A child is shown from the chest up, holding a smartphone. The background is a vibrant, abstract composition of overlapping geometric shapes in shades of blue, purple, and yellow. A white network of lines and dots is overlaid on the scene, suggesting digital connectivity. The child's face is partially visible, looking towards the phone.

The datafied child in education: understanding a child's digital footprint in the data landscape

June 2019

defenddigitalme.com

“the human race is about to enter a totally data mined existence, and it's going to be really fun to watch....

the world in 30 years is going to be unrecognisably data mined.”

Jose Ferreira, CEO of Knewton, 2012

“education happens to be today,
the world's most data mineable
industry– by far.”

Jose Ferreira, CEO of Knewton, 2012

**What does a
datafied child look
like to education
companies?**

Jose Ferreira, CEO of Knewton, 2012



The image shows a YouTube video player interface. At the top left is the YouTube logo with 'GB' next to it. To its right is a search bar with the word 'Search' inside. The main video frame shows a man in a grey suit and red tie speaking at a wooden podium against a blue background. Below the video frame, the title 'Knewton - Education Datapalooza' is displayed, followed by '22,080 views'. To the right of the views are icons for likes (38), comments (80), share, save, and a menu icon. At the bottom left is the 'Office of Ed Tech' logo and text 'Published on Nov 3, 2012'. At the bottom right is a red 'SUBSCRIBE 3.2K' button.

Knewton - Education Datapalooza

22,080 views

38 80 SHARE SAVE ...

Office of Ed Tech
Published on Nov 3, 2012

SUBSCRIBE 3.2K

<https://www.youtube.com/watch?v=Lr7Z7ysDluQ>

Source: YouTube channel of the Office of Educational Technology at the US Department of Education.





Changing the landscape of education infrastructure



EDUCATION DISRUPTED

How Google Took Over the Classroom

The tech giant is transforming public education with low-cost laptops and free apps. But schools may be giving Google more than they are getting.

Changing the language of education

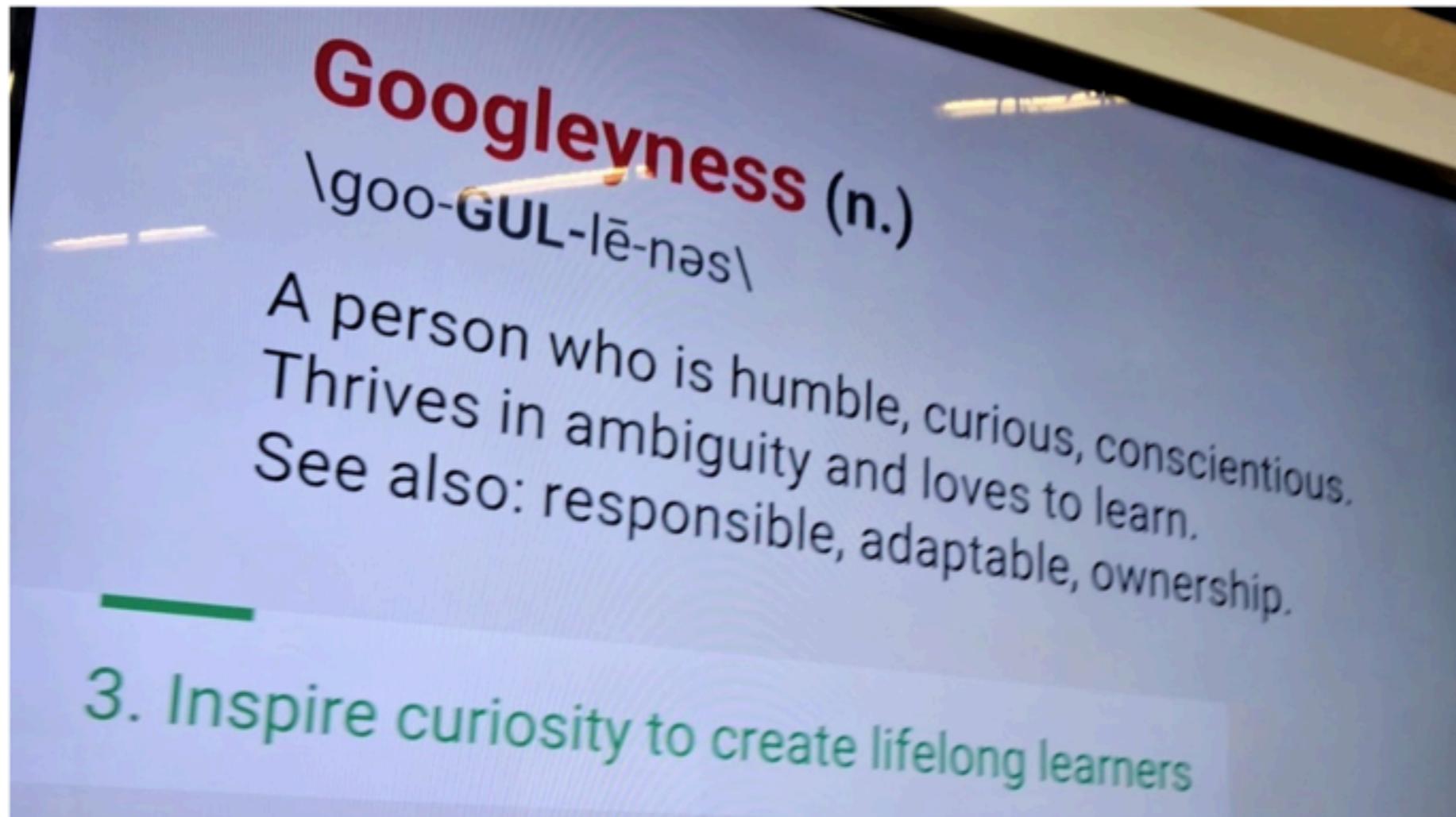


Figure 2: Google for Education's definition of 'Googleyness' (n.), from an AppsEvent workshop on G Suite for Education (2017).

Forthcoming publication: Disruptive play or Platform Colonialism? the contradictory dynamics of Google Expeditions and educational virtual reality

Dr Zoetanya Sujon

Senior Lecturer, Communications and Media, FHEA

London College of Communications, University of the Arts London

Our mission at defenddigitalme

Safe. Fair. Transparent data across the education sector in England.

We work on the intersection of rights to privacy, participation, and protection, in both State and commercial use of children's data.



