



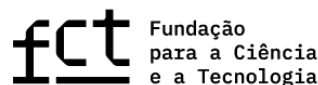
# Renascer Project Brings Back Old Websites at Arquivo.pt

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ARQUIVO.PT

[arquivo.pt](http://arquivo.pt)

# Arquivo.pt

- **Free online** service to research the Past Web
- Preserves **publicly accessible** information related with:
  - Portugal
  - **Research and Education** (international)
- Governmental service provided by Foundation for Science and Technology (Portugal)
- A digital research infrastructure
- Available at <https://arquivo.pt/>



# Goal

Show how Arquivo.pt created **a new service** for the community and started by doing **internal advocacy**

# Agenda

1. What happens to old websites in organizations
2. How are websites Reborn?
3. From internal advocacy to offering a new service to the community
4. Arquivo.pt Memorial

# 1- What happens to old websites in organizations

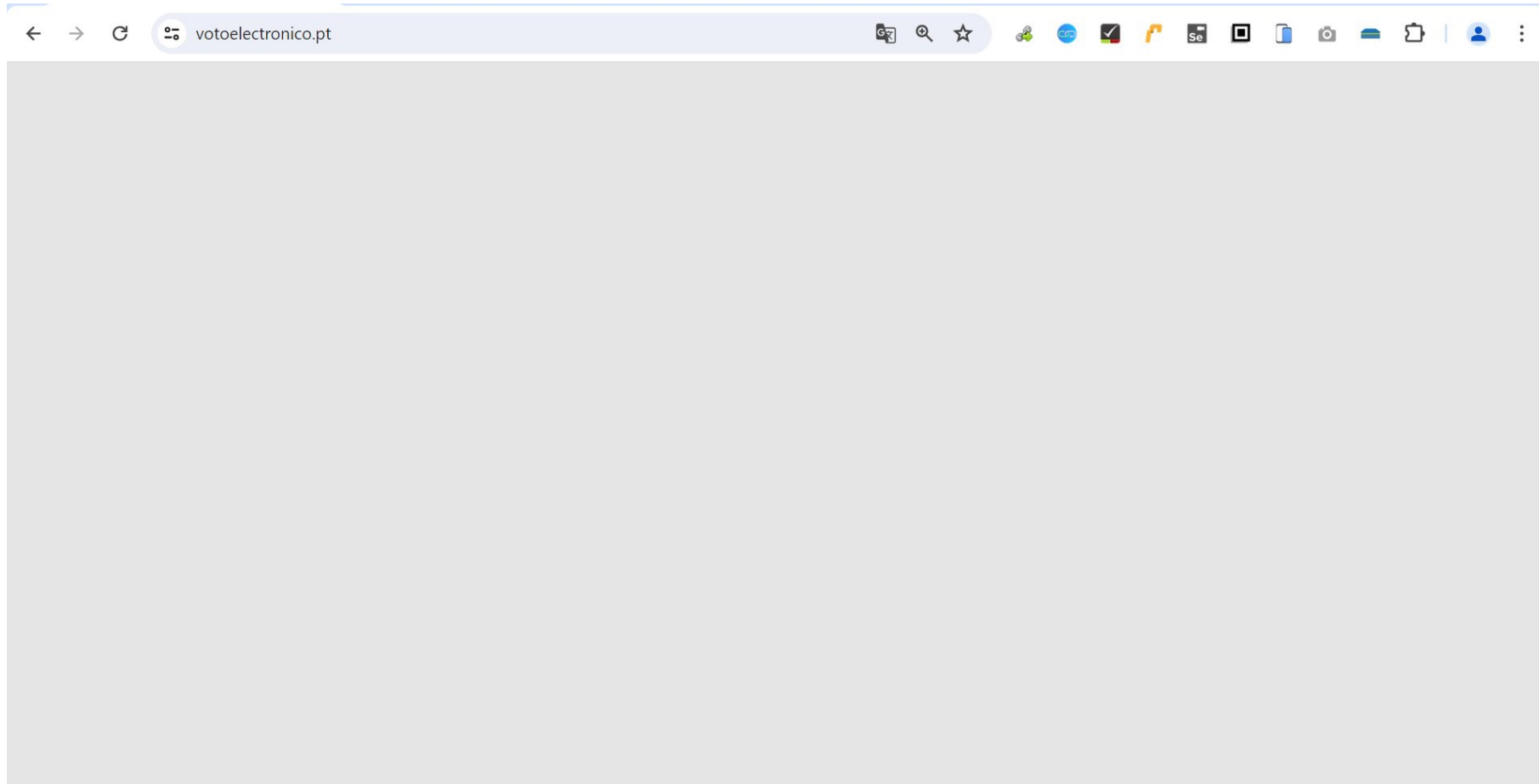
# 1 - What happens to old websites in organizations

Replay on the OldWeb.Today emulator



“Voto electrónico” or “Electronic voting” in Portugal, [votoelectronico.pt](https://votoelectronico.pt), 2004

