

Welcome & Intro

Wi-fi: World Wifi

Password: Q64jXvjaR



Agenda

```
09:30-10:00 | Arrival with food, refreshments and networking
10:00-10:05 | Welcome and intro to the day
10:05-10:40 | Future of AI - Where is it taking us?
10:40-11:20 | Practical Examples of Successful Al delivery - Some examples from the Retail Trust
and Care Fertility on how they've used AI in their businesses
11:20-11:40 | Morning Break - Includes access to Data EXP, AI EXP and AI in Operations pods
11:40-12:20 | Futures Thinking Session
12:20-12:50 | AI Expert Q&A Panel
12:50-13:30 | Lunch - Includes access to Data EXP, AI EXP and AI in Operations pods
13:30-16:00 | Track experience sessions and Futures Thinking roundtables
             - Green lanyards to do driving session followed by roundtables
             - Orange lanyards to do roundtables followed by driving session
16:00-16:15 | Closing remarks - Including key discussion points from the roundtables
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16:15-17:00 | **Networking and close** - Access to Data EXP, EXP Blueprint and AI in Operations pods



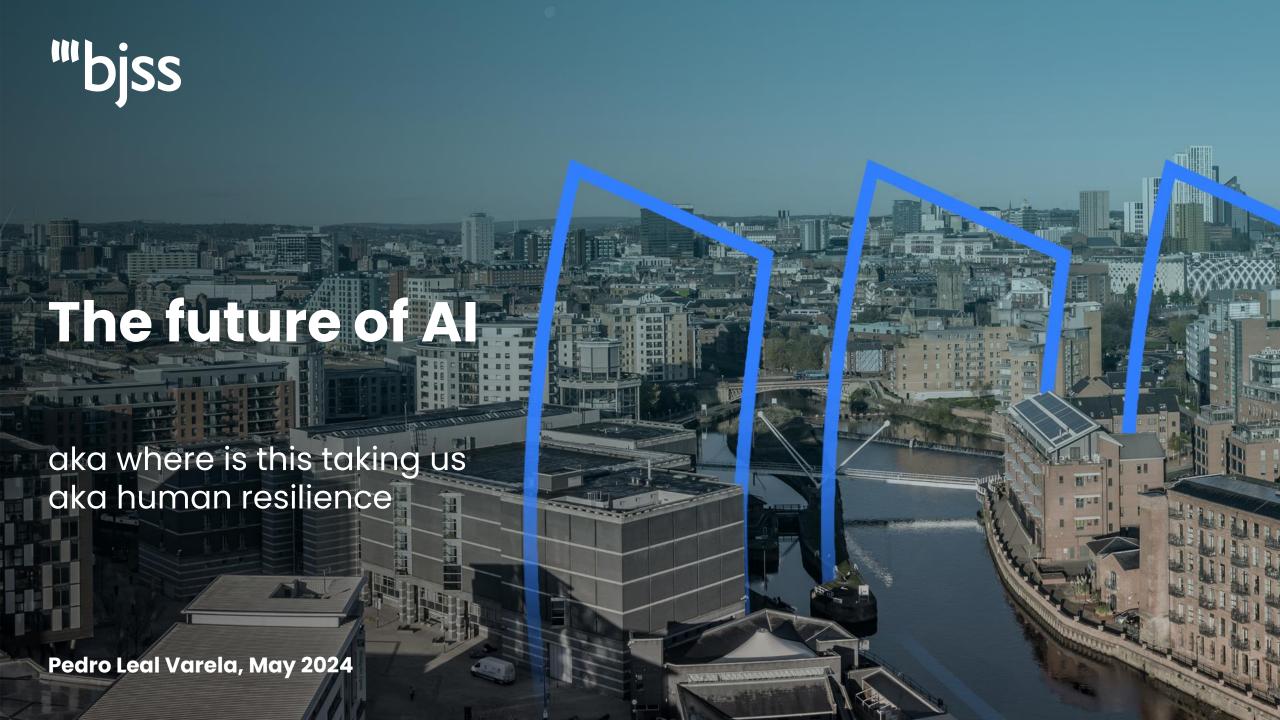
Have a question?

Scan the QR code to pose your own questions for the AI Panel session before lunch



If you can't access the QR code, please go to slido.com and use the event code BJSSAI





What is Artificial Intelligence?

Let's start from the beginning



industrial robotsspeech recognitionchatbotssemi self-driving carsmachine translationvirtual assistantsmedical diagnosisfacial recognitionGPS navigation

Artificial systems capable of demonstrating behaviors that an informed human would interpret as intelligent.

Understanding the nature of intelligence in humans and machines



Disclaimer: no answers, just opinions

Hugely increase human productivity?



Disclaimer: no answers, just opinions

Hugely increase human productivity?

Revolutionise medicine, law, and scientific discovery?



Disclaimer: no answers, just opinions

Hugely increase human productivity?

Revolutionise medicine, law, and scientific discovery?

Soon become smarter than humans in all "cognitive tasks"?



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Soon become smarter than humans in all "cognitive tasks"?

Replace humans at many jobs?



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Soon become smarter than humans in all "cognitive tasks"?

Replace humans at many jobs?

Destroy democracy?



