

IIPC Web Archiving Conference 2026 at KBR in Brussels

RESPONSIBLE STRATEGIES

Time: 22/Apr/2026: 1:25pm-2:30pm · Location: PANORAMA [+6]

Session Chair: Abbie Grotke, Library of Congress

How the Arquivo.pt Memorial service contributes to reducing the carbon footprint

Ricardo Basílio, web curator at Arquivo.pt

FCCN serviços
digitais
fct

fct Fundação
para a Ciência
e a Tecnologia

IIPC GENERAL ASSEMBLY &
WEB ARCHIVING CONFERENCE
AT KBR IN BRUSSELS
20-23 APRIL 2026
[NETPRESERVE.ORG/GA2026](https://netpreserve.org/GA2026)



Agenda

1. Arquivo.pt Memorial service
2. How Arquivo.pt Memorial works
3. How Memorial adds value to organizations
4. Community involvement in the green footprint



Arquivo.pt

- FCT's digital service through its FCCN unit
- Mission – **“To promote the collection and preservation of content available on the national Internet”** (Portuguese law: Decreto-Lei 55/2013; Decreto-Lei n.º 132/2025)
- Arquivo.pt - FCT headquarters – Lisbon - Portugal
- Available online: <https://arquivo.pt>



1

Arquivo.pt Memorial service

1. The Arquivo.pt Memorial service

How much does it cost
to maintain a website?

1 x ?

1. The Arquivo.pt Memorial service

Public bodies

“We are **legally required to keep** the website available for five years. Can you handle that for us?”



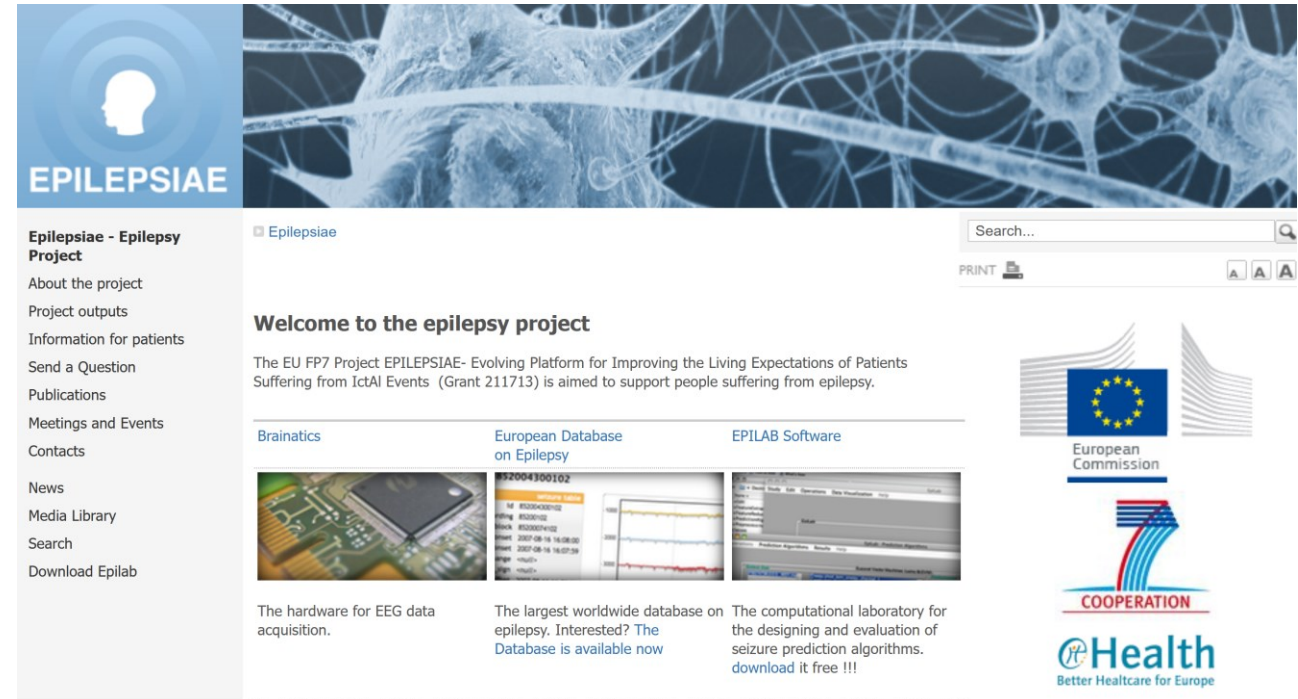
<https://antonioguterres.gov.pt/>

1. The Arquivo.pt Memorial service

Researchers

“This website contains important information; however, the project has ended and the site will be taken down.

