



**BIG  
INNOVATION  
CENTRE**

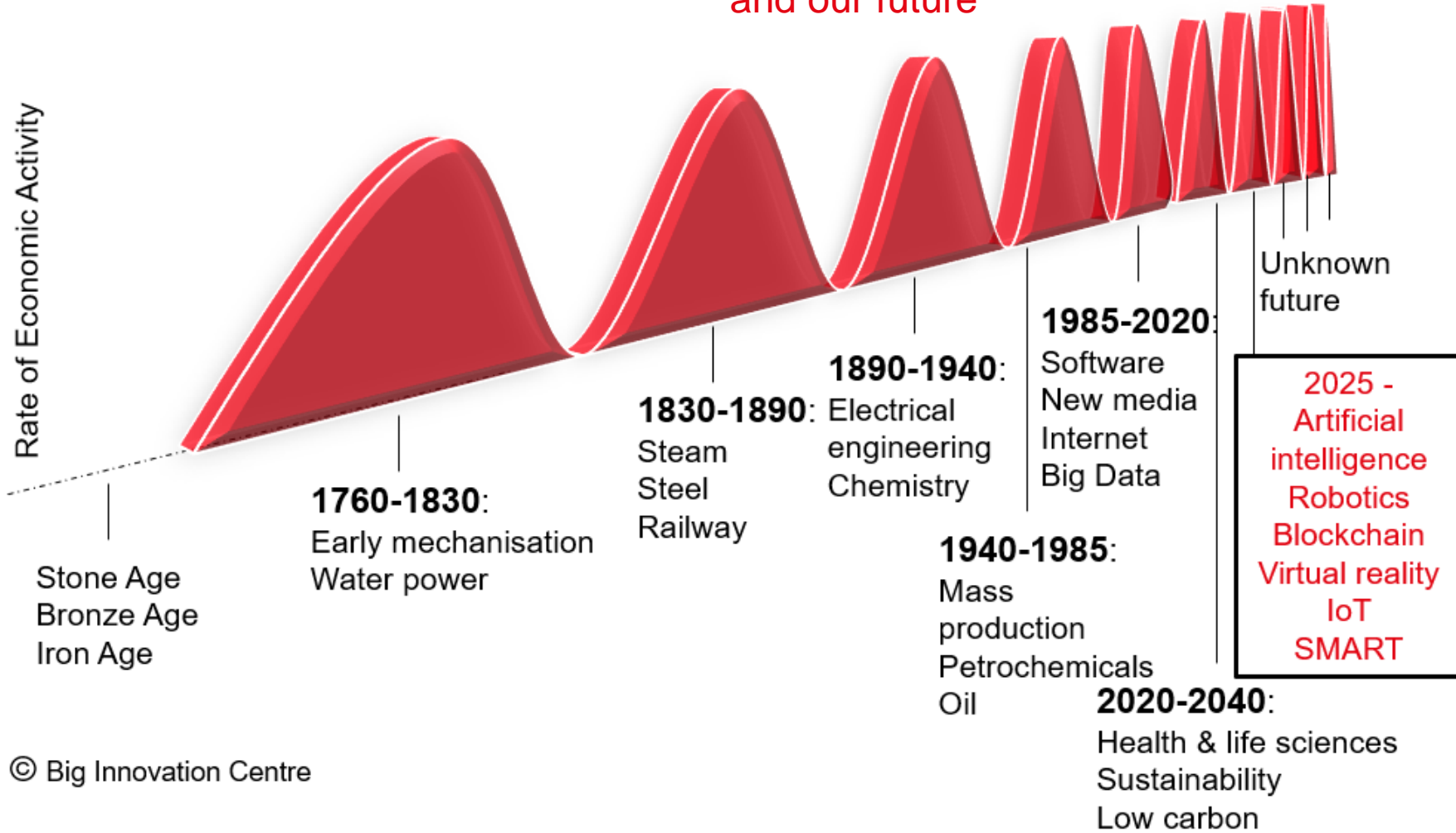
# The AI Revolution and Me?



