



Citizen Scientists
Investigating Cookies
& App GDPR Compliance

How Citizen Science Can Add Value to Investigate Compliance of the General Data Protection Regulation (GDPR)

Dr. Huma Shah

Directing science on CSI-COP



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 873169.

Quick Poll

- Which of these big tech companies do you *trust*? You can choose more than one, or none.
 - Amazon
 - Apple
 - Facebook
 - Google
 - IBM
 - Microsoft
 - Oracle
 - None?

CSI-COP project: *what's the problem?*

- Online tracking is out of control

Shoshana Zuboff (2021)

- “***All websites, all apps*** are designed to collect as much as data as possible this is being caked into many industries”
- “We do not have the laws in place to protect us/our human generated data from ... [tech] companies, NSA ...” [gathering information on us]

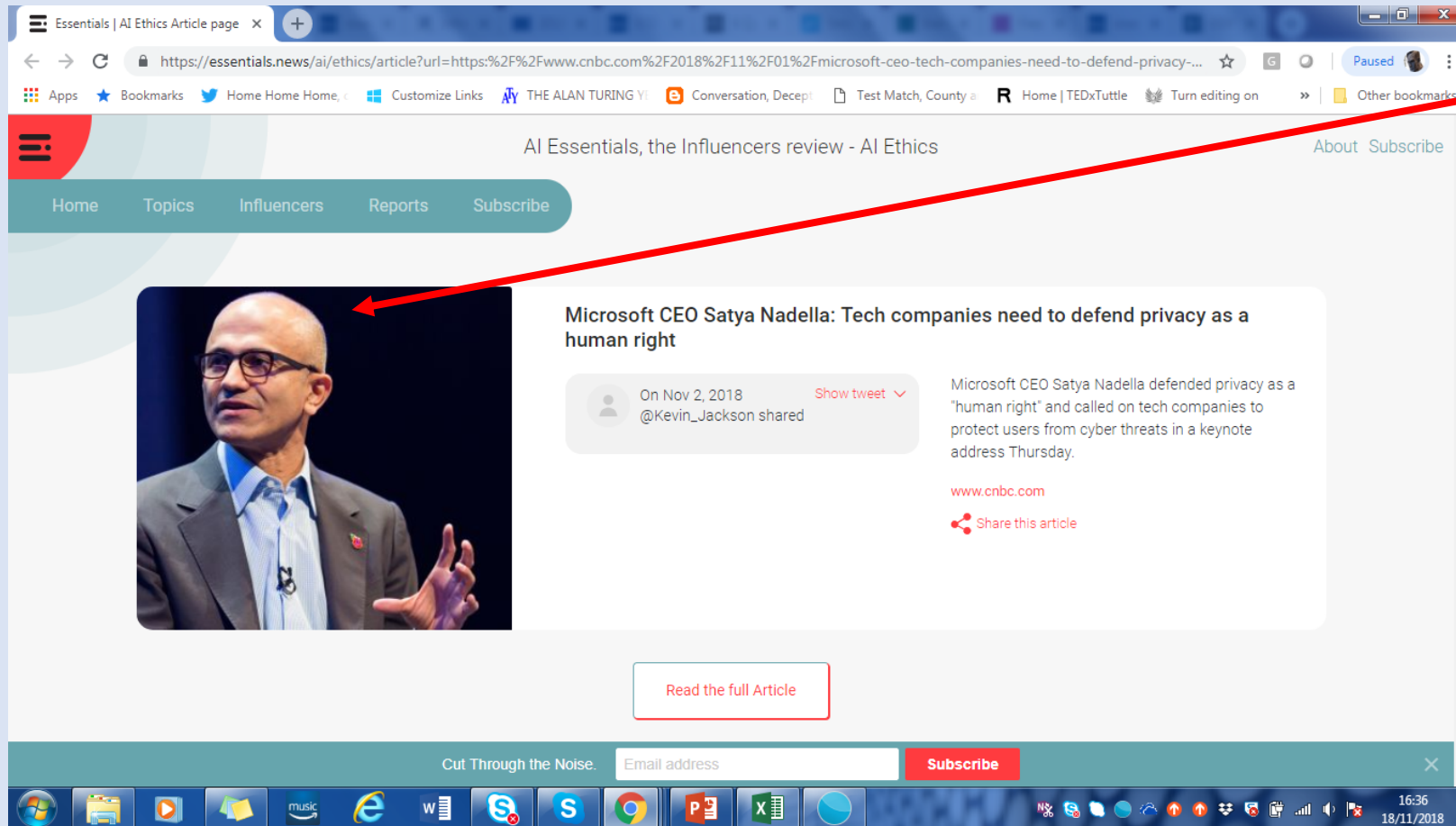
Zuboff, S. (2021). *Surveillance Capitalism*.
Online talk for the Harvard Carr Center for Human Rights Policy.
22 March, 2021

<https://www.youtube.com/watch?v=06mn8ZL2on0>

What about the GDPR?

- GDPR has “*baby teeth*”
(anonymous)

How is big tech addressing the problem?



**Microsoft CEO
Satya Nadella:**
- “Tech
companies
need to defend
privacy as a
human right”

ButMicrosoft Privacy Statement

- **“Microsoft collects data from you, through our interactions with you and through our products.** You provide some of this data directly, and we get some of it by collecting data about your interactions, use, and experiences with our products. The data we collect depends on the context of your interactions with Microsoft and the choices you make, including your privacy settings and the products and features you use. **We also obtain data about you from third parties.”**

<https://privacy.microsoft.com/en-US/privacystatement#mainnoticetoendusersmodule>

What about Google?

- Google snoops on you in *Incognito mode*
- Nayak and Rosenblatt (2021):
 - “Google failed to kill a lawsuit alleging that it secretly scoops up troves of internet data even if users browse in “Incognito” mode to keep their search activity private.”

Nayak, M. and Rosenblatt, J. (2021).

Google Must Face Suit Over Snooping on ‘Incognito’ Browsing
Bloomberg Technology.

<https://www.bloomberg.com/news/articles/2021-03-13/google-must-face-suit-over-snooping-on-incognito-browsing>

- Nayak and Rosenblatt (2021):
 - “The consumers who filed the case as a class action alleged that **even when they turn off data collection in Chrome, other Google tools used by websites end up amassing their personal information**. A federal judge ... denied the Alphabet Inc. unit’s initial request to throw out the case.”

