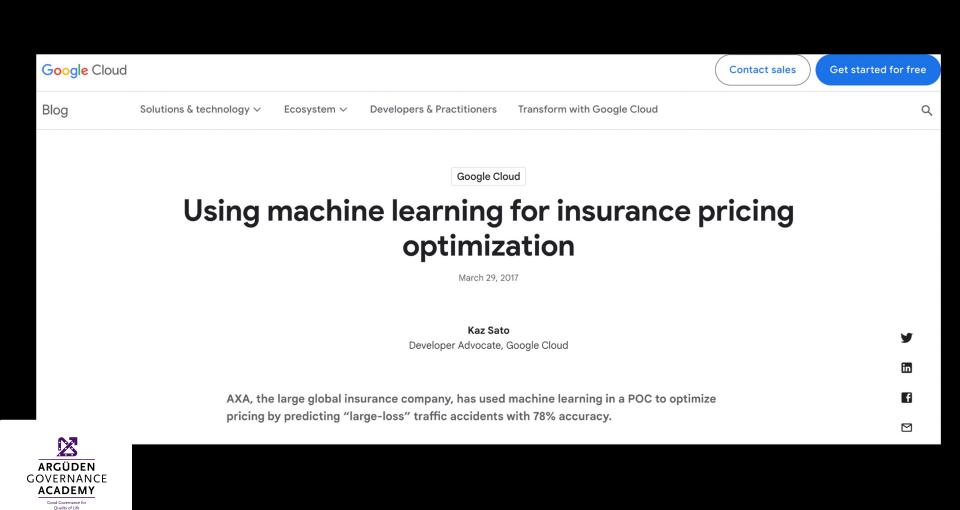
ARGÜDEN
GOVERNANCE
ACADEMY

God Governance for
Quality of Life
— 10 YEARS —

Al profit maximization by Google



ACADEMY Good Governance for Quality of Life - 10 YEARS -



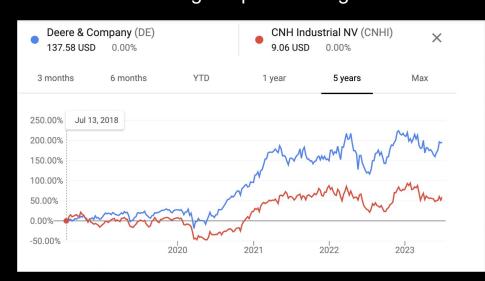
- 10 YEARS -

See example: John Deere

Buys Blue River for \$350M in 2017



Leads the age of precision agriculture









Good Governance for Quality of Life — 10 YEARS —

See & Spray™

The world's first smart sprayer





- 10 YEARS -

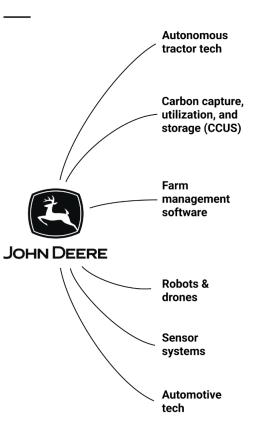






Good Governance for Quality of Life — 10 YEARS —

John Deere's Strategy Map

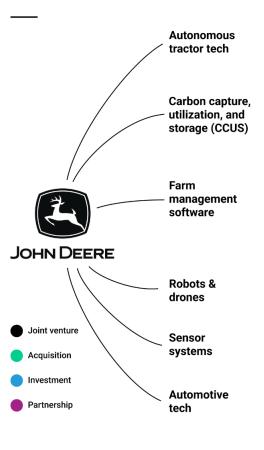




CBINSIGHTS

* For companies receiving support from the Deere Startup Collaborator: Deere Startup Collaborator does not explicitly fund startups participating in its accelerator, though it is part of the company's investment in exploring tech.

John Deere's Strategy Map



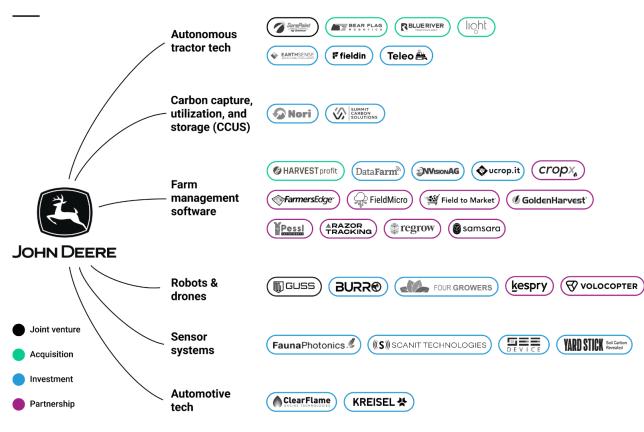


* For companies receiving support from the Deere Startup Collaborator: Deere Startup Collaborator does not explicitly fund startups participating in its accelerator, though it is part of the company's investment in exploring tech.