# 1 - What happens to old websites in organizations

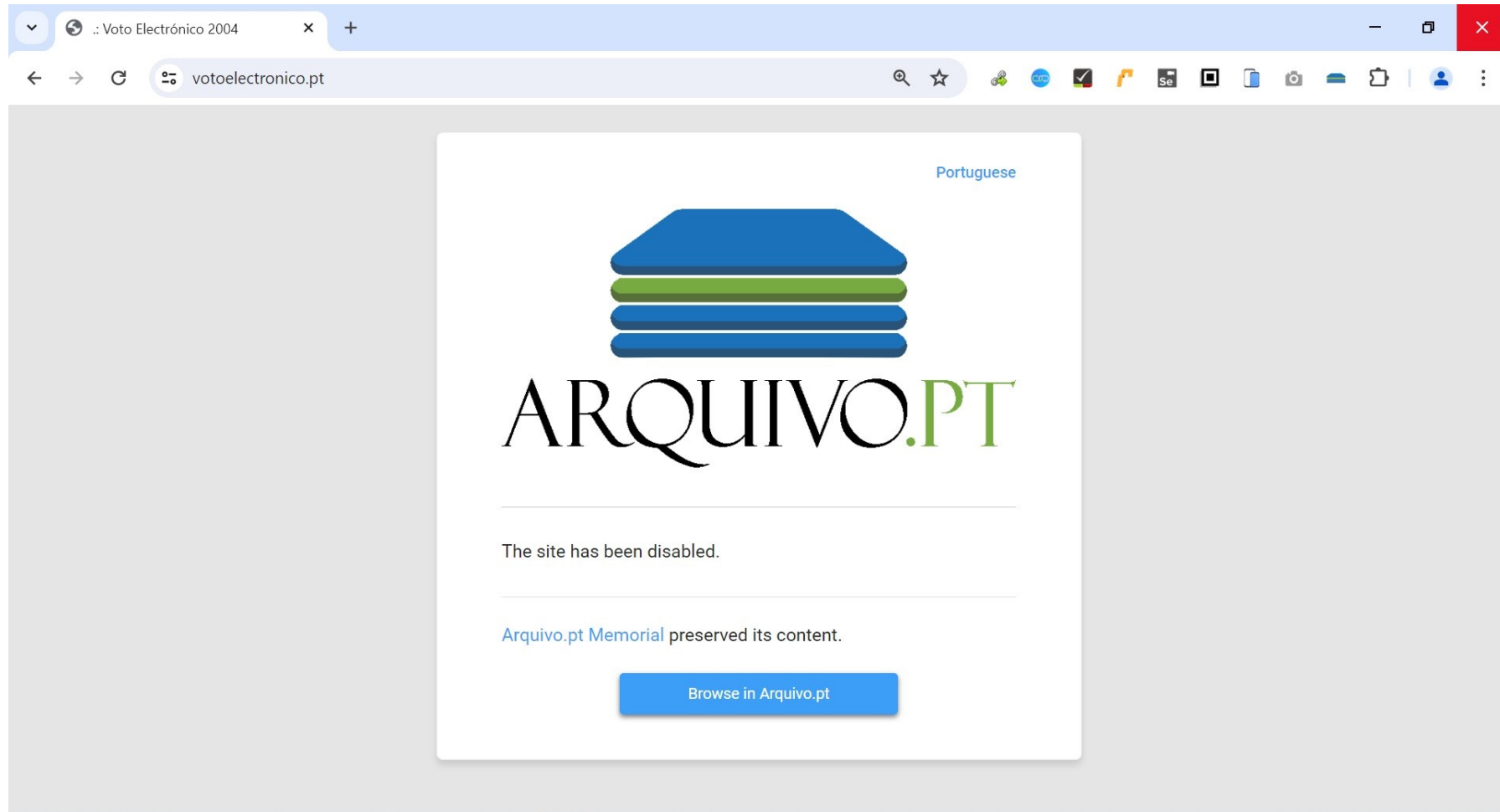


2008

In 2008 the website content was deactivated, but **the domain was maintained** by the owner.



# 1 - What happens to old websites in organizations



2023

In 2023, the Renascer project **brought back** the website [votoelectronico.pt](https://votoelectronico.pt)

# 1 - What happens to old websites in organizations



ARQUIVO.PT

Links  
Frequently Asked Questions and Glossary  
Contacts

VOTO ELECTRÓNICO 2004

2023

↓

- Project Presentation
- Participating Entities
- Experiment Results
- News
- Demonstration
- Documentation
- Electronic Voting Experiences