**BirgitteBIC**

Professor Birgitte Andersen – CEO  
Twitter: BirgitteBIC

AI is changing  
our cities, regions, work routines, how we live  
and our future



**Evolving  
technological,  
business and  
economic  
opportunities**



November 2020  
APPG AI Evidence Meeting

**AI in Education**  
Designing fair and robust AI-based assessments systems  
PARLIAMENTARY BRIEF

October 2020  
APPG AI Evidence Meeting

**AI in Education**  
Embedding AI tools into teaching curricula  
PARLIAMENTARY BRIEF

# AI in EDUCATION

Safe deployment of AI-based assessment systems.  
Continuous assessment – not study for the exam.

Precision learning & free up time to foster class community.

Involve educators in the shaping of AI tools to build trust in an AI enabled education system.

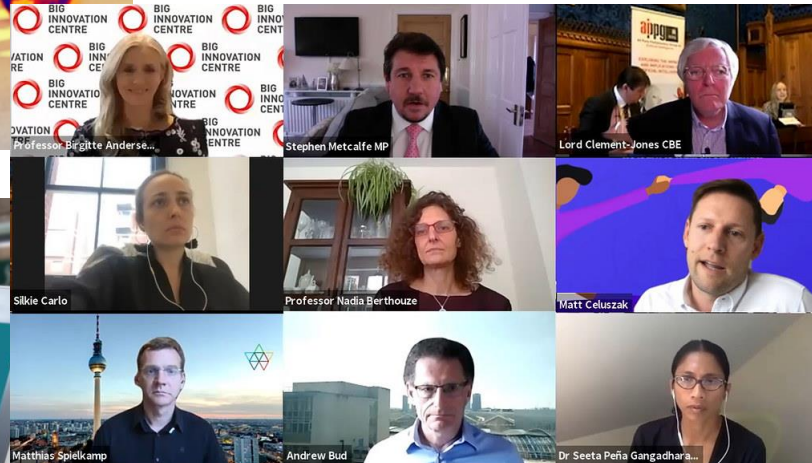
Provide all school children with electronic devices for AI supported and upgraded education.

Training for teaching staff.





# FACE RECOGNITION & AI in SECURITY.



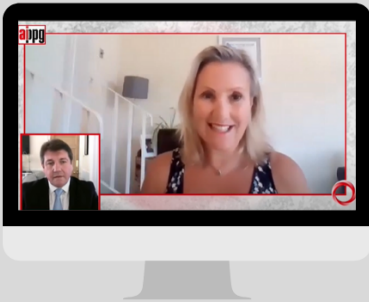
- Purposeful use.
- Not discriminate against citizens.
- Data governance on collection, storage and use of data.
- Watchdog on technology application and use.
- Transparency.
- Citizen participation.
- *Emotion recognition ?*

Fringe Campaign at the UK Political Party Conferences 2020  
Will Face and Emotion Recognition change the UK?



In conversation with  **Conservatives** Party Conference 2020 October 4 to 7

**UK Minister of State for Digital and Culture, Caroline Dinenage MP**



"For so long there has been the perception that the motivating factor behind AI and the digital footprint around the world has been all about money and global superiority. But actually, it's got a key role in seeking to solve some of the big ethical problems that we face"

The minister described the deployment of face and emotion recognition technologies as "really tricky" and "quite a contentious bit of technology". For this reason, the government has commissioned a briefing paper. It is a fine balance "between recognising the opportunities, and also understanding the risks", the minister said.

View the Minister's full recent conversation with APPG AI  
<https://www.youtube.com/watch?v=dYc4-clxGYc&t=359s>

Fringe Campaign at the UK Political Party Conferences 2020  
Will Face and Emotion Recognition change the UK?



Comment  **Labour** Party Conference 2020 September 19 to 23



**Chi Onwurah MP**  
Shadow Minister for Science, Research and Digital:

"Without a robust regulatory framework new technologies like facial recognition risk industrialising bias and entrenching the digital divide. Government needs to work with industry, citizens and stakeholder groups to set out a vision for our digital future and put in place the rights, infrastructure and institutions which will make it work.