ARGÜDEN
GOVERNANCE
ACADEMY
God Governance für
God Governance für

- 10 YEARS -

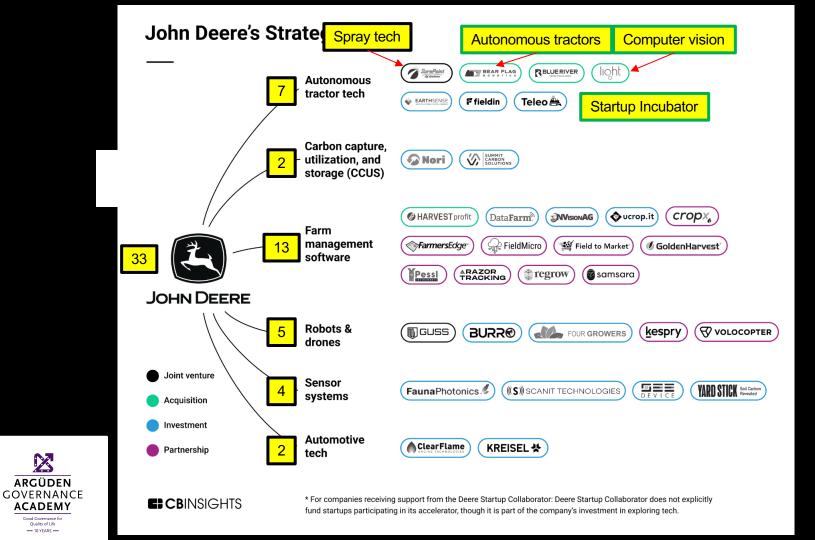
John Deere's Strategy Map





CBINSIGHTS

* For companies receiving support from the Deere Startup Collaborator: Deere Startup Collaborator does not explicitly fund startups participating in its accelerator, though it is part of the company's investment in exploring tech.



....creativity starts at the top: NOT casual !!!





... and can generate incredible breakthroughs



AlphaDev discovers faster sorting algorithms

June 7, 2023





Up to 70% faster sorting algorithm

We will cover THREE kinds of Al

Computational Al



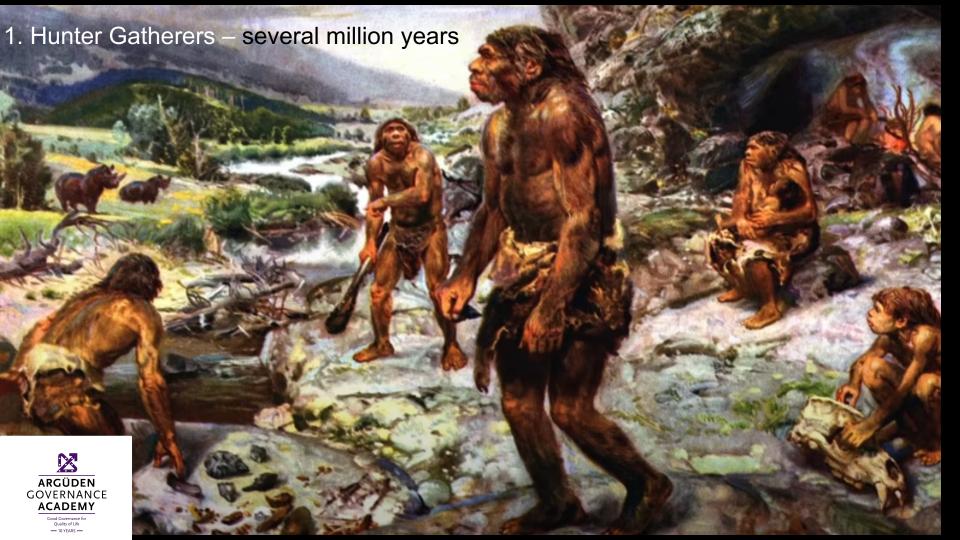
Superhuman Math Almost Always

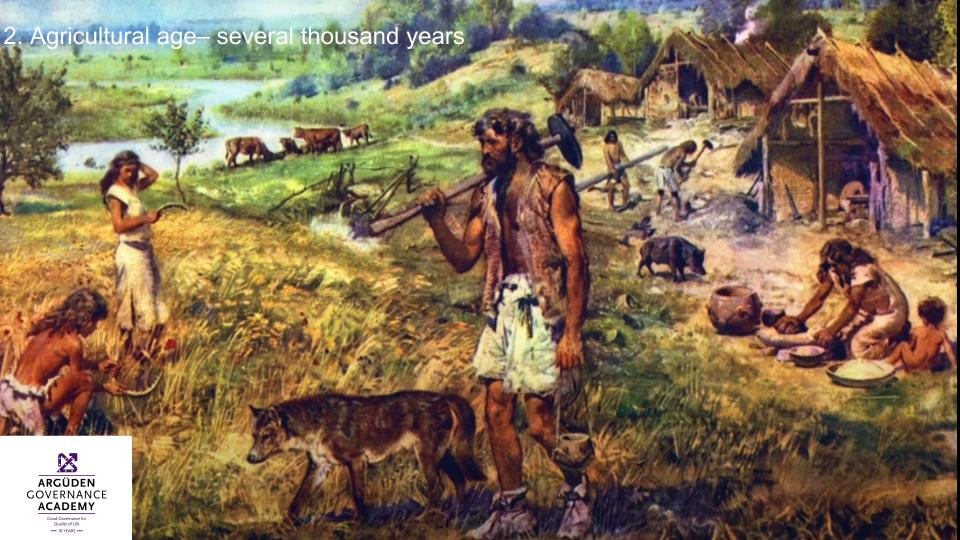
Generative Al



+50% Productivity And Infinite Creativity













5. Augmentation Age – just emerging

Moving from PASSIVE TOOLS...

