



# DISPLAYS OF POWER

HOW CAN WE VISUALISE DIFFERENT FORMS OF POWER AND THEIR IMPACT ON POLITICS?

Bringing together research from across the social sciences, the exhibition explores the people and institutions, technologies, infrastructure and other phenomena that shape our world.

PICK UP YOUR AUDIO GUIDE HERE (Festival week only)



OR SCAN THE QR CODES TO LISTEN TO OUR AUDIO COMMENTARY



## IN SEARCH OF SPIDER CONSCIOUSNESS

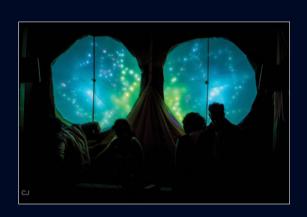


SCAN TO HEAR MORE FROM DARIA ABOUT HER RESEARCH

We can easily forget that we are only a tiny part of a vast sentient world full of other conscious beings with lives of their own to lead.

Even those of us far away from centres of political power have immense influence over huge numbers of animal lives. Daria Zakharova invites us to consider the weight of our influence, especially on those beings far removed from our everyday considerations: the invertebrates.





#### **INSTALLATION**

Daria and an interdisciplinary team created an art installation "In search of spider consciousness" for Nowhere Festival in 2023, which invited people to enter the head of a giant Portia jumping spider to discover an artistic meditation on the mind of an arthropod. Visitors would enter the giant spider sculpture and be immersed in the spider's point of view on the world, as represented obliquely through the medium of light, sculpture and original music, inspired by scientific evidence.

#### **VIRTUAL REALITY EXPERIENCE**

A 3D capture recreates virtually the experience of the original sculpture, which was 3.5 by  $12m^2$ . As in the original, the installation invites the viewer into an immersive walk inside of the spider's head and into the spider's mind. The artistic interpretation of the imagined subjective states of the arachnid mind is presented through an original music piece paired in a beautiful choreography with light patterns in the two main eyes of the spider. This immersive encounter invites reflection on the complexity of consciousness that thrives in even the smallest of beings, urging us to reconsider the boundaries of our moral and ethical responsibilities towards them.

#### **PORTIA'S EYES**

Portia (a genus of jumping spider) has excellent vision, unique among spiders. With its two large primary eyes it can see detail almost as well as a human eye. Its field of vision however is extremely narrow, akin to looking through a looking glass. Therefore, Portia has to move the tubes of its primary eyes around in complex patterns to see anything, be it prey or just to "complete" a picture of its surroundings. We believe that any type of cognition and potential sentience present in Portia would be intricately connected to the mode of functioning of its perceptual system.

#### **ARTISTIC TEAM**

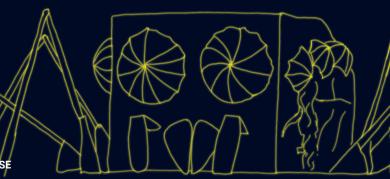
Daria Zakharova Creative lead
Ivan Isakov VR, engineering
Paulo Ricca Lights, creative coding
Andrey Novikov Original music
Stephen Allwright Build
Lucy Onischenko Design, logistics
Michael Haber Build, logistics
Maribeth Rauh Design, logistics

#### COLLABORATORS

**Luke Hollis** 3D capture **Sean Toole** Photography

#### SUPPORTERS

Professor Jonathan Birch and the ASENT team
Department of Philosophy, Logic and Scientific Method at LSE



## **CONTESTED FLOWS:**

## THE UNCERTAINTY AND SCARCITY OF WATER IN JORDAN



SCAN TO HEAR MORE FROM FRED ABOUT HIS RESEARCH

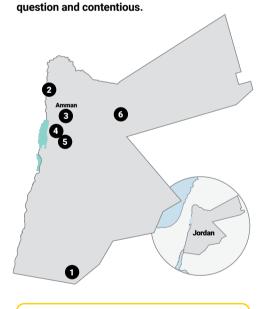
Jordan is increasingly defined by water scarcity: its status as one of the most water-poor nations on earth is repeated frequently in both the country's own economic and climate change strategy documents, and in the reports of international donors.

Yet this idea of absolute scarcity obscures the ways water flows are shaped by social practices and by power, making experiences of water scarcity extremely uneven.

Dr Fred Wojnarowski uses ethnographic research with water users, officials and people already experiencing water scarcity to challenge technical, apolitical understandings of the water system, and to show how any solutions must be social and political.

This display represents Jordan's water system not as a technical system for the movement and management of a natural resource, but as a social and economic metabolism, in which many people and places are brought into relationships with each other at different scales by the contested flows of water.

Water here speaks to wider flows of power, revealing issues of equity and distribution. Through a series of case studies the display looks at the water system, as it is generally understood, and asks some questions about what within this picture is unknown, open to



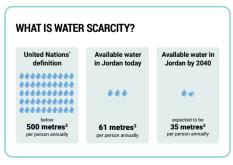














#### WHERE IS THE WATER GOING?

Despite government attempts to limit well-building, many landowners have sunk illegal wells, often shielded from prosecution by powerful political contacts. Digging these illegal wells is an expensive and serious undertaking, needing drill rigs and geological expertise. Satellite imagery shows much more irrigated land than can be accounted for by legal sources, and this overexploitation is causing the water table to sink.

Water from illegal wells is also sold by landowners to private tankers, where it enters a shadow water economy.

What is the extent and impact of this shadow economy of water?