That is why Labour has launched its consultation 'Our Digital Future' and this debate is an important part of that"

<https://www.policyforum.labour.org.uk/commissions/our-digital-future>

Fringe Campaign at the UK Political Party Conferences 2020  
Will Face and Emotion Recognition change the UK?



Comment  **Liberal Democrats** Party Conference 2020 September 25 to 28



**Lord Clement-Jones CBE**  
Co-Chair All Party Parliamentary Group on AI

"The Big Innovation Centre as ever is tackling a big issue in an innovative and engaging way. The debate over use and regulation of Face and Emotion Recognition and its implications and consequences is crucial. This is a very well timed Fringe Campaign in which members of all parties should participate during the Conference season."

"In my view - and I have introduced a private Members bill into the Lords to that effect - there should be an immediate moratorium on the use of Live Facial Recognition by the police and other public authorities while we determine whether and how to regulate its use."

Fringe Campaign at the UK Political Party Conferences 2020  
Will Face and Emotion Recognition change the UK?



Comment  **Conservatives** Party Conference 2020 October 4 to 7



**Stephen Metcalfe MP**  
Co-Chair All Party Parliamentary Group on AI

"For Face Recognition Technology to deliver reliable and fair results we must make sure that there are standards, or ground rules, in place that frames some regular auditing and adequate training of these technologies.

In my view, this is the only way to guarantee their ethical and transparent deployment, including who is accountable, and for what purpose such technology is used.

Also, to preserve public trust and for public safety, the citizens must be informed and participate in the debate on the use of Face Recognition Technology in public spaces."



**Will Face and Emotion Recognition change the UK?**

**Big Innovation Centre at the UK Political Party Conferences**

**2020**

@ Conservatives @ Labour @ Lib-Dem

## AI in healthcare needs data rules and oversight body says report

08/08/20



Making more of artificial intelligence in healthcare requires strong rules around the use of data and an independent oversight body, according to a new parliamentary briefing report.



The All-Party Parliamentary Group on Artificial Intelligence (APPG AI) has published the document – How can AI help in the fight against Covid-19? – after a recent hearing focused on the technology's role in disease control and the experience of countries that have used it in fighting the pandemic.



Streamlining spend in public sector organisations

Prepare for the future: manage spend and control costs more effectively.

SAP Concur

THE BEST RUN SAP

UKAuthority Digital Health & Social Care

ONLINE | 11.00 to 12.30 | 24<sup>th</sup> to 26<sup>th</sup> June

Health & Care

It has highlighted two major regulations on the responsible infrastructure for its sharing an



All Party Parliamentary Group on Artificial Intelligence

EVIDENCE MEETING PUBLIC HEALTH: HOW CAN AI HELP IN THE FIGHT AGAINST COVID-19?

MONDAY 6<sup>TH</sup> APRIL 2020 5:30 PM GMT ONLINE



EVIDENCE GIVERS FROM LEFT TO RIGHT:

- Prof Tim Spector, Professor of Genetic Epidemiology, King's College London
- Chris Harbron, Expert Statistician, (MCO) Biostatistics function, Roche
- Prof Shannon Vallor, Baillie Gifford Chair, Futures Institute, University of Edinburgh
- Dr Richard Dybowski, AI Researcher, St John's College, University of Cambridge
- James Kingston, Deputy Director, HatLab
- Adam Riccoboni, CEO, Critical Future

## group sees post-pandemic role for healthcare

Blockchain technologies can play a significant role in supporting health services in the recovery from the Covid-19 pandemic, according to a new briefing paper.