The State of Data 2018: research

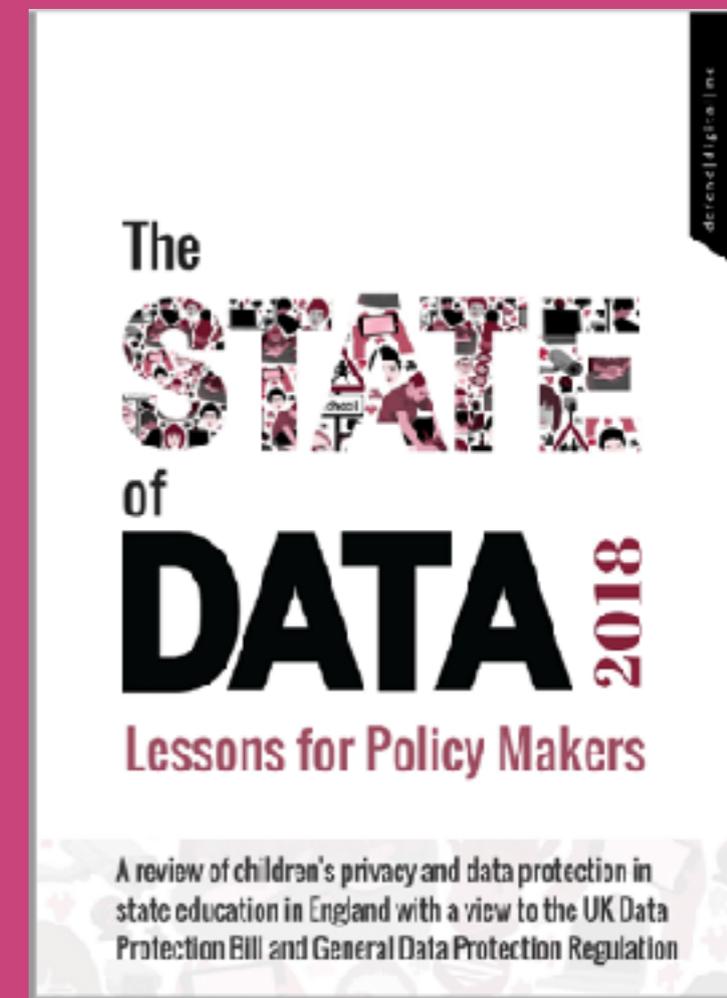
2018: Lessons for policy makers with a view to the UK Data Protection Act 2018 and the GDPR

Research

- 400+ State school data policies and practice
- 60 Higher Education institutions
- 153 Local Authorities
- Parent's survey (children age 5-18)

2019: Mapping a child's digital footprint in the the state education landscape in England.

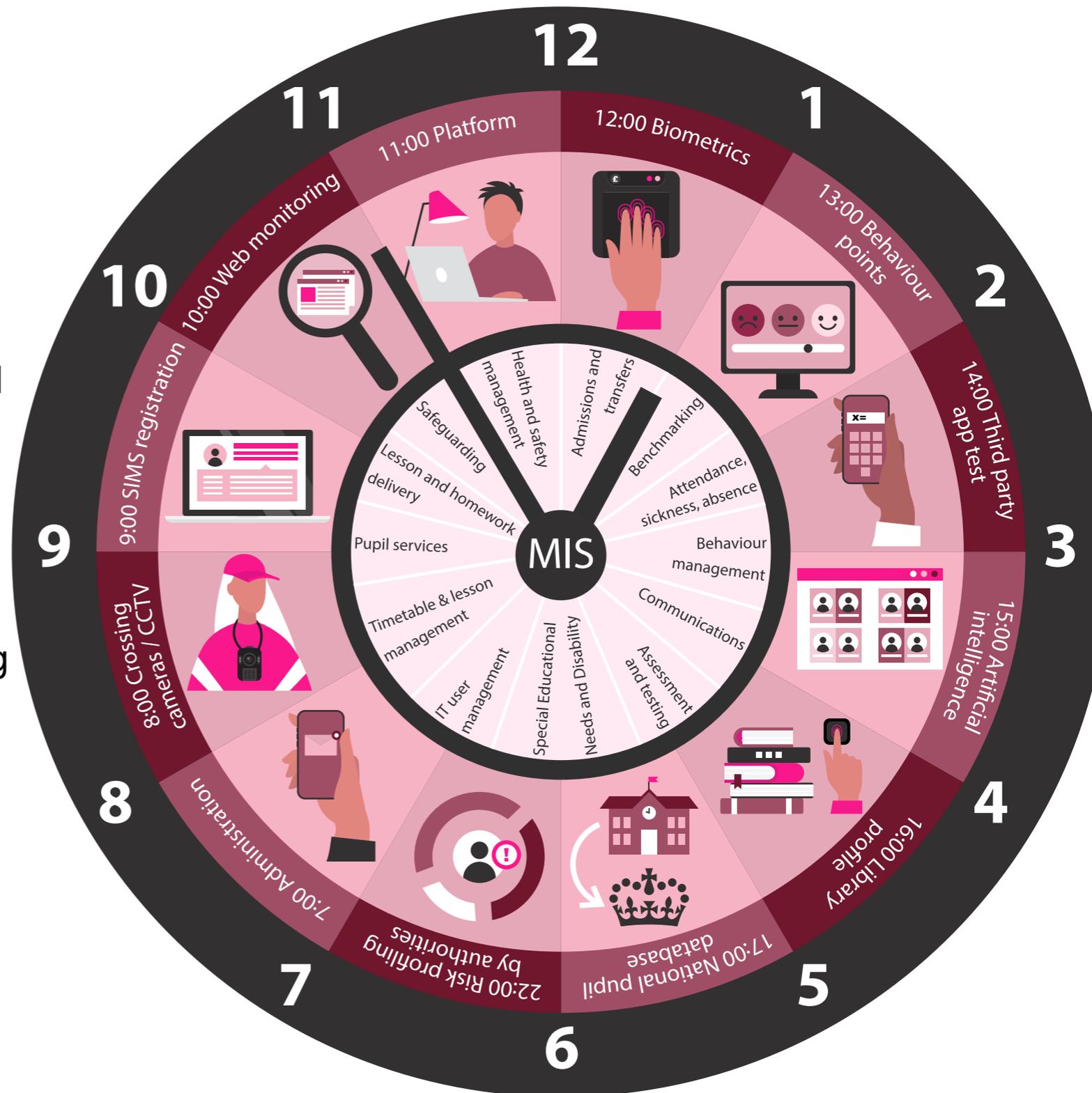
<https://defenddigitalme.com/stateofdata2018-gdpr/>



**What does
education look
like to a
datafied child?**

A day in the life of a datafied child

Presenter notes to accompany slide: From before breakfast to bedtime and beyond, a pupil's personal data are collected and may be transferred to hundreds of third parties in one day and thousands across their lifetime education. For school administration and central information managements systems, and for communications, and use by local and national pupil databases. By apps, platforms, cashless payment systems, including biometrics and health data. On behavioural platforms, in exams and tests, in safeguarding software, seating plans, borrowing library books, and at after-school clubs. On CCTV, classroom cameras, and classroom and patrol bodycams. And even at home, for their homework, logged into school accounts, and around the clock. There is no way a child can understand or track their digital footprint by the time they are 18.



The context of data in education

Aims and Values.

Conflict between what education is for.

Learning analytics and effects of performance behaviours.

Attainment and outcomes aims, can become the goal.

Social complexity and data reductivism into dashboards.

Rationalisation and Surveillance Capitalism. Personalisation.
Techno-solutionism.

**Are we asking the
right questions?**

A day in the life of a datafied child

“The sensitivity of digitized pupil and student data should not be underestimated”

International Working Group on Data Protection in
Telecommunications Working Paper on e-Learning Platforms
(April 2017)



Building a future

"...these problems demand sustained and iterative critical attention not only to system failures, but also to the kinds of worlds being built—both explicitly and implicitly—by and through the design, development, & implementation of data-intensive, algorithmically-mediated systems."

International Working Group on Data Protection in
Telecommunications Working Paper on e-Learning Platforms
(April 2017)



Who controls a child's digital footprint?

“ defenddigitalme believes that parents and children have lost control and oversight of their child's digital footprint in education, even by their fifth birthday. ”



Variation across the world

State and private education models.

Financial conditions.

Social and cultural expectations.