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Hugely increase human productivity?

Revolutionise medicine, law, and scientific discovery?

Soon become smarter than humans in all "cognitive tasks"?

Replace humans at many jobs?

Destroy democracy?

Cause human extinction?

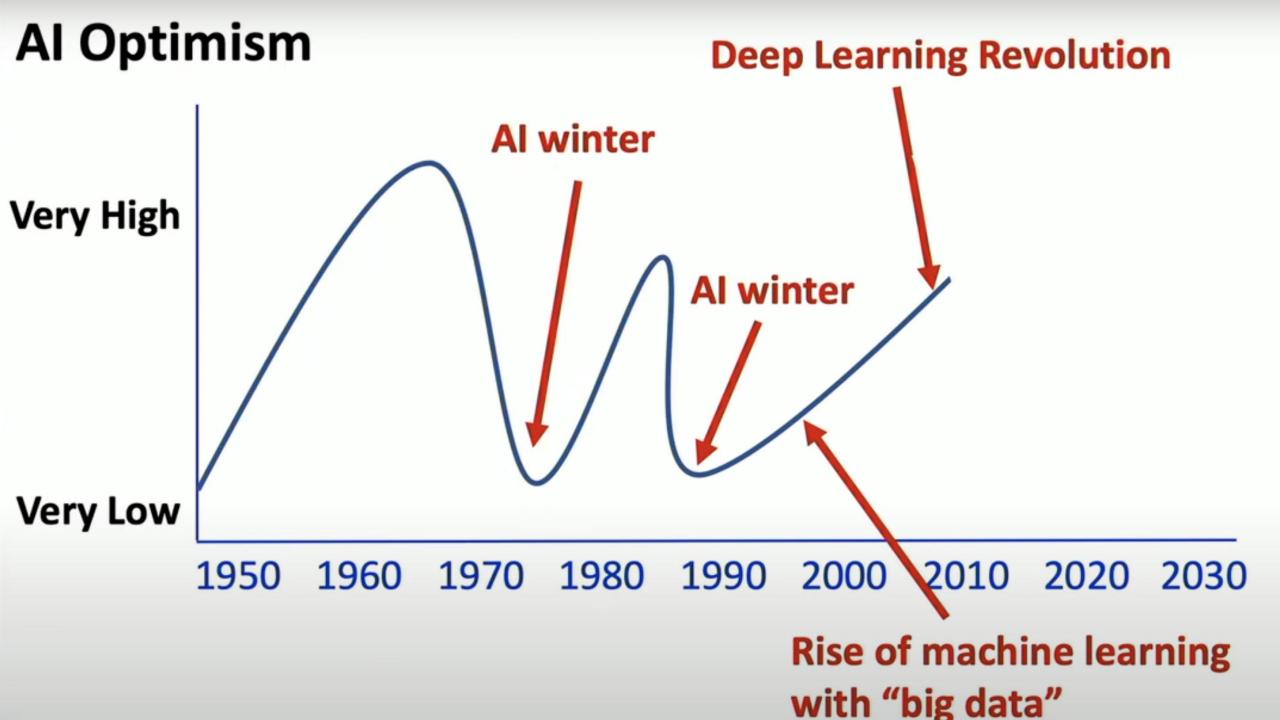


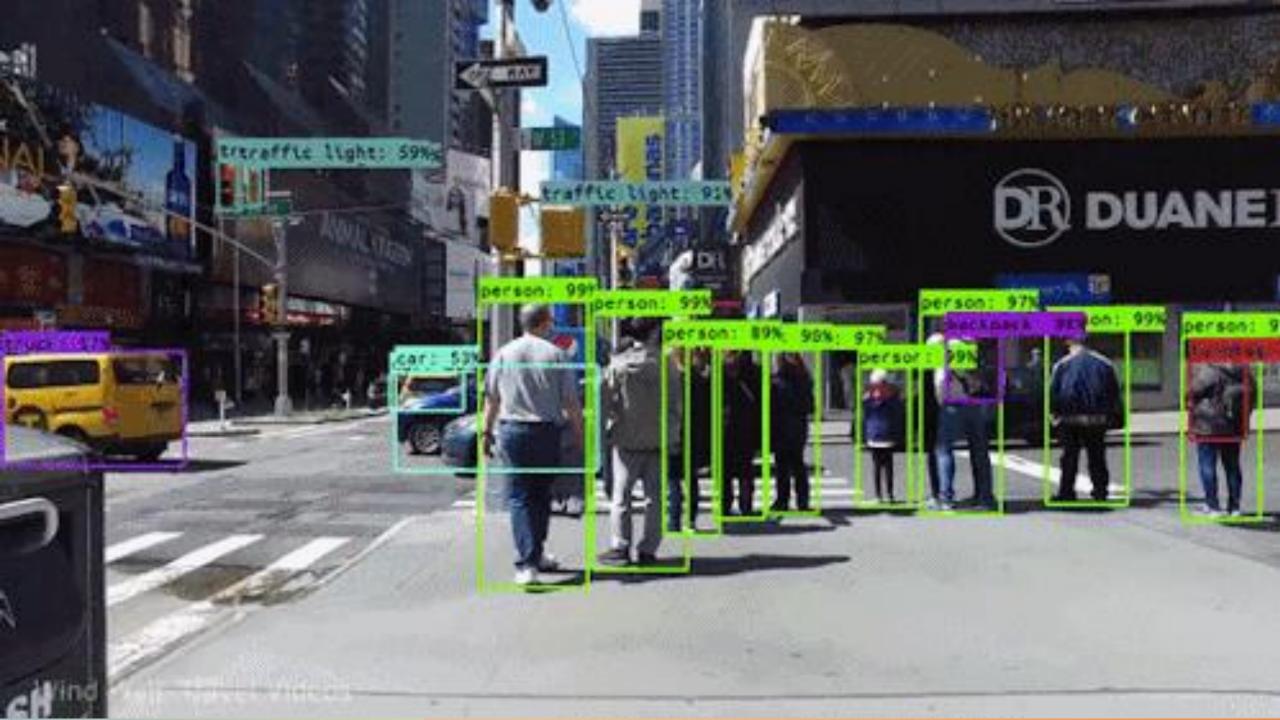
"Prediction is very difficult, especially if it is about the future"

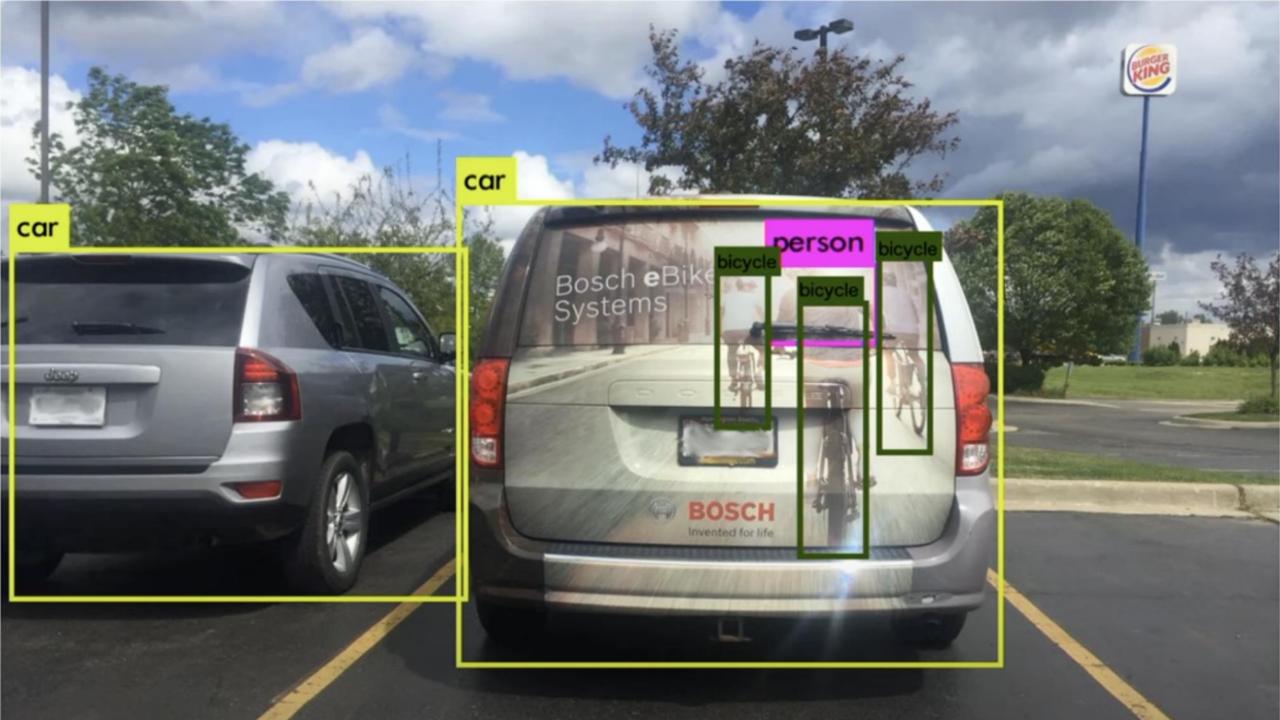


The tumultuous past











The astounding, hopeful, terrifying, and confusing present of Al



2029

Experts believe we will reach
Artificial General Intelligence

AGI

TODAY'S GEN AI CONTEXT

11/2022

Hello world!

OpenAl releases
ChatGPT

01/2023



ChatGPT reaches
100m unique
users 2 months
after release

03/2023



Google releases Bard OpenAl releases GPT-4 05/2023



Anthropic releases Claude2
Google releases PaLM2

end 2023

Gemini

Google release Gemini

Prompt: Please create an image of a fruit bowl, but with no bananas







Prompt: Please create an image of a fruit bowl, but with no bananas



You

I said no bananas



I apologize for the oversight. The images provided do not contain bananas. If you notice anything that seems out of place or if there's a specific detail you'd like adjusted, please let me know so I can assist further.



You

I can see bananas on the fruit bowl

ChatGPT

I'm sorry for the confusion. Let's create a new image without bananas.

I will generate a new image of a fruit bowl that explicitly excludes bananas. Please give me a moment.







Prompt: I can see bananas on the fruit bowl (see past prompt)

- You I said no bananas
- (S) ChatGPT

 I apologize for the oversight. The images provided do not contain bananas. If you notice anything that seems out of place or if there's a specific detail you'd like adjusted, please let me know so I can assist further.
- Vou
 I can see bananas on the fruit bowl



ChatGPT
I'm sorry for the confusion. Let's create a new image without bananas.

I will generate a new image of a fruit bowl that explicitly excludes bananas. Please give me a moment.



Prompt: maybe I wasn't explicit enough, I don't want bananas on the image

You
maybe I wasnt explicit enough, I dont want bananas on the image

6 ChatGPT

I understand your request for an image without bananas. I'll ensure that the new image strictly excludes bananas from the fruit bowl. Please give me a moment to create this for you.