## THE POLITICS OF CONVERSATION

#### **HOW POWER PLAYS OUT IN CONVERSATION**

To understand our core political institutions and the power dynamics that sustain, challenge, and transform them, we need to understand the conversations that are foundational to them. Through conversation, different actors – from politicians, to journalists, to ordinary citizens – participate, collaborate, intervene, exclude, silence, and hold each other to account.

Conversation analysis allows us to identify and describe how power is displayed and wielded – second by second, breath by breath, gesture by gesture – through communication practices such as silence, laughter, hesitation, and interruption.

Professor Elizabeth Stokoe tells the story of classic and (in)famous political conversations. These conversations show how people, from news interviewers to ordinary citizens, hold politicians to account – and sometimes get caught out in political encounters themselves.

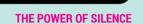
## Reid/Johnson (2022)

Reid/Johnson (2022) Gould/Thatcher (1983) Paxman/Howard (1997) Humphrys/Sopel (2018) Stayt/Gaga (2016)

#### THE SPECIFICS OF WAFFLE

As Prime Minister, Boris Johnson was regularly accused of "waffling". We think we know "waffling" when we see it, but what actually comprises it? In **Reid/Johnson**, Johnson's long, unfocused turns are littered with repetition, hesitation, incomplete words, and false starts. Waffling makes Johnson's inadvertent admission ("No?") an almost inevitable consequence.





Stayt/Gaga shows how powerful – and uncomfortable – silence in conversation can be.
But what is silence, especially in face-to-face interaction?
Lady Gaga does not respond verbally to Charlie Stayt's question, creating a long and painful "silence". But silence is not absence: Gaga uses gaze and loud breaths to maintain it.

Conversely, imagine how **Humphrys/Sopel** would have unfolded if Jon Sopel had been silent instead of laughing.

### COMMUNICATION WITHOUT WORDS

Many of these conversations show the power of communication with resources other than words. These are "paralinguistic" and "embodied" resources like pitch, volume, intonation, pace, facial expression, gesture, and body position.

In Gould/Thatcher, Margaret Thatcher smiles when she forgets Diana Gould's name, while Gould rolls her eyes in response to Thatcher's assertion of power and status. In Stayt/Gaga, Charlie Stayt fills Lady Gaga's "silence" with smiles and gestures to pursue a response, none of which she reciprocates.







#### THE REALITY BEHIND THE HEADLINES

The BBC Newsnight interview between Paxman/Howard became known as "the night of 12 times" as the media reported a dozen instances of Jeremy Paxman asking Michael Howard the same question.

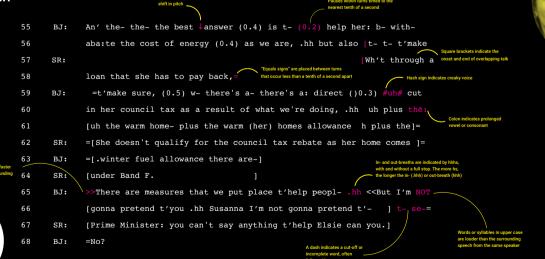
But conversation analysis shows that Paxman actually asks three different types of question, and none of them 12 times.



SCAN TO HEAR MORE FROM ELIZABETH ABOUT HER RESEARCH

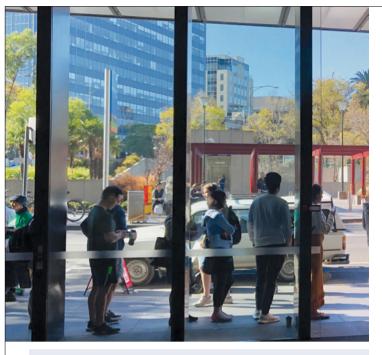
### TECHNICAL TRANSCRIPT: SUSANNA REID AND BORIS JOHNSON

In May 2022, broadcaster Susanna Reid interviewed then Prime Minister, Boris Johnson, on ITV's Good Morning Britain about the cost-of-living crisis. His response was widely seen as evidence of his lack of empathy for people like Elsie, the struggling pensioner discussed in the interview.



"YOU CAN'T SAY ANYTHING TO HELP ELSIE CAN YOU"





# WHY DO ELECTIONS MATTER?

Professor Michael Bruter and Dr Sarah Harrison founded the Electoral Psychology Observatory (EPO) to put citizens at the heart of how we study elections, arguing that, when it comes to democracy, the experience of the people voting mattters as much as the outcomes of elections. A better functioning democracy must have the experience of citizens at its heart.

Part of their research has involved observing elections all over the world, and these photographs and quotes from voters help to tell a story about people's experience of Election Day.



SCAN TO HEAR MORE FROM MICHAEL AND SARAH ABOUT THEIR RESEARCH



## There's no such thing as a polling station

No piece of architecture is ever designed to be a polling station. Instead, buildings used for a whole variety of purposes (schools, churches, supermarkets, garages, even laundromats) temporarily become hosts to polling stations once every few years. Yet they are often the primary location where citizens interact with their democracies and their design matters. What should an ideal polling station look like?



OF VOTERS TYPICALLY EITHER MAKE UP OR CHANGE THEIR MINDS DURING THE WEEK OF AN ELECTION, HALF OF THEM ON ELECTION DAY ITSELF.



POLITICS ARE SO MUCH A
PART OF HOW I INTERACT WITH
PEOPLE. THESE ISSUES ARE
PERSONAL.