Nayak, M. and Rosenblatt, J. (2021).
Google Must Face Suit Over Snooping on ‘Incognito’ Browsing
Bloomberg Technology.
<https://www.bloomberg.com/news/articles/2021-03-13/google-must-face-suit-over-snooping-on-incognito-browsing>

Not forgetting Facebook....

Facebook

- From Euronews (14.04.21)
 - Ireland's data protection authority has launched an inquiry into **Facebook** over a **breach of personal data**.
 - The **personal details of more than 530 million Facebook users were found available on a website for hackers last week**.
 - According to the cybercrime intelligence firm Hudson Rock, as many as **533 million Facebook accounts had their phone numbers, email addresses, and dates of birth compromised**.

From here: <https://bit.ly/3mOfIOM>

Facebook continued

- Tech Crunch (06.04.21)
 - “The exposed data includes the personal information of over 533M Facebook users from 106 countries, including:
 - More than **35 million** accounts in **Italy**
 - Over **32million** records on users in the **US**
 - Almost **20 million** accounts in **France**.
 - **11million** on users in the **UK**, and
 - **6 million** on users in **India**.
- The data dump includes phone numbers, Facebook IDs, full names, locations, birthdates, bios and some email addresses.

From here: <https://tcrn.ch/3sIJOkw>

Facebook continued

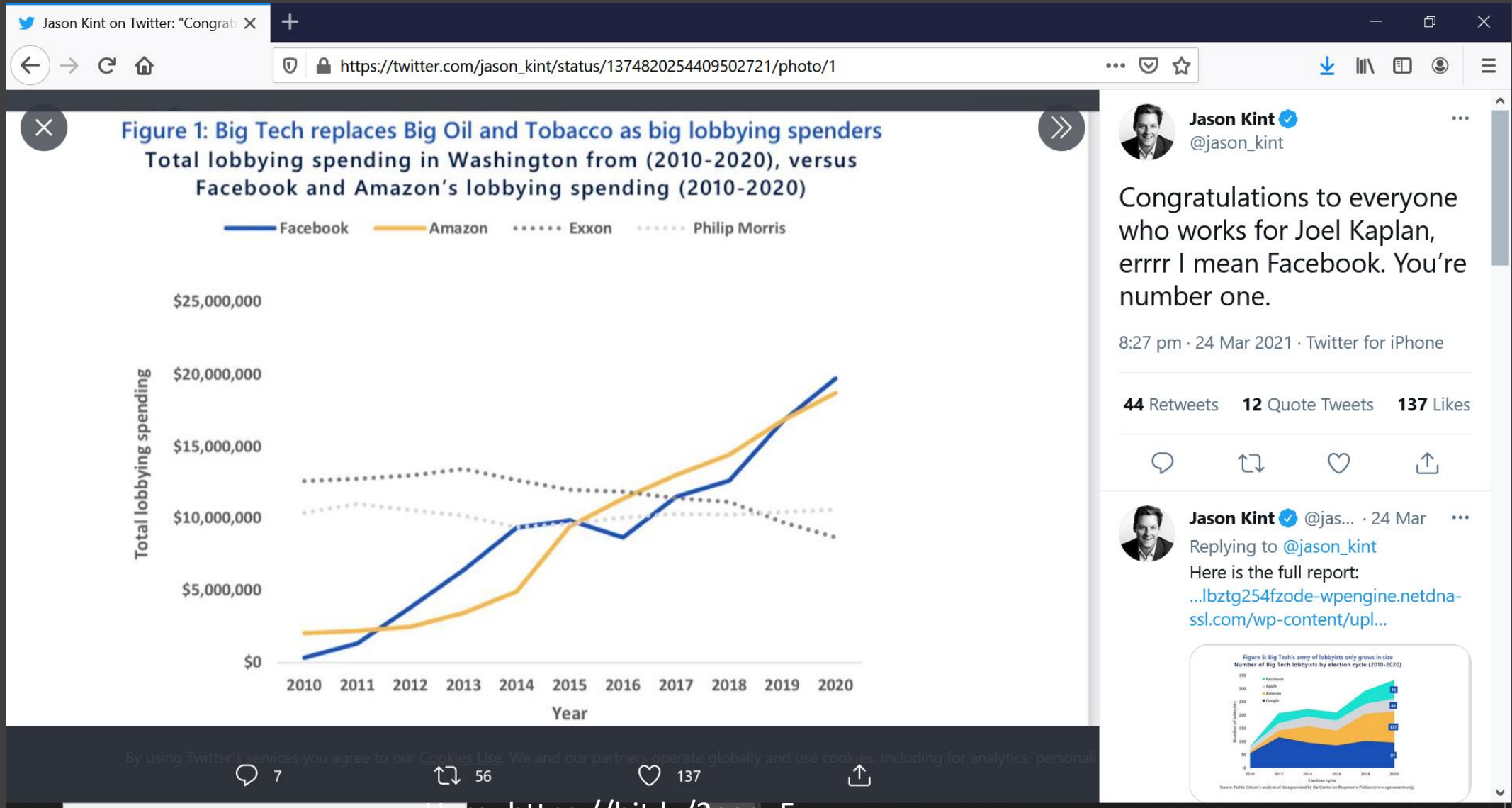
- On Wednesday 14 April:
 - Since Facebook's European headquarters are based in Dublin, the company answers to the Irish Data Protection Commission in the European Union.
 - Ireland's Data Protection Commission confirmed that they were investigating whether personal data rights had been infringed in the European Union.
- Facebook:
 - Widely criticised for failing to apologise for the hack, and not learning lessons from previous breaches. It is not clear if Facebook notified affected users at the time.
- Ireland's Data Protection Commission initially said it was working to establish the full facts of the incident, to check it was indeed from 2019, and added that they had received no proactive communication from Facebook.