The All-Party Parliamentary Group on Blockchain has published the report from its evidence session on the post-pandemic role of the technology in April



EVIDENCE MEETING BLOCKCHAIN APPLICATIONS REGULATION, POLICY AND STRATEGY NATIONAL SECURITY AND DEFENCE HOW CAN BLOCKCHAIN HELP IN THE TIME OF COVID-19? 4 APRIL 5:30 - 6:45 PM LONDON TIME (ONLINE)



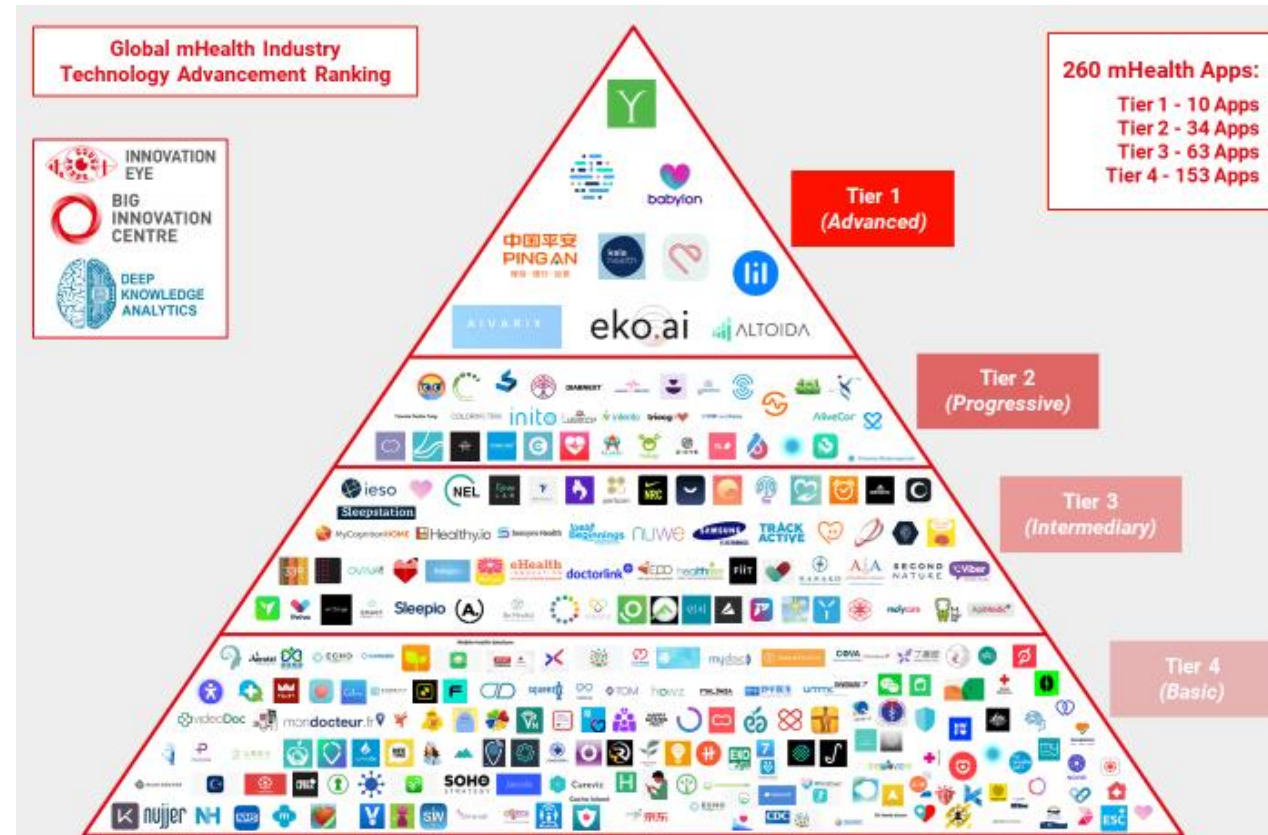
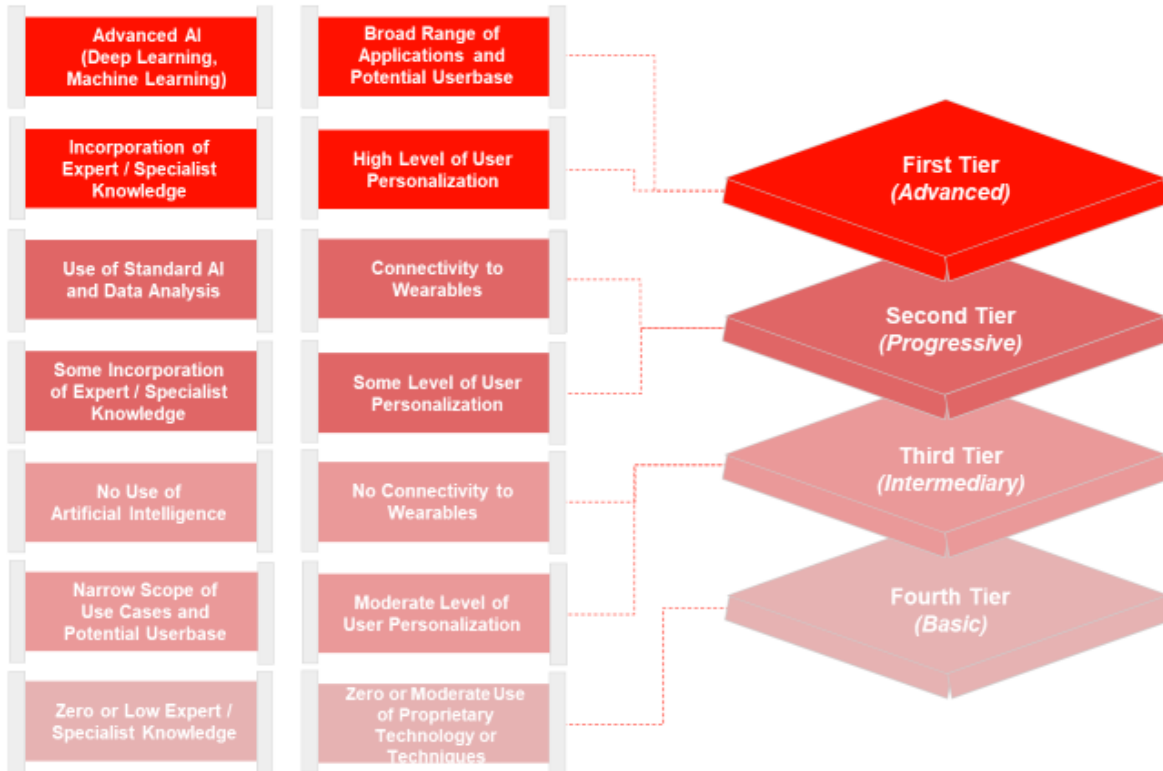
- EVIDENCE GIVERS FROM LEFT TO RIGHT:
- Taavi Rõivas, Estonian MP & Former Prime Minister, Estonian Parliament
  - Angel Martín, Spanish representative in the Policy and Technical Group, European Blockchain Partnership, Ministry of Economic Affairs & Digital Transformation
  - Andrew Tobin, Managing Director EMEA, Evernym Inc
  - Don Tapscott, Chairman and co-Founder, Blockchain Research Institute
  - Geoffrey Goodell, Senior Research Associate, UCL Centre of Excellence on Blockchain Technologies
  - Marta Piekarova-Gesler, Director of Ecosystem, Hyperledger
  - Jonathan Levi, Founder, IACERA & Unbound Network (Mipasa)