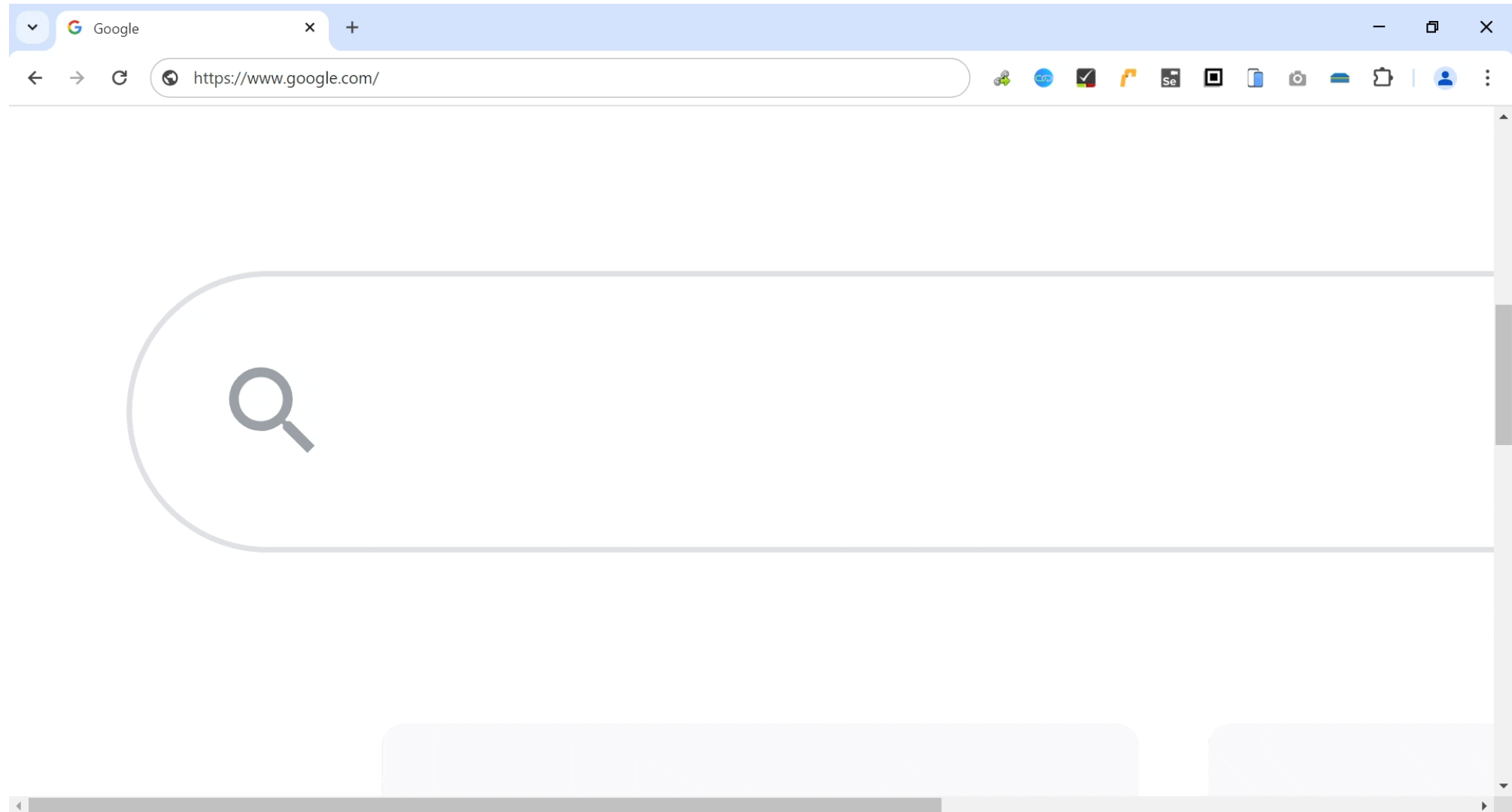


On the 13th, the first electronic voting experience took place in nine parishes from north to south of Portugal. The initiative was “very positive and encouraging”, according to Diogo Vasconcelos, manager of UMIC. 9,359 voters participated in this pilot project.

This non-binding vote using new technologies may, in the future, make voting “more convenient”, combating the demobilization of voters and allowing the “deepening of democracy”.

In 2023, the Renascer project **brought back** the website [votoelectronico.pt](http://votoelectronico.pt)

# 1 - What happens to old websites in organizations



## Why organizations keep their website domains?

- Simply forgetting
- Future use
- **Security reasons**

# 1 - What happens to old websites in organizations

2005@Arquivo.pt



[vivapraia.com](http://vivapraia.com)

2021@Arquivo.pt

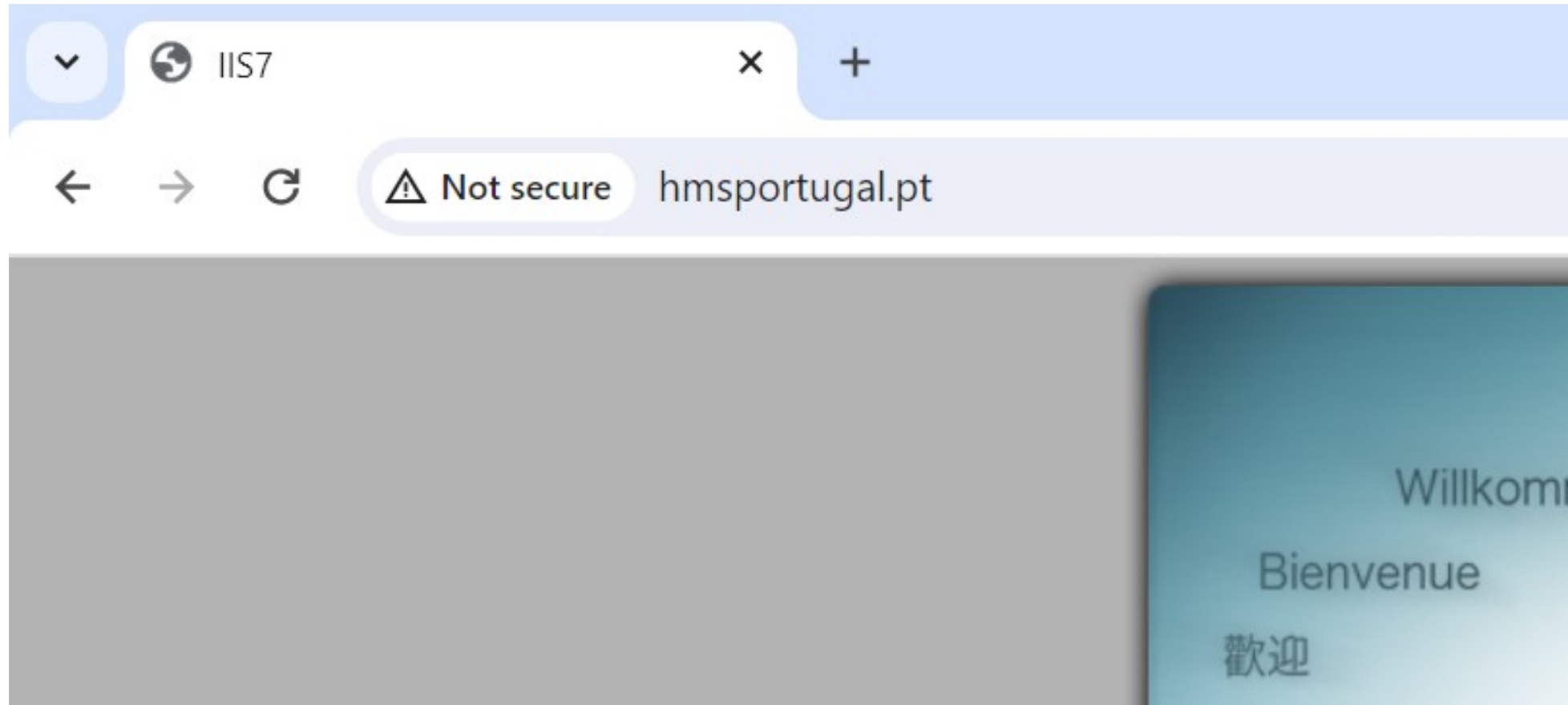


# 1 - What happens to old websites in organizations



The Harvard Medical School-Portugal, [www.hmsportugal.pt](http://www.hmsportugal.pt), April 2024.

# 1 - What happens to old websites in organizations



The Harvard Medical School-Portugal, [www.hmsportugal.pt](http://www.hmsportugal.pt), April 2024.

