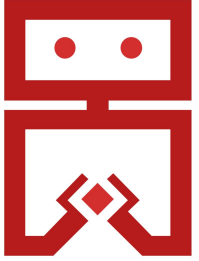


GDPR.observer



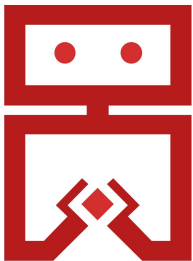
Hermes Center is an Italian NGO active since 2012 on the topics of **digital privacy, secure whistle-blowing** and **human rights in the digital sphere**. It produces software and develops campaigns and outreach.



The 2022 experience of **Monitora-PA** (In Italy)

It start as a pipeline with these specifications:

1. **Download a database of public agencies** names along with website address and contact email address of the DPO.
2. **Analyze each website and search for google-analytics.** Produce a short report and open data.
3. **Filter the dataset** from point 1, keep only the organizations/websites/emails that match the analysis of point 2.
4. **Send a notification email** to the DPO with a predefined template.
5. Measure and publish removal rate % each month.
6. Repeat from point 2.



The 2022 experience of **Monitora-PA** (In Italy)

```
(.venv) v :~/D/monitorapa main $ python3 cli/data/enti/download.py
```

```
out/enti/2023-02-03/enti.tsv
```

```
(.venv) v :~/D/monitorapa main $ cd out/enti/2023-02-03/
```

```
(.venv) v :~/D/monitorapa/out/enti/2023-02-03 main $ ls -l
```

```
total 7652
```

```
-rw-rw-r-- 1 v v 7822027 Feb  3 19:31 enti.tsv
```

```
-rw-rw-r-- 1 v v      5637 Feb  3 19:31 LICENSE.txt
```

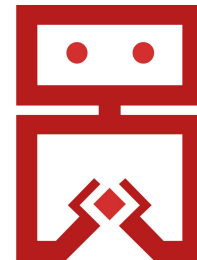
```
-rw-rw-r-- 1 v v      425 Feb  3 19:31 README.md
```

```
(.venv) v :~/D/monitorapa/out/enti/2023-02-03 main $ wc -l enti.tsv
```

```
22902 enti.tsv
```

7833 with Google Analytics!

The 2022 experience of **Monitora-PA**: impact



It was also possible because of **two italian perks**

- Exists a national list of all the public agencies, with website and DPO mail address, maintained by AgID.

About us

The Agenzia per l'Italia Digitale - Agency for Digital Italy (AgID) is the technical agency of the Presidency of the Council of Ministers.

The main purpose of the Agency is to guarantee the achievement of the Italian digital agenda objectives and contribute to the diffusion of information and communication technologies, with the aim of fostering innovation and economic growth.

It was also possible because of **two italian perks**

- Exists an email compatible protocol that bound a public official to consider the content of the email (PEC). This has been used to send notifications.

Certified email

Article [Talk](#)

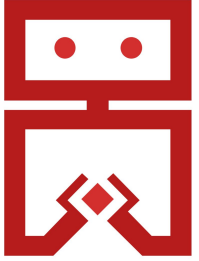
 [Language](#)

 [Watch](#)  [Edit](#)

For the whitelisting technique employed by certain internet service providers, see [Whitelist § Commercial whitelists](#).

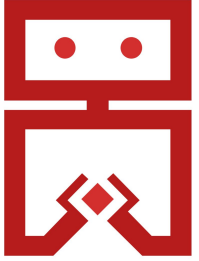
Certified email (known as ***Posta elettronica certificata*** in Italy, or ***PEC*** in short) is a special type of [email](#) in use in [Italy](#),^[1] [Switzerland](#),^[2] [Hong Kong](#)^[3] and [Germany](#).^[4] Certified email is meant to provide a legal equivalent of the traditional [registered mail](#), where by paying a small fee, users are able to legally prove that a given email has been sent and received.

Registered mail is mainly used in [Italy](#),^[5] but there are present efforts to extend its legal validity according to the framework of the [European Union](#).^[6]



Lessons learnt from **Monitora-PA**

- The Data Protection Authority don't have the capacity to follow up.
- It has also been influential in suggesting technologies to replace Google's services and promote free software alternatives.
- Outreach its achieved also by the sending of thousands of compliance-breach notifications (“good purpose spam”).



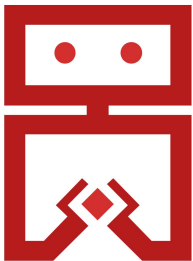
Lessons learnt from **Monitora-PA**

- The DPA issued a statement
 - This was the key
- Technical criticism and quirks
 - See next slide
- Fostered the market for alternatives
 - Still unclear how much we should play a role

The project was first designed by the Hermes Center and then developed by a diverse group of privacy activists.