# AI in HEALTH CARE

- **Assisting in preventing or slowing the COVID-19 virus' spread** through surveillance & contact tracing. (AI for analytics, Blockchain for tracing)
  - **Detecting & diagnosing** the virus & **predicting** its evolution.
  - Responding to the health crisis through **personalised information (precision health-care)**. **Monitoring** recovery & **improving** early warning tools.
  - **AI use in research: Understanding** the virus & **accelerating** medical research on drugs and treatments.
- 
- **Cross-border Data infrastructure**
  - **Fair and responsible use of behavioural data**
  - **Trust of the public** that we will use their data fairly and anonymously is paramount.
  - **An Independent Oversight Body**, responsible for the fair and ethical application of any data-driven public health measures.

# How COVID-19 is Reshaping the Possibilities of mHealth

## 4-Tier Technology Advancement Ranking System





# AI in decision making: Investment, budget allocation & accountancy



- EVIDENCE GIVERS FROM LEFT TO RIGHT - CoChairs**
- David Petrie, Head of Corporate Finance, ICAEW
  - Jan Chan, Chief Innovation Officer, Associate Partner, Business Modelling and Analytics, EY UK&TAS
  - Charles Radclyffe, Head of AI, Fidelity International
  - Dr Zoë Webster, Director - AI and Data Economy, Innovate UK
  - Dr Christine Chow, Head of Asia and Global Emerging Markets, Hermes Investment Management
  - Naomi Climer CBE, Co-Chair, Institute for the Future of Work
  - Sanu de Lima, Deputy Director, Corporate Governance, Responsibility & Diversity Business Frameworks Directorate, Department for Business, Energy and Industrial Strategy (BEIS)
  - Co-Chairs: Lord Clement-Jones CBE and Stephen Metcalfe MP, UK Parliament
  - APPG Secretariat: Professor Birgitte Andersen, Big Innovation Centre



AI is already applied in:

- Financial analysis, modelling and scenario planning.
- Investment planning
- company valuation, due diligence, contract analysis, transaction support
- Accountancy
- Decision making

- Regular audits of the deployed AI technologies are necessary to ensure accurate and reliable results.
- Guarantee equality, fairness, accountability, sustainability, transparency, and data protection in AI-supported corporate decision-making.



INNOVATE  
**Silicon Valley's Next Target: Disrupt the Construction and Real Estate Industries**

'Construction Tech' and 'Real Estate Tech' are the next greenfield market spaces.