## 2- How are websites Reborn?



# 2 - How are websites Reborn?



Cimeira Lisboa OTAN 2010



Dislike Bullying Homofobico



NATO Medical Conference 2009



PEPAL – Programa de Estágios Profissionais na Administração Local



Dia Nacional do Mar. Portugal 2006, 16 de Novembro



Missão Venezuela 2008



Religare. Estrutura de Missão para o diálogo com as religiões



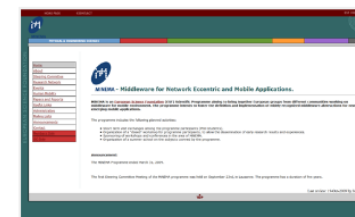
Disaster recovery



Knetwork. Dissemination and Networks of Knowledge in Atlantic Area



Interreg III B – Redes do Conhecimento e Conhecimento em Rede

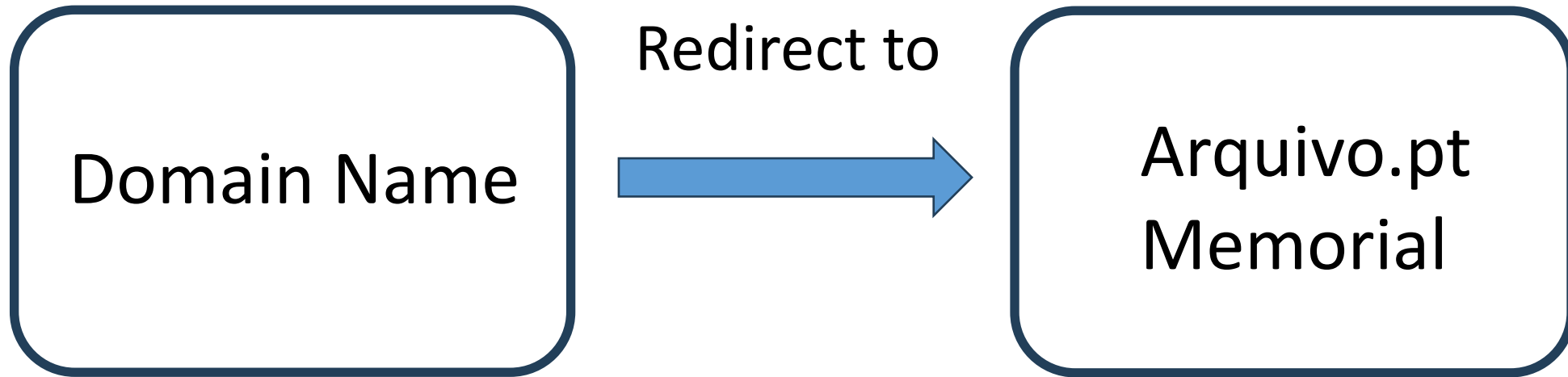


MiNEMA – Middleware for Network Eccentric and Mobile Applications



Visibilidade.net

## 2 - How are websites Reborn?



Example: votoelectronico.pt



historical version

memorial.arquivo.pt

# The domain owner just needs to redirect it to Arquivo.pt

Example em IPv4:

```
$ dig a votoelectronico.pt
...
;; ANSWER SECTION:
votoelectronico.pt. 6772 IN A
194.210.235.13
...
```

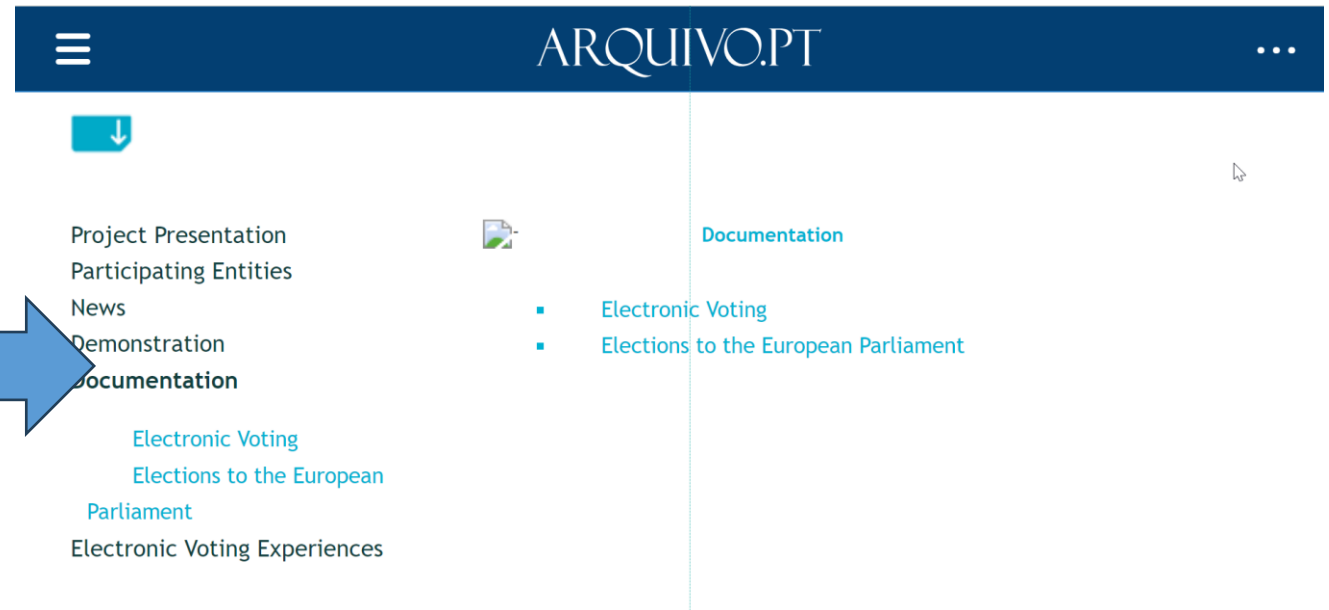
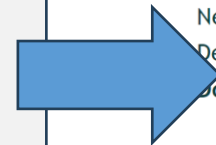
Example em IPv6:

```
$ dig aaaa votoelectronico.pt
...
;; ANSWER SECTION:
votoelectronico.pt. 10800 IN AAAA
2001:690:a00:1039::13...
```

## 2 - How are websites Reborn?

All the links from other websites are also reactivated

<http://www.votoelectronico.pt/documentacao/index.aspx>



The screenshot shows the ARQUIVO.PT website interface. The header is dark blue with the text "ARQUIVO.PT" and a hamburger menu icon on the left and a three-dot menu icon on the right. Below the header, there is a teal arrow icon pointing down. The main content area is divided into two columns. The left column contains a list of links: "Project Presentation", "Participating Entities", "News", "Demonstration", "Documentation", "Electronic Voting", "Elections to the European Parliament", and "Electronic Voting Experiences". The right column is titled "Documentation" and contains a list of links: "Electronic Voting" and "Elections to the European Parliament".