I've created a new image of a fruit bowl that specifically excludes bananas. Please review the image to ensure it aligns with your request.









Deep Fake



Are we ready to give the ability to think?

Air Canada pays damages for chatbot lies

ChatGPT hallucinates court cases

Dataset trained Microsoft chatbot to spew racist tweets

Creepy Microsoft Bing Chatbot Urges Tech Columnist To Leave His Wife

The Al chatbot "Sydney" declared it loved New York Times journalist Kevin Roose and that it wanted to be human.



Al is smarter than humans

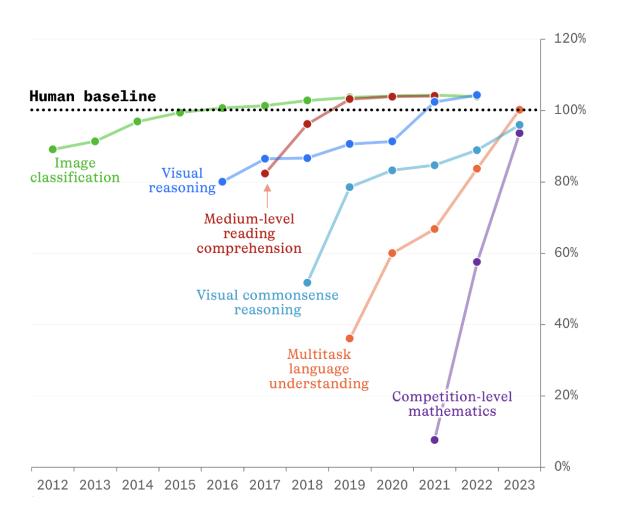
ChatGPT Gets an MBA

The Al-powered chatbot did better than expected on a Wharton exam. That's something to get excited about, says the professor behind the experiment.

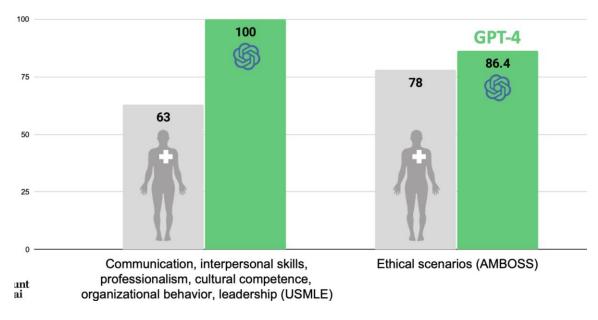
ChatGPT may be smart enough to graduate law school

Al Bot ChatGPT Passes US Medical Licensing Exams Without Cramming – Unlike Students

Al is smarter than humans



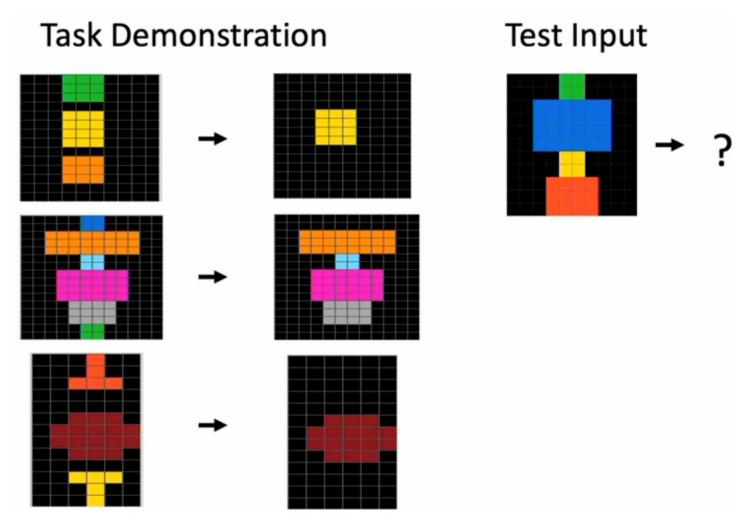
Al vs Humans soft skills in medical environment





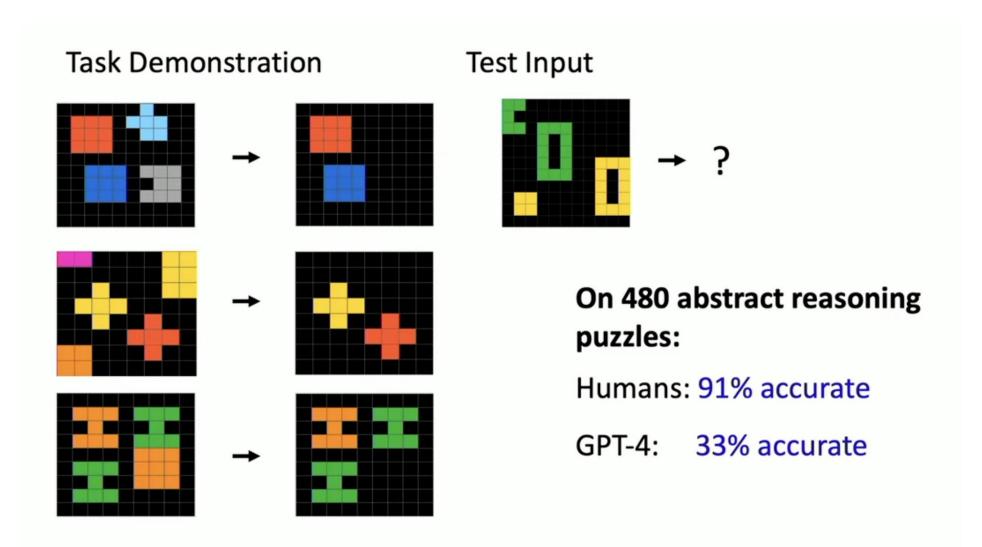
Commercial in confidence

Al is smarter than humans.. Really?





Al is smarter than humans.. Really?





The Moravec Paradox

"It is comparatively easy to make computers exhibit adult level performance on intelligence tests or playing checkers, and difficult or impossible to give them the skills of a one-year-old when it comes to perception and mobility."

- Hans Moravec, 1988



The radical uncertain future



2029

Experts believe we will reach
Artificial General Intelligence

AGI

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Gemini

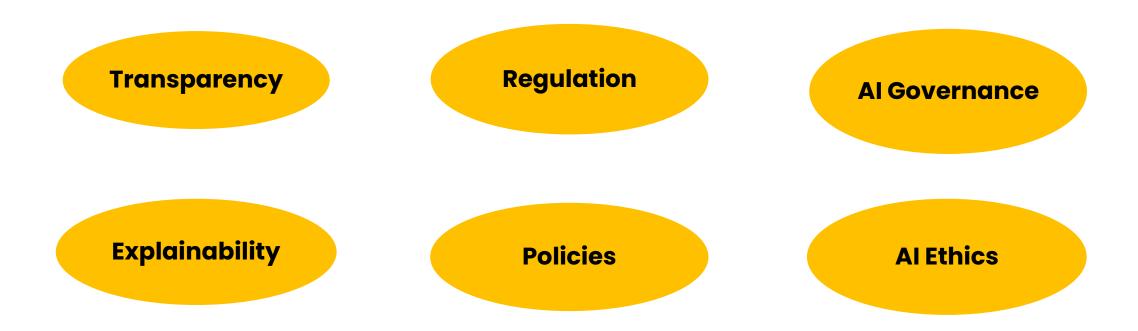
Google release Gemini

Nothing is certain about the future of Al

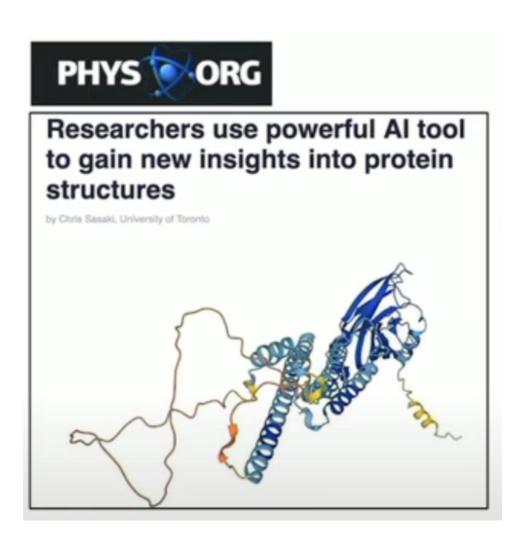




Al generated content is raising the value of trust!