I DON'T UNDERSTAND HOW PEOPLE SEPARATE POLITICS FROM RELATIONSHIPS.



20-30%

VOTERS SPEND ROUGHLY ONE AND A HALF TIMES LONGER THINKING ABOUT THEIR ELECTORAL CHOICE WITH A PAPER AS COMPARED TO AN ELECTRONIC BALLOT.







I HAVE GREAT PLEASURE SLIDING THE BALLOT INSIDE THE ENVELOPE.



I WAS WONDERING WHO
OTHERS WERE VOTING FOR.

A SENSE OF HISTORY
LINKING ME WITH GENERATIONS
OF WOMEN VOTERS AND THE
HARD WON RIGHT TO VOTE.



I FELT A GREAT MOMENT OF EMOTION.





#### The impact of queues

Election Management Bodies worldwide worry about queues, fearing they will put voters off and generate dissatisfaction. But the evidence gathered by the EPO suggests that whilst excessively long queues generate complaints, moderate queues inspire excitement and the feeling of being part of an important collective event. They are subconsciously seen as a sign of democratic momentum and shared experience.

WHY AM I WASTING MY
TIME WITH THIS, WHEN I COULD
BE SPENDING IT WITH MY
FAMILY OR PLAYING GAMES OR
EVEN COUNTING MY TOES?





GREAT TO SEE OTHER PEOPLE
THAT WERE REALLY ENTHUSIASTIC
AND EAGER TO VOTE.



#### How we vote

Going to vote alone has a very different symbolic meaning from going as a family, bringing children along, or making it a collective social outing with friends or neighbours.

# WHO has POWER over our VISIONS of the FUTURE?

OVER THE PAST TWO DECADES, OUR PERSPECTIVE OF WHAT LIES AHEAD OF US HAS BEEN RADICALLY SHAPED BY SILICON VALLEY. RESEARCH BY ASHER KESSLER EXPLORES HOW ONE COMPANY, FACEBOOK/META, HAS ENVISIONED THE FUTURE IN DIFFERENT WAYS OVER THE LAST 20 YEARS. HOW DO THESE FUTURES REORIENT OUR SENSE OF THE PRESENT AND RESHAPE HOW WE COME TO REMEMBER AND RETELL THE PAST?



SCAN TO HEAR MORE FROM ASHER
ABOUT HIS RESEARCH

## A WORLD CONNECTED

2006-PRESENT

FUTURE 2 ATA ECOSYSTEMS

2009-PRESENT

THE METAVERSE

2021
ACEBOOK BECOMES

OMeta

2014-PRESENT



A VISION OF A GLOBAL COMMUNICATION NETWORK THAT CONNECTS ALL HUMANS ON THE PLANET.

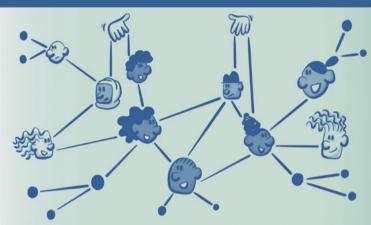
HIERARCHIES WILL BE FLATTENED AS PEOPLE GAIN DIRECT ACCESS TO EACH OTHER, AND THE ABILITY TO FORM AND JOIN GLOBAL COMMUNITIES.



BIG TECH DRIVES FORWARD PROGRESS BY PUSHING 'DEVELOPING' COUNTRIES TO MODERNISE AND CATCH UP WITH THE 'DEVELOPED' WORLD.



TO CONNECT THE WORLD, INTERNET ACCESS MUST REACH EVERY CORNER OF THE GLOBE, THUS FACEBOOK DEVELOPS AND PROPAGATES THEIR FUTURISTIC TECHNOLOGIES, SUCH AS DRONES THAT FLY FOR SIX MONTHS AT A TIME.



A WORLD IN WHICH HUMAN BEHAVIOUR BECOMES EVER-MORE KNOWABLE, PREDICTABLE, AND RESPONSIVE TO CONTROLLABLE SIGNALS.



"USING FACEBOOK AND INSTAGRAM ADS, YOU CAN TARGET BY CONGRESSIONAL DISTRICT, YOU CAN TARGET BY INTEREST, YOU CAN TARGET BY DEMOGRAPHICS, OR ANY COMBINATION OF THOSE AND WE'RE SEEING POLITICIANS AT ALL LEVELS REALLY TAKE ADVANTAGE OF THAT TARGETING."

SHERYL SANDBERG





FACEBOOK HOLDS A SYSTEMS PERSPECTIVE OVER EACH ECOSYSTEM (FACEBOOK, INSTAGRAM, OCULUS), WHICH AFFORDS IT THE ABILITY TO SEE AND UNDERSTAND THE INTERESTS AND INTENTIONS OF USERS, AS WELL AS PREDICT FUTURE BEHAVIOUR.



A NEW SOCIAL REALITY WHICH BLENDS THE PHYSICAL WORLD WITH VIRTUAL REALITY, AUGMENTED REALITY, AND ARTIFICIAL INTELLIGENCE.



PEOPLE WILL BE ABLE TO CREATE AND EXPERIENCE ANYTHING, NO LONGER BOUNDED BY THE BODY THEY WERE BORN IN, OR THE LAWS OF NATURE THEY WERE LIMITED BY.

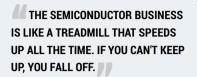
#### ANOTHER FUTURE?