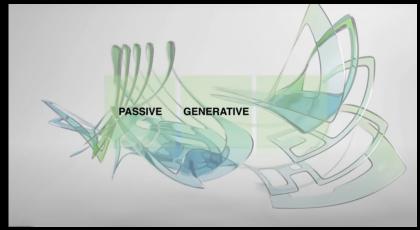
GOVERNANCE ACADEMY

Good Governance for Quality of Life

10 YEARS —



...to generative tools



Al is becoming competent at some white collar jobs

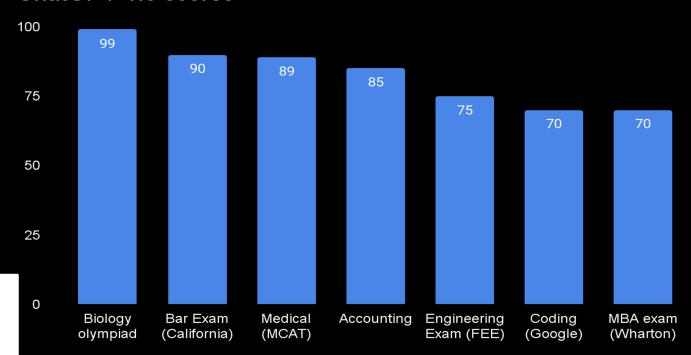
ChatGPT 4.0 scores

X

ARGÜDEN GOVERNANCE

ACADEMY

Good Governance for
Quality of Life
— 10 YEARS —



Specifically trained AI is even better



87%
US Medical License Exam



April 28, 2023

Comparing Physician and Artificial Intelligence Chatbot Responses to Patient Questions Posted to a Public Social Media Forum

John W. Ayers, PhD, MA^{1,2}; Adam Poliak, PhD³; Mark Dredze, PhD⁴; et al

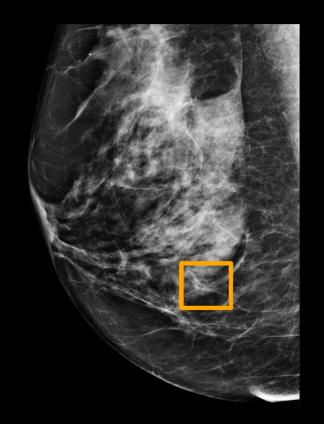
Author Affiliations

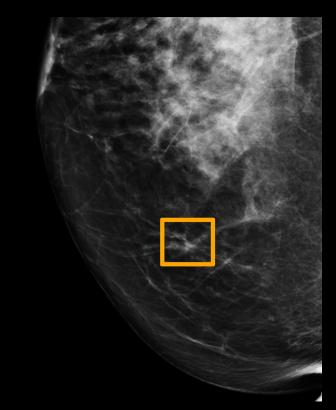
JAMA Intern Med. 2023;183(6):589-596. doi:10.1001/jamainternmed.2023.1838



41% More empathetic

See example: radiology







Al significantly increases productivity and work quality...

Working Paper 24-013

Navigating the Jagged Technological Frontier: Field Experimental Evidence of the Effects of AI on Knowledge Worker Productivity and Quality

Fabrizio Dell'Acqua Edward McFowland III Ethan Mollick Hila Lifshitz-Assaf Katherine C. Kellogg Saran Rajendran Lisa Krayer François Candelon Karim R. Lakhani