# 3- From internal advocacy to offering a new service to the community

### 3 - From internal advocacy to offering a new service to the community

## How many sites in our organization?

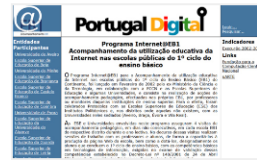
	A	B	C	D	E
1	List	Candidates to Renascer project	Registrant ( <a href="#">WHOIS .PT</a> )	Version at <a href="#">Arquivo.pt</a> Memorial	Reborn (Yes/No)?
2	<a href="#">acompanhamento-eb1.rcts.pt</a>	<a href="#">acompanhamento-eb1.rcts.pt</a>	FCT-FCCN	<a href="https://arquivo.pt/wayback/2004033120">https://arquivo.pt/wayback/2004033120</a>	Yes
3	<a href="#">votoelectronico.pt</a>	<a href="#">votoelectronico.pt</a>	FCT-FCCN/UMIC	<a href="https://arquivo.pt/wayback/2004062921">https://arquivo.pt/wayback/2004062921</a>	Yes
4	<a href="#">20anos.fccn.pt</a>	<a href="#">20anos.fccn.pt</a>	FCT-FCCN	<a href="https://arquivo.pt/wayback/2008102114">https://arquivo.pt/wayback/2008102114</a>	Yes
5	<a href="#">ipv6-tracker.fccn.pt</a>	<a href="#">ipv6-tracker.fccn.pt</a>	FCT-FCCN	<a href="https://arquivo.pt/wayback/2009121718">https://arquivo.pt/wayback/2009121718</a>	Yes
6	<a href="#">posc.mctes.pt</a>	<a href="#">posc.mctes.pt</a>	FCT-FCCN	<a href="https://arquivo.pt/wayback/2010060721">https://arquivo.pt/wayback/2010060721</a>	Yes
7	<a href="#">report.voip.fccn.pt</a>	<a href="#">report.voip.fccn.pt</a>	FCT-FCCN	<a href="https://arquivo.pt/wayback/2010060805">https://arquivo.pt/wayback/2010060805</a>	Yes
8	<a href="#">confdados.rcaap.pt</a>	<a href="#">confdados.rcaap.pt</a>	FCT-FCCN	<a href="https://arquivo.pt/wayback/2023031516">https://arquivo.pt/wayback/2023031516</a>	Yes
9	<a href="#">mctes.pt</a>	<a href="#">mctes.pt</a>	FCT-FCCN	<a href="https://arquivo.pt/wayback/2011052012">https://arquivo.pt/wayback/2011052012</a>	Yes
10	<a href="#">igces.mctes.pt</a>	<a href="#">igces.mctes.pt</a>	FCT-FCCN	<a href="https://arquivo.pt/wayback/2011062210">https://arquivo.pt/wayback/2011062210</a>	Yes
11	<a href="#">acesso.umic.pt</a>	<a href="#">acesso.umic.pt</a>	FCT-FCCN/UMIC	<a href="https://arquivo.pt/wayback/2012012118">https://arquivo.pt/wayback/2012012118</a>	Yes
12	<a href="#">site.b-on.pt</a>	<a href="#">site.b-on.pt</a>	FCT-FCCN	<a href="https://arquivo.pt/wayback/2014092905">https://arquivo.pt/wayback/2014092905</a>	Yes
13	<a href="#">rededeespacosinternet.pt</a>	<a href="#">rededeespacosinternet.pt</a>	AMA	<a href="https://arquivo.pt/wayback/201311072">https://arquivo.pt/wayback/201311072</a>	-

Identification of all websites owned by the FCT-FCNN (Foundation for Science and Technology)

# 3 - From internal advocacy to offering a new service to the community



MCTES – Ministério da Ciência, Tecnologia e Ensino Superior, (mctes.pt, 2011)



Portugal Digital (acompanhamento-eb1.rcts.pt, 2004)



POS\_Conhecimento (posc.mctes.pt, 2010)



VoIP@RCTS (report.voip.fccn.pt, 2010)



Voto Electrónico (votoelectronico.pt, 2004)



Programa Acesso (acesso.unic.pt, 2012)



Site B-on (site.b-on.pt, 2014)



Conferência Dados de Investigação e Ciência Aberta 2016 (confdados.rcaap.pt)



Inspeção Geral do MCTES (igces.mctes.pt, 2011)



Projecto Tracking IPv6 (ipv6-tracker.fccn.pt, 2009)



Conferência 20 anos da FCCN (20anos.fccn.pt, 2008)

Reborn websites at the Arquivo.pt Memorial: [arquivo.pt/memorialen](https://arquivo.pt/memorialen)