in f t

By Soren Kaplan Author: 'The Invisible Advantage' @sorenkaplan

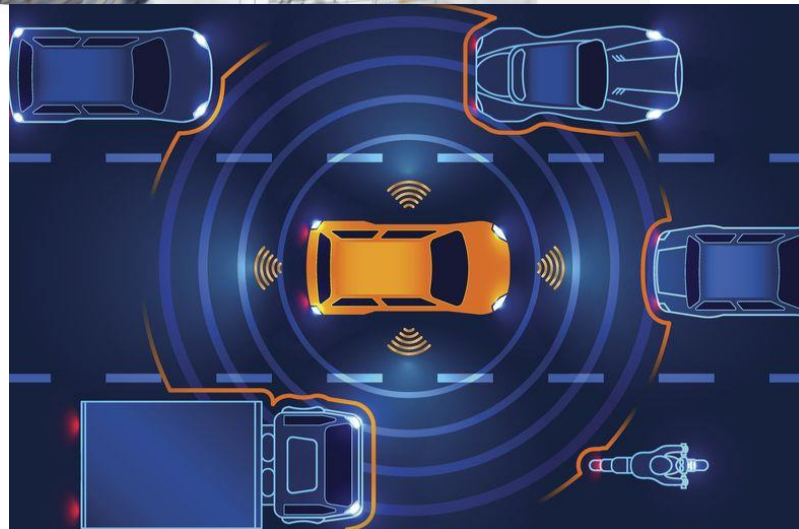


**Tech Giants vs. Startups in Construction**



**The new age of engineering and construction technology**

July 2017 | Article



# AI in Smart Cities

Driverless Cars  
Intelligent homes  
Energy  
Water  
Waste

Unlocking the potential of data



**Covid-19  
Unemployment**



**Environment  
school strikes**



**Black Lives Matter  
movement**



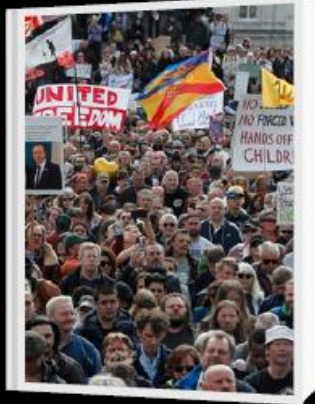
**Anti-depression drug  
protests**



**Live Virtual  
movement**



**Lasting Happiness  
movement**



**Conspiracy theories  
storm**

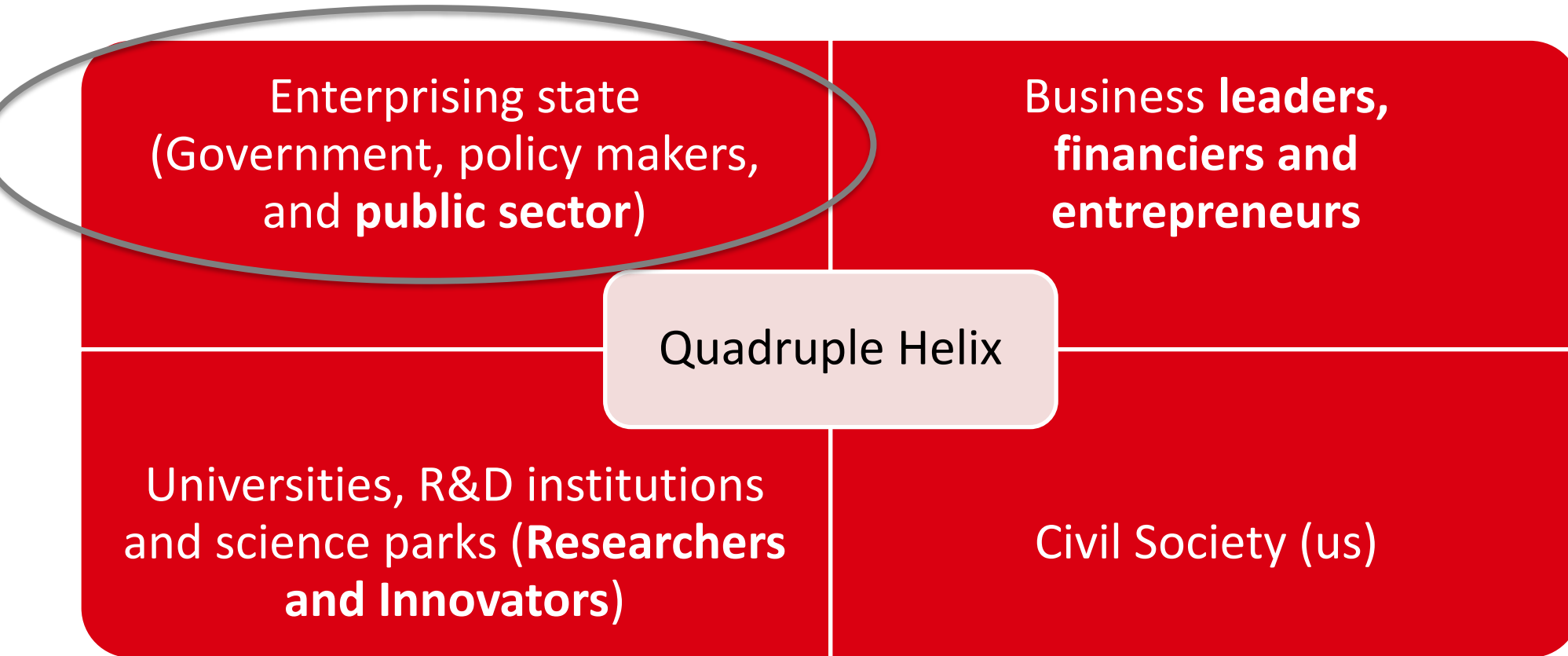


**Feminism  
movements**

**We can't ignore**

We must  
brainstorm innovative,  
tech-led, creative  
solutions to the  
world's most pressing  
problems