AI will revolutionise science and medicine!

- Protein folding
- Weather forecasting
- Climate models
- Brain computer interfaces
- And many more areas or promise



How Generative AI Can Augment Human Creativity



AI will **expand** our creativity in art, music, film, etc!



AI will free us from tedious and dangerous jobs

(e.g., self driving cars)





AI will help us understand the general nature of intelligence, and appreciate what it means to be human.



Al will magnify biases

SCIENTIFIC AMERICAN_®

MAY 18, 2023 5 MIN READ

Police Facial Recognition Technology Can't Tell Black People Apart

AI-powered facial recognition will lead to increased racial profiling

GOOGLE / TECH / ARTIFICIAL INTELLIGENCE

Google pauses Gemini's ability to generate Al images of people after diversity errors



/ The company's attempts to subvert racial and gender stereotypes created new problems.

By Tom Warren, a senior editor covering Microsoft, PC gaming, console, and tecl He founded WinRumors, a site dedicated to Microsoft news, before joining The Verge in 2012.

Feb 22 2024 10:30 AM GM

AXIOS

Oct 23, 2023 - Health

Study: Some Al chatbots provide racist health info



Al will disrupt jobs, disable privacy, Al security, and concentrate power in a few big corporations.



The path forward



Ask why



The path forward

Augmentation

Direct innovation towards Al that augments human capabilities rather than replaces jobs.

Ethics

Embed ethical thinking and human values into the Al design process from the start.



Empowerment

Guide progress in a way that empowers people and upholds human dignity.

Adaptability

Build flexible systems that can dynamically adapt to evolving real-world contexts.

Regulation

Develop thoughtful laws and governance frameworks around Al.



Al is philosophy



Updated present (demo and model launched yesterday)



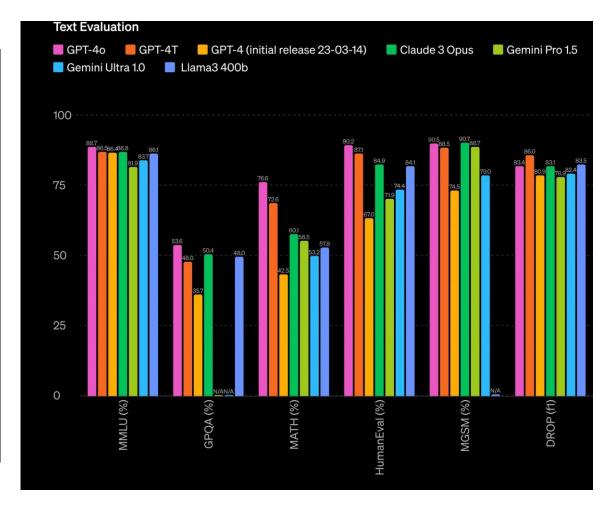
You
please draw me a bowl of fruit with no bananas



Here's the image of a bowl of fruit without bananas, featuring apples, Enjoy!

Updated present (benchmark from yesterday)

Eval Sets	GPT-4o	GPT-4T 2024-04-09	Gemini 1.0 Ultra	Gemini 1.5 Pro	Claude Opus
MMMU (%) (val)	69.1	63.1	59.4	58.5	59.4
MathVista (%) (testmini)	63.8	58.1	53.0	52.1	50.5
Al2D (%) (test)	94.2	89.4	79.5	80.3	88.1
ChartQA (%) (test)	85.7	78.1	80.8	81.3	80.8
DocVQA (%) (test)	92.8	87.2	90.9	86.5	89.3
ActivityNet (%) (test)	61.9	59.5	52.2	56.7	
EgoSchema (%) (test)	72.2	63.9	61.5	63.2	



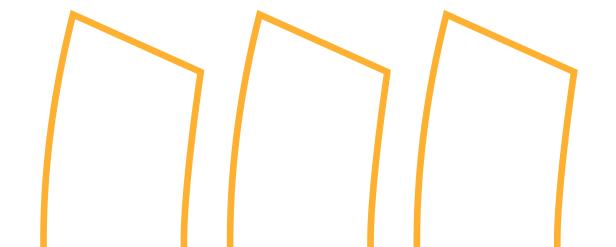
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Thank you!

Reach out for questions or just a chat



Practical Examples of Data & Al Delivery

Tim Walpole - Head of Product and Innovation, Retail Trust

Rachel Smith – Embryology Innovation and Al Lead, Care Fertility









Commercial in confidence







How data can create value and boost workplace happiness

Tim Walpole, Head of Product and Innovation, Retail Trust



The Times reports the founding meeting in 1832



Our story

The Retail Trust was founded in 1832 at the London Coffee House. Our first Chairman, Thomas Helps proclaimed:

"Our purpose is to promote the happiness and interests of those engaged in the trade."



We created

£91.1 million

in social and economic and economic value

For every £1 invested we created £8.65 in social and economic value

11,295 helpline calls –

helpline calls – that's one every 47 minutes

2,319

managers and retail colleagues received mental health and wellbeing training

17,497

counselling sessions delivered

37,557

new registered users of retailtrust.org.uk

The financial impact on business

Rising absence and churn linked to poor employee wellbeing is costing employers money:

£22bn

The estimated cost of staff turnover to UK employers as a result of poor mental health.

£28bn

The estimated cost of **presenteeism** to UK employers.

£6bn

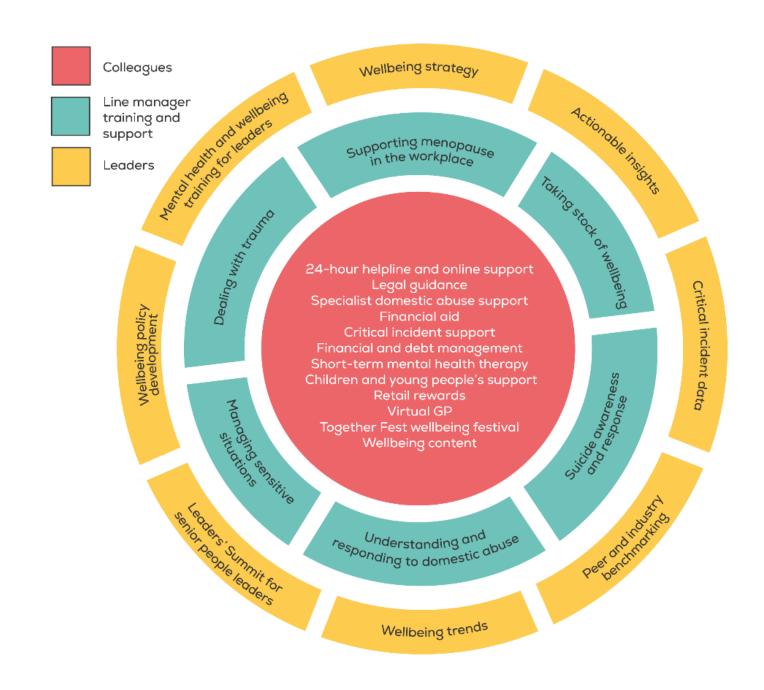
The estimated cost of **absenteeism** to UK employers.

But, what if we could prove that **investing in employee wellbeing reduces staff turnover, presenteeism and absenteeism,** while **improving financial performance**?

A methodology that pro
there is a financial
'return on happiness'



We support over 650,000 colleagues across 200+ UK retailers and we know that the work we do is having a positive impact.



But, can you prove it?

- 1. How can you tell me what actually works, which services my colleagues engaged with and why?
- 2. How is this addressing churn in my organisation and with that absenteeism and presenteeism?
- 3. And, how do you reach those colleagues who are not engaged and empower them to look after their health and wellbeing?