Technology infrastructure.

Bandwidth, Big Data, and the \$8bn market.

Interoperability. Procurement. Infrastructure.



data in education infrastructure

Where are there commonalities?

The purpose of education?

The UN Convention on the Rights of the Child?

Convergence and consistency with relevant legal instruments and common principles?

UNCRC rights and freedoms

Participation

- Right to be heard (Article 12)
- Best interests of the child (Article 3)
- Freedom of expression (Article 13)
- Freedom of thought (Article 14)
- Association and assembly (Article 15)
- Access to information (Article 17)
- Right to cultural life (Article 31)

Provision

- To development of their full potential (Article 28)
- For responsible life in a free society
- Right to education (Article 29)
- Cultural and social benefit (Article 17)

Protection

- From discrimination (Article 2)
- Neglect and abuse (Article 19)
- Exploitation and harms to welfare (Article 36)
- Injurious material (Article 17e)

Privacy

No child shall be subjected to arbitrary or unlawful interference with his or her privacy, family, or correspondence, nor to unlawful attacks on his or her honour and reputation. The child has the right to the protection of the law against such interference or attacks. (Article 16)

A common basis in data law

Article 5 - legitimacy of data processing and quality of data

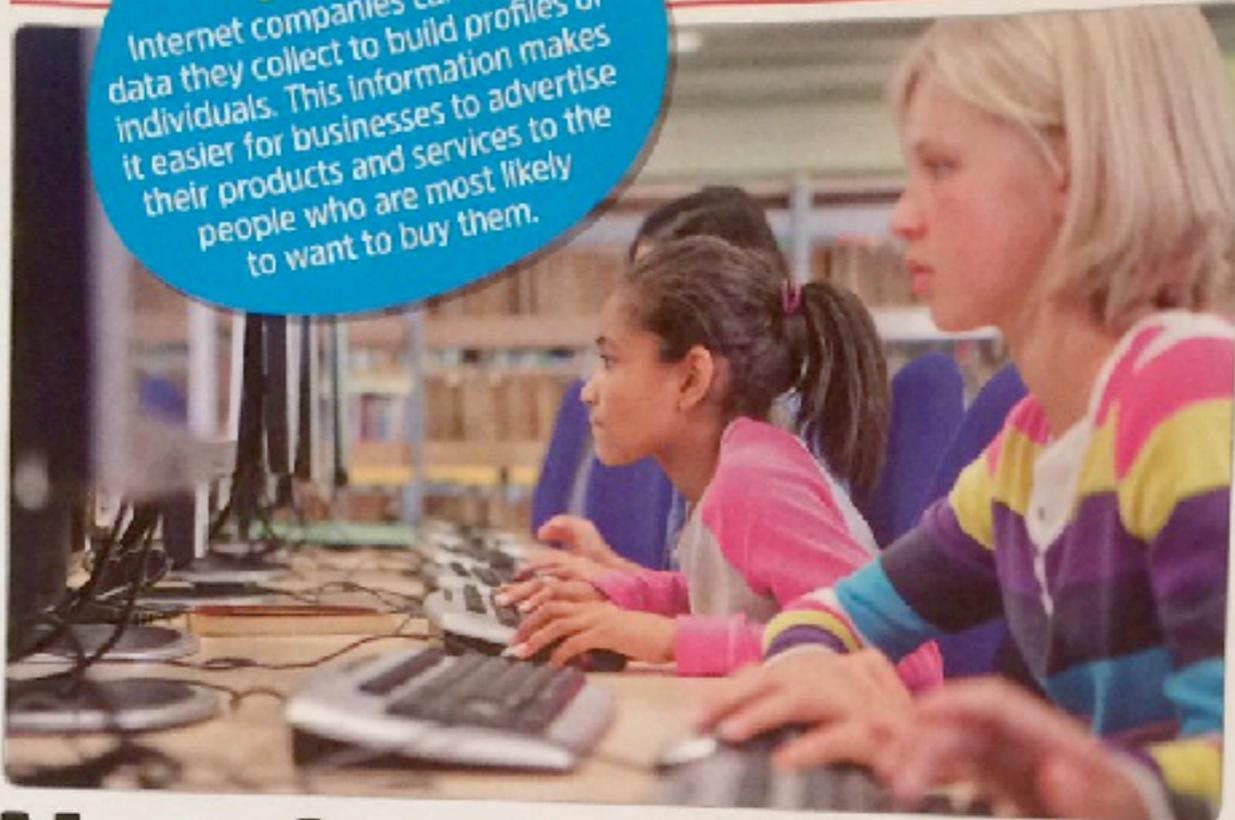
“... on the basis of the free, specific, informed and unambiguous **consent** of the data subject or of some **other legitimate basis laid down by law**”.



DID YOU KNOW?

Internet companies can use the data they collect to build profiles of individuals. This information makes it easier for businesses to advertise their products and services to the people who are most likely to want to buy them.

Home news



New laws to protect personal information

Have you ever considered how much personal information people give away when they're online? From setting up social media accounts to the websites we visit and the comments and pictures we post, our online activities tell internet companies a lot about our lives. This data is known as a "digital footprint" and not everyone is happy about how easy it can be for others to see and use it.

On 7 August, the Government announced details of plans for new laws that are designed to protect people's information online. Although rules about how this information can be used already exist, a new Data Protection Bill would strengthen them and make it easier for people to find out what personal data companies already hold about them – and to be able to ask them to change it (if it's incorrect) or delete it.

The laws would also force companies to make it

more obvious what people are agreeing to when they sign up for a new online service. At the moment, lots of people don't really know what their information is being used for.

Most importantly for many young people, social media companies will have to delete any material posted by people when they were children, if the person who posted it requests for it to be removed. This is called the "right to be forgotten" and means that people have a right to delete information that they find embarrassing or no longer want to be in the public domain.

Companies who don't follow the new rules could be punished by being forced to pay millions of pounds in fines. The plans will be debated in Parliament in the autumn. Similar rules are being enforced across the European Union from May 2018.

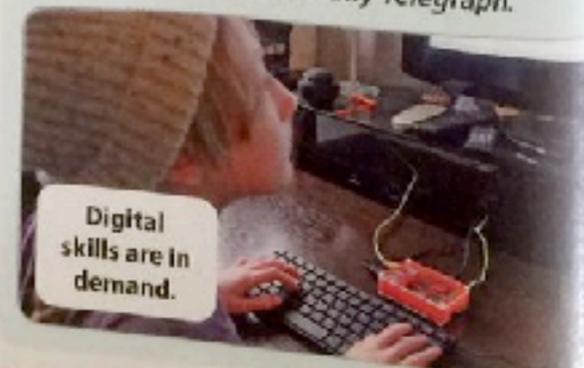
How healthy is your online diet?

Last week, the Children's Commissioner, Anne Longfield, said that children should be encouraged to use more educational sites and apps and that social media companies should stop making it so easy for young people to become addicted to using their services. She compared social media platforms such as Snapchat and Facebook to junk food and advised parents to make sure that their children have a "healthy online diet".



Time online isn't a waste of time

Robert Hannigan, who used to be in charge of the UK government's intelligence and security organisation, believes that encouraging children to explore the digital world and to work out how it works will inspire more young people to pursue careers in science and engineering. "We need young people who have been allowed to behave like engineers: to explore, break things and put them together," wrote Hannigan in *The Daily Telegraph*.