Is there any chance that someone could access it directly by typing the URL into a browser?”

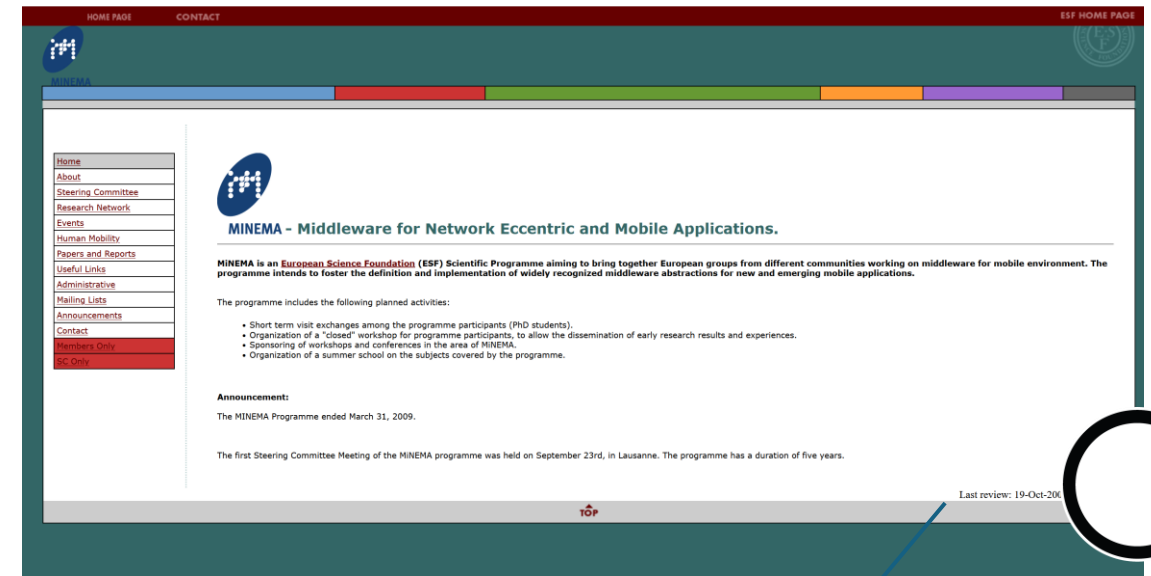


epilepsiae.eu

1. The Arquivo.pt Memorial service

IT departments

“We have **outdated websites**; we want to take them down, but we need to keep the content accessible.”