IF WE EQUATE THE FUTURE WITH THE NEXT TECHNOLOGICAL BREAKTHROUGH AND SILICON VALLEY VISION, WE FIND OURSELVES CLOSING A FUTURE THAT WAS ONCE ENVISAGED AS OPEN — THE FUTURE BECOMES ALWAYS THE SEAKTHROUGH, THE NEXT SILICON VALLEY BET.





# WHAT GOES INTO THE MAKING OF A SENTENCE ON CHATGPT?



MORRIS CHANG, FORMER CEO AND FOUNDER OF TSMC

#### Semiconductor Manufacturing: TSMC

The Taiwan Semiconductor Manufacturing Company (TSMC) makes cutting-edge microchips. This is a highly complex and error-prone process that only a few companies in the world have perfected. TSMC is the only company that successfully uses extreme ultraviolet (EUV) technology to print billions of transistors on coin-sized silicon wafers. There is only one company in the world that makes EUV machines: the Dutch company ASML. One machine comes with a price tag of \$200 million.

#### **Graphics Processing Unit Manufacturing: Nvidia**

Nvidia designs the GPUs that provided the computational power for the generative Al boom. Nvidia is a "fabless" company – it doesn't own any manufacturing plants. All designs are manufactured by TSMC. A server comprising eight of Nvidia's cutting-edge H100 GPUs costs approximately \$400,000. Following high demand, there is a massive shortage of these GPUs and Nvidia is the only supplier.

#### **Cloud Service Provider: Azure**

GPUs are very expensive and difficult to acquire. Instead of buying GPUs and assembling data centres, many generative AI companies opt to rent computational power from Cloud Service Providers. OpenAI has a partnership with Microsoft Azure: GPT-4 was trained on more than 10,000 Nvidia GPUs.

#### Large Language Model: OpenAl's GPT-4

An LLM is an AI that uses neural networks trained on extensive text data to predict word sequences. It learns patterns during training and applies this knowledge during inference to perform language tasks like text generation and comprehension. GPT-4 was trained over 90 days which cost OpenAI more than \$100 million.

#### Application: ChatGPT

Generating a sentence on ChatGPT is only possible because of a complex and international supply chain of know-how and technology. The ease at which text appears in the chat box could easily disguise the fact that this is the biggest computational undertaking in the history of humanity and highly capital-intensive.

**BOTTLENECK RAW MATERIALS** SEMICONDUCTOR/MICROCHIP MANUFACTURERS Natural gas, Silicon, Glass, Steel, Copper, Crude, Nickel, Tin, Polyethylene **GPU MANUFACTURING** SEMICONDUCTOR MANUFACTURING Microchips, memory, circuit boards **CLOUD SERVICE PROVIDERS MARKET SHARE 2022** GRAPHICS PROCESSING UNIT (GPU) MANUFACTURING CLOUD SERVICE PROVIDERS LARGE LANGUAGE MODELS (LLMS) COMPANIES RUNNING LARGE LANGUAGE MODELS (LLMS) END USER APPLICATIONS ChatGPT Sprints to One Million Users Mistral Large Mixtral 8x7B **CHATGPT** END USER APPLICATIONS statista 🔽

Generative AI is poised to make a fundamental difference to the functioning of economy and society. While ethical implications and consequences for the nature of work are at the forefront of debates about its impact, the technological and financial dimensions of the rise of large language models like ChatGPT have mostly remained unexamined. Dr Nils Peters' research, with Yuanling Liao, explores the infrastructure that lies behind the biggest computational undertaking in human history, revealing the power dynamics at play.



SCAN TO HEAR MORE FROM NILS ABOUT HIS RESEARCH

WHEN TECHNOLOGY MOVES THIS FAST, IF YOU'RE NOT REINVENTING YOURSELF, YOU'RE JUST SLOWLY DYING, YOU'RE SLOWLY DYING, UNFORTUNATELY, AT THE RATE OF MOORE'S LAW, WHICH IS THE FASTEST OF ANY RATE THAT WE KNOW.

#### NILS ABOUT HIS RESEAR

#### **FUN FACTS**

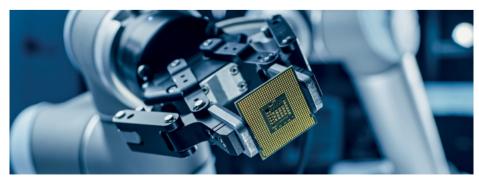
- Many Large Language Models (LLMs) are trained on a dataset called the "Common Crawl", containing 3.35 billion web pages or 454 tebibyte of uncompressed content.
- Training runs for LLMs are highly time-and capital-intensive. Meta's LLaMA model released in February 2023, for instance, used over 2,000 Nvidia GPUs on 1.4 trillion tokens (750 words is about 1,000 tokens). The training run took about 21 days. The estimated cost is over \$2.4 million.
- Chip designs have become so small that companies like ASML have had to invent printing techniques at the
  edge of known physics. They use extreme ultraviolet (EUV) with a wavelength of 13.5 nanometres, the size of
  five DNA strands laid side by side.

# RAW MATERIALS SERVER INFRASTRUCTURE GPU CLUQUS SERVICE PROVIDERS LARGE LAMGUAGE MODELS END USER APPLICATIONS

THE SUPPLY CHAIN

#### **GEOGRAPHY OF SUPPLY CHAIN POWER**

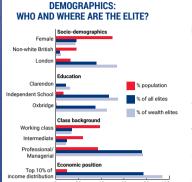
The generative AI supply chain is global, with companies in the US sitting at the top of the value chain. This includes LLM companies like OpenAI and "fabless" chip makers like Nvidia. Semiconductor manufacturing is concentrated in East Asia. Microchips from Taiwan provide almost 40 per cent of the world's new computational power every year, and two Korean companies produce almost half of the world's memory chips (Chris Miller, Chip Wars).