From here: <https://bit.ly/3mOfIOM>

Facebook continued

- “The fallout from the massive personal data spill continues to affect **Facebook users**
- Their **information** is now **being openly offered for download on the internet** — opening them up to the risk of spam and phishing attacks and other forms of social engineering (such as for attempted identity theft).”
- From here: <https://tcrn.ch/3sIJOKw>

Big Tech lobbying graph From @jason_kint on Twitter



Here: <https://bit.ly/3acpuFw>


Threat to data protection from Websites

← → ↺ 🏠 <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home> 110% ⌵ ⌵ ⌵ ☰ 📄 👤 ≡

Cookies

This site uses cookies to offer you a better browsing experience. Find out more on [how we use cookies and how you can change your settings](#).

[I accept cookies](#) [I refuse cookies](#)



European Commission


Funding & tender opportunities

Single Electronic Data Interchange Area (SEDIA)

English [EN](#)

[Register](#) [Login](#)

[🏠](#) [SEARCH FUNDING & TENDERS ▼](#) [HOW TO PARTICIPATE ▼](#) [PROJECTS & RESULTS](#) [WORK AS AN EXPERT](#) [SUPPORT ▼](#)



The option to add new roles in an organization or in a project is currently unavailable. The technical team is working to fix this as soon as possible. We apologize for any inconvenience this may cause. [×](#)

Find calls for proposals and tenders

[ERA corona platform](#) [Brexit info](#)

[📄 Report fraud](#)

Search calls for proposals and tenders by keywords, programmes... [🔍 Search](#)

News

12 Mar, 2021



https://pagexray.fouanalytics.com/q/ec.europa.eu%2Finfo%2Ffunding-tenders%2Fopportunities%2Fportal%2Fs ...



SUBMIT

Last Scan

Other Requests: 48

Domain Graph



 europa.eu (23495ms)

EU web page analysis from: <https://pagexray.fouanalytics.com/>

No third-party cookies or requests on EU site according to *webbkoll* tool

Results for **ec.europa.eu**

2021-03-23 16:23:36 Etc/UTC [Check again](#)

HTTPS by default:	✓ Yes
Content Security Policy:	✗ Not implemented
Referrer Policy:	✗ Referrers leaked
Cookies:	2 (2 first-party; 0 third-party)
Third-party requests:	0
Server location:	Luxembourg — 2a01:7080:24:100::666:30 Look up

Checked URL: <http://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>
Final URL: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>

✓ HTTPS by default

`ec.europa.eu` uses HTTPS by default.

Chromium reports the following:

State	Title	Summary	Description
✓	Certificate	valid and trusted	The connection to this site is using a valid, trusted server certificate issued by GlobalSign Organization Validation CA - SHA256 - G2.
✓	Connection	secure connection	The connection to this site is encrypted and authenticated using TLS 1.3, X25519, and AES-128-GCM.

HTTPS encrypts nearly all information sent between a client and a web service. Properly configured, it guarantees three things:

- **Confidentiality.** The visitor's connection is encrypted, obscuring URLs, cookies, and other sensitive metadata.
- **Authenticity.** The visitor is talking to the "real" website, and not to an impersonator or through a "man-in-the-middle".
- **Integrity.** The data sent between the visitor and the website has not been tampered with or modified.

A plain HTTP connection can be easily monitored, modified, and impersonated. Every unencrypted HTTP request reveals information about a user's behavior, and the interception and tracking of unencrypted browsing has become commonplace.

EU Cookie banner gives choice but is a bit confusing

The screenshot shows a web browser displaying the EU Cookie banner at the top. The banner has a dark blue background with white text. It states: "Cookies" and "This site uses cookies to offer you a better browsing experience. Find out more on [how we use cookies and how you can change your settings](#)." Below this text are two buttons: "I accept cookies" and "I refuse cookies".

Below the cookie banner is the header of the "Funding & tender opportunities" portal. It features the European Commission logo on the left, the text "Funding & tender opportunities" and "Single Electronic Data Interchange Area (SEDIA)" in the center, and "English EN" with "Register" and "Login" buttons on the right.

A dark blue navigation bar contains a home icon and the following menu items: "SEARCH FUNDING & TENDERS", "HOW TO PARTICIPATE", "PROJECTS & RESULTS", "WORK AS AN EXPERT", and "SUPPORT".

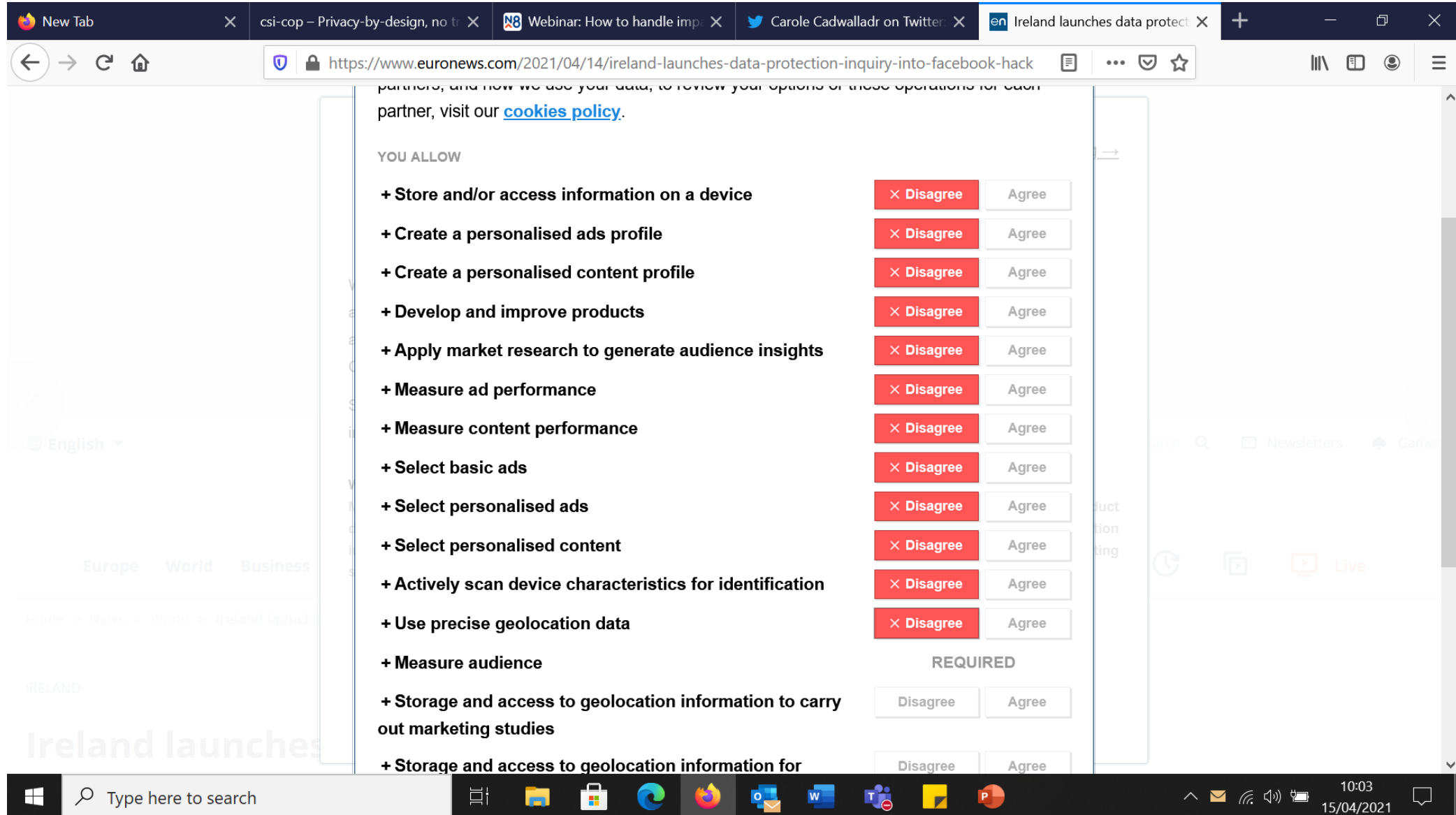
Below the navigation bar is an orange warning box with a white exclamation mark icon. The text inside reads: "The option to add new roles in an organization or in a project is currently unavailable. The technical team is working to fix this as soon as possible. We apologize for any inconvenience this may cause." There is a close button (X) in the top right corner of the box.