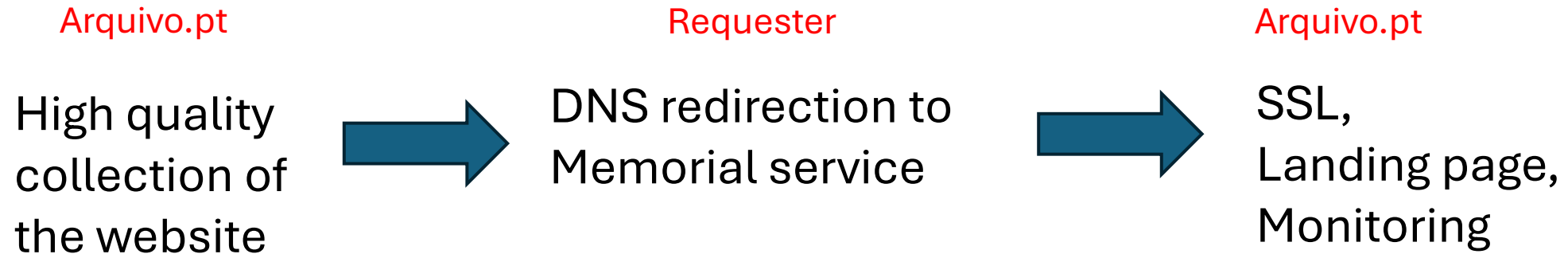
Last review: 19-Oct-2009

<https://www.minema.di.fc.ul.pt>

2

How Arquivo.pt Memorial works

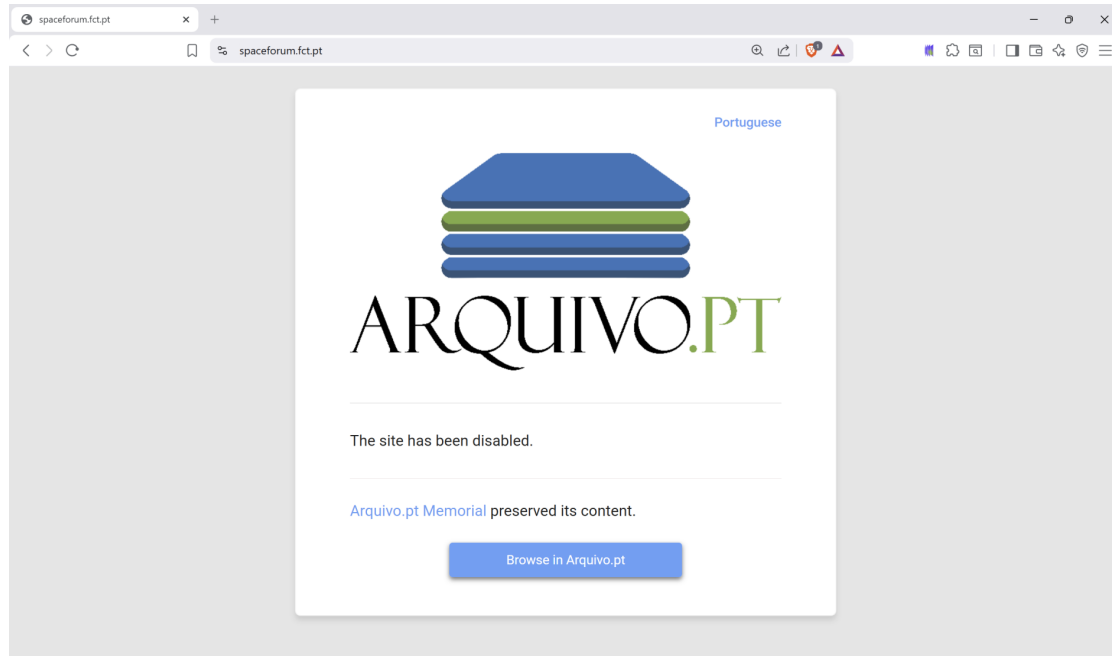
2. How Arquivo.pt Memorial works



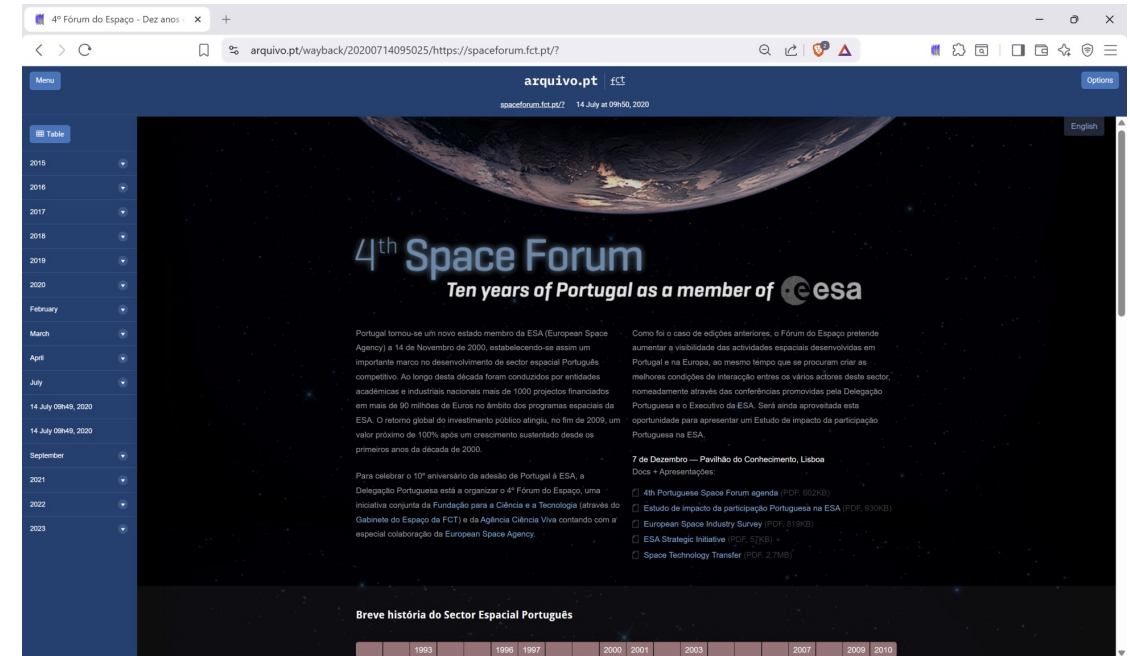
\$ dig a cla.fccn.pt
...
;; ANSWER SECTION:
cla.fccn.pt. 82589 IN CNAME memorial.arquivo.pt.
memorial.arquivo.pt. 2931 IN A 194.210.235.11
...