<https://github.com/MonitoraPA/monitorapa>

The 2022 experience of **Monitora-PA**: impact



bias

Improvements to
detection software

Abstraction of **Monitora-PA** in an European Perspective

- We want to **replicate the Italian experience in all EU Member States**.
- Given the lesson learnt, **we can separate the technological effort** and offer a pipeline for use by individuals, NGOs, or even DPAs themselves.
- We enable national stakeholders without the technical-operational complexity.

We	Execute weekly GDPR-compliant tests	Publish open data and software interfaces	Manage mass mailing complaint on behalf of national partners
National partner(s)	Provide public agencies websites list with email contacts (DPO)	Promote and advocate nationally the results with awareness campaigns	Write content fitting their advocacy strategy. Issue formal complaints to national DPA.

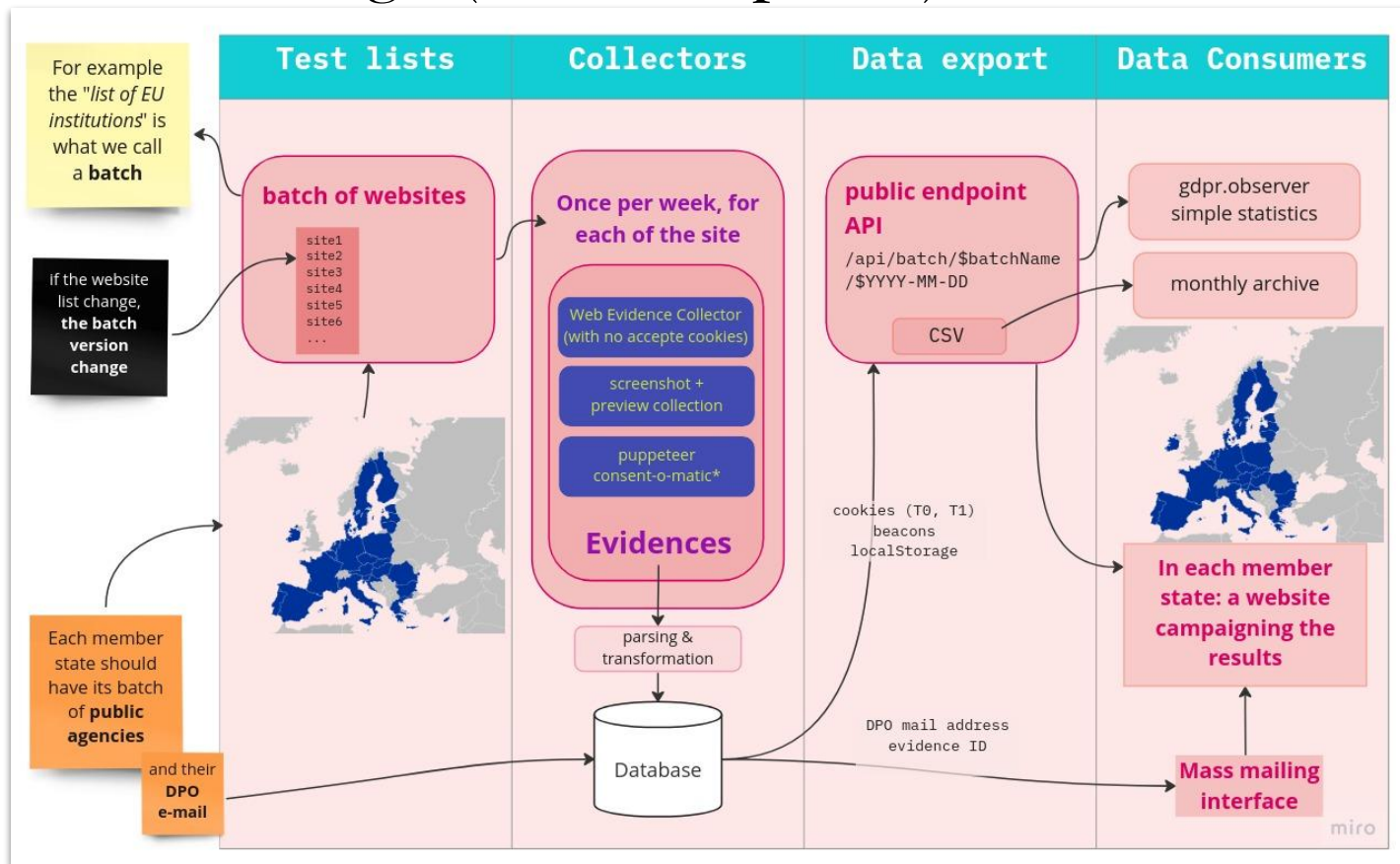
GDPR.observer

It is a free software-based **infrastructure**.