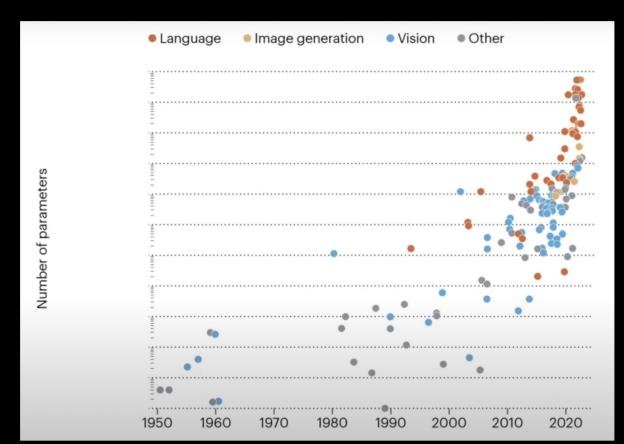
12% more work

25% less time

40% better quality

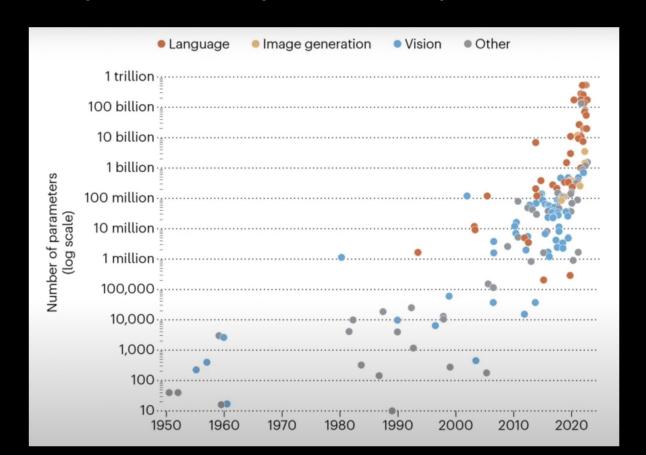


Exponential improvement



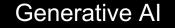


Exponential exponential improvement





Computational Al



"Senses Al"







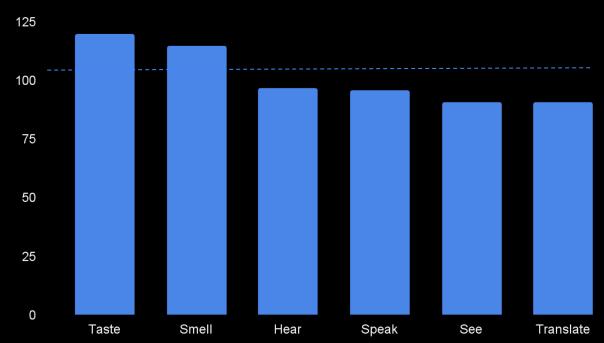
Superhuman Math Almost Always

+50% Productivity And Infinite Creativity



Al is able to "sense" fairly well

Al scores on different "sensing" tasks





Smell example: 96% accuracy sniffing whiskey

Could you sniff out counterfeit whiskey?

This "electronic nose" can identify a whiskey's brand with 96% accuracy.



Credit: Richard / Adobe Stock



- 10 YEARS -

Computational Al



Superhuman Math Almost Always

Generative Al



+50% Productivity And Infinite Creativity

"Senses AI"





Advice #1: Mandate an Al-first strategy







Consensus

Leadership

Advice #2: Get started





Write 5-year plan

Get an early win



Advice #3: Focus on low-risk, proven winners





Brainstorm new ideas

Inventory existing winners



Advice #4: Get help

Al Board



Cloud Provider



Business Consultancy



Legal Consultancy





These THREE kinds of Al

Computational Al

Generative Al

"Senses AI"



Superhuman Math Almost Always



+50% Productivity And Infinite Creativity







ACADEMY

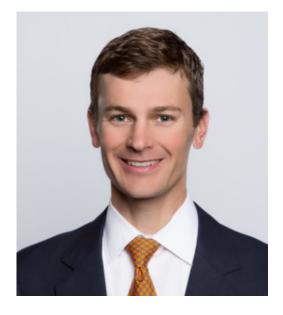
Good Governance for
Quality of Life
— 10 YEARS —

ARGÜDEN GOVERNANCE

Wal-Mart added 31 year old Kevin Systrom to join Marissa Meyer (2012) and now family heir 36 year old Steuart Walton







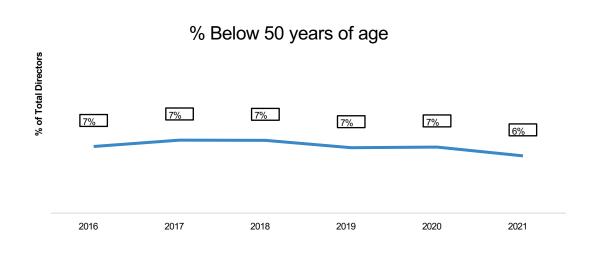


- 10 YEARS -

Steuart L. Walton is the chief executive officer of Game Composites, Ltd., a company he founded in 2013 that designs and builds small composite aircraft.

TSX Directors are not getting any younger!

2016 – 2021 TSX Composite Index of 220 companies

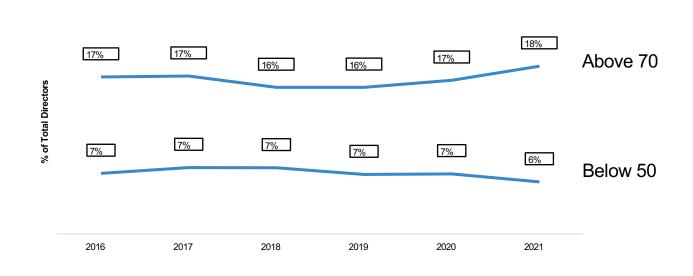




2016 – 2021 **TSX Index**

TSX Directors are not getting any younger!

