

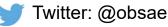


# Monitoring and reporting tool for the simplified method in Spain

Secretariat-General for Digital Administration

observ.accesibilidad@correo.gob.es

http://administracionelectronica.gob.es/PAe/accesibilidad



## Web Accessibility Observatory - Spain



#### What is the Spanish Administrative context?



#### 18 departments

RD 1112/2018, of 7th September, on the accessibility of websites and mobile applications in the public sector (1\*)

# Regional governments

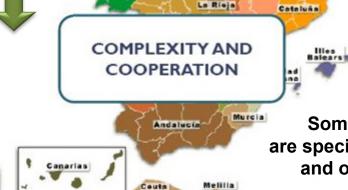


17 regional governments
2 autonomous cities

#### **Local entities**



8.116 local entities
41 county councils
11 island councils



Some competencies are specific of each authority and others are shared

## Web Accessibility Observatory - Spain



#### What is the Web Accessibility Observatory?

Cooperation and collaboration

Observatorio de Accesibilidad

Awareness

All results distributed to

 Periodic study – simplified monitoring method

**Monitoring** 

- Help and training
- PSB
   Ranking of PSB
- Mailing lists

- On-line service for self checking
- Detailed mistakes together with suggestions to solve them
- FAQs, guides and specific documentation
- Accessibility Community. Virtual meeting point

## **Web Accessibility Observatory**



#### What is the OAW Tracker Tool?

Open source tool to monitor compliance of accessibility requirements in Websites.

Compatible with simplified monitoring method Directive 2016/2102.

From December 2009

Released tool in November 2018

## ✓ Offered services by the OAW Tracker Tool

#### **Observatory Studies**

## Configuration

- Observatories, segments, websites, etc.
- Type of analysis (WCAG 2.0, 2.1 or others)

#### Analysis

- Selection of pages for each website
- Analysis of each page with agreed methodology

## Report

- Generation of aggregated reports
- Generation of individual reports for each website

#### Online shared service



- Pages, websites, source code
- Detailed issues and solutions to solve them
- On demand

## Web Accessibility Observatory - Spain



#### How are we implementing the Simplified Monitoring Method?

With a defined, approved and public methodology (1\*) for all the entities that are being evaluated

- ✓ Participation in the definition process. working groups with Public Administrations and open consultation: public sector, private sector, and associations of persons with disabilities.
- ✓ Previous testing to the report. Before making the final approval of the methodology they could test it with our developed tools and with a preliminary observatory.
- ✓ Review Commitment. We are reviewing the methodology according to suggestions and examining