Digital skills are in demand.

Challenges for children and parental consent

- Privacy and data protection by default and design
- Data minimisation standards and re-use
- Data distribution at scale and interoperability
- Automated and semi-automated profiling and decision-making
- Public interest, public task definition, and derogations
- Ability to understand and action a child's right to object, erasure, rectification and restriction
- Understanding Subject Access and redress
- Uses of geolocation technology beyond necessary purposes
- Age verification
- Recognised additional vulnerability
- Consent for further processing purposes is bundled into home-school agreements but not fair, genuine or freely given.

School Information Management Systems

Purposes

Pupil level data management
Common Transfer Files between schools
Interoperability
Administration
Communications

Problems

Opinion becomes data which takes on meaning.
Excessive data collection.
Permits centralised Data export models at scale to third parties:

- data access by an indefinite numbers of persons
- APIs are improving rate of raw data distribution, but still at scale.
- Marketing and adTech targeting using parental contact info without lawful basis.

Lifetime records become permanent and widely shared.
Mass errors can multiply at scale, and go unseen.
Loss of privacy can be hard to see or quantify.
Loss of public sector knowledge in personal data, to commercial sector.
Procurement lock-in through core service and 3rd party dependency.

Core Platforms: Case studies

Google
Microsoft
and others.



Apps

Purposes inside school

Classroom learning.

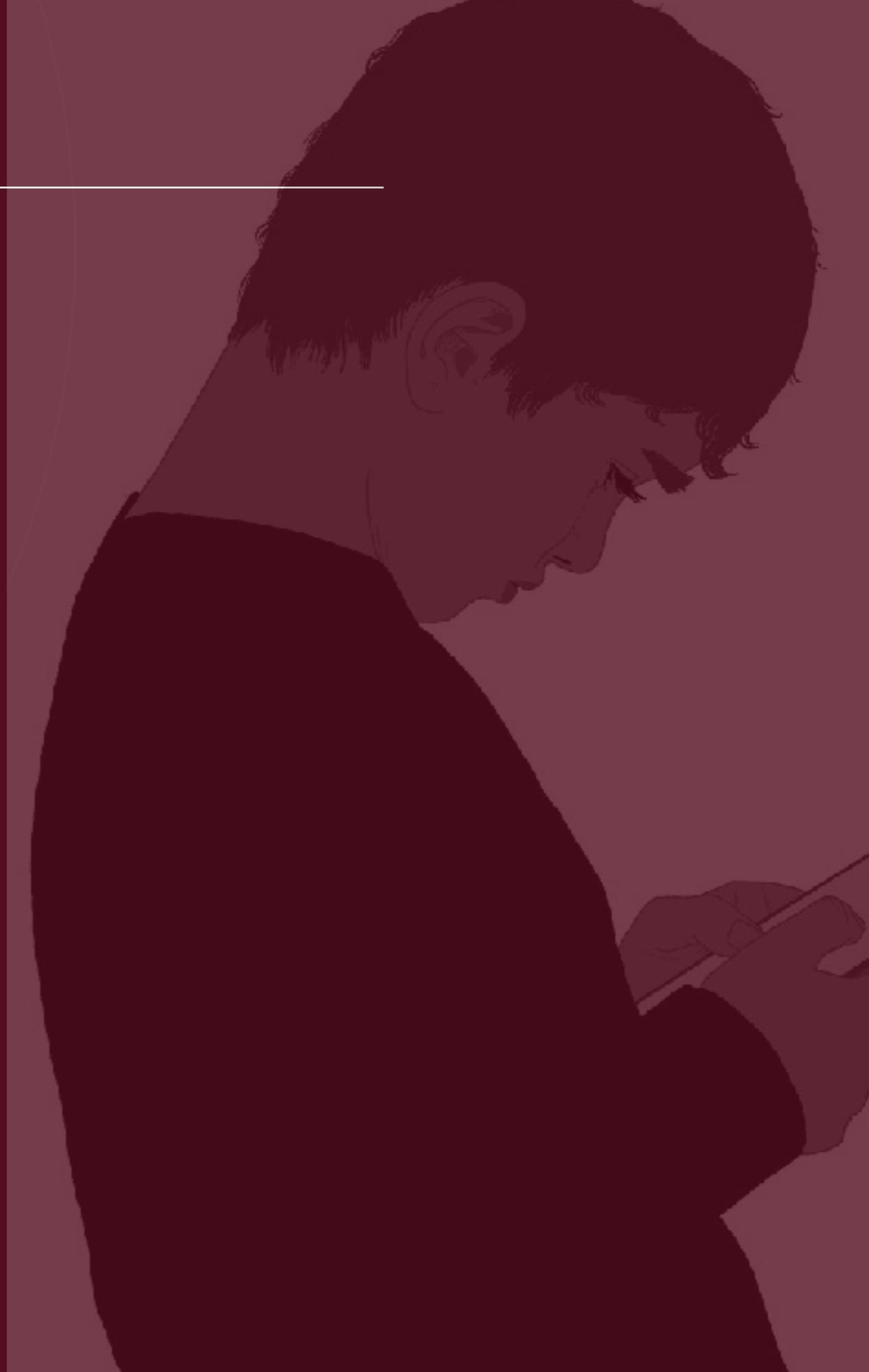
Quick testing tools.

Homework.

Administration.

Sickness reporting.

Home school communications.



Apps

Problems

Excessive data collection.

Raw named data transfers when anonymised data could do.

Unsafe design and security.

Unproven pedagogies with 'evidence base' from providers.

Data export abroad.

Loss of pupil data to commercial sector.

Marketing and adTech targeting.

Personal mobile phone use: access, cost, data, discrimination.

Scope creep of the data collected to use beyond purpose of education.



Case study: free apps

- Due diligence not done
- Terms and conditions unclear
- Data retention has closing date for withdrawal
- International tables could be scraped for data

DAILYTELEGRAPH.COM.AU SATURDAY MARCH 10 2018

05

Adding up the dangers

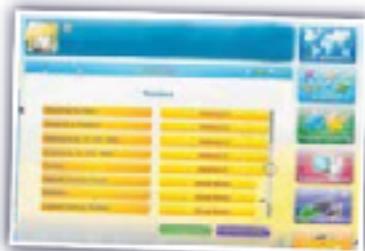
Mathletics website loophole put primary students' details at risk

EXCLUSIVE
BY LAR LOUSSIKIAN

HACKERS may have accessed the names and school details of almost 200,000 primary school students because of a massive flaw in popular education app Mathletics.

The nation's privacy watchdog is investigating the loophole, which was discovered during World Maths Week events in primary schools across the nation.

The loophole was closed yesterday after inquiries from The Saturday Telegraph, which was this week supplied with the data — a first name, surname initial and school of 185,000



The Mathletics website.

students — that had been "scraped off" the Mathletics website.

But 3P Learning, the ASX-listed firm behind the app, denies it is a data breach because the information, which does not include students' full

surnames, was volunteered to the company. 3P Learning chief executive Rebekah O'Flaherty said the loophole was being shut.

"While no student can be identified from the aggregation of this data ... we really don't like the idea of anyone being able to collect our customer data in this way," she said.

"To scrape and aggregate names from our website would take a motivated coder and we're really disappointed that anyone would target our products because they are making a huge difference to kids' educational outcomes all over the world."

Both the eSafety Commission and Australian Privacy Foundation were

concerned about the availability of the information, which could place children with an estranged parent at risk.