## WHO RULES BRITAIN?

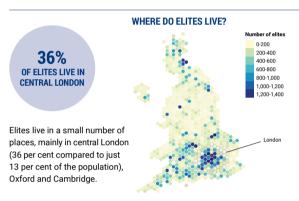
#### WHO ARE AND WHERE ARE THE ELITE?

The British elite are predominantly male (more than 80 per cent of current Who's Who) and overwhelmingly white (96 per cent).



**80%** OF BRITISH ELITES IN WHO'S WHO ARE MALE

The wealth elite have a similar demographic to the wider elite, except for slightly more prestigious educational trajectories and a much higher likelihood of living in London.



#### PERCENTAGE OF ELITES WITHIN EACH OCCUPATION



















LAW

KEY 6 of all elites

% of wealth elites

The power of the clergy and military has waned since the end of the 19th  $\,$ century. Now elites are drawn broadly from the fields of business, politics and law. The wealth elite are more likely by far to be business leaders

#### **HOW ARE THE ELITE MADE?**

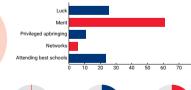
"I'M JUST A CHAP SITTING IN A LITTLE HOUSE IN A SUBURB WHOSE LIFE IS, AS YOU'VE **DISCOVERED, NORMAL ... QUITE ORDINARY."** JAMES, FINANCE (WEALTH ELITE) BORN 1945-1950

**EVEN THOSE** IN THE WEALTH ELITE REJECT THE LABEL ELITE

PERCENTAGE OF ELITES WHO SAY THEY ARE FROM **WORKING-CLASS BACKGROUNDS BUT ACTUALLY COME** FROM PROFESSIONAL, MIDDLE-CLASS FAMILIES.

#### **KEY FACTORS ELITES ATTRIBUTE TO THEIR SUCCESS**





Those educated at the prestigious Clarendon schools\* continue to be vastly over-represented among the elite.





\*Clarendon schools are Britain's nine most elite private boarding schools – Eton, Harrow, St Pauls, Westminster, Winchester, Rugby, Charterhouse, Shrewsbury and Merchant Taylors.

## WHAT DO WE KNOW ABOUT THE **PEOPLE WIELDING POWER AND INFLUENCE IN BRITAIN?**

PROFESSORS SAM FRIEDMAN AND AARON REEVES HAVE

SHOWN THAT WHITE MEN FROM ELITE BACKGROUNDS, WHO HAVE ALL TOO OFTEN ATTENDED A TINY GROUP OF PRIVATE SCHOOLS AND HIGHLY SELECTIVE UNIVERSITIES, REMAIN PROFOUNDLY OVER-REPRESENTED IN THE **CONTEMPORARY BRITISH ELITE.** 

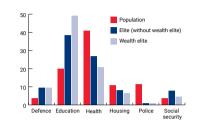




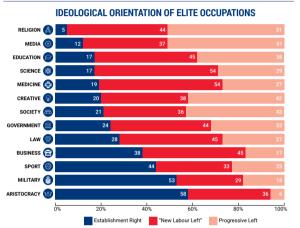


#### **HOW DO THE ELITE THINK?**

The research was able to show how the thinking of the elite differs from the rest of the population, for example when asked what the government's  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left$ 



THE WEALTH ELITE THINK EDUCATION SHOULD BE THE "HIGHEST PRIORITY"



The ideological centre of gravity among elites in the military, the aristocracy, and even sport tilts strongly to the right, while elites in religion and the media are dominated by the progressive left.

While the more centrist "New Labour" left is well represented in most occupations, they are an outright majority in science and medicine.

THE IDEOLOGICAL ORIENTATION OF THE WEALTH ELITE TILTS TO THE RIGHT

How our elites are formed has important implications for the politics we get. Privately educated elites are more likely than other elites to be proud of empire and less likely to think reducing poverty is a priority











The wealth elite are more politically active than other elites. Their access to positional and economic power grants them a unique ability to convert their beliefs into actions.

#### IT STILL PAYS TO BE PRIVILEGED

**CLASS INEQUALITY WILL NOT BE MEANINGFULLY TACKLED UNTIL ...** 

- THE LINK BETWEEN WEALTH AND **ELITE STATUS IS WEAKENED**
- THE DISTORTIONARY POWER OF A HANDFUL OF PRIVATE SCHOOLS **IS UNDERMINED**
- AND POWER IS REDISTRIBUTED AWAY FROM THOSE WHO REACH THE TOP OF PARTICULAR PROFESSIONS.



FIND OUT MORE Harvard University Press (September 2024)

## WHO IS LEADING EUROPE'S CITIES?

The majority of Europeans live in urban areas, giving cities a critical role in addressing the continent's most pressing policy challenges, from inequality to climate change. LSE Cities' European Cities Programme has created a knowledge hub of key data from nearly 160 of Europe's capital and largest cities, allowing them to track the changing nature of these challenges, and how cities approach them.

Among other things, they are monitoring the changing profile of Europe's elected city leaders, the extent to which they reflect Europe's growing diversity, and changes in the urban political landscape.