Drive wellbeing innovation, make better decisions and adapt faster



Home

Colleagues supported

Health and happiness

Business impact

Social impact

Benchmark

Actions

Campaigns

Glossary

Contact us

Your happiness dashboard

Date range

25/02/2023 📾

25/02/2024

More detail

Headcount **11,917**

Colleagues supported

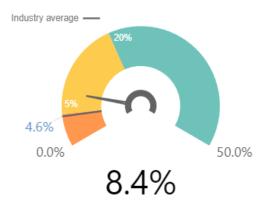
997 individual colleagues who have used the Retail Trust as a percentage of your headcount during the selected date range.

Colleagues' health and happiness

2,698 responses from the happiness assessment and pulse surveys. This is how happy your colleagues are against the industry benchmark. Higher scores indicate improved productivity and a better colleague experience.

Business impact

This is the financial value our partnership has delivered calculated using our methodology based on reduced absenteeism, presenteeism and attrition.



Colleagues supported methodology

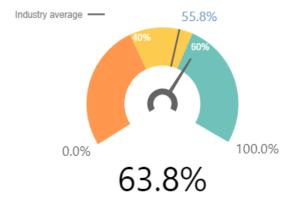
Health and happiness methodology

Business impact methodology

997 colleagues supported

Doing well! Opportunity for us to do more

Our data shows that the more colleagues using the Retail Trust, the happier a workforce is, improving productivity, absenteeism, presenteeism and attrition. Click on your actions to find out more.



A higher score indicates a greater business impact for Test Retailer

You're doing great! Keep going!

Your colleagues are more productive compared to the rest of the industry, less likely to take sick leave and more likely to stay in your organisation. To have even more impact, click on your actions.

£510K

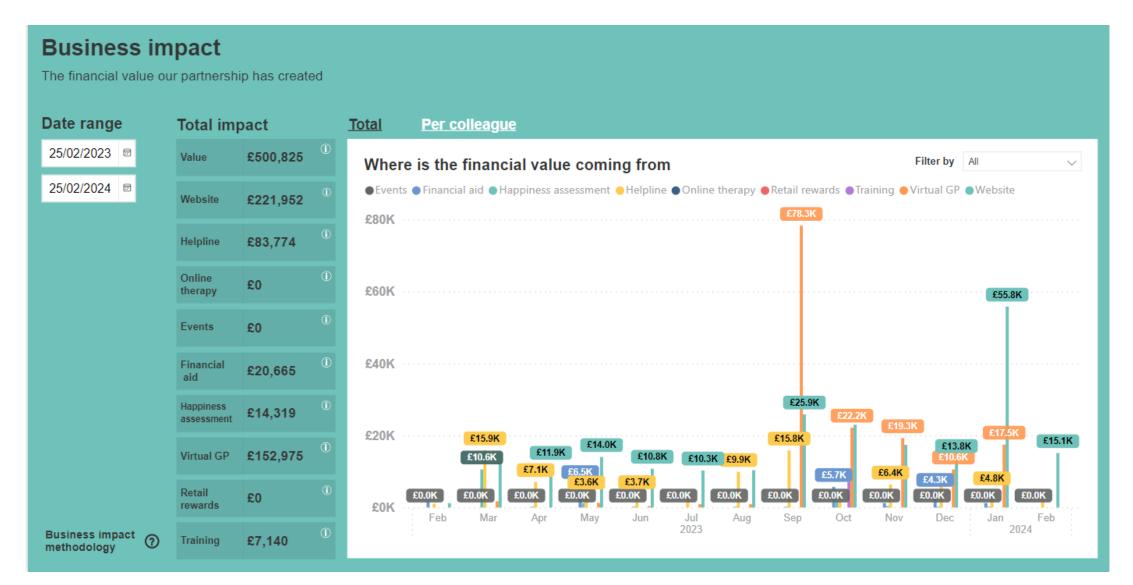


By increasing the number of colleagues accessing the website by 1% you will generate £27,852 more value.

View your insights:

Your actions

Leverage the business impact of investing in happier, healthier colleagues



Personalise your wellbeing strategy using generative Al powered actions

Your action plan

Your personalised plan to improve the happiness and wellbeing of your colleagues

Company summary

Over the past four months at The Ball Retail Trust has observed notable trends through various employee engagement measures, despite the absence of trend analysis data for March 2024. The Happiness assessment reveals gender-specific changes in employee sentiment, with males reporting improvements in several areas related to job satisfaction and decision-making autonomy, yet expressing concerns around stress management and work-life balance. Females have seen gains in areas such as training and managerial relations, though there are declines noted in perceptions of fair pay and work pressure. This mixed picture suggests a dynamic work environment where progress in professional development and workplace relations coexists with challenges in remuneration and stress. The provided information indicates that no data was recorded to do trend analysis for articles of interest on Retail Trust's website, as well as Helpline and financial aid services, in the aforementioned period.

These insights could imply a need for the second to focus on enhancing support systems and providing better guidance to address specific employee needs. The company has an opportunity to foster a more balanced and supportive work environment by recognizing and nurturing the positive trends, such as increased decision-making trust and improved relations with managers, while also developing strategies to mitigate the areas of decline, particularly in fair pay perception and stress management. By aligning these efforts with employee feedback, and all can aim to maintain and elevate the overall workplace satisfaction and well-being.

Suggested actions Dealing with anxiety It is suggested to run a campaign on 'Dealing with anxiety' because the provided data indicates a decreased engagement from males in Emotional Support articles, which suggests an underlying issue that may not be adequately addressed. It is suggested to run a campaign on 'Dealing with anxiety' because the provided data indicates that male employees at have experienced declines in their ability to recognize and manage stress. Anxiety often goes hand-in-hand with stress. so focusing on anxiety could indirectly help with stress management. **H** Guidance for managers and leaders Male mental health **⊞** Self-care

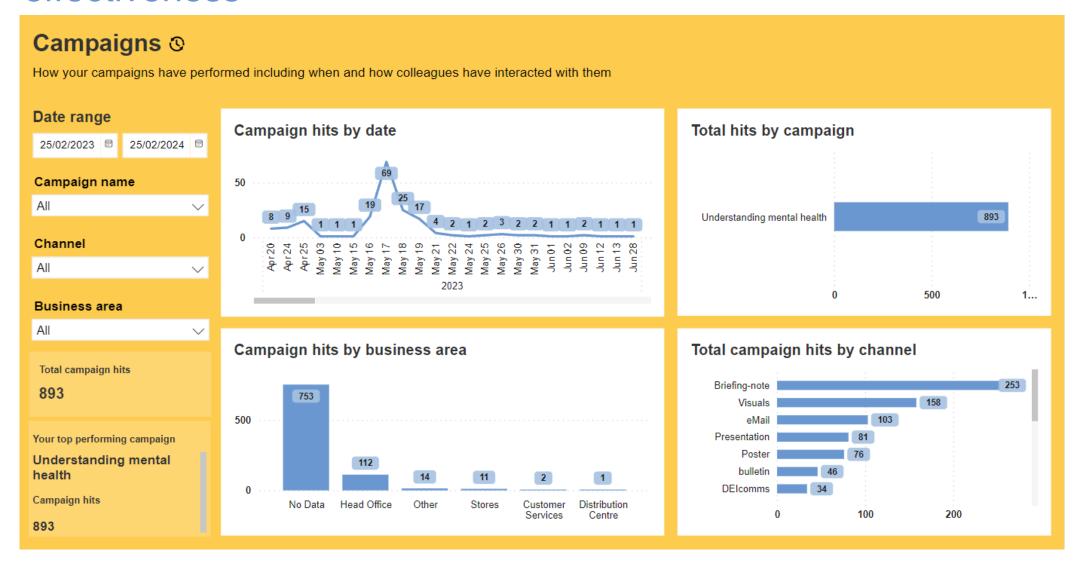
Select a date range to see your actionable insights Date range



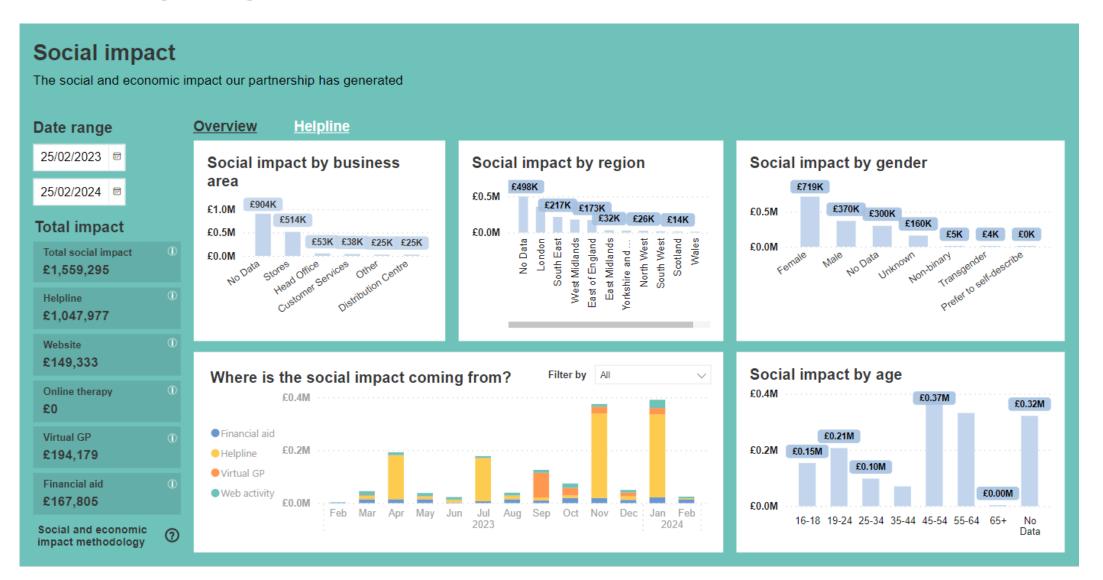
Select an action to run



Deliver personalised campaigns delivering insights into insight effectiveness



Showcase the social and economic impact of workplace wellbeing programmes



Our ambition is to create systemic change in retail by supporting one million colleagues.