Below the warning box is a section titled "Find calls for proposals and tenders". It features a search bar with the placeholder text "Search calls for proposals and tenders by keywords, programmes..." and a yellow "Search" button. To the right of the search bar are two orange buttons: "ERA corona platform" and "Brexit info". Below these buttons is a red button with a white icon and the text "Report fraud".

Below the search bar is a "News" section with the date "12 Mar, 2021".

The bottom of the screenshot shows the Windows taskbar with the search bar "Type here to search" and various application icons. The system clock in the bottom right corner shows "19:33" and "22/03/2021".

Euronews: manually need to 'Disagree' for each cookie



The screenshot shows a web browser window with multiple tabs. The active tab is titled "Ireland launches data protection inquiry into facebook hack" and displays the URL "https://www.euronews.com/2021/04/14/ireland-launches-data-protection-inquiry-into-facebook-hack". A cookie consent banner is overlaid on the page, titled "YOU ALLOW". It lists various data processing activities, each with a red "Disagree" button and a grey "Agree" button. The activities include storing information on a device, creating personalized ads and content profiles, developing products, market research, ad and content performance measurement, selecting ads and content, scanning device characteristics, and geolocation data use. Below this list, under the heading "REQUIRED", are two more items: "Storage and access to geolocation information to carry out marketing studies" and "Storage and access to geolocation information for". The Windows taskbar at the bottom shows the time as 10:03 on 15/04/2021.

partners, and now we use your data, to review your options or those operations for each partner, visit our [cookies policy](#).

YOU ALLOW

+ Store and/or access information on a device	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Create a personalised ads profile	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Create a personalised content profile	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Develop and improve products	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Apply market research to generate audience insights	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Measure ad performance	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Measure content performance	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Select basic ads	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Select personalised ads	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Select personalised content	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Actively scan device characteristics for identification	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Use precise geolocation data	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Measure audience	REQUIRED	
+ Storage and access to geolocation information to carry out marketing studies	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>
+ Storage and access to geolocation information for	<input type="button" value="Disagree"/>	<input type="button" value="Agree"/>

GOV.UK

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🔒 https://www.gov.uk

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Tell us whether you accept cookies

We use [cookies to collect information](#) about how you use GOV.UK. We use this information to make the website work as well as possible and improve government services.

Accept all cookies

Set cookie preferences

 GOV.UK

→ [Coronavirus \(COVID-19\)](#) | National restrictions in England from 5 November

→ [Brexit transition](#) | Take action now for new rules in 2021

Welcome to GOV.UK

The best place to find government services and information

Simpler, clearer, faster

Search on GOV.UK

🔍

Popular on GOV.UK

[Coronavirus \(COVID-19\): restrictions in England](#)

[Travel advice: coronavirus \(COVID-19\)](#)

[Brexit transition: check the rules for January 2021](#)

Find a job

Reminder: Guest Synchrono... 11:42

Call is in progress. Click here to go back to the call screen.

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🔍 Type here to search

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13:17

20/11/2020

21



SUBMIT

<https://www.gov.uk/>

Last Scan

Date:

Time: 380ms

Adserver Requests: 0

Tracking Requests: 0

Other Requests: 19

2021-03-22T20:19:23.000Z

Domain Graph



www.gov.uk (510ms)



Type here to search



20:21

22/03/2021





Privacy

[Personal Information](#)[Privacy and Your Activity](#)[Children and Safety](#)[Beeb BETA](#)

What are you doing
with my information?

Do you share my
information with other
organisations?

Sharing information
with social media sites

How long will you keep
my information?

What are my rights?

Losing a loved one

What are you doing with my information?