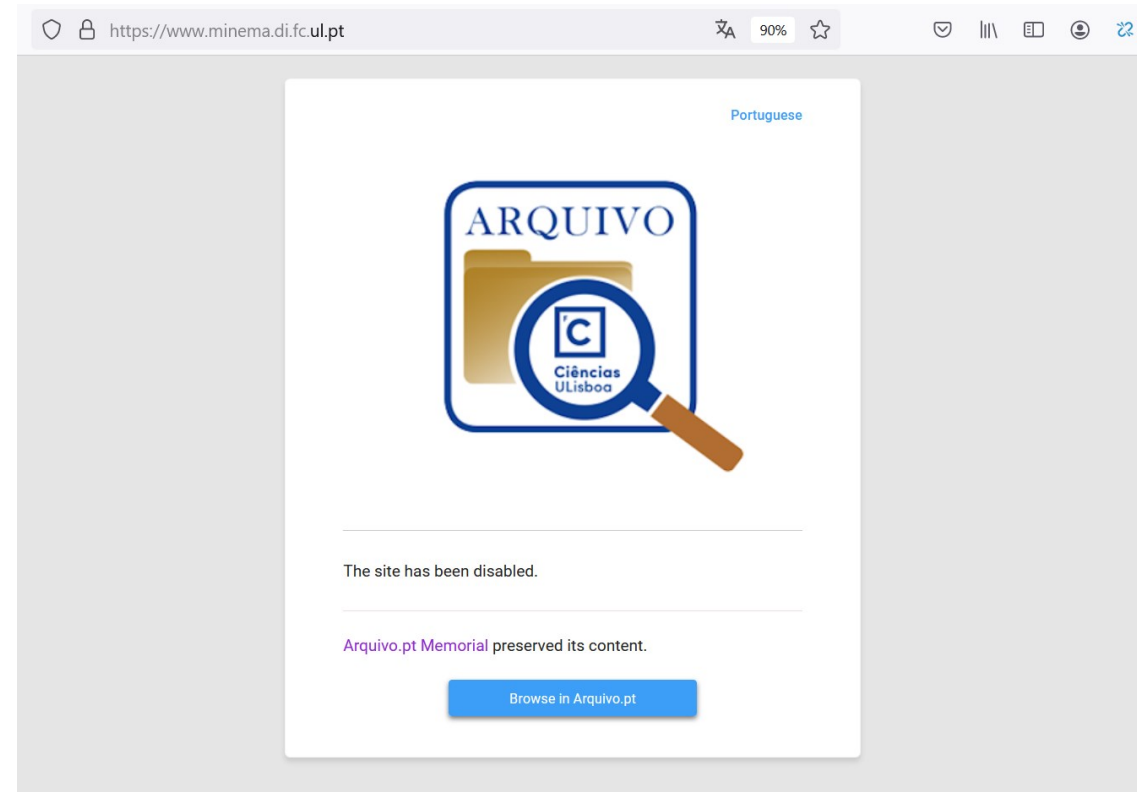
# 4- Arquivo.pt Memorial



*«At the University X, we currently have hundreds of websites developed using totally obsolete frameworks. Can you help us?»*

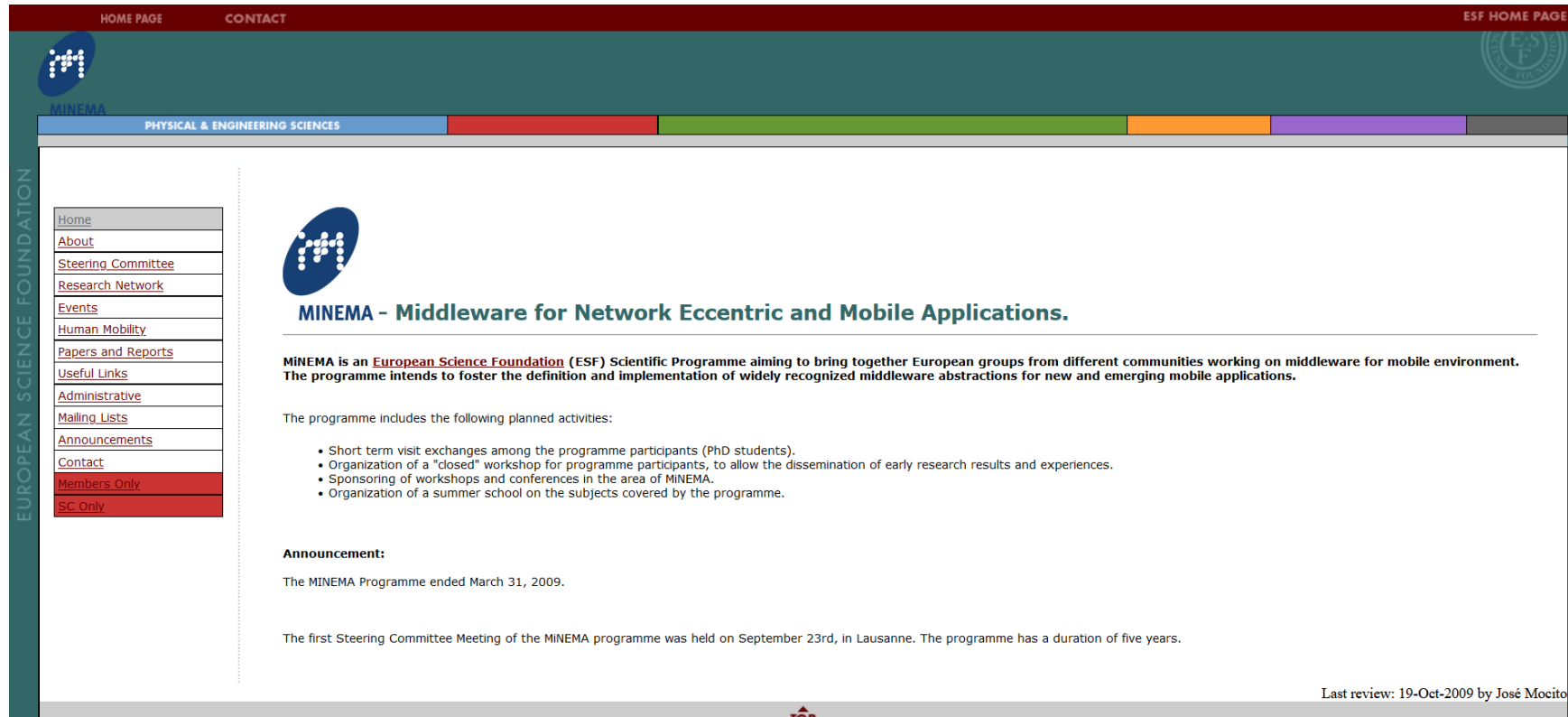
Any similarity with reality is purely coincidental