2. How Arquivo.pt Memorial works

Landing page

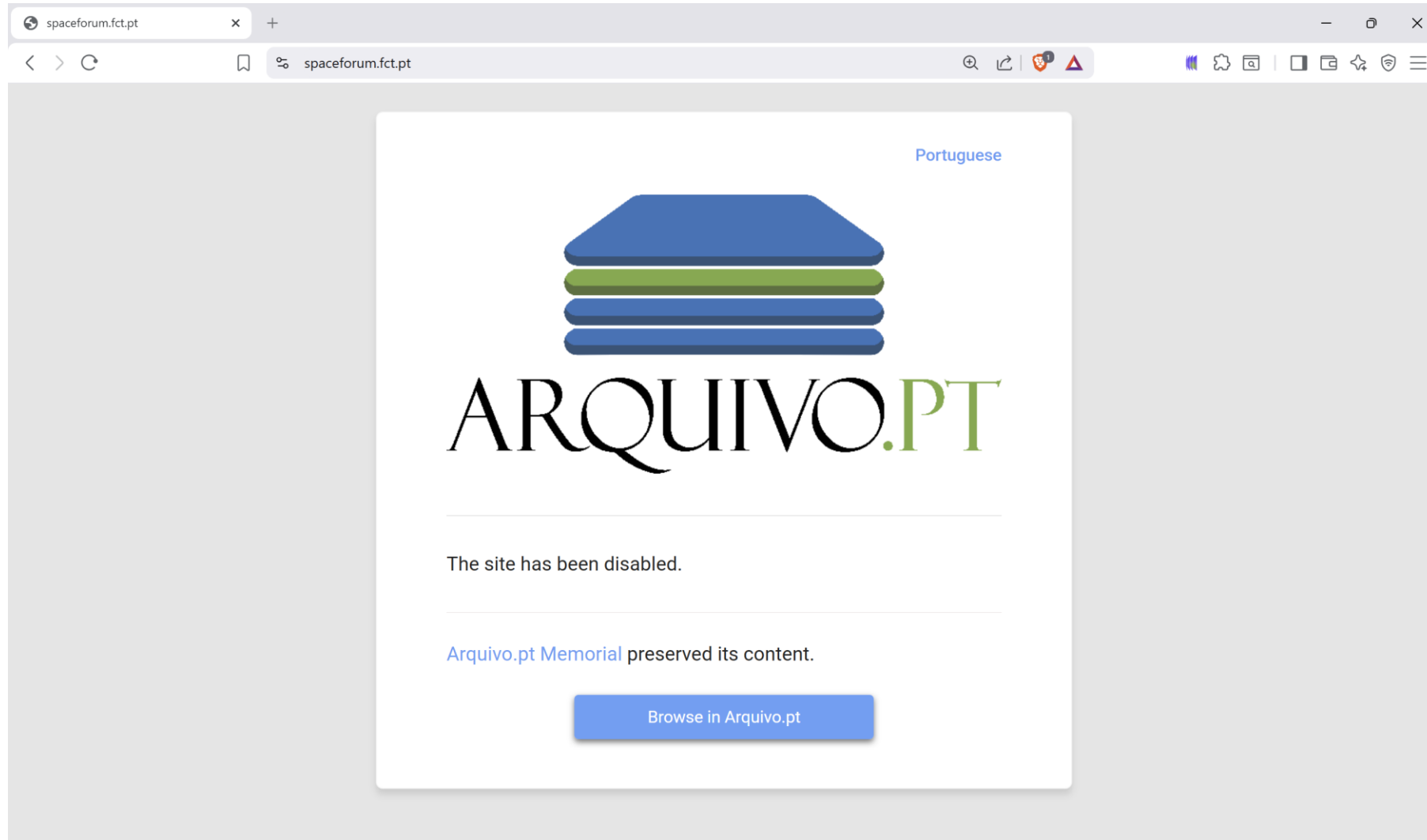


Replay on arquivo.pt



Example of a website on the Memorial: <https://spaceforum.fct.pt>

2. How Arquivo.pt Memorial works



2. How Arquivo.pt Memorial works

4º Fórum do Espaço - Dez anos x +

arquivo.pt wayback/20200714095025/https://spaceforum.fct.pt/?