Page updated: 2 June 2020

We use your personal information to make the BBC better for you and for everyone. That includes doing things like:

- Recommending things we think you'll enjoy, like TV and radio programmes
- Notifying you about things you've told us you like, for example a new series of your favourite TV show
- Personalising parts of the BBC to your tastes, including emails, radio, news, iPlayer and music

We also use it for business, regulatory and legal purposes, like:

- Dealing with any requests you make or content you submit
- Getting in touch if we need to tell you about something, like a change to our policies or issues with a service. Or to tell you if your BBC account hasn't been used in a long time and to ask if you'd still like to use it
- Identifying where you are and giving you the right version of the BBC for this area

We share some of your personal information with TV Licensing to check if you are using BBC iPlayer and to keep their database up to date. [Find out more about when you need a](#)

Results for **www.bbc.com**

Check again
2021-03-22 20:12:49 Etc/UTC
Checked URL: <http://www.bbc.co.uk>
Final URL: <https://www.bbc.com/>

HTTPS by default:	✓ Yes
Content Security Policy:	✗ Not implemented ⚠ Reports leaked
Referrer Policy:	✗ Referrers leaked
Cookies:	25 (14 first-party; 11 third-party)
Third-party requests:	264 requests to 47 unique hosts
Server location:	🇸🇪 Sweden — 151.101.84.81 Look up

✓ HTTPS by default

`www.bbc.com` uses HTTPS by default.

Chromium reports the following:

State	Title	Summary	Description
✓	Certificate	valid and trusted	The connection to this site is using a valid, trusted server certificate issued by GlobalSign RSA OV SSL CA 2018.

HTTPS encrypts nearly all information sent between a client and a web service. Properly configured, it guarantees three things:

- **Confidentiality.** The visitor's connection is encrypted, obscuring URLs, cookies, and other sensitive metadata.
- **Authenticity.** The visitor is talking to the "real" website, and not to an impersonator or through a "man-in-the-middle".
- **Integrity.** The data sent between the visitor and the website has not been tampered with or modified.

Results for https://www.bbc.com X

https://webbkoll.dataskydd.net/en/results?url=http%3A%2F%2Fwww.bbc.co.uk 67%

Third-party requests

264 requests (264 secure, 0 insecure) to 47 unique hosts.

A third-party request is a request to a domain that's not `bbc.com` or one of its subdomains.

Host	IP	Country	Classification	URLs
17398d157102aee85b73795b3857e8a5.safeframe.googleyndication.com	2a00:1450:400f:809::2001	IE	FingerprintingGeneral, Advertising (Google)	Show (1)
31eca98b85fd35e445f42c4f987c5196.safeframe.googleyndication.com	2a00:1450:400f:809::2001	IE	FingerprintingGeneral, Advertising (Google)	Show (1)
879d22470f2183988639b1e3546488a0.safeframe.googleyndication.com	2a00:1450:400f:809::2001	IE	FingerprintingGeneral, Advertising (Google)	Show (2)
a1.api.bbc.co.uk	52.208.190.178	IE		Show (10)
a4621041136.cdn.optimizely.com	2.17.162.89	SE	Analytics (Optimizely)	Show (1)
acdn.adnxs.com	23.60.27.146	SE	Advertising (AppNexus)	Show (2)
adservice.google.com	2a00:1450:400f:800::2002	IE	Content (Google)	Show (3)
adservice.google.com.ua	2a00:1450:400f:804::2002	IE	Content (Google)	Show (3)

Type here to search

20:14 22/03/2021

Condé Nast

New Tab X Moxie Marlinspike Has a Plan to X New Tab X

← → ↻ 🏠 https://www.newyorker.com/magazine/2020/10/26/taking-back-our-privacy?utm_source=pocket-new ... 📄 ⌵ ☆ 📖 📄 📄 ☰

Subscribe and get a free tote. »

News Books

PROFILES OCTOBER

TAKING BACK

CONDÉ NAST

List of IAB Vendors | [View Full Legal Text](#)

- Technically deliver ads or content [Always Active](#)

Your device can receive and send information that allows you to see and interact with ads and content.

List of IAB Vendors | [View Full Legal Text](#)

- + Match and combine offline data sources [Always Active](#)
- + Link different devices [Always Active](#)
- + Receive and use automatically-sent device characteristics for identification [Always Active](#)

[Confirm My Choices](#)

Powered by [OneTrust](#)

Newsletter Sign In [Subscribe](#) 🔍

Things On

[Subscribe](#)

Already a subscriber? [Sign in](#)

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10:20 29/10/2020 21

New Tab

Feed - A151CEM - AICE: Artif

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IAB TCF legal text | Cookiepedia

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https://www.wired.co.uk/article/university-covid-learning-student-monitoring?utm_source=pocket-newt

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🔍



The rise and fall of the Zoom penis
—
4 hours ago



The UK's post-Brexit space dream has turned into a nightmare
—
1 day ago

Privacy

Universitie
surveillance
students

Manage Consent Preferences

✕

⤴

Strictly Necessary Cookies

Always Active

These cookies are necessary for the website to function and cannot be switched off in our systems. They are usually only set in response to actions made by you which amount to a request for services, such as setting your privacy preferences, logging in or filling in forms. You can set your browser to block or alert you about these cookies, but some parts of the site will not then work. These cookies do not store any personally identifiable information.

Cookies Details

Performance Cookies

These cookies allow us to count visits and traffic sources so we can measure and improve the performance of our site. They help us to know which pages are the most and least popular and see how visitors move around the site. All information these cookies collect is aggregated and therefore anonymous. If you do not allow these cookies we will not know when you have visited our site, and will not be able to monitor its performance.

Cookies Details

Functional Cookies

These cookies enable the website to provide enhanced functionality and personalisation. They may be set by us or by third party providers whose services we have added to our pages. If you do not allow these cookies then some or all

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🔍 Type here to search

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09:48

22/10/2020

21

We use cookies to create a better experience for you

Insider Inc requires your consent for our trusted partners to store and access cookies, unique identifiers, personal data, and information on your browsing behaviour on this device. This applies to Insider Inc. sites only. Our partners use your data for:

Store and/or access information on a device ✓

Basic ads, personalised content, and ad measurement ✓

Personalised ads profile and display ✓

Content measurement, audience insights, and product development. ✓



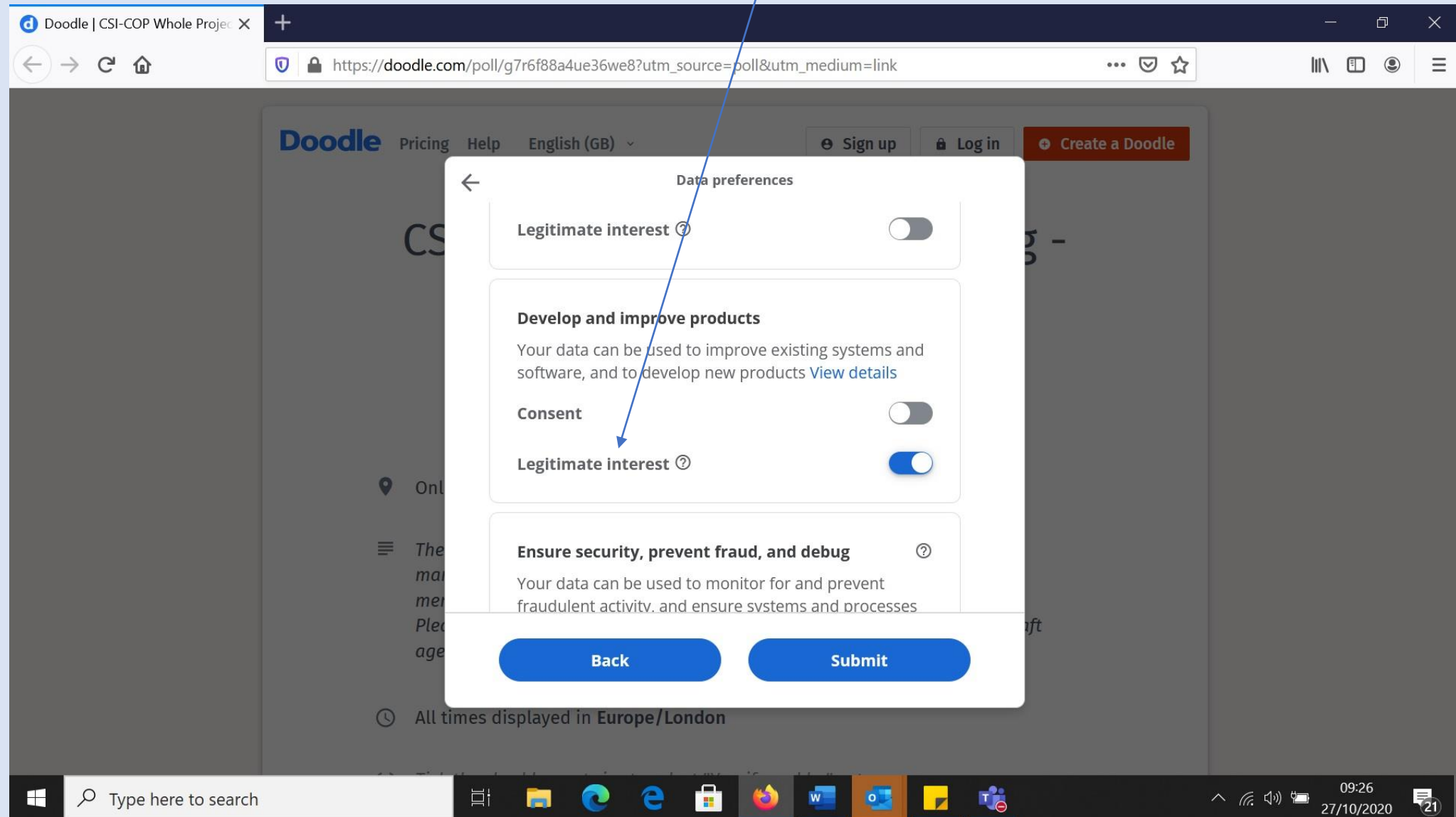
We'd like to send you
notifications with the latest
news and updates from
Business Insider

No Thanks

Allow



What is legitimate interest?? *Why is it defaulted to accept?*



The screenshot shows a web browser window with a Bloomberg article. A cookie consent overlay is displayed in the center, titled "Your choices regarding cookies on this site". The overlay explains that users can exercise choice and determine how their information is used. It lists several purposes for which cookies are used, each with a toggle switch and a dropdown menu:

- Select basic ads
- Create a personalised ads profile
- Measure ad performance
- Measure content performance
- Apply market research to generate audience insights
- Develop and improve products
- Bloomberg functional cookies

At the bottom of the overlay, there are three buttons: "Save & Close", "Accept All", and "Reject All". The "Reject All" button is highlighted with a tooltip that says "Reject All". The background of the browser shows the Bloomberg website with a large blue and red logo.

TechCrunch Legitimate Interest: default is 'On'

Browser tabs: New Tab, csi-cop – Privacy-by-design, no tr, Webinar: How to handle imp, Carole Cadwalladr on Twitter, TechCrunch is now a part of V

Address bar: https://consent.yahoo.com/v2/partners?sessionId=3_cc-session_fc739038-d638-4ca2-ac2e-a57a28ecf9cf

TechCrunch logo

process your data for these purposes. Get this toggle OFF to opt out from this purpose for partners who rely on legitimate interest.

View by purpose/feature

LEGITIMATE INTEREST: [Reject all](#) | CONSENT: [Accept all](#)

✓ Store and/or access information on a device		<input type="checkbox"/>	OFF
Cookies, device identifiers, or other information can be stored or accessed on your device for the purposes presented to you.			
✓ Select basic ads	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OFF
Ads can be shown to you based on the content you're viewing, the app you're using, your approximate location, or your device type.			
✓ Create a personalised ads profile	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OFF
A profile can be built about you and your interests to show you personalised ads that are relevant to you.			
✓ Select personalised ads	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OFF
Personalised ads can be shown to you based on a profile about you.			
✓ Create a personalised content profile	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Trackers in Apps

- Using [Exodus Privacy](#) tool to analyse trackers in Shazam app
 - [Shazam app](#) bought by **Apple Inc.** in 2018: identifies music /musician with a few seconds:
 - [Has 4 embedded trackers](#):
 - Facebook Analytics
 - Facebook log in
 - Google CrashLytics
 - Google Firebase Analytics
 - [Has 16 permissions](#), incl.
 - Access precise location (GPS and network-based)
 - Read the contents of your SD card



“The Internet is plagued with Trackers”*

*Privacy International

<https://privacyinternational.org/news-analysis/3188/taking-depression-test-online-go-ahead-theyre-listening>