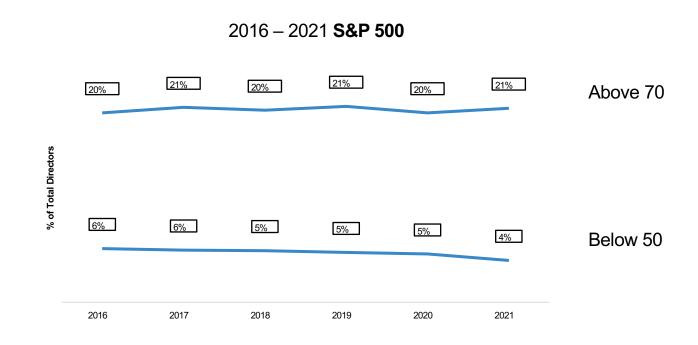
2016 – 2021 TSX Composite Index of 220 companies





Source: David & Sharon Johnston Centre for Corporate Governance Innovation

But the S&P500 boards are even older !!!!





Source: David & Sharon Johnston Centre for Corporate Governance Innovation



GOVERNANCE ACADEMY

Good Governance for Quality of Life

10 YEARS —

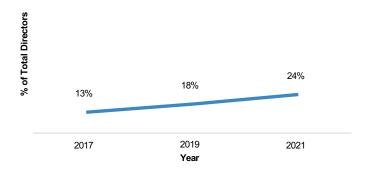
ARGÜDEN



TSX Directors are getting more tech savvy

2016 - 2021 **TSX Index**

Proportion of total directors identified as "tech savvy"

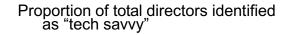


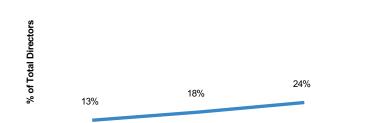


Source: David & Sharon Johnston Centre for Corporate Governance Innovation

TSX Directors are getting more tech savvy

2016 – 2021 **TSX Index**



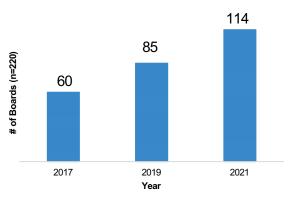


2019

Year

2017

Total number of boards with "tech savvy" directors almost doubled

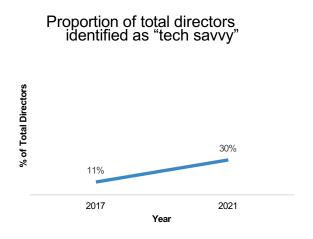


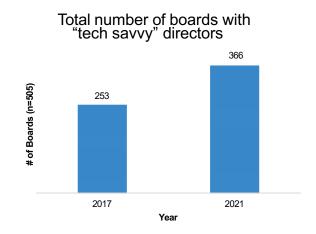


2021

But the S&P500 boards are slightly more advanced

2016 - 2021 **S&P 500**







Source: David & Sharon Johnston Centre for Corporate Governance Innovation

BERKSHIRE HATHAWAY INC.

3555 Farnam Street Omaha, NE 68131



Bill Gates



Susan Decker Ex-CEO Yahoo



- 10 YEARS -

SpencerStuart

Candidates with technology backgrounds are increasingly popular

- "Specialist" directors are not generally in high demand, but interest in directors with technology backgrounds is growing.
- Our 2023 survey reveals that boards are prioritizing the following technology-related skills for recruitment: technology (21%, down from 38% last year), digital (20%, up from 12% last year) and cyber (19%, up from 8% last year).

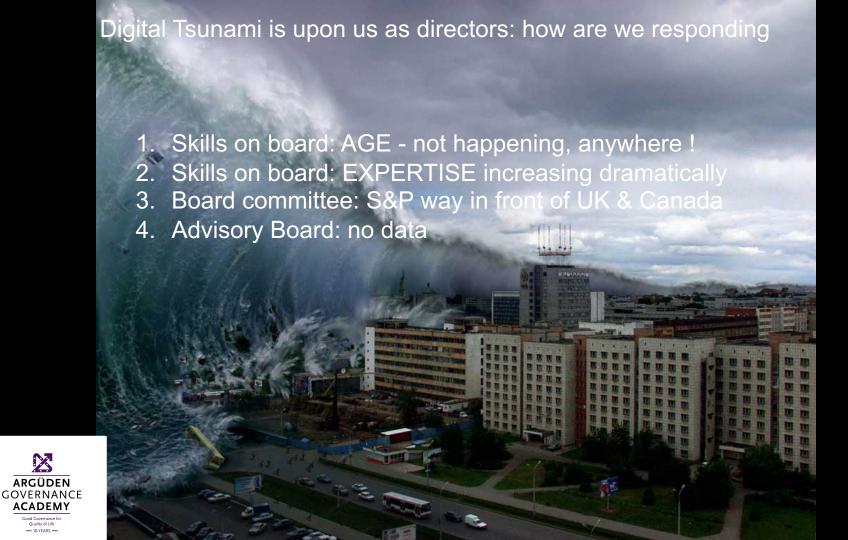






_									
	Audit	Compensation & Management Development Committee	Nominating & Governance Committee	Executive Committee	Global Compensation		Strategi Plannin & Finance	Technology eCommerce	
James I. Cash, Jr. IĤI ★	1		1	1					
Timothy P. Flynn 🖈	1					S&P		from 46	in 2016
Carla A. Harris		1				110	- C up	110111 10	111 20 10
Tom Horton ★	1		1			Cana	ada		
Marissa A. Mayer		1				now	4 up fr	om 0 in	2016
C. Douglas McMillon				1		1			
Gregory B. Penner ②				1		1			
Steven S Reinemund		1	1					1	
Kevin Systrom		1						1	
S. Robson Walton				1		1	1		