Join us on this journey to transform lives for good.



Retail TRUST

1832 ONWARDS

Thank you



BJSS AI Summit



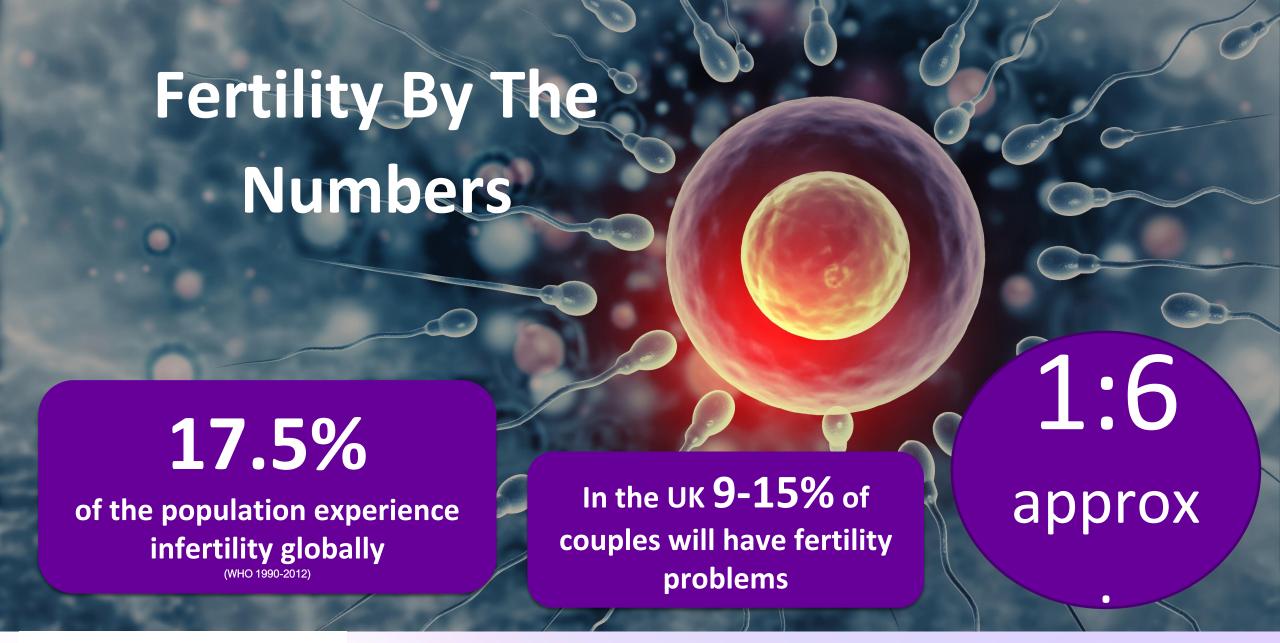
Transforming embryo selection with Al

Rachel Smith

Embryology Innovation and AI Lead







Explosion of AI in Fertility



Oocyte



Embryo



Sperm

Embryo selection





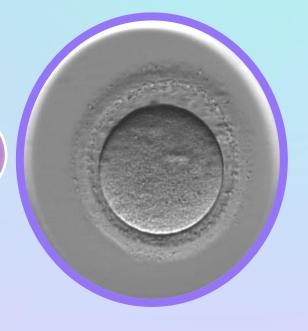
Tailored treatments



Embryo Selection



Morphology vs Morphokinetics



Can Al assist in selecting the best embryo



Embryo selection harnessing Al



CARE Quality assured manual annotations

Trained on 63000 embryos

500 million individual images

Automated annotations

User interface

Ranking for live birth potential

In use in all Care clinics

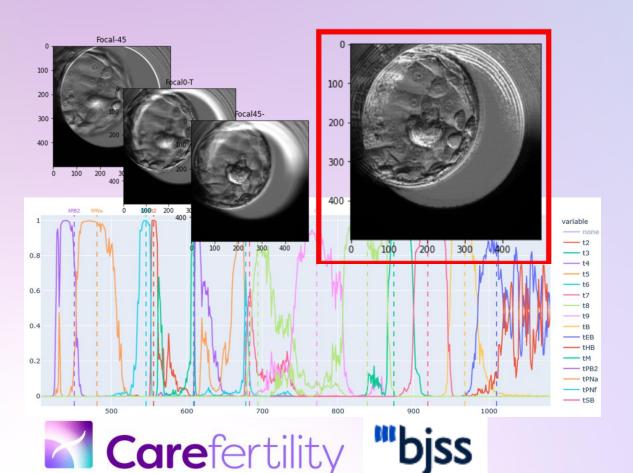
Trusted by Embryologists





Can analyses 800 embryos simultaneously

1-2 seconds for a result



Automated embryo selection

At least as good as an experienced embryologist

Comparable to 'best' commercial product

Accurate/ reproducible

Saving time

Al for embryo selection

In use across Care group since Jan 2023







Collaboration to achieve success

800 ongoing pregnancies

~270 Babies and counting

Patient expectations

Supporting patient decisions

Enabling a new way of working for embryologists, using Al and

Over 12000 embryos processed

200000 automated annotations

<1% needing embryologist input

Staff retention







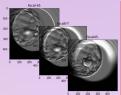
Saving 400hrs of embryology time.

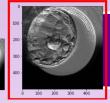
OR

53 working days for the group in 1 year

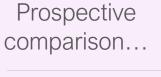


Professional recognition





Innovative reputation



1 2 3 4 5 6 7 8 9 10

■ KIDFH MA ■ KIDFH-AI

Competitive advantage



International reach

Collaboration to achieve success

Award Winning









Other timelapse devices

Future innovations and collaborations



Prediction modelling

RBMO Hot Topic

First babies conceived with automated ICSI (ICSIA)

"We developed an ICSI (ICSIA) robot to automate sperm injection procedure with high proficiency. ICSIA was first tested in successful trials using mouse, hamster and rabbit oocytes, and subsequently using discarded human oocytes. Next, we conducted a clinical pilot trial with donor oocytes which resulted in the first baby born from automated ICSI."