Menu

arquivo.pt fct

spaceforum.fct.pt/? 14 July at 09h50, 2020

Options

English

4th Space Forum

Ten years of Portugal as a member of esa

Portugal tornou-se um novo estado membro da ESA (European Space Agency) a 14 de Novembro de 2000, estabelecendo-se assim um importante marco no desenvolvimento de sector espacial Português competitivo. Ao longo desta década foram conduzidos por entidades académicas e industriais nacionais mais de 1000 projectos financiados em mais de 90 milhões de Euros no âmbito dos programas espaciais da ESA. O retorno global do investimento público atingiu, no fim de 2009, um valor próximo de 100% após um crescimento sustentado desde os primeiros anos da década de 2000.

Para celebrar o 10º aniversário da adesão de Portugal à ESA, a Delegação Portuguesa está a organizar o 4º Fórum do Espaço, uma iniciativa conjunta da Fundação para a Ciência e a Tecnologia (através do Gabinete do Espaço da FCT) e da Agência Ciência Viva contando com a especial colaboração da European Space Agency.

Como foi o caso de edições anteriores, o Fórum do Espaço pretende aumentar a visibilidade das actividades espaciais desenvolvidas em Portugal e na Europa, ao mesmo tempo que se procuram criar as melhores condições de interacção entres os vários actores deste sector, nomeadamente através das conferências promovidas pela Delegação Portuguesa e o Executivo da ESA. Será ainda aproveitada esta oportunidade para apresentar um Estudo de impacto da participação Portuguesa na ESA.

7 de Dezembro — Pavilhão do Conhecimento, Lisboa
Docs + Apresentações:

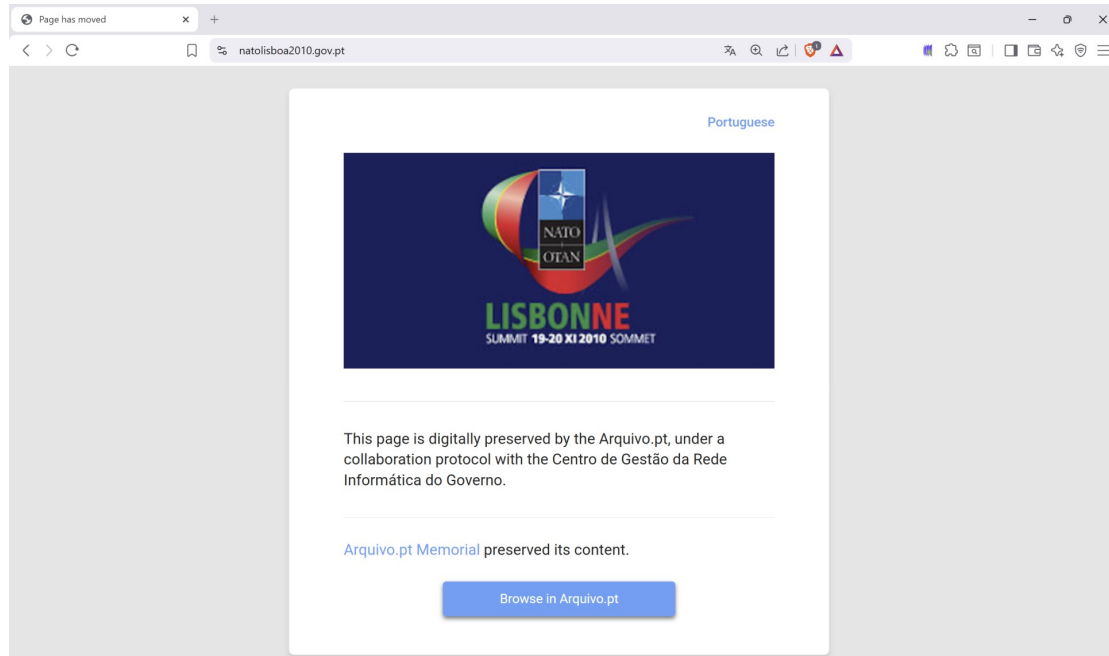
- 4th Portuguese Space Forum agenda (PDF, 602KB)
- Estudo de impacto da participação Portuguesa na ESA (PDF, 930KB)
- European Space Industry Survey (PDF, 819KB)
- ESA Strategic Initiative (PDF, 57KB)
- Space Technology Transfer (PDF, 2.7MB)

Breve história do Sector Espacial Português

		1993			1996	1997				2000	2001		2003				2007		2009	2010
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2. How Arquivo.pt Memorial works