"It's unacceptable for the file to be available which can enable the identification of children," the Australian Privacy Foundation's Kat Lane said.

"This can be a problem for any child at risk, and Mathletics needs to immediately stop this practice."

The Office of the Australian Information Commissioner is also making its own inquiries.

"Whenever a child's identifying details can be accessed online it can be concerning for a range of reasons, especially when that information may put a child at risk," an eSafety Commission

spokeswoman said. "We understand this issue will be looked at more closely by the (information commissioner)."

The Australian Cyber Security Agency had also been in contact with 3P but said the company had "confirmed that this is not a data breach".

Mathletics is one of 3P Learning's most popular apps. It lets students compete in a game which tests their maths skills against other students around the world.

But the app also had an internal feature which created lists of Hall of Fame players every five minutes before dumping those details online — from where they were harvested and compiled.

Case study: Administration and ads

The screenshot displays the ParentPay user interface. At the top, the navigation bar includes the ParentPay logo and links for Home, Parent Account, Communication, Profile Settings, and Help. A Logout button is located in the top right corner. Below the navigation bar, a blue header area displays a welcome message for J Persson (littlehadlow@gmail.com) and a shopping cart icon. The main content area is divided into a left sidebar and a main panel. The sidebar contains a user profile for Anna and a list of navigation options: Active Payment items, Historic Payment items, Transaction history, Add a child, View school and caterer, and ParentPay support. The main panel features a promotional banner for a nimbl. digital pocket money card, an orange system availability notice, and a user profile for Anna with a dinner money balance of 21.00. Two buttons are visible: 'Pay for Anna's meals' and 'Pay for other items' with a notification badge.

ParentPay Home | Parent Account | Communication | Profile Settings | Help Logout

Welcome,
J Persson (littlehadlow@gmail.com)

Anna Add a c...

Active Payment items

Historic Payment items

Transaction history

Add a child

View school and caterer

ParentPay support

The 'top card' for under 18's - Start your free trial today!
nimbl.

Enjoy 20% off your digital pocket money card

IMPORTANT - SYSTEM AVAILABILITY: We are making some planned changes to ParentPay on Tuesday 19th March. As a result users will not be able to log in to ParentPay for approx 1 hour after 22:00. We apologise for any inconvenience this may cause.

Anna
Dinner money balance: 21.00

Pay for Anna's meals

Pay for other items

Cameras and CCTV

Purposes:

External security.

Classroom security.

Behavioural monitoring.

Problems:

Excessive data collection.

Unsafe design (hacks 2018 streamed UK school cameras from Blackpool to the US).

Scope creep.

Lack of oversight and accountability.

Cameras scope growing to web cams, body cams.

Case study: Classroom cameras

Cameras
Voice
Movement

The screenshot shows a news article from Schools Week. At the top, there is a 'SUBSCRIBE' button and a date 'Wednesday March 20th 2019'. Below the navigation menu, there is a search bar for 'Search schools'. The article title is 'A camera in EVERY classroom: would you do it?' by Cath Murray, dated 'Fri 20th Jul 2018, 5.00'. The main image shows a man in a suit interacting with a large digital display in a classroom. To the right of the image is an advertisement for 'EDWeek Jobs' at 'The Rise SCHOOL' with a 'Leadership Pay scale' of 'Point 8-16 (£50,423- £60-804)'. Below the image is the start of the article text: 'I'm in an engineering lab at a UTC in central Birmingham and it's all feeling a bit Black Mirror. The popular sci-fi series has an episode called The Entire History of You, where a lawyer plays back his work appraisal for his wife and they analyse every gesture of the panel. In this fictional future, most people have a "grain" memory implant behind their ear, allowing every moment of their lives to be filmed through their own eyes.'

SUBSCRIBE

News Opinion Features Reviews Bulletin Supplements Archive Jobs

Search schools

SCHOOLS WEEK

Feature

A camera in EVERY classroom: would you do it?

Cath Murray

Fri 20th Jul 2018, 5.00

EDWeek Jobs

The Rise SCHOOL

Point 8-16
(£50,423- £60-804)
Leadership
Pay scale

Visit the EDWeek website

I'm in an engineering lab at a UTC in central Birmingham and it's all feeling a bit Black Mirror.

The popular sci-fi series has an episode called The Entire History of You, where a lawyer plays back his work appraisal for his wife and they analyse every gesture of the panel. In this fictional future, most people have a "grain" memory implant behind their ear, allowing every moment of their lives to be filmed through their own eyes.

Are you up to date with your asbestos surveys?

Behavioural management

Purposes:

Managing behaviour.

Scoring and profiling.

Home communications.

Exclusions and labels-last-a-lifetime.

Problems:

Emotional management.

Wellbeing undefined.

Points based punishment.

Stigma.

See also: Selena Nemorin, (2017) Affective capture in digital school spaces and the modulation of student subjectivities. *Emotion, Space and Society*, 24. pp. 11-18. ISSN 1755-458

Case Study: Behavioural management

Department of Media and Communications

Parenting for a Digital Future

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ClassDojo poses data protection concerns for parents

Ben Williamson and Alasdair Rutherford raise a series of concerns about the globally popular classroom management app ClassDojo. They argue that as ClassDojo has grown into a new social media site for schools, it poses a number of risks in relation to data protection and child privacy, and to how children, teachers and parents interact. Ben and Alasdair are both based in the **Faculty of Social Sciences** at the University of Stirling, UK. Ben is a Lecturer in Education, and led the ESRC funded project **Code Acts in Education** to explore the implications of digital data technologies in education. Alasdair is a Senior Lecturer in Social Statistics. [Header image credit: ClassDojo]

Millions of parents will be familiar with the free mobile app, **ClassDojo**. It allows teachers to award or deduct points to children for their classroom behaviour, and has become a worldwide educational success story.

LSE Department of Media and Communications

MacArthur Foundation

connected learning

Enter your email address to receive new posts by email

Your email:

Subscribe

Unsubscribe

See all of our blog posts

#P4DF

My Tweets

See also: Ben Williamson (2017) Decoding ClassDojo: psycho-policy, social-emotional learning and persuasive educational technologies, Learning, Media and Technology, 42:4, 440-453, DOI: 10.1080/17439884.2017.1278020

Case Study: Behavioural management

Tiffany Donaghan

No preference Not pinned 62

Rearrange pupils

Kevin Giffley 58 3A

Patricia Dubling 59 8C

7A

Positive Negative

Notes (4) ?

General Refusing Shouting Out Rowdy Out Of Seat General General

General Refusing Shouting Out Rowdy Out Of Seat General General

Customisable to match school policy

Building a permanent, shared behavioural profile based on opinions

Biometrics: Faces and Fingerprints +++

Purposes:

Entry

Cashless payments

Resource access:

- Library books

- Lockers and printers

Learning uses growing

Problems:

High importance

Hidden significance

Normalises collection



Biometrics: Case study

Collection



Safeguarding in Schools

Purposes:

Filtering

Blocking

Monitoring

Problems:

Conflation of protection and risk

Countering Violent Extremism: definitions and Scope creep

Current UK expansion 2-4 years Early Years

Training and staff capabilities and role extension

Unknown error rates, success measures



Safeguarding in Schools: Case study

"It's just the way the world works now. Privacy went out the window in the last five years. We're a part of that. For the good of society, for protecting kids."