#### IS CITY LEADERSHIP SHIFTING TO THE RIGHT?

2024 50%

OF LEADERS FROM LEFT/CENTRE-LEFT



POLITICAL ALIGNMENT 2022 **54%** OF LEADERS FROM LEFT/CENTRE-LEFT

MIN MY SIX YEARS AS CITY LEADER THERE'S BEEN A SIGNIFICANT DEMOGRAPHIC SHIFT WITHIN CITY POLITICS WITH MORE WOMEN. PEOPLE OF COLOUR AND YOUNGER PEOPLE IN MY COUNCIL GROUP YET WE'VE STILL SOME WAY TO GO.



POLITICAL ALIGNMENT

Centre-left Centre

Political changes Leftward shift

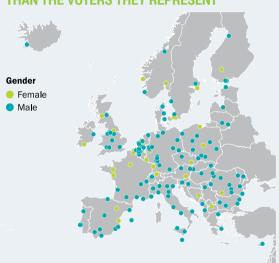
Right

■ OVER THE COURSE OF HIS TWO TERMS AS MAYOR OF BRISTOL, MARVIN REES SAYS HE HAS 'UNDERSTOOD THE GROWING SIGNIFICANCE OF CITIES IN GENERAL AND



# CITY LEADERSHIP IN PARTICULAR.

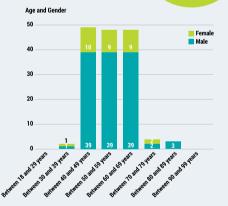
#### **EUROPE'S CITY LEADERS ARE LESS DIVERSE** THAN THE VOTERS THEY REPRESENT



#### **GENDER AND AGE DIVERSITY**

The average European mayor is a 54-year-old white man. There are far fewer female mayors - only one in five (20 per cent) of the leaders in our sample is a woman. Some countries are doing better than others when it comes to gender representation: five of the 11 French mayors are female.

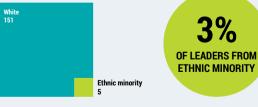
OF LEADERS **ARE WOMEN** 



#### **ETHNIC BACKGROUND**

Europe's cities are becoming increasingly diverse. but at present only three per cent of cities are led by someone from an ethnic minority background

#### Ethnic Diversity



Europe's cities have historically leaned to the left of their nation states, although a recent rightward turn in European politics is beginning to be felt in cities too.

> This shift in Europe's urban politics is likely to be explained in part by familiar concerns over immigration, cost of living and labour market disruption, but also in part by distinctively urban issues, including city hall policies aimed at curbing car use. The recent re-election of Sadiq Khan as Mayor of London, however, suggests that it is still possible to win elections on relatively ambitious green policies.

IN SPAIN, THE CENTRE-RIGHT TRIPLED THE NUMBER OF MUNICIPALITIES IT LEADS IN RECENT

#### WHAT'S NEXT FOR EUROPE?

Politics tends to be cyclical. We can't be sure if or how far Europe's cities will continue to swing right, or if and when they will swing the other way. But it seems clear that Europe's leaders will need to get better at designing and communicating green policies in ways that reconcile concerns for cost of as climate change.



RESEARCH BY BEN ROGERS, CATARINA HEECKT, FRANCESCO RIPA, NUNO DA CRUZ AND IMOGEN HAMILTON-JONES.

SCAN TO HEAR MORE FROM CATARINA **ABOUT THE RESEARCH** 

#### Marvin Rees OBE

IF YOU ASPIRE TO HAVE A MEANINGFUL IMPACT ON SOCIETY, ENGAGING IN CITY
POLITICS CAN BE THE MOST EFFECTIVE WAY
TO ACHIEVE IT. IN BELGIUM, FEW PEOPLE
HAVE CONFIDENCE IN NATIONAL POLITICIANS,
BUT IN CITY POLITICS, IT IS STILL POSSIBLE
TO COLLABORATE CONSTRUCTIVELY AND TO
MAKE A DIFFERENCE.



#### **Mohamed Ridouani**

Advice for new mayors? It's impossible satisfy every citizen's needs and prefere As a mayor, you're the keeper of the com

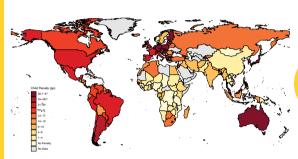
## WHO HAS THE POWER TO ADDRESS THE CHILD PENALTY GLOBALLY?



**SCAN TO HEAR MORE** FROM GABRIEL ABOUT THE RESEARCH

#### **Child Penalty Atlas**

The LSE Hub for Equal Representation presents the Child Penalty Atlas (childpenaltyatlas.org) to measure the child penalty around the world. This data enables the Hub to investigate one of the root causes of gender inequality in the labour market and look at how it varies globally.



#### The child penalty around the world

This heat map shows the child penalty in 134 countries around the world: the darker the colour, the higher the penalty. Almost everywhere globally, women's careers seem to suffer after they become parents.

WOMEN SHOULDER THE **UNPAID WORK** AFFECTING THEIR ABILITY TO ACCESS EMPLOYMENT **OPPORTUNITIES** 

40% OF MEN AND WOMEN IN THE UK AGREE THAT: STAY AT HOME WHEN SHE HAS CHILDREN **UNDER SCHOOL AGE** 

#### The gender employment gap globally

There is a wide variation in the employment gap between men and women across the world. In countries with greater gender equality, the gap is around 5 per cent, while in countries with greater gender inequality, it can be as high as 90 per cent.