Customised landing page

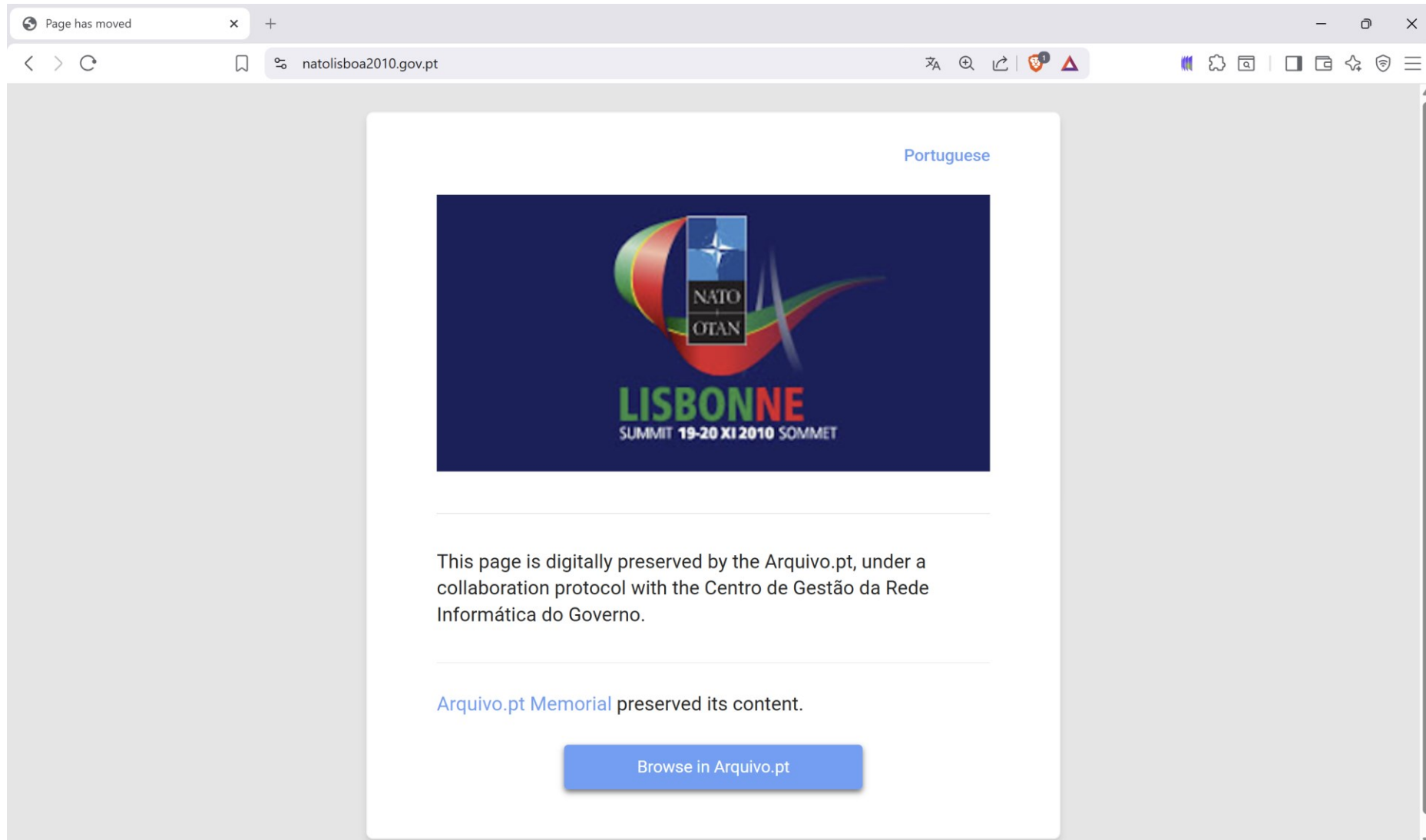


Replay on arquivo.pt

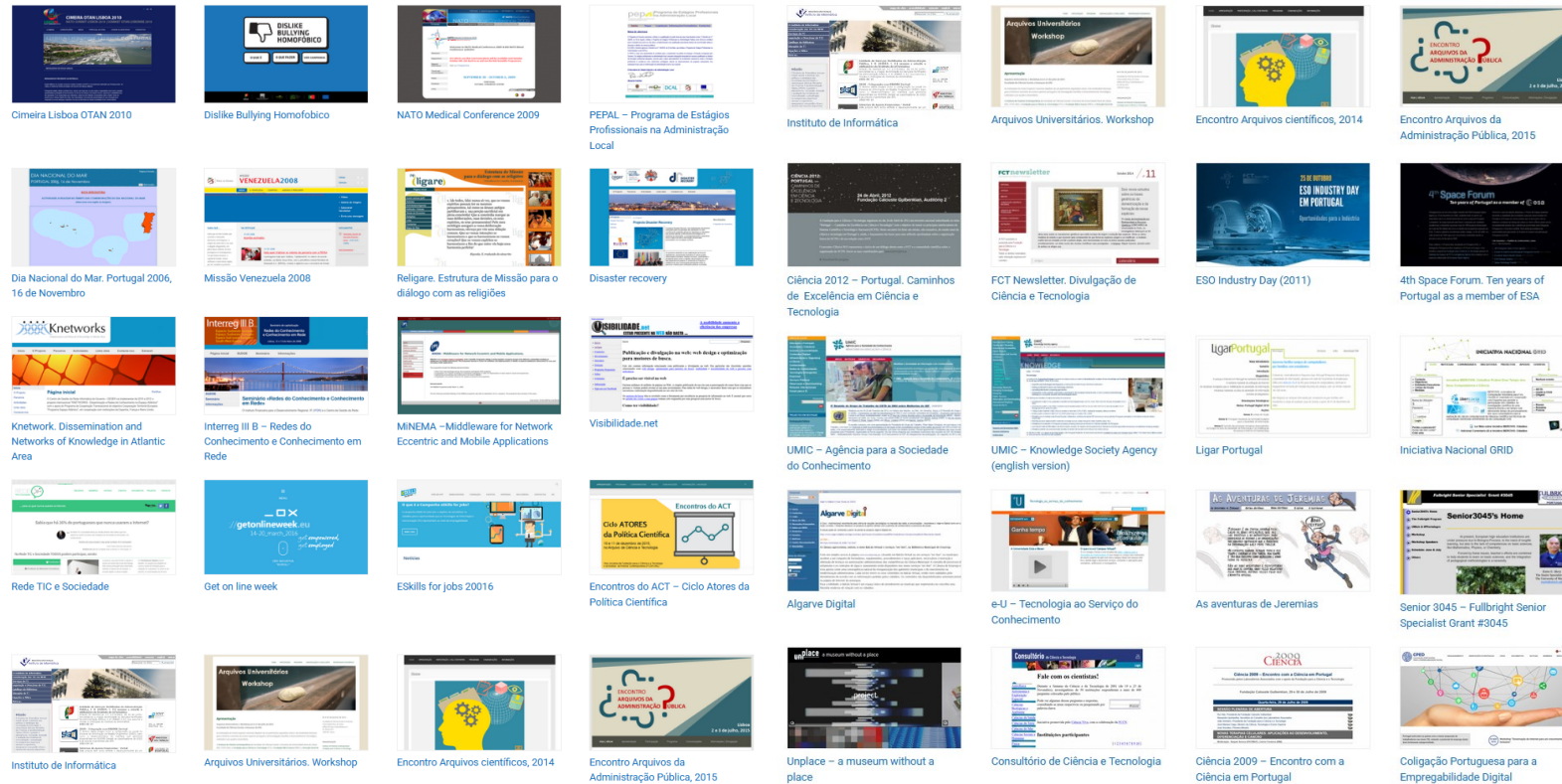


Example of a website on the Memorial: <https://www.natolisboa2010.gov.pt>

2. How Arquivo.pt Memorial works



2. How Arquivo.pt Memorial works

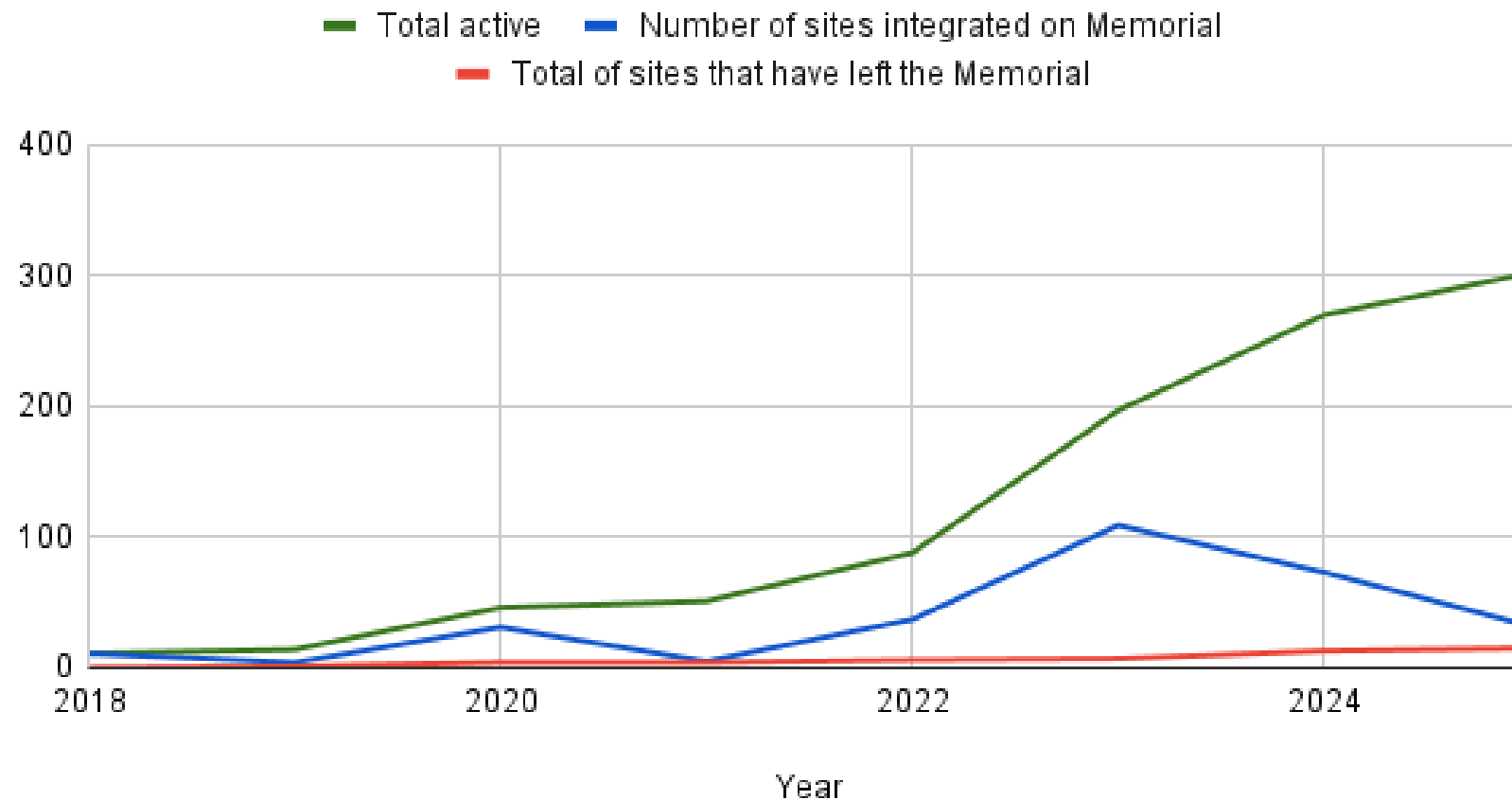


300

The Arquivo.pt Memorial surpassed 300 sites in 2025

2. How Arquivo.pt Memorial works

Websites in Arquivo.pt Memorial - 2018-2025



2. How Arquivo.pt Memorial works

How much did the
Memorial help save?

300 x ?

1. The Arquivo.pt Memorial service

How much does it cost to maintain a website?

Domain Name: \$10–\$20/year

Website Hosting: \$30–\$500/year (shared)

SSL Certificate: Free to \$500+/year for advanced security

Security & Backups: Free plugins to \$100+ per month for managed services

3

How Memorial adds value to organizations



3. How Memorial adds value to organizations

Context of climate issues

- United Nations Sustainable Development Goals
- EU – 2030 Climate TargetsCarbon
- Neutrality by 2050 (also a national goal)
- FCCN +Sustainable (organization program)



3.How Memorial adds value to organizations

Three reasons to use the Memorial (external advocacy)

- Security
- Energy consuming
- Carbon footprint



3. How Memorial adds value to organizations

“Memorial reduces the carbon footprint”

- Allows organizations to shut down servers, thereby saving energy
- Keeps historical content accessible at a low cost

3. How Memorial adds value to organizations

But how do we measure
our carbon footprint?



4

Community involvement in the green footprint

(Next steps)



4. Community involvement in the green footprint

Nex steps

- Offer the Memorial as a service for the sustainability
- Conduct a survey of IT teams regarding the obsolete websites they maintain
- Gather evidence on how the Memorial can help reduce the carbon footprint

Thank you!

Email:

contacto@arquivo.pt

Mailing list

arquivo.pt/subscribe