Gaggle CEO, Jeff Patterson.
Education Week, May 2019

The image is a screenshot of a web page from Education Week. At the top, the date "June 11, 2019" is visible. The main header reads "EDUCATION WEEK". Below this, there are navigation links for "STIVED CREATED ISSUES", "CURRENT ISSUE", "TOPICS", "BLOGS", "REPORTS & DATA". The main content area features a large article titled "Schools Are Deploying Massive Digital Surveillance Systems. The Results Are Alarming" by Benjamin Herold, dated May 30, 2019. The article's lead paragraph begins: "Last December, early on a Sunday morning, Amanda Lafrenais tweeted about her cars. 'I would die for you,' the 31-year old comic book artist from Clark, Texas, wrote." The article is accompanied by a collage of images, including a person with a rifle, a person in a white shirt, and a car at night. On the right side of the article, there are social media sharing options for "Print", "Email", "Reprints", and "Comments".

Parents' views on safeguarding software

Does the Internet Monitoring software used by the school....

Log children's Internet search terms and create flags based on keywords?

55%

Record screen content as created / seen by the child?

25%

Record children's image through the webcam?

14%

DON'T KNOW

28%

Source: State of Data survey 2018, of 1,004 parents of children in state school in England, carried out by Survation, on behalf of defenddigitalme

AI and personalised learning

Purposes

Classroom management

Seating plans

Managing behaviour

Scoring and profiling and risk and prediction

Home communications

Learning Environments — “Content Management Databases”

Problems:

Emotional management and wellbeing ill-defined and unproven

Stigma

Excessive data collection

How personal is personalised prediction, using “students like you”?

How are products lawfully trained without consent of the child / parent?

Further references:

Dr Selena Nemorin, University College London, Affective capture in digital school spaces and the modulation of student subjectivities. *Emotion, Space and Society*, 24. pp. 11-18. ISSN 1755-458

Dr Ben Williamson, University of Edinburgh, Centre for Research in Digital Education and the Edinburgh Futures Institute. *Big Data in Education, the digital future of learning, policy and practice* (Sage) (2017)

Dr Neil Selwyn, Professor in the Faculty of Education, Monash University, Australia

Unexpected special category data

In schools we have also come across:

Libraries systems inferring sexual orientation by labels on the books.

Canteen cashless payment systems generating inferred religion.

Special Educational Needs data in profiles.

Safeguarding in schools web monitoring at home.

Hypnosis.

RFID student movement tracking at all times on site.

Public Health vaccinations carried out in school and linked records without informed understanding.

State challenges

National datasets:

Named since 2002.

Re-use for accountability measures.

23 million+ records in single dataset.

Eyes on economic value and AI training.

Problems:

Government legislative scrutiny is inadequate.

Secondary legislation scope creep.

Routine expansions with statutory basis for collection.

Expansion for non-education purposes: Digital Economy Act 2016.

Home Office re-use for 'Hostile Environment' immigration enforcement.

One way transparency — Subject Access Requests.

Audit.

Case study: State challenges

Linked data.

Longitudinal data.

Everyday life, throughout a lifetime.

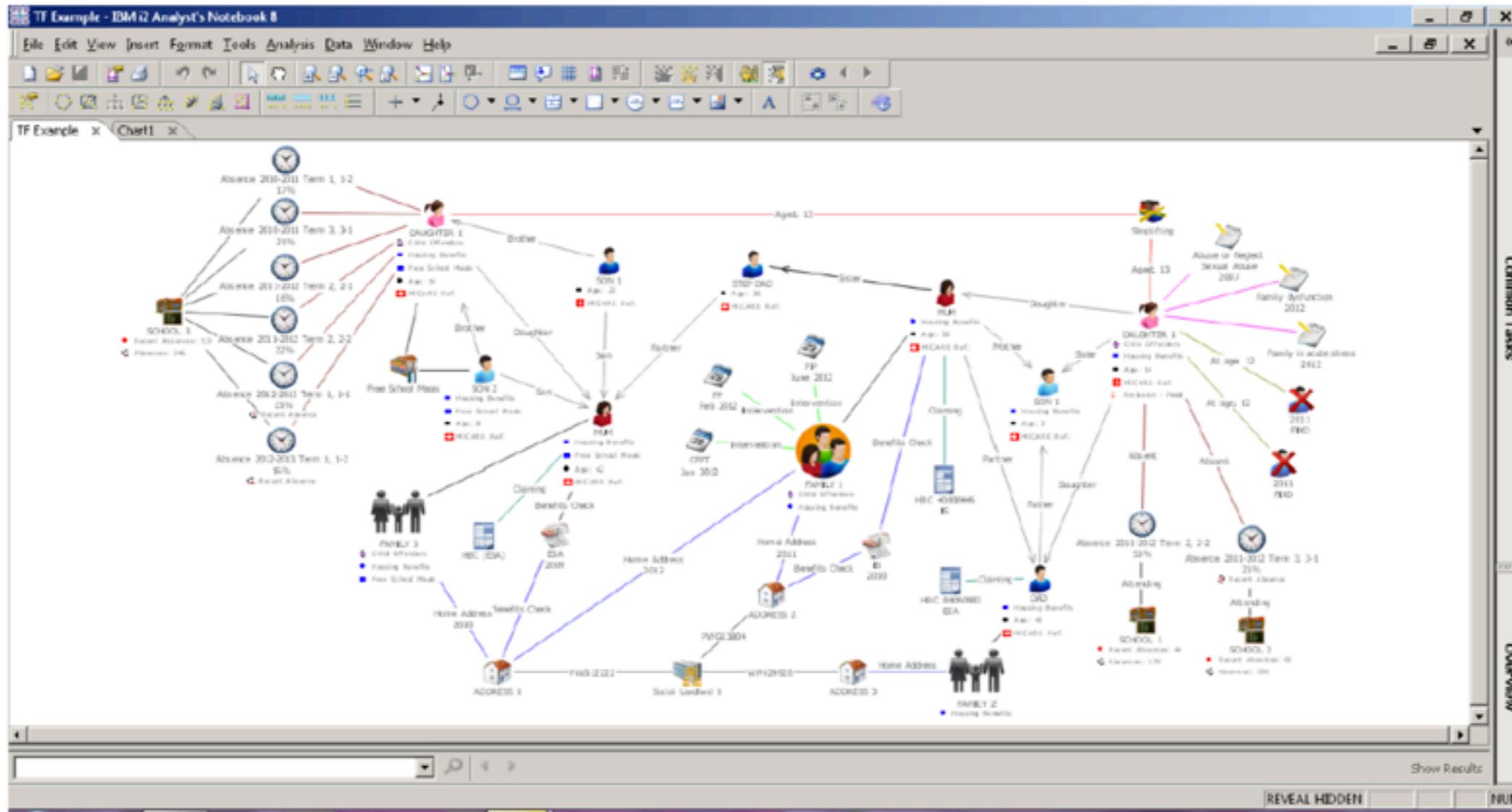
Profiling and Prediction.

Source Report: Cardiff Data Justice Lab Research and, Data Risk Scores as Governance <https://datajusticelab.org/data-scores-as-governance/>



Austerity challenges: Case study

Manchester Research & Intelligence Database to identify 'Troubled Families'



Source: <https://www.local.gov.uk/sites/default/files/documents/childrens-social-care-and-b32.pdf>

Council system based on an IBM product. How can a child understand that their school records may be contributing to these predictive risk scores and acted on, *out of school*, and what happens if they are wrong?