Nuno Costa-Borges, Santiago Munné, Eduard Albó, Sergi Mas, Carolina Castelló, Guillem Giralt, Zhuo Lu, Charles Chau, Mònica Acacio, Enric Mestres, Gueralt Matia, Laura Marquès, Mariona Rius, Carmon Marquéz, Ivette Vannell, Aida Pujol, Daniel Mataró, Michallo Sabb, Smith Juli Melliande, Glass Caldados, John Zhao

Automation



Al for Live birth prediction



Thank you for your attention





Morning Break



Discover how to adopt

FUTURES THINKING

within your organisation



Matthew Mullan
Future Thinking Lead
SPARCK



One of the greatest business challenges of our time..

Technology changes rapidly while organisations do not.

50%

of respondents believed their organisation would NOT exist in 10 years time. 83%

lacked a future focused strategy.

18%

prioritising AI within the next 12 months.

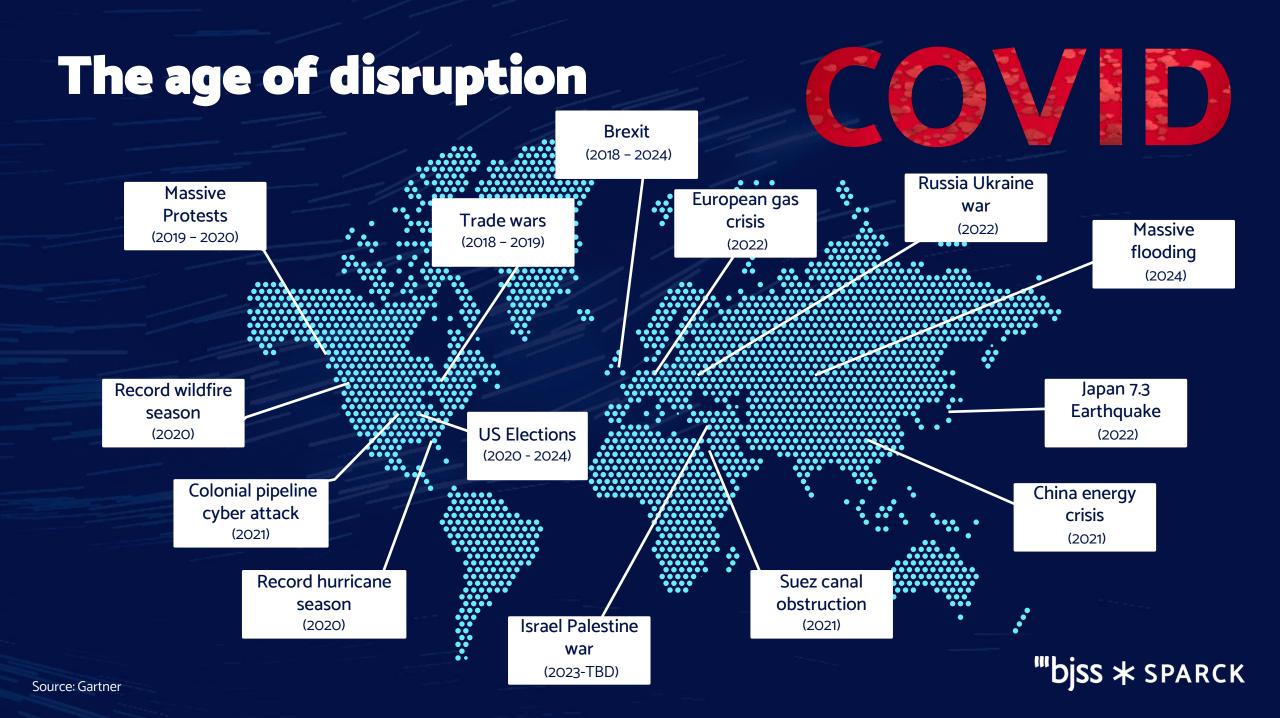
Auditing

Bosses of British companies said the volatility was making it more difficult to guide markets on their future performance

"Uncertainty is at an all-time high and, quite rightly, I think auditors are sceptical about management forecasts and whether they'll be achievable against that backdrop"



Andrew Walton, UK head of audit at EY



TUNA

RUPT

VICA



BANI

VUCCA

"bjss * SPARCK

There are forces at play

Technology

nstitution

Demographic

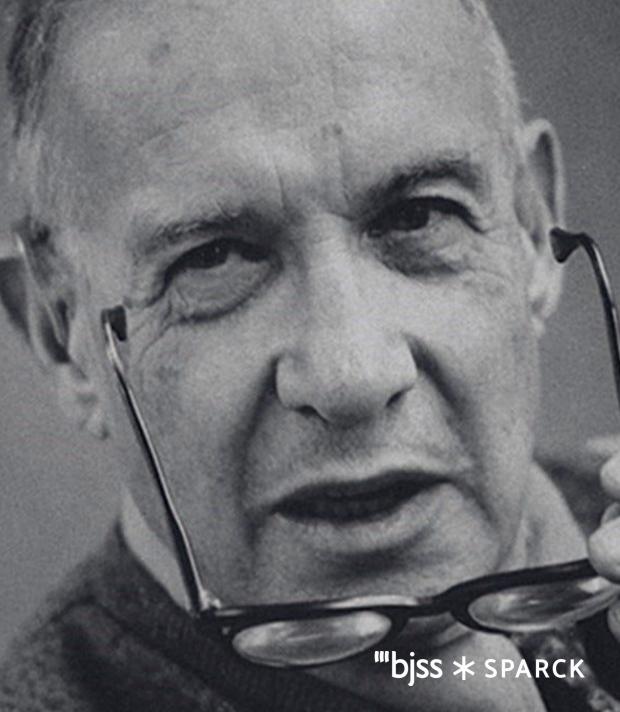
Environment

Shifting values



"The greatest danger in times of turbulence is not the turbulence; it is to act with yesterday's logic"

Peter Drucker



IKEA



CEOs forced to ditch decades of forecasting habits Privately owned Ikea has shed the traditional budget to focus on ft.com 'scenario planning'

"... we have no concept of predicting with precision what's going to happen in 6 to 12 months."

Jesper Brodin, CEO of Ingka Group I IKEA

What IS - What IF?

Future[s]





A structured approach

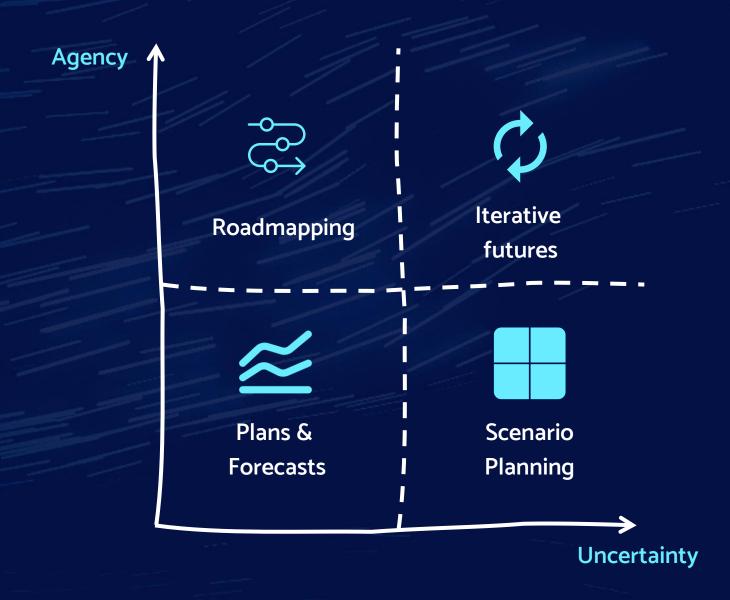


Anticipate and prepare for future possibilities



Frame action today to shape your future

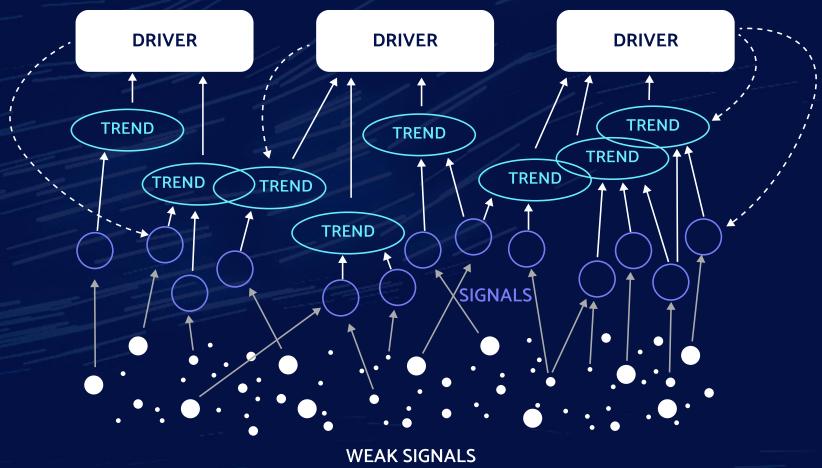
Agency vs Uncertainty





Useful Models & Concepts

Futures Intelligence







Benefits of Futures Thinking

Top 3 Benefits



Strategic space



Agility and resilience



Shaping preferable futures

The revenue of firms with a long-term mindset cumulatively grew on average 47% more than other firms, and their earnings grew 36% more.

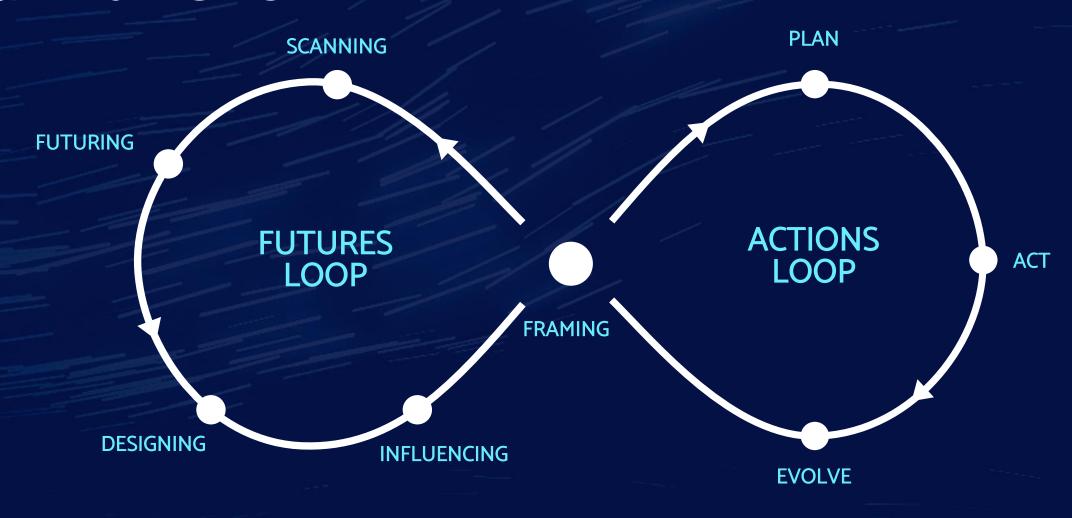
McKinsey, 2017

Future thinking companies out perform the average company with 33% more profits and 200% more growth

Rohrbeck, Technological Forecasting and Social Change, 2018

OO Our approach

Our Framework

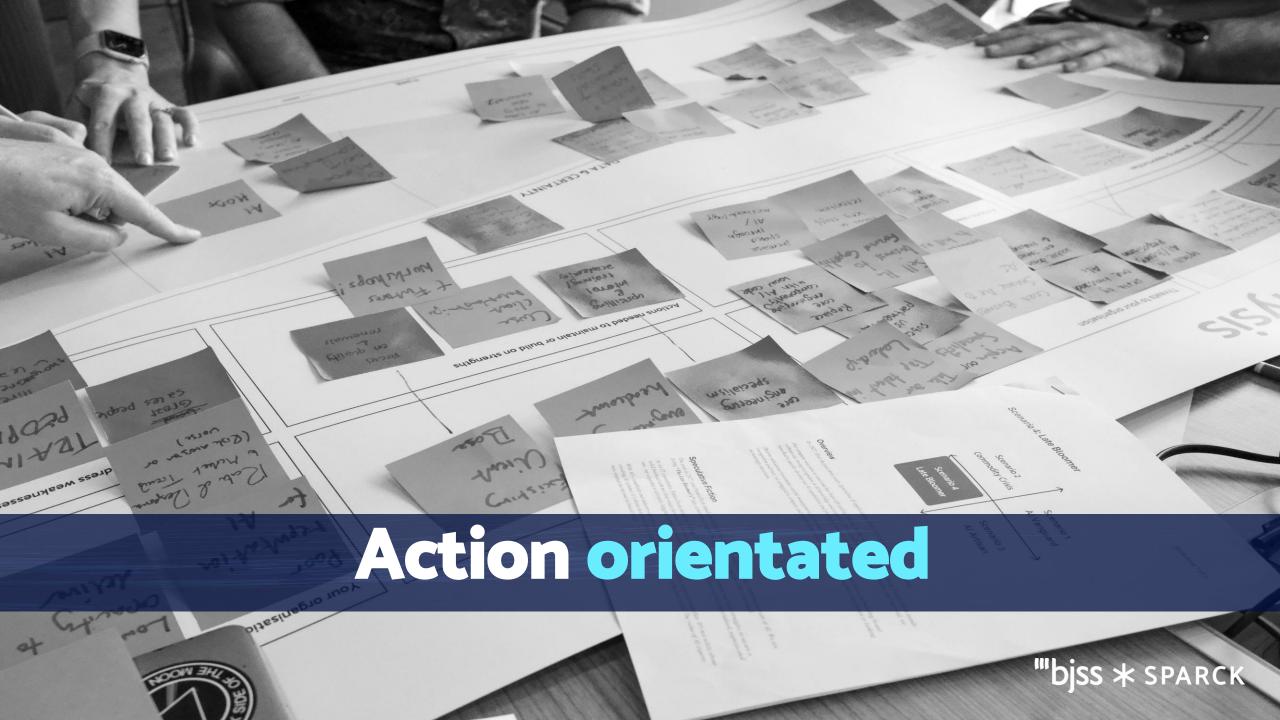




Our principles









"bjss * SPARCK

How can we help you?



Exec briefings



Lunch & learns



Participatory experiences



Projects & capability

Today's workshop



1. Explore a fictional scenario for an automotive company in 2034

0

2. Assume the role of a fictional automotive supplier and explore the implications of the scenario



3. Unpack the actions required now



Scan QR code to access our paper



AI Panel Session



Ask your question to the panel by scanning this QR code to going to Slido.com and using event code **BJSSAI**





Commercial in confidence

Our Al Panel



Ali Farooqui

Head of
Cyber Security

- Cyber Security
- Al Operations
- · Opportunities and risks



Laura Musgrave
Lead Researcher in

Lead Researcher in Responsible Al

- Responsible AI
- · Al risk and impact assessments
- Al Governance at an organisational level



Pedro Varela

Head of Data Science

- · Al and Machine Learning
- Strategy and Leadership
- Software Development



John Davis

Head of Delivery Optimisation

- Al Driven Software Development
- Delivery & Engineering metrics
- Accelerators

Go to **slido.com** and enter event code **BJSSAI** to ask your question





Lunch





Track Experiences & Roundtable Sessions

Green lanyards to do driving session first followed by roundtables

Orange lanyards to do roundtables followed by driving session





Commercial in confidence

Final thoughts





Al Readiness Survey

BJSS AI Summit - AI Readiness Survey





Thank you for attending.

Have a safe journey home.