Routine is needed in large complex businesses



Nearly 8,700 properties across 139 countries and territories with 1,423,044 rooms with 400,000 employees





Routine drives out creativity

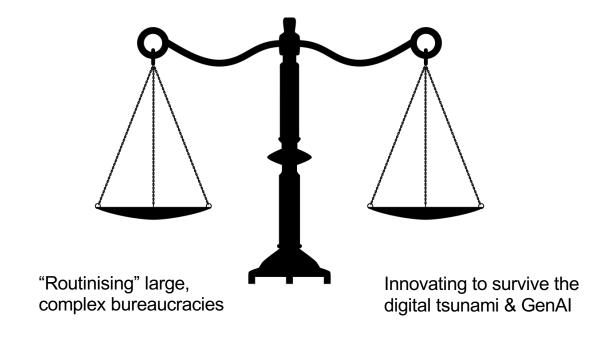


Nearly 8,700 properties across 139 countries and territories with 1,423,044 rooms with 400,000 employees





So the balance is really, really hard







JOHN M. THOMPSON

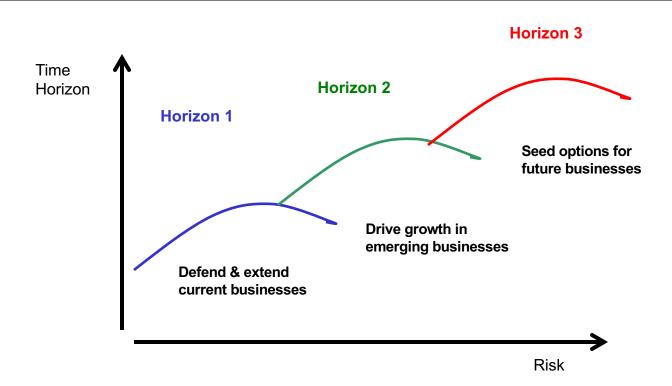
#2 to Lou Gerstner at IBM

Former Chair TD Bank

Board of : Thomson Reuters Royal Phillips NV Hospital For Sick Children

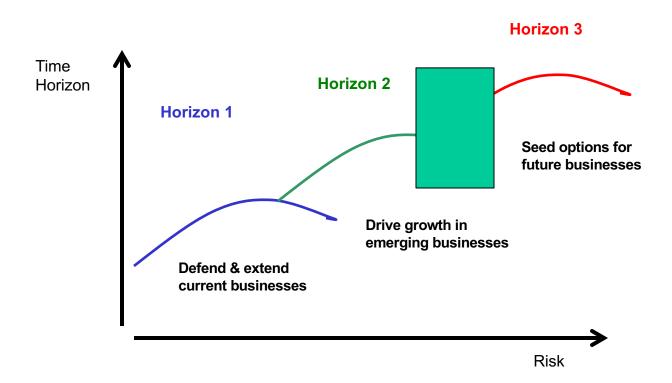


Growth requires a pipeline of opportunities across 3 horizons...





Horizon 3 requires you to separate it from the CORE...





Corporate Innovation Labs

From AT&T To Xerox: 90+ Corporate Innovation Labs

Innovation is critical for established companies to stay relevant in the face of disruption.





Invest directly into the future: John Deere



...acquires Blue River Technology for \$350mn (Sept 2017)



See & Spray™

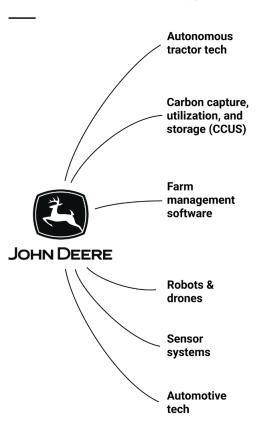
The world's first smart sprayer





- 10 YEARS -

John Deere's Strategy Map

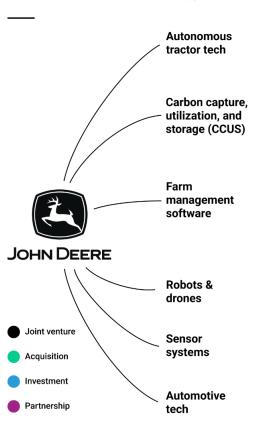




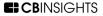


^{*} For companies receiving support from the Deere Startup Collaborator: Deere Startup Collaborator does not explicitly fund startups participating in its accelerator, though it is part of the company's investment in exploring tech.