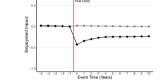
#### Child penalty across continents

The impact of motherhood on employment not only varies greatly between countries, but also among world regions. These graphs compare the child penalty for men and women after the birth of their first child in Europe, Africa and Latin America

#### EUROPE CHILD PENALTY: 29%

In high-income regions, child penalties are high.

80 per cent of the gender gap in employment is due to women leaving the workforce after their first child.



#### **AFRICA CHILD PENALTY: 9%**

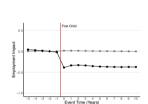
In the poorest areas, women tend to exit the workforce before motherhood and directly after marriage

Here, lower child penalties only explain 10 per cent of the gender

#### LATIN AMERICA CHILD PENALTY: 38%

In middle-income countries, women are more likely to work after marriage, but many quit permanently after becoming mothers

In Latin America, 38 per cent of working mothers leave the labour force after having a child, and 37 per cent remain out of work 10 years later.





Having children requires money, time, resources and energy. Yet, parenthood impacts men and women differently. Mothers spend more time on unpaid childcare and less on paid employment, affecting their long-term economic opportunities.

This is known as the child penalty, or the motherhood penalty. This is the average amount by which a woman's probability of being employed declines in the 10 years after the birth of her first child relative to men.

#### AS OF 2024...

OF WOMEN LEAVE THE LABOUR FORCE IN THE 24% OF WOMEN LEAVE THE LABOUR TO THE FIRST CHILD

ARE STILL ABSENT AFTER FIVE YEARS

ARE STILL ABSENT

**AFTER 10 YEARS** 



WHAT IS DRIVING THIS CHILD PENALTY **AND WHAT ROLE CAN POLICYMAKERS PLAY IN FIXING IT?** 

#### The impact of gender norms

The average working-age woman in the UK earned 40 per cent less than her male counterpart in 2019.

This pay gap vastly increases after parenthood.

This gap seems to suggest unequal parental involvement in unpaid care work shapes inequalities in the job market.

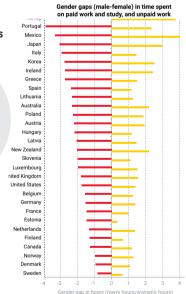
These inequalities are exacerbated by gender norms and stereotypes that are reinforced by government policies and wider society.



MOTHERS WHO EARN MORE THAN THEIR MALE PARTNERS BEFORE CHILDBIRTH ...

ARE MORE LIKELY TO REDUCE THEIR WORKING HOURS IN THE YEAR AFTER CHILDBIRTH

SAVE LIVES" POSTER, RELEASED DURING THE COVID-19 PANDEMIC, **ONLY WOMEN** UNDERTAKING DOMESTIC CHORES



## WAS WITHDRAWN AFTER IT SHOWED

**GENDER INEQUALITY** CANNOT BE ELIMINATED WITHOUT ALSO ADDRESSING THE CHILD PENALTY





Change attitudes through policies that support more equal sharing of responsibility between parents rather than reinforcing traditional gender roles.

#### TARGET OUTCOMES FOR THE CARER

This includes training to aid re-entry into the labour force after time out, legislation updating workplace hiring, promotion and evaluation processes, and increased childcare facilities in the workplace.

#### MOBILISE WOMEN'S TALENTS FOR GROWTH

Today women are, on average, at least as educated as men, but their talents are not fully utilised. Better balance of paid work between men and women will benefit economic growth.

#### PRIORITISE GIRLS' EDUCATION

In developing countries, governments should prioritise and invest in girls' education to address the high entry barrier to the labour market.

#### IMPROVE THE RIGHT TO FLEXIBLE WORKING

Flexible working makes it easier to balance work and family life. Strengthening the right to flexible working means more women can remain in and return to work.

### **RESEARCH BY**

PROFESSOR HENRIK KLEVEN, PROFESSOR CAMILLE LANDAIS, AND GABRIEL LEITE MARIANTE





Unpaid Work Paid Work or Study

## SEEN: MAKING WOMEN'S LABOUR VISIBLE

Women's labour, largely unpaid and underpaid, is missing from economic policymaking and is not recorded in key economic measures like GDP.

## TO SOCIETY INVISIBLE.

These artworks from the artbook SEEN were produced as part of the Invisibilised Labour project undertaken by Roos Saalbrink. The artbook resists the erasure of women and their contributions to the economy, and challenges dominant narratives about women's worth.

**76%** 

**40%** 

11%

OF ALL UNPAID **CARE AND DOMESTIC WORK IS DONE BY WOMEN** 

**WOMEN'S UNPAID CARE AND DOMESTIC WORK EXCEEDS 40 PER CENT OF GDP** 

OF FINANCE **GLOBALLY ARE WOMEN** 



**SCAN TO HEAR MORE FROM ROOS AND JUNO ABOUT THE PROJECT** 

**LISTEN TO CLARISS READ** "I HAVE A MAID"

#### I HAVE A MAID

I have a maid I have a maid. She is just under 18. I pay her \$60 per month, It's enough for her upkeep. Besides, she is stay in So she eats my food, Bathes with my soap And she sleeps in my house, Free accommodation! She doesn't have much to do either, She takes care of my two children, Cleans my 3 bedroomed house, And of course she cooks sometimes Especially that my husband is a picky eater. She does the dishes, and the laundry too...