It **supports many observatories** to ensure that EU Member State institutions are **GDPR**-compliant.

Focus on: web-trackers, informed consent, transport security, cloud location, cookies, and more.

Architecture design (research phase)



Architecture design (first experiments)

Test lists

Collectors

Data export

Data Consumers

```
"European Parliament":  
  site: "https://www.europarl.europa.eu/portal/en"  
  
"European Commission":  
  site: "https://commission.europa.eu/index_pl"  
  
"Court of Auditors":  
  site: "https://www.eca.europa.eu/es/Pages/ecadefault.aspx"  
  
"Council of the European Union":  
  site: "https://www.coe.int"  
  
"European Economic and Social Committee (EESC)":  
  site: "https://www.eesc.europa.eu"  
  selector: '.agree-button'  
  dpo: 'todo@email.mail'  
  
...
```

```
v :~/D/gdpr.observer$ time bin/collect-with-wec.mjs --country EUI --source  
input/eui-30.json 2>&1 >&/tmp/collect-with-wec9.log
```

```
real    8m27.698s  
user    1m41.130s  
sys     0m14.863s
```

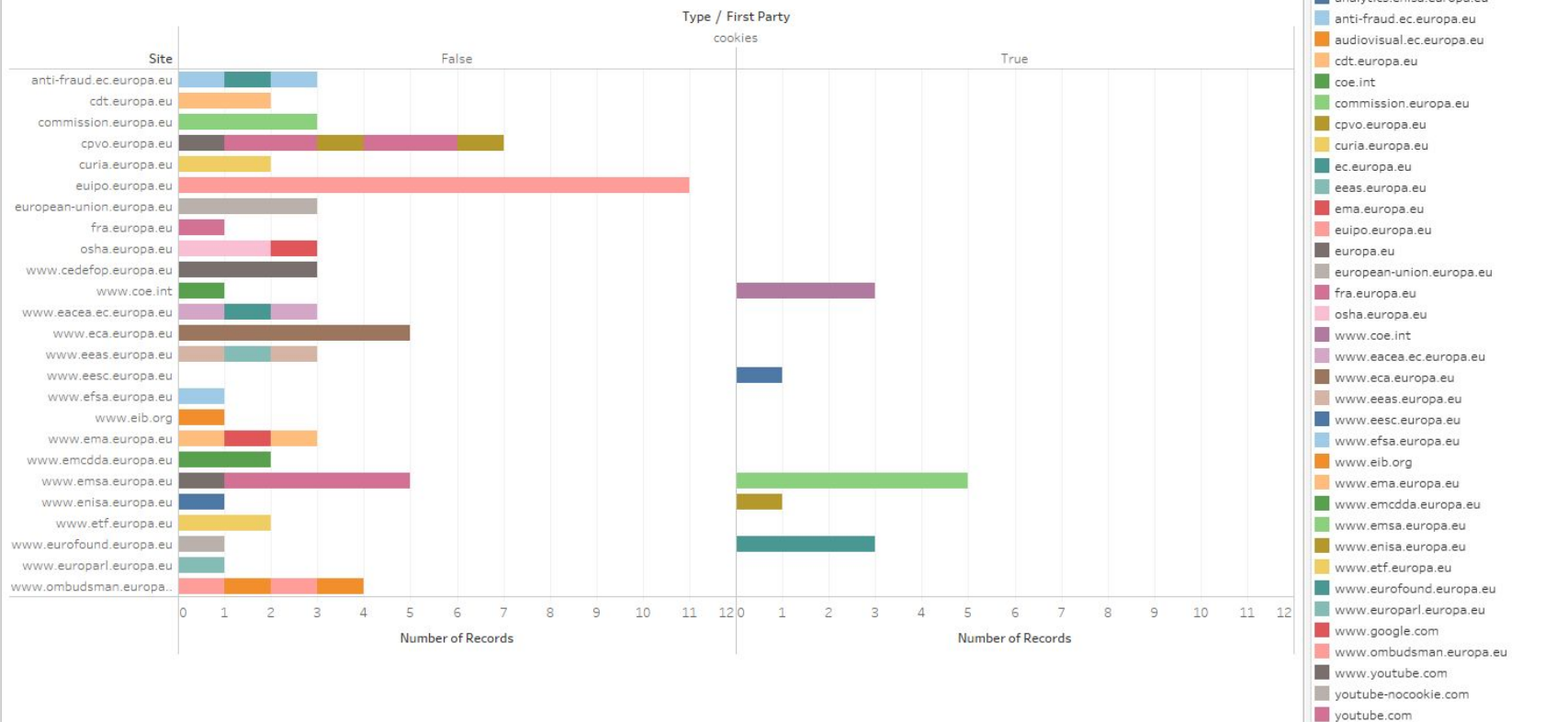
Beacons before consent

Site	Url
osha.europa.eu	https://osha.europa.eu/modules/contrib/eu_cookie_compliance/js/eu_cookie_compliance.m...
	https://osha.europa.eu/sites/default/files/styles/large/public/2021-03/flickr-icon.png?tok=...
	https://osha.europa.eu/sites/default/files/styles/large/public/2021-03/footer-facebook-new...
	https://osha.europa.eu/sites/default/files/styles/large/public/2021-03/footer-youtube-new...
	https://osha.europa.eu/sites/default/files/styles/large/public/2021-03/co-twitter.png?tok=...
	https://osha.europa.eu/sites/default/files/styles/large/public/2021-03/youtube-icon.png?ito...
	https://piwik.osha.europa.eu/piwik/matomo.js
	https://piwik.osha.europa.eu/piwik/matomo.php?action_name=European%20Agency%20fo...
	https://piwik.osha.europa.eu/piwik/plugins/HeatmapSessionRecording/configs.php?idsite=...
	https://platform.twitter.com/js/timeline.16b53cc33aaa562f841a495bf720289.js
www.cedefop.europa.eu	https://platform.twitter.com/widgets/widget_iframe.2b2d73daf636805223fb11d48f3e94f...
	https://syndication.twitter.com/vjot?l=78%22_category_%22%3A%22tfw_client_event...
	https://embed.twitcher.com/ticker/CedWebPortal.js
	https://webstats.cedefop.europa.eu/matomo.js
	https://webstats.cedefop.europa.eu/matomo.php?action_name=CEDEFOP%20%7C%20Euro...