- Dr. Arvind Narayanan leads *Princeton University's Web Transparency & Accountability Project* :

“The web is a cesspit of surveillance”

<https://www.cs.princeton.edu/~arvindn/>

<https://webtap.princeton.edu/>



GDPR is *toothless*

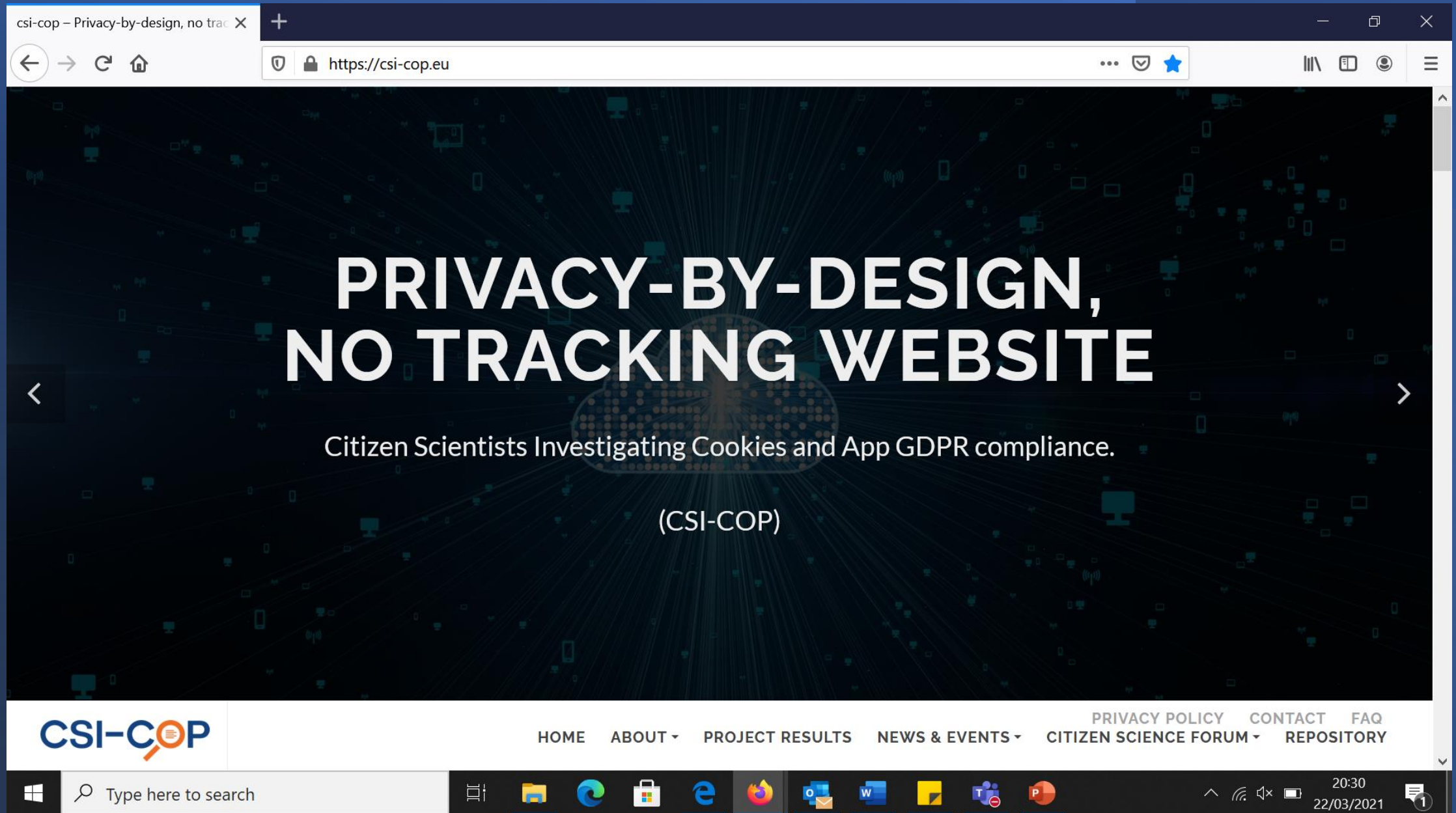
- “The world’s toughest privacy law proves toothless in the eyes of many critics.”
- “**A bureaucratic logjam** .. has delayed action on dozens of complaints including **alleged violations of GDPR** in Google's location tracking and privacy failures on behalf of Facebook, Amazon, Apple, Twitter and others, **prompting privacy activists to threaten legal action**”

Vinocur, N. (2019).

We have a huge problem: European tech regulator despairs over lack of enforcement

Politico Europe.

<https://politi.co/3e3yNbQ>



FouAnalytics - Ads By Domain

Results for https://csi-cop.eu/

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🔒 https://webbkoll.dataskydd.net/en/results?url=http%3A%2F%2Fcsi-cop.eu%2F

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webbkoll | dataskydd.net

News

About

FAQ

🌐 English

example.com

🔍

Results for **csi-cop.eu**

🔄 Check again

🕒 2021-03-22 20:33:33 Etc/UTC

Checked URL: <http://csi-cop.eu/>

Final URL: <https://csi-cop.eu/>

HTTPS by default:	✅ Yes
Content Security Policy:	❌ Implemented, but has problems
Referrer Policy:	⚠️ Referrers partially leaked
Cookies:	0
Third-party requests:	10 requests to 2 unique hosts
Server location:	🇬🇧 United Kingdom — 194.66.38.12 Look up

✅ **HTTPS by default**

`csi-cop.eu` uses HTTPS by default.

Chromium reports the following:

State	Title	Summary	Description
✅	Certificate	valid and trusted	The connection to this site is using a valid, trusted server certificate issued by Starfield Secure Certificate Authority - G2.
✅	Connection	secure connection	The connection to this site is encrypted and authenticated using TLS 1.3, X25519, and AES-128-GCM.

HTTPS encrypts nearly all information sent between a client and a web service. Properly configured, it guarantees three things:

- **Confidentiality.** The visitor's connection is encrypted, obscuring URLs, cookies, and other sensitive metadata.
- **Authenticity.** The visitor is talking to the "real" website, and not to an impersonator or through a "man-in-the-middle".
- **Integrity.** The data sent between the visitor and the website has not been tampered with or modified.

A plain HTTP connection can be easily monitored, modified, and impersonated. Every unencrypted HTTP request reveals information about a user's behavior, and the interception and tracking of unencrypted browsing has become commonplace.

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FouAnalytics - Ads By Domain

Results for https://csi-cop.eu/

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https://webbkoll.dataskydd.net/en/results?url=http%3A%2F%2Fcsi-cop.eu%2F

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This can be used to track and profile users by simply using JavaScript to read a user's storage data and send it to a server.

🔑 GDPR: Same as for [cookies](#) above.

Third-party requests

10 requests (10 secure, 0 insecure) to 2 unique hosts.

A third-party request is a request to a domain that's not `csi-cop.eu` or one of its subdomains.

Host	IP	Country	Classification	URLs
fonts.googleapis.com	2a00:1450:400f:80c::200a	IE	Content (Google)	🔍 Show (1)
🔒 https://fonts.googleapis.com/css?family=Lato:300,400,400i,700 Raleway:...				
fonts.gstatic.com	2a00:1450:400f:809::2003	IE	Content (Google)	🔍 Show (9)
🔒 https://fonts.gstatic.com/s/raleway/v19/1Ptxg8zYS_SKggPN4iEgynHyvveLxV...				
🔒 https://fonts.gstatic.com/s/lato/v17/S6uyw4BMUTPHjxAwXjeu.woff2				
🔒 https://fonts.gstatic.com/s/lato/v17/S6u9w4BMUTPHh7USSwiPGQ.woff2				
🔒 https://fonts.gstatic.com/s/raleway/v19/1Ptxg8zYS_SKggPN4iEgynHyvveLxV...				
🔒 https://fonts.gstatic.com/s/creteround/v9/55xqey1sJNPjPiv1ZZZrxK1-4b_o...				
🔒 https://fonts.gstatic.com/s/lato/v17/S6u9w4BMUTPHh6UVSwiPGQ.woff2				
🔒 https://fonts.gstatic.com/s/raleway/v19/1Ptxg8zYS_SKggPN4iEgynHyvveLxV...				
🔒 https://fonts.gstatic.com/s/raleway/v19/1Ptxg8zYS_SKggPN4iEgynHyvveLxV...				
🔒 https://fonts.gstatic.com/s/lato/v17/S6uyw4BMUTPHjx4wXg.woff2				

We use [Mozilla's version](#) of Disconnect's [open source list of trackers](#) to classify hosts.

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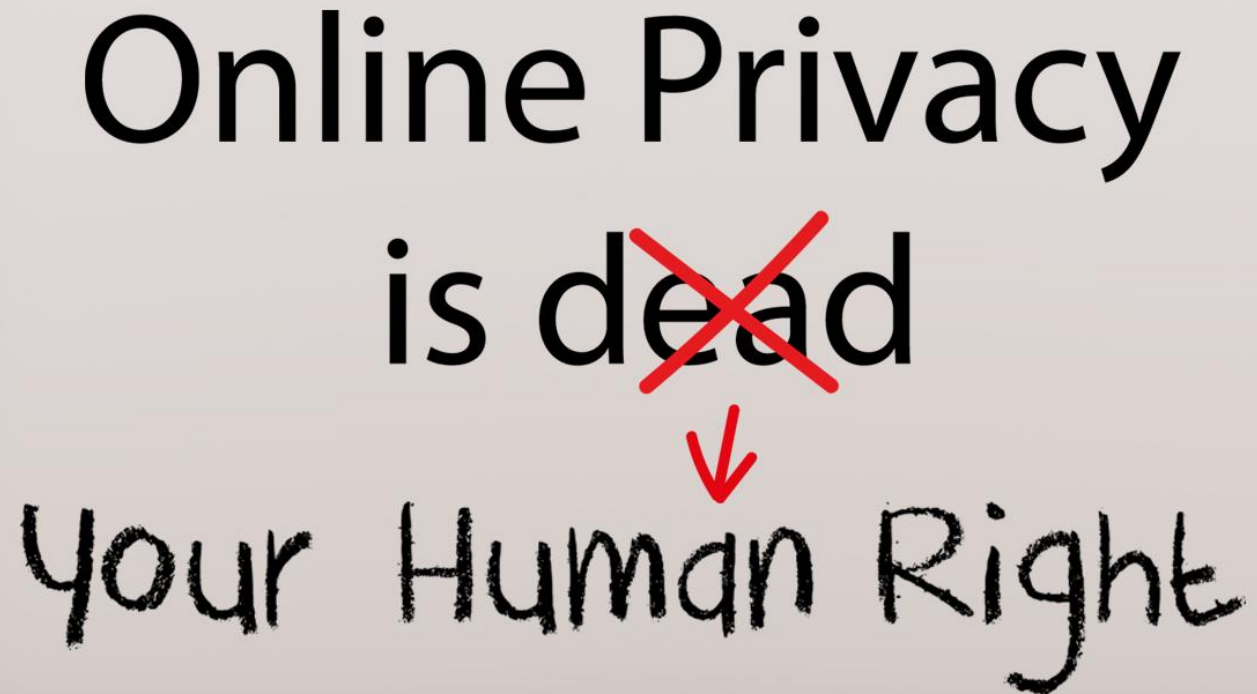
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How to involve citizen scientists to investigate GDPR in the CSI-COP Project

- Privacy should not be a “concern usually reserved for the rich” (p.53 in Christopher Wylie’s book *Mindf*ck*)
- Engage citizen scientists through ***experiential learning*** to join CSI-COP researchers recording digital trackers found in websites visited, and apps used
- Co-create open-access, searchable database of trackers found by CSI-COP citizen scientists (e.g. [Paradise Papers](#), UCL’s database of [British Slave-ownership](#))
- Speed up move to “privacy-browsing” (anonymous)



Online Privacy
is ~~dead~~
↓
Your Human Right

Thank you for listening

Contact: Dr. Huma Shah

ab7778@coventry.ac.uk

Project Twitter: [@cop_csi](#)

CSI-COP website registration page: <https://csi-cop.eu/citizenscientistlogin>