Case study: Benchmarking

Pupil		Attainment				FFT Benchmark				Set a target							
Details & context		Key Stage 1 Results				Based on Average challenge setting				Combine data, knowledge & aspiration							
		HML	Reading	Writing	Maths	Chance of each band				Risk of lower band	FFT band	Chance of higher band	Target band	How likely, FFT (50)	How likely, my school	Target reviewed?	
Bob Bun	18/02/2007 Male	H	2A	2A	2A	B	W	N	A	3%	N	48%	N	97%	97%	✓	
						110 ±4											
						Chance (%)											
Carl Cantalope	09/02/2006 Male	H	3	3	3	B	W	N	A	27%	A	~%	A	73%	75%	✓	
						113 ±4											
						Chance (%)											
Damian Date	20/12/2006 Male	H	3	3	2A	B	W	N	A	35%	A	~%	A	65%	68%	✓	
						113 ±4											
						Chance (%)											
Elle Eclair	19/11/2007 Female	M	2B	2B	2B	B	W	N	A	24%	N	12%	N	76%	78%	✓	
						103 ±4											
						Chance (%)											

Predictive risk scores are acted on in school as well.

Benchmarking

Purposes:

In-school insights

Similar schools

National re-use

Problems:

Predictive profiling

Automated decision making

“Significant effect”

“Public interest”



Case study: State Interventions



As seen on twitter
reportedly outside the Department for Education,
Great Smith Street, London

Case study: student data

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[Digital resources](#) | [Network & technology](#) | [Advice](#) | [R&D](#)

[Home](#) | [Blog](#) | [Creating a collaborative, integrated learning analytics service fit for the sector](#)

Blog

Creating a collaborative, integrated learning analytics service fit for the sector

by [Phil Richards](#) on 25 July 2016

Universities and colleges wishing to maximise student success and raise achievement of all students – including those from non-traditional backgrounds – should consider adopting learning analytics, as recommended by the Higher Education Commission in its recent report 'From Bricks to Clicks'.

- Altryx
- Blackboard
- Brightspace
- Business Intelligence/Open Text
- Civitas
- Google Analytics
- Google Data Studio
- Heidi Plus
- IBM
- in-house tool
- JISC
- MATLAB
- Minitab
- Ms Excel
- MSSQL Stack
- ognos
- Oracle SIA / BIE
- Panopto
- Piwik
- Power BI
- Pyramid
- QlikView
- SAP Business Object / Business W
- SEATS
- SQL Data warehouse built with Wh
- SSRS
- Starfish
- State

"Civitas Learning is one of a number of additional vendors now working closely with us as a result of the event. A leading analytics organisation in the US, Civitas has experience in using advanced analytics, *machine learning* and data science, through a vendor and solution-agnostic platform that's integrated with more than 93% of VLEs and 85% of student information systems. It produces multiple institution-specific models, building approximately 30 *predictive models* per institution to more precisely leverage learning analytics. In the UK Civitas Learning's work now spans post-1992 universities to Russell Group institutions, and its network currently includes more than 285 institutions campuses reaching more than 6.5 million students across the world."

source: JISC, January 3, 2017

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Higher education

Student Loans Company 'spied on vulnerable students' social media'

Exclusive: Support workers say estranged students lost funding despite no finding of guilt of fraud

Sally Weale
Education correspondent

Thu 2 Aug 2016 14:21 BST

If you had the opportunity to see your child's named record from the National Pupil Database, would you choose to see it?



YES
79%

Today the Department for Education refuses children and parents the right to see their own record, check it is accurate or have data corrected. defenddigitalme is campaigning to have that changed, and wants the government to respect children's Subject Access Rights and Recital 63 in the General Data Protection Regulation

Challenges

- Subject Access Requests
- Commercial confidentiality
- State secrecy
- Freedom of Information law
- Regulatory tech capability to understand the products
- Regulatory capacity
- Avoid pay-for-privacy
- Is opt-in really opt-in where there is power imbalance?

**What do you
want your
world to look
like in future?**

Political context

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Sharing of school pupils' data put on hold

By Chris Baranluk
Technology reporter

15 May 2018

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Wednesday November 7th 2018

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EXCLUSIVE

Doubts over DfE's new pupil data sharing policy

Freddie Whittaker

More 15th Oct 2018, 5:00

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Chief Executive Officer

The government information about

The national pupil

Who is in control?

Behavioural Insights and Nudge

Purposes:

Rank and ratings

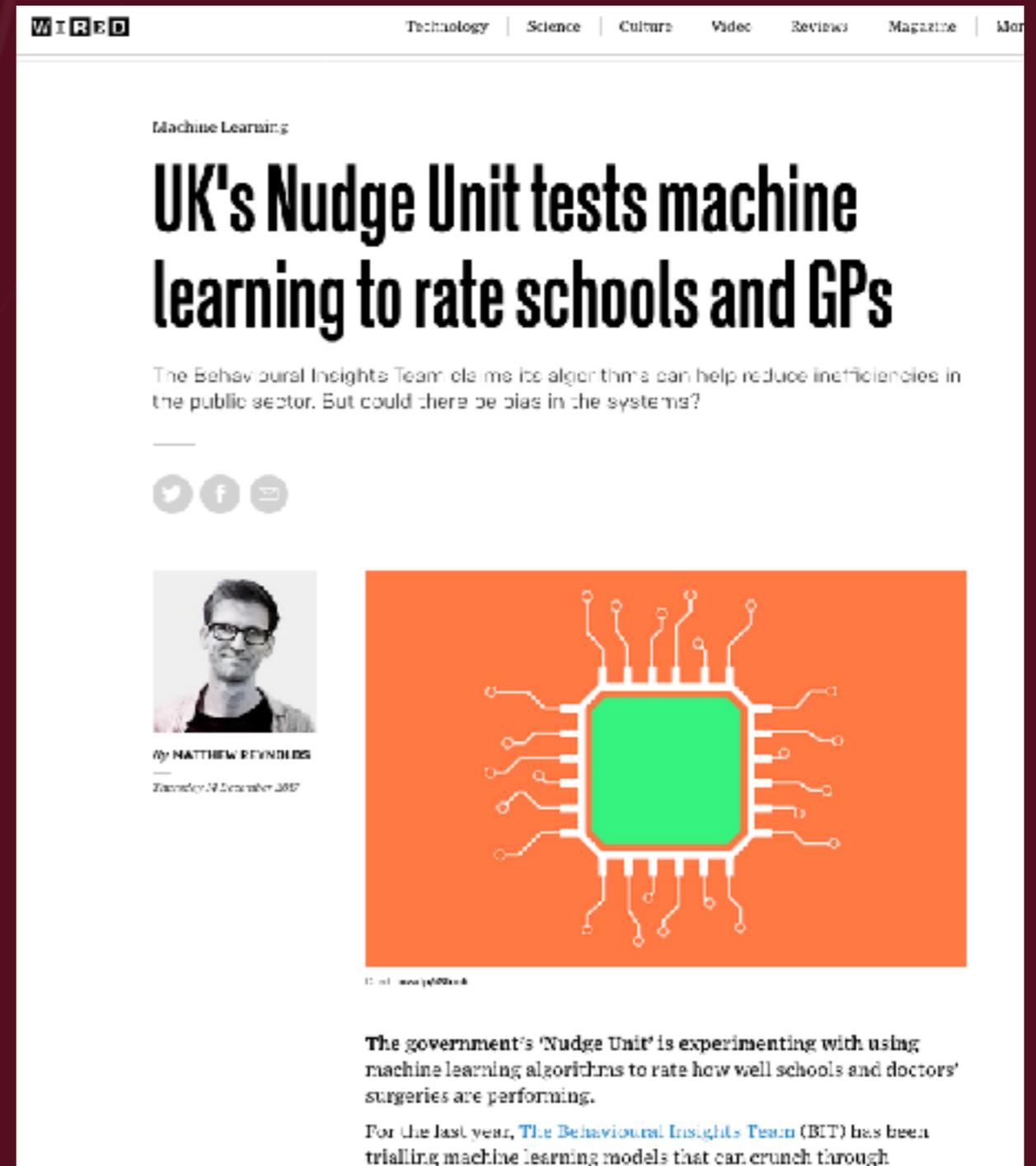
“Rank and spank”