## Users and co-producers of the innovation ecosystem for AI

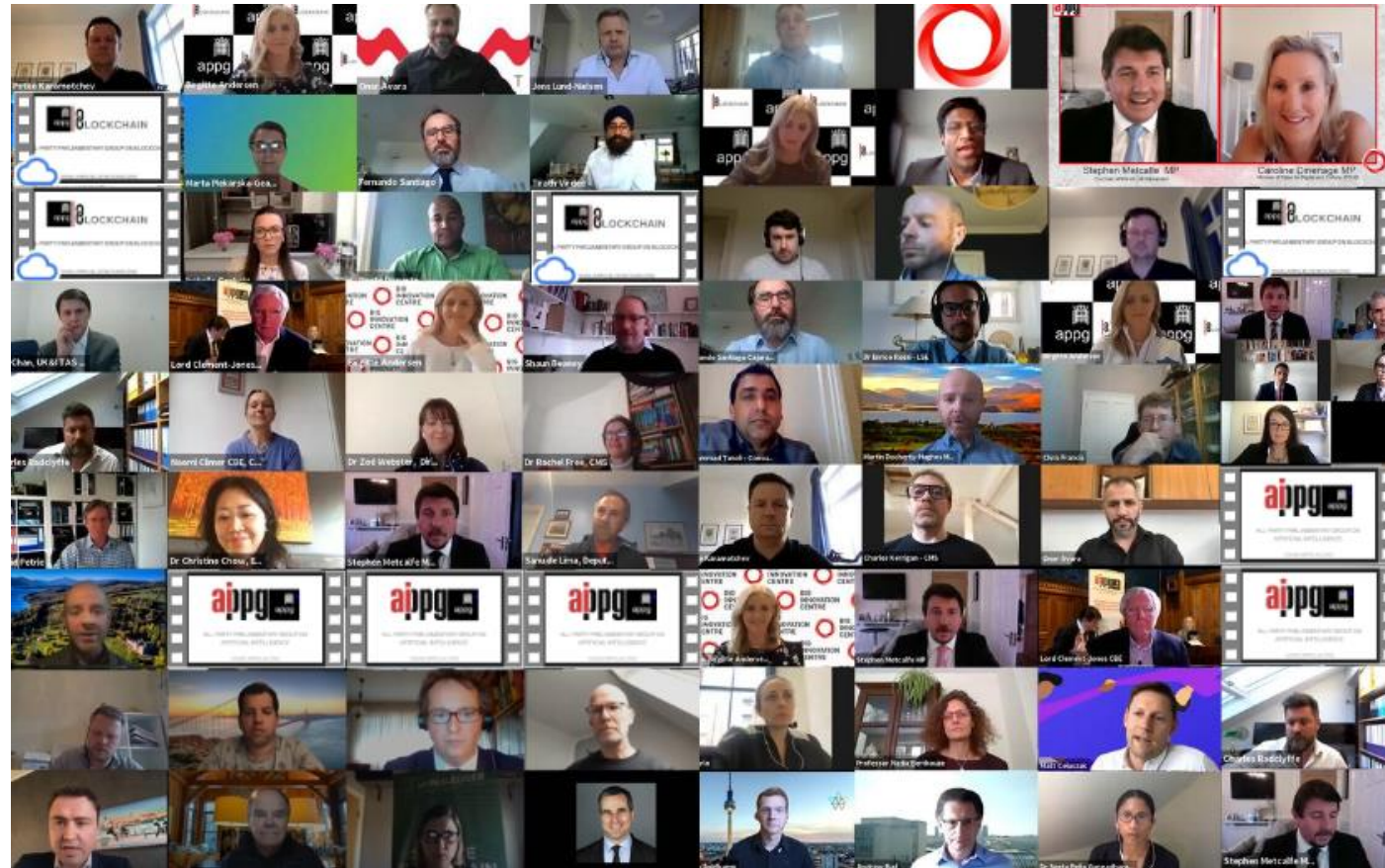




All Party Parliamentary Group on  
Artificial Intelligence



Join our groups at our Pavilion:  
<https://uk.bicpavilion.com/>





# The AI Revolution and Me

- **AI in Education (Curriculum and Assessment)**
- **AI in Face and Emotion Recognition**
- **AI in Security**
- **AI in Health Care**
- **AI for Decision making, investment, budget allocation and accountancy**
- **AI in Smart Cities**



**THANK YOU!**

**Professor Birgitte Andersen**

CEO & Co-founder

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