John Deere's Strategy Map

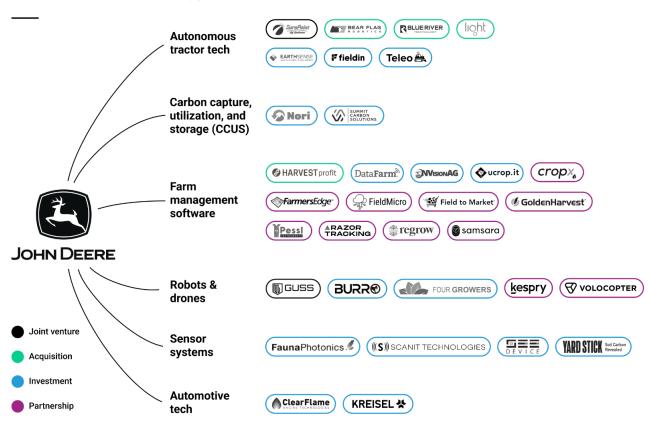






^{*} For companies receiving support from the Deere Startup Collaborator: Deere Startup Collaborator does not explicitly fund startups participating in its accelerator, though it is part of the company's investment in exploring tech.

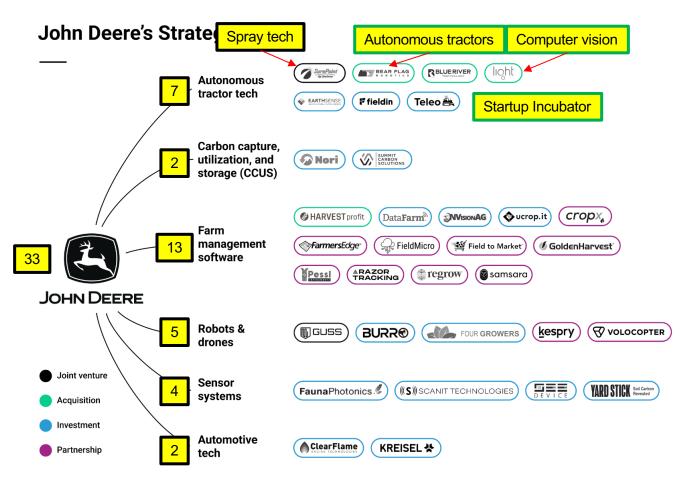
John Deere's Strategy Map







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CBINSIGHTS

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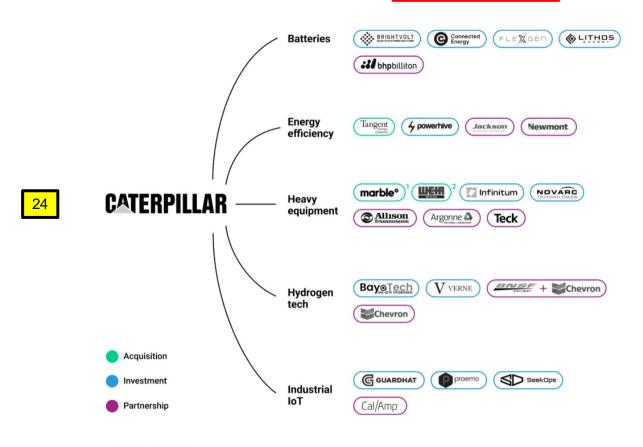
....creativity starts at the top: NOT casual !!!





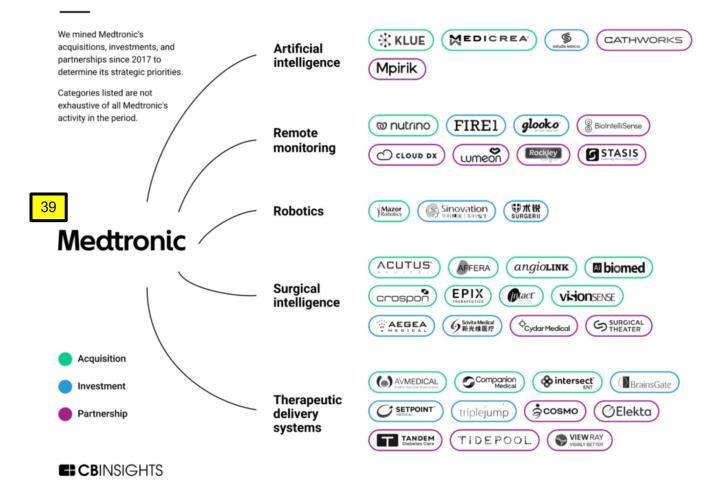
CATERPILLAR® Strategy Map

Can it catch up ??



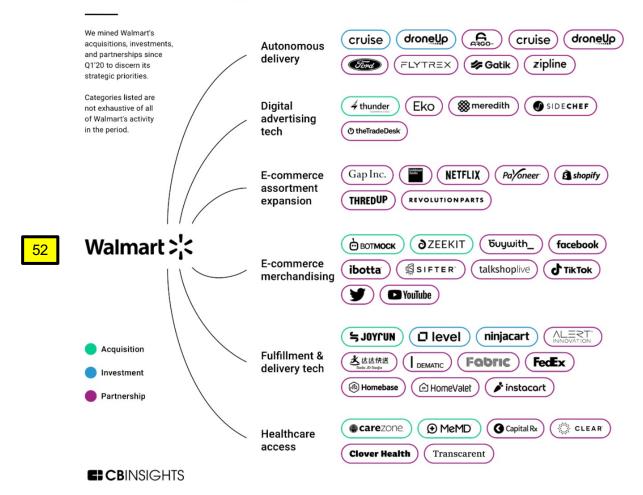


Medtronic's Strategy Map



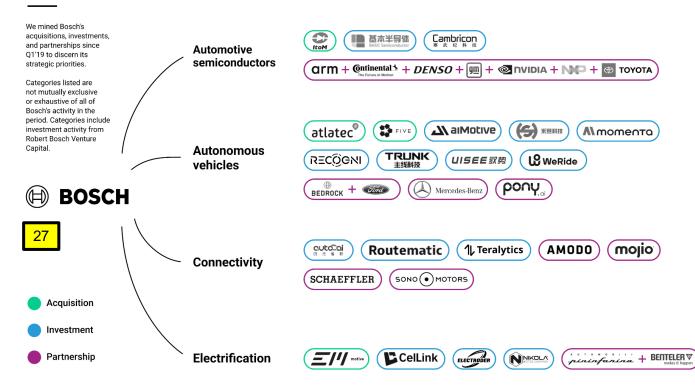


Walmart's Strategy Map





Bosch's Strategy Map

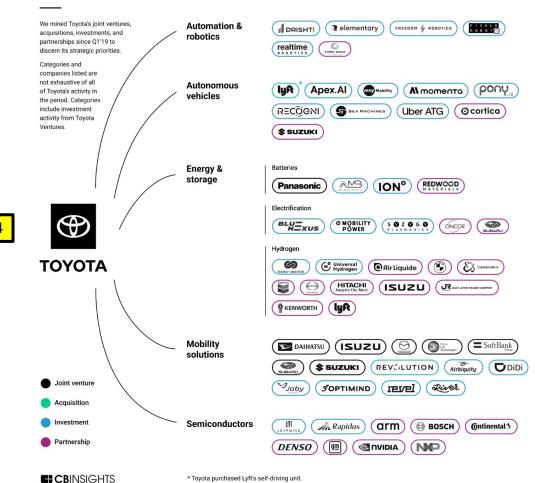




- 10 YEARS -

CBINSIGHTS

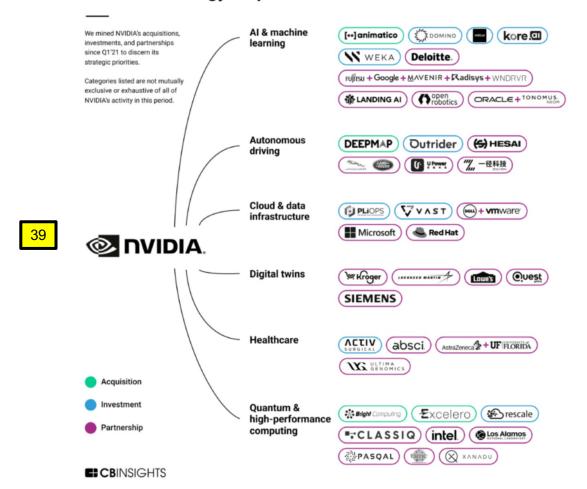
Toyota's Strategy Map





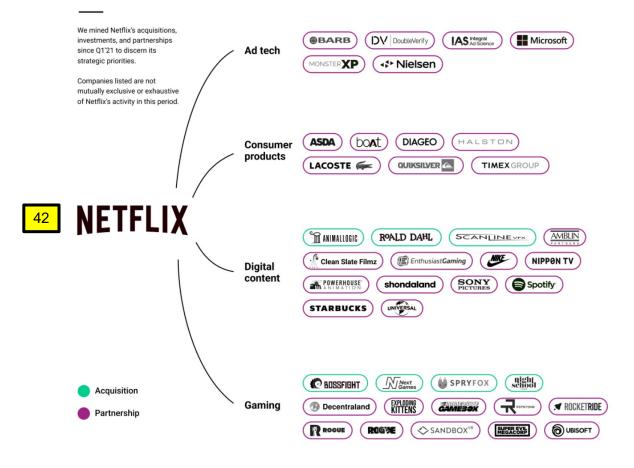
* Toyota purchased Lyft's self-driving unit.

NVIDIA's Strategy Map





Netflix's Strategy Map











ARGÜDEN GOVERNANCE ACADEMY

> Good Governance for Quality of Life — 10 YEARS —

Did a JV with ALIBABA!!



08/07/2017 - SHANGHAI



Alibaba Group and Marriott International Announce Innovative Joint Venture to Redefine Travel Experience







- 10 YEARS -

So, how can organizations navigate the next tech leap?

Look to your next generation of leaders.

37% of next-generation leaders are confident that they have the right skills to implement GenAl... compared to **26% of CEOs**.

Give them the power to experiment and pilot projects.

Next Generation	37%
C-Level	34%
Board Director	28%
CEO	26%

Source: Russell Reynolds Associates' H2 2023 Global Leadership Monitor