Problems:

Automated decisions

“Public interest”

Individual autonomy



The screenshot shows a Wired article page. At the top, the Wired logo is on the left, and navigation links for Technology, Science, Culture, Video, Reviews, Magazine, and More are on the right. The article is categorized under 'Machine Learning'. The main headline is 'UK's Nudge Unit tests machine learning to rate schools and GPs'. Below the headline is a sub-headline: 'The Behavioural Insights Team claims its algorithms can help reduce inefficiencies in the public sector. But could there be bias in the systems?'. There are social media sharing icons for Twitter, Facebook, and Email. A small profile picture of the author, Matthew Reynolds, is shown next to his name and the date 'Tuesday, 14 December 2017'. A large graphic of a green microchip on an orange background is featured. At the bottom, the article text begins: 'The government's 'Nudge Unit' is experimenting with using machine learning algorithms to rate how well schools and doctors' surgeries are performing. For the last year, The Behavioural Insights Team (BIT) has been trialling machine learning models that can crunch through'.

Who is included?

Education screening based on Big data and Prediction

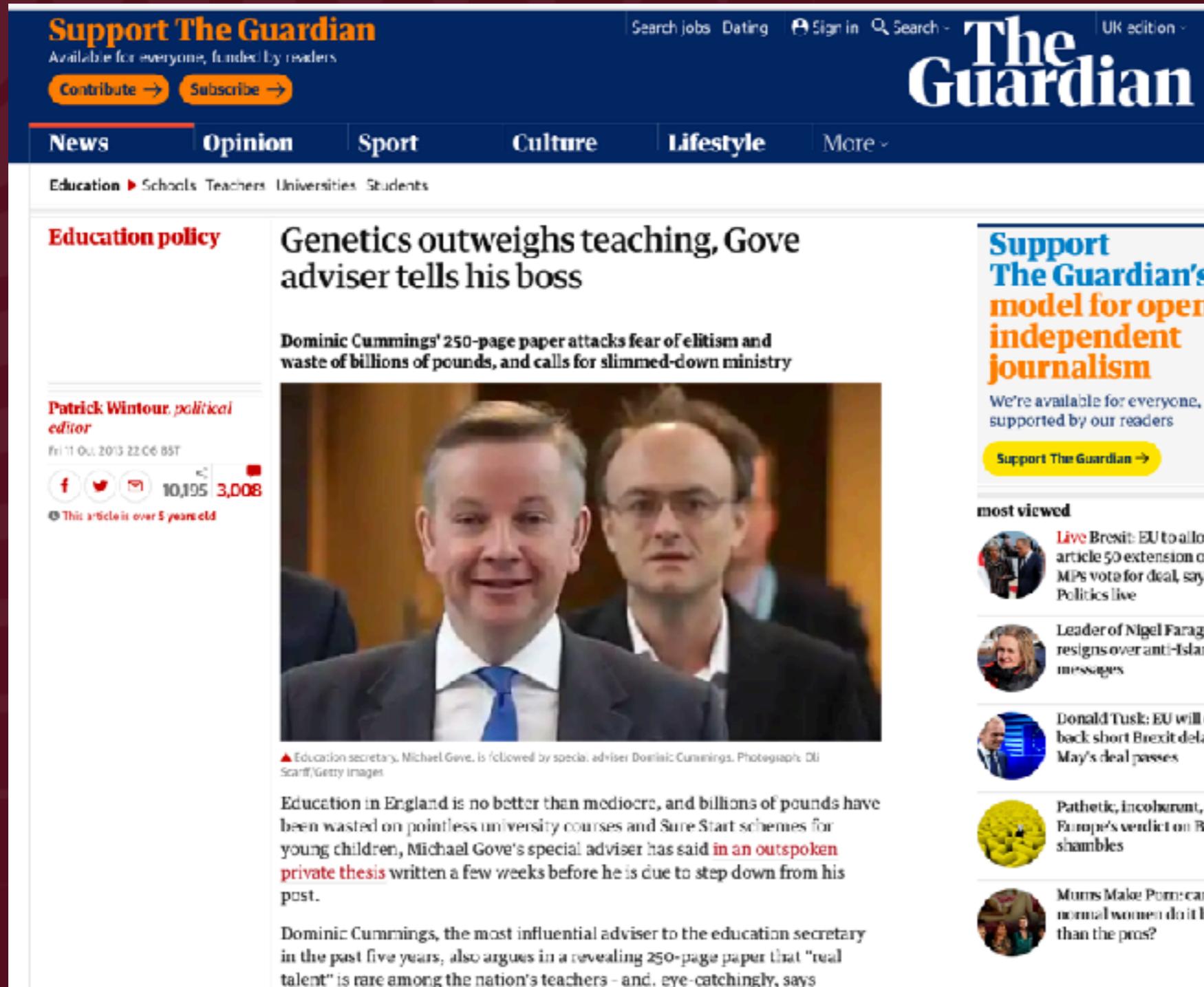
Austria — adult education

UK debate — university access

Attainment, earnings vs value.

Employment and suitability screening

What are the unintended consequences?



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Education policy

Genetics outweighs teaching, Gove adviser tells his boss

Dominic Cummings' 250-page paper attacks fear of elitism and waste of billions of pounds, and calls for slimmed-down ministry

Patrick Wintour, political editor
Fri 11 Oct 2013 22:06 BST

10,195 3,008

This article is over 5 years old



▲ Education secretary, Michael Gove, is followed by special adviser Dominic Cummings. Photograph: Oli Scarff/Getty Images

Education in England is no better than mediocre, and billions of pounds have been wasted on pointless university courses and Sure Start schemes for young children, Michael Gove's special adviser has said in an **outspoken private thesis** written a few weeks before he is due to step down from his post.

Dominic Cummings, the most influential adviser to the education secretary in the past five years, also argues in a revealing 250-page paper that "real talent" is rare among the nation's teachers - and, eye-catchingly, says

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human rights
fairness
equality
social justice
human flourishing

**Children's
education should
develop each
child's personality,
talents and abilities
to the full.**

[UN Convention of the Rights of the Child]

**public good
from data,
depends on
public trust**

“the price of
innovation does not
need to be the erosion
of fundamental
privacy rights.”

Elizabeth Denham, ICO, 3 July 2017,
findings on Google DeepMind and Royal Free Hospital unlawful processing of health data
for the company's product development

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