# The case of the MiNEMA Website



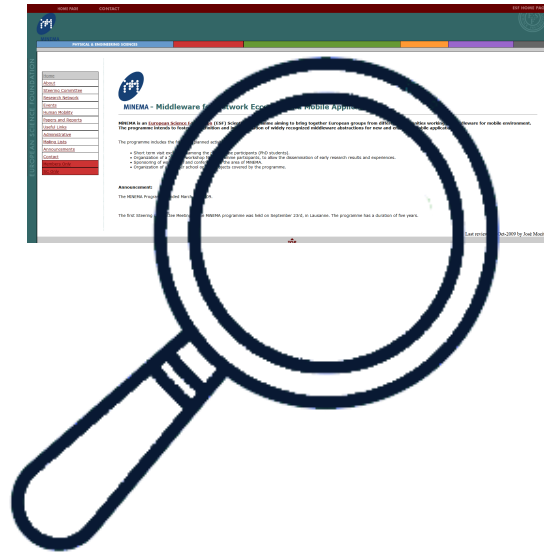
Example of a Research Program website, from the University of Lisbon, on Arquivo.pt Memorial. Minema Program, [minema.di.fc.ul.pt](https://www.minema.di.fc.ul.pt)

## The case of the MiNEMA Website



Example of a Research Program website, from the University of Lisbon, on Arquivo.pt Memorial. Minema Program, [minema.di.fc.ul.pt](http://minema.di.fc.ul.pt)

# 4 - Arquivo.pt Memorial

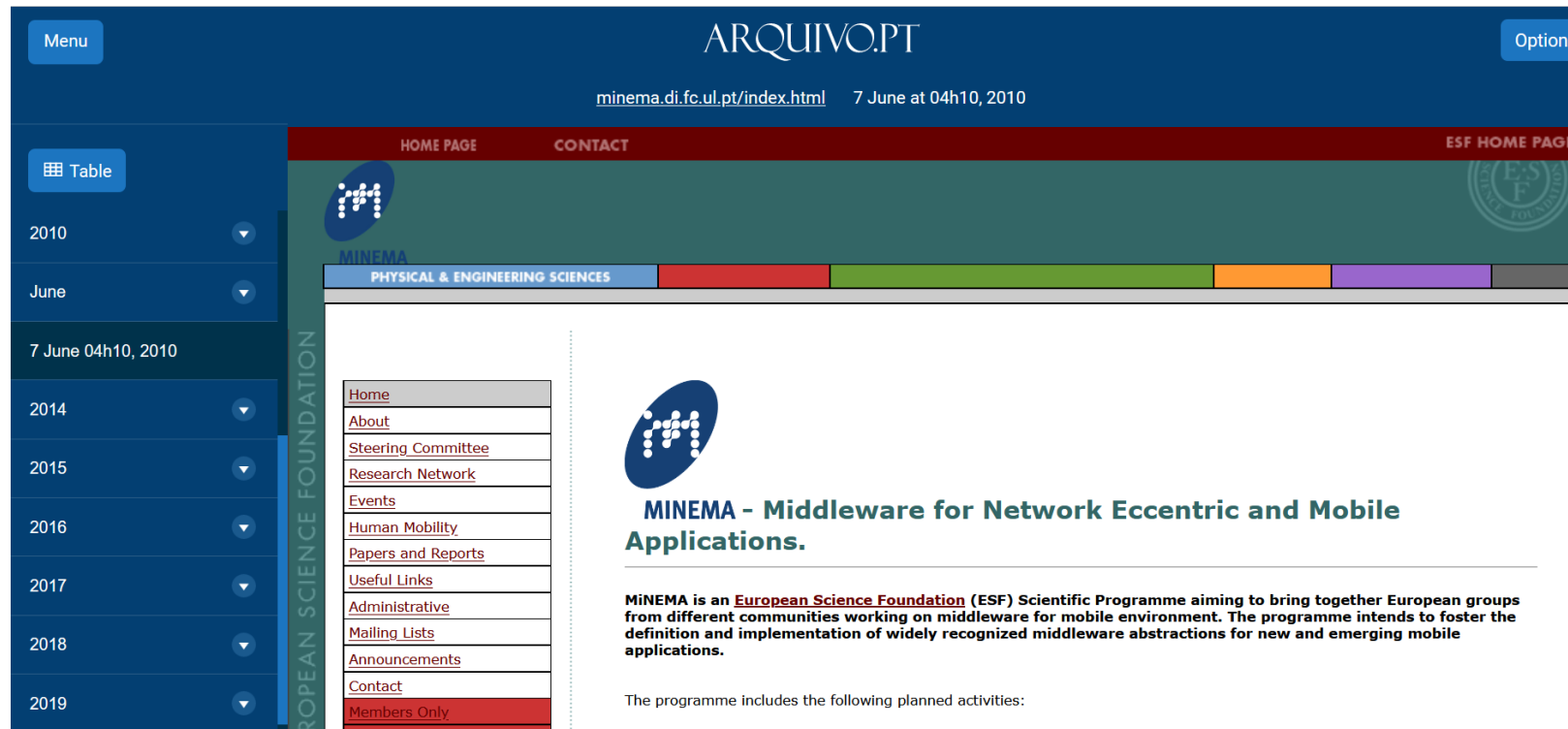


## Announcement:

The MINEMA Programme ended March 31, 2009.