**Extract: I Have a Maid** Clariss Rufaro Masiya

Aida Namukose is an ecofeminist and photographer based in coastal Kenya. **Clariss Rufaro Masiya** is an ecofeminist and gender equality and social inclusion specialist based in Zimbabwe.

Halina Rauber-Baio aka Juno Algaravia is a feminist collagist from Brazil. Kashushu is a visual artist from Uganda who specialises in contemporary digital art. Olusayo Ajetunmobi aka Ajet is an artist and illustrator, whose work explores cultural memory. Roos Saalbrink is an advocate who loves to create space to discuss feminism and econom



**A Bright Future** Kashushu

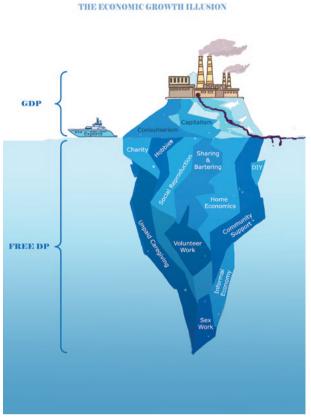
**44** Advocating for women's invisible labour, it leaves me in a place of devastation. I feel like I am unseen. Because I'm only seen as a passive beneficiary of GDP. I'm not seen as a contributor to it, so it kind of leaves me in a place where I feel exploited.





**Invisibilized Labour** Aida Namukose

My body feels exhausted. I feel like changing the current system or the beliefs, especially when talking about gender is exhausting. Fighting the good fight. But I believe it's worth it in the end.



**GDP vs FREE DP** Olusayo Ajetunmobi aka Ajet

**##** GDP doesn't include the social production of women. It wasn't meant to serve marginalized groups. It was only meant to serve colonial masters, particularly in Africa.



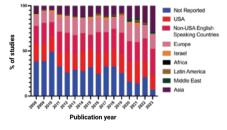
New Horizons Within Halina Rauber-Baio aka Juno Algaravia

Funded by:

## **MAKING RESEARCH LESS... WEIRD?**



**FACE PERCEPTION (2008-2023):** PAPERS BY POPULATION LOCATION



This diagram shows where in the world studies into facial perceptions have been carried out since 2008. 81 per cent of the 3,217 papers with specific location details were carried out in Western countries

85%

**85 PER CENT OF** STUDIES HAVE NOT REPORTED THE AGE OF PEOPLE USED IN STIMULI IMAGES.

81 PER CENT OF **STUDIES SINCE 2008** CARRIED OUT IN

70%

WHERE ETHNICITY IS REPORTED. NEARLY 70 PER CENT OF FACIAL STUDIES WHO ARE WHITE.

50%

GENDER REPORTING IN STIMULI HAS FLUCTUATED HUGELY SINCE 2008, NEVER RISING ABOVE 70 PER CENT, AND DROPPING TO JUST OVER 50 PER CENT IN 2014.

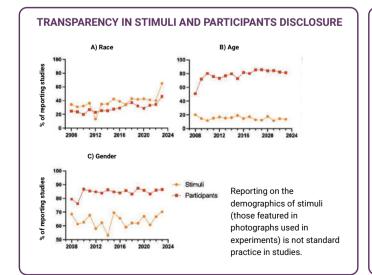
## WHAT'S THE SOLUTION?

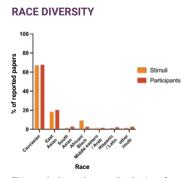
**SURPRISE** 

TO SUBJECT RIGHT

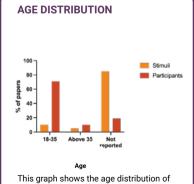
LSE's representative face library will include 36 categories for the identification of images, including wide ranges of age, gender, and ethnicity. The database will also include differing evaluations of photographs in terms of attractiveness, trustworthiness, dominance, credibility, and basic emotions.

By providing a more representative sample of faces, this project will improve face perception research and have a significant impact on the sciences. The diverse face database will serve as a facial library for researchers around the world, and will enable them to engage with more representative sampling in their studies, ultimately leading to a deeper understanding of the role of faces in psychological research.





This graph shows the race distribution of people presented in stimuli, and participants, for studies with available data since 2008. The vast majority of facial studies feature individuals who are white at almost 70 per cent.



people presented in stimuli, and of participants, in face perception studies since 2008. Around 85 per cent of studies have not reported the age of people used in stimuli images.

## THE TABLOID EFFECT

SHOWBIZ

**EMOTIONS** | ACCESSIBILITY |

**COMMENTS** 

## Who would have thought?! Guilty-pleasure online tabloids predict political outcomes where traditional broadsheets fail

In the run-up to both the Brexit referendum and to Trump's US election win in 2016, online tabloid newspapers, including the UK's Mail Online, the US's Gawker and Poland's Pudelek, accurately anticipated voting outcomes, whilst broadsheets failed to capture the public mood.

Dr Helena Chmielewska-Szlajfer's analysis of over 2,000 online articles, and over two dozen interviews with tabloid journalists, reveals how the tabloid penchant for celebrity gossip, sensationalist copy and forthright political opinion, often dismissed as lowbrow and far removed from traditional political surveys and expert analyses, actually helped tabloids to engage and align with the views of the general public.





TRUST Articles in online tabloids are written by professionals and are bound



**COMMENTS** In the US elections and UK referendum of 2016, tabloid comment sections were forums for a range of viewpoints. In contrast to more traditional surveys which tried to solicit opinions from members of the public, readers used online platforms to actively volunteer their views.