www.coe.int	https://www.cedefop.europa.eu/modules/contrib/eu_cookie_compliance/js/eu_cookie_com...
	https://www.google-analytics.com/analytics.js
	https://www.google-analytics.com/js/collect?v=1&_v=j998aip=1&a=1204667478&t=pagevie...
	https://www.googletagmanager.com/gtag/js?id=UA-4456942-4
	https://static.coe.int/pics/theme/coe-2014/footer/icon-facebook.png
	https://static.coe.int/pics/theme/coe-2014/footer/icon-flickr.png
	https://static.coe.int/pics/theme/coe-2014/footer/icon-twitter.png
	https://static.coe.int/pics/theme/coe-2014/footer/icon-youtube.png
	https://static.coe.int/pics/theme/coe-2014/share/icon-facebook-rounded.png
	https://static.coe.int/pics/theme/coe-2014/share/icon-linkedin-rounded.png
www.eacea.ec.europa.eu	https://static.coe.int/pics/theme/coe-2014/share/icon-share.png
	https://static.coe.int/pics/theme/coe-2014/share/icon-twitter-rounded.png
	https://www.facebook.com/tr/?id=1013102268891157&ev=fb_page_view&dl=https%3A%2...
www.eca.europa.eu	https://www.facebook.com/v10.0/plugins/page.php?adapt_container_width=true&app_id=...
	https://webanalytics.europa.eu/ppms.js
	https://webanalytics.europa.eu/ppms.php?action_name=EACEA&idsite=e546631c-9ccd-454...
	https://cdn.matomo.cloud/eca.matomo.cloud/matomo.js

```
https://eca.matomo.cloud/matomo.php?action_name=Home%20%7C%20TRIBUNAL%20DE...  
https://www.eca.europa.eu/en/Publishing/images/icons/rss.png  
https://www.eca.europa.eu/Style%20Library/eucookielaw.css?rev=20170713
```

Architecture design (first experiments)

Cookies before consent



Action plan

- Complete the website with some informative material.
- Keep repeating the test on weekly basis, and complete performance measurement.
 - How much disk we need, how many sites we can quickly test, performances, reliability.
- Assist the *early adopters* and understand **how much is it replicable outside of Italy**.

Next steps

1. Extend and stabilize first full batch of GDPR-compliance tests.
2. Prepare outreach material for partners
3. Extend and support localization and collaborative improvement of Consent automation.
4. Improve third party integration to easily consume results (analyze, visualize, etc).
5. Integrate with airtable to pull and update results.
6. Advice GDPR-compliant and digitally sovereign IT tools commonly used by public agencies (e.g. analytics, fonts, ...)

Thanks for listening

Claudio Agosti
claudio.agosti@hermescenter.org

<https://gdpr.observer>



Hermes Center is an Italian NGO active since 2012 on the topics of **digital privacy**, **secure whistle-blowing** and **human rights in the digital sphere**. It produces software and develops campaigns and outreach.


Technical Challenges

- Automatic reliable consent-clicker is challenging:
 - Language dependent (different language require national partner review/cooperation)
 - **Consent-O-Matic** plugin provide a good design pattern and framework
- Each website analyzed may require deeper scanning of multiple web pages to identify GDPR compliance issues (not always triggered in main homepage)
 - Or engage with supporters that navigates on website (data donation model)

Technical Challenges

- Find programmatically the DPO name and email

An official website of the European Union How do you know? ▼

 **European Economic and Social Committee**

English ▼

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[About](#) [Our work](#) [Policies](#) [Agenda](#) [News & Media](#) [Members & Groups](#) [Sections & Other Bodies](#)

EESC stands with Ukraine – organised civil society in solidarity and action

[HOME](#) | [CONTACT FORM](#)

Contact Form

This page is also available in [bg](#) [cs](#) [da](#) [de](#) [el](#) [es](#) [et](#) [fi](#) [fr](#) [ga](#) [hr](#) [hu](#) [it](#) [lt](#) [lv](#) [mt](#) [nl](#) [pl](#) [pt](#) [ro](#) [sk](#) [sl](#) [sv](#)

Department

Contact Person/Group *

EESC data protection ▼

Personal Details

First Name *

Enter your First Name here

Existing limit in current analysis method

DevTools - www.eib.org/en/global/index.htm

Elements Console Sources Network Performance Memory Application Security Lighthouse Recorder Performance insights

Filter

Only show cookies with an issue

Name	Value	Domain	P..	Expires / Max...
NID	511=VZRbG5sUaeW0_TGY2qPXSqPKCiDzEMzfSduwxt3dgmC...	.google.com	/	2023-07-17T...
__Secure-ENID	10.SE=OsvgZ_kNMYfGnUwrxUZoSXNQ0dp_274r9ZX5f0hQba...	.google.com	/	2023-08-21T...
SOCS	CAESHwgCEhJnd3NfMjAyMjA3MTMtMF9SQzlaBXB0LVBUIAE...	.google.com	/	2023-08-20T...
CONSENT	PENDING+610	.google.com	/	2024-06-27T...
AEC	ARSKqsIJKw20QoUss3kamvolOrbu4iKiUD3eK4cS1JPpLkuKK4...	.google.com	/	2023-07-22T...
cookie-popup-second-dev	true	www.eib.org	/	2023-04-28T...
cookie-popup-dev	notShow	www.eib.org	/	2023-04-28T...
cookie-policy	true	www.eib.org	/	2023-02-27T...
eib_ec	true	www.eib.org	/	2023-02-27T...
_GRECAPTCHA	09AJ4Tk-6E_8E15bsu_gR4pZ7NTBy7KFbNj3U6gOMOUaQGNS...	www.google.com	/	2023-06-18T...
OTZ	6869439_56_56_56_	www.google.com	/	2023-02-22T...

Session Storage

- https://www.eib.org/
- https://e.infogram.com
- https://e.infogram.com
- https://e.infogram.com
- https://e.infogram.com
- https://e.infogram.com
- https://e.infogram.com
- https://my.visme.co
- https://a.visme.co

IndexedDB

Web SQL

Cookies

- https://www.eib.org
- https://e.infogram.com
- https://my.visme.co
- https://a.visme.co

Trust Tokens

Interest Groups

Existing technical limit in current analysis method:

The screenshot shows the EESC website with a uMatrix overlay. The website header includes the EESC logo and navigation links: About, Our work, Policies, Agenda, and News & Media. A blue banner reads "EESC stands with Ukraine – organised civil society in solidarity and action". Below this is a language selector with options: bg, cs, da, de, el, es, et, fi, fr, ga, hr, hu, it, lt, lv, mt, nl, pl, pt, ro, sk, sl, sv. The main content area is titled "Members & Groups" and contains text about the EESC's 329 members and their roles.

The uMatrix overlay displays tracking data for the website. The table below shows the data for the domains listed in the red box.

Domain	all	cookie	css	image	media	script	XHR	frame	other
europa.eu	2	2				2	3		
eesc.europa.eu									
webstats.eesc.europa.eu						1			1
www.eesc.europa.eu	4	10	4			37	2		
cloudflare.com									
cdnjs.cloudflare.com		1							
fonts.googleapis.com		1							
gstatic.com									
fonts.gstatic.com		2							