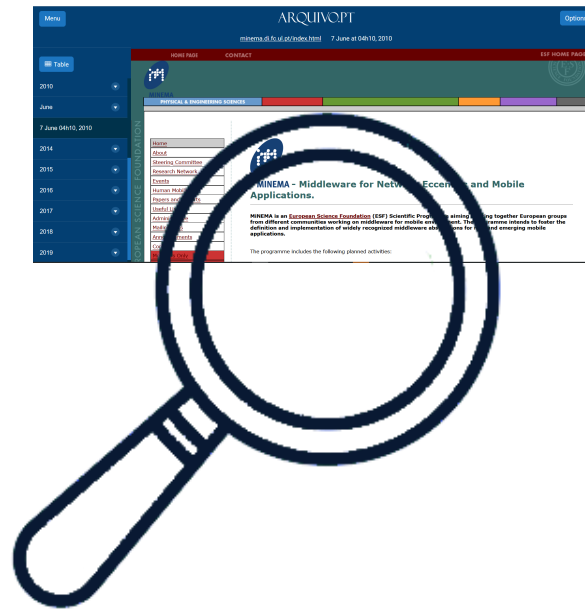
## 4 - Arquivo.pt Memorial

The website remained online for another 10 years without new content



## 4 - Arquivo.pt Memorial

The website remained online for another 10 years without new content



Last review: 19-Oct-2009

# Old website with no updates but...

- Fixed costs
- Energy consumption, CO2 emissions
- **Security vulnerabilities**

*«The managers are very reluctant to transfer the content of these websites outside the university.»*

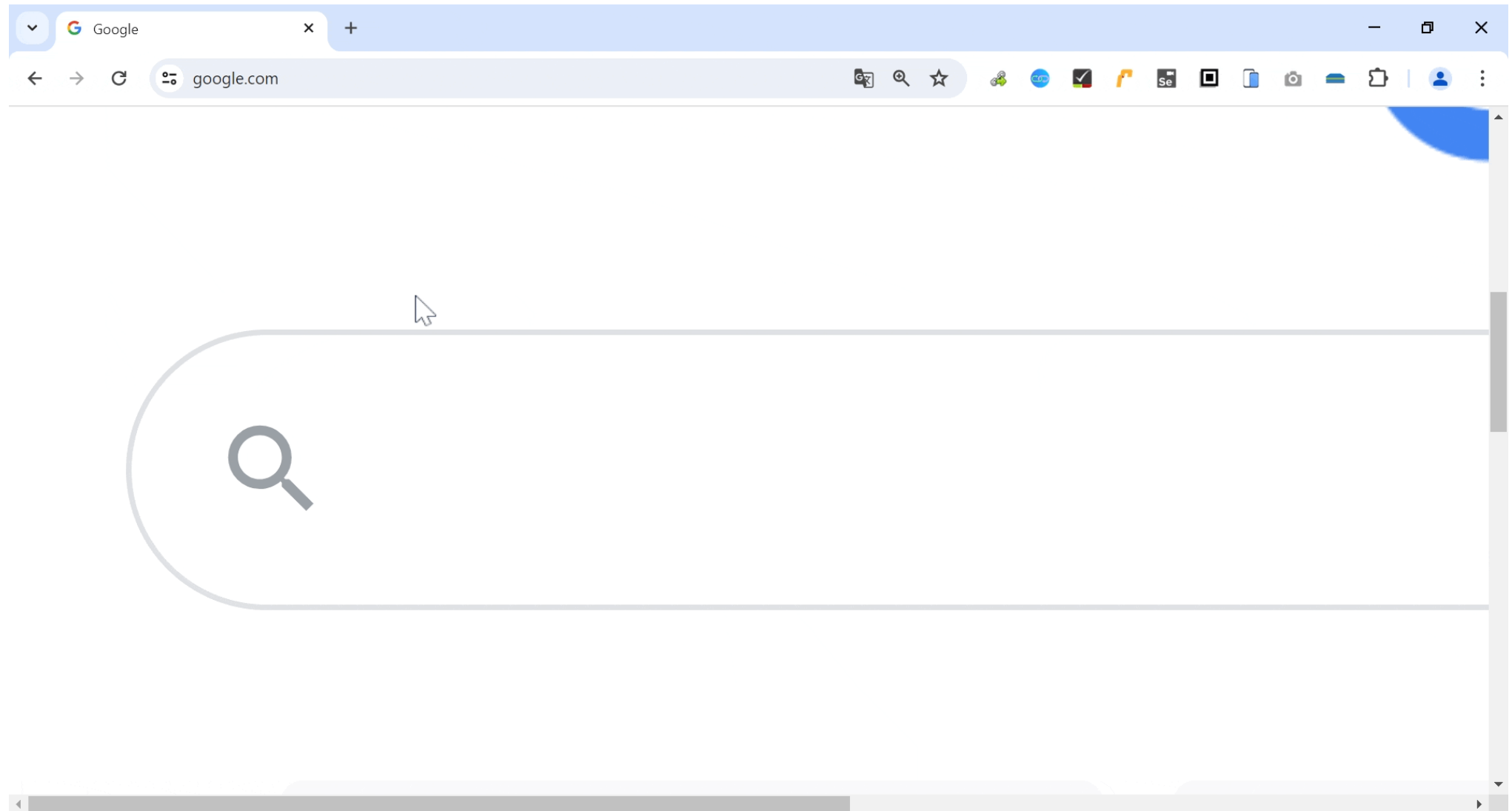
(Any similarity with reality is purely coincidental)



# Memorial advantages

- Reduces ecological footprint
- Reduces maintenance costs
- **Reduces security threats to the institution**

# 4 – Arquivo.pt Memorial



# Conclusions

- Web archives as a set of **useful services** to the community is our future
- The issue of **cyber security** is crucial and web archives can help
- Internal advocacy and external **dissemination** is needed

# arquivo.pt/catalog

## Public services

- [Search and access](#) web-archived data since the 1990s
- [Application Programming Interfaces \(APIs\)](#)
- [Suggest websites](#) to be preserved
- [SavePageNow](#): immediately archive web pages
- [Integration of historical web data collections](#)
- [Training](#) on web preservation
- [Open data](#) listing archived web information on various topics
- [CitationSaver](#): extracts links from documents and archives the correspondent web pages
- [Arquivo404](#): presents web-archived pages instead of “pages not found”

## For partners

- [Memorial](#) preserves your old website information before deactivating it
- High-quality archive of websites ([on-demand](#))
- [Creation of collections and thematic exhibitions](#)
- [Itinerant exhibition of posters at your facilities](#)

Contact us

[contacto@arquivo.pt](mailto:contacto@arquivo.pt)

To receive news

[arquivo.pt/subscribe](https://arquivo.pt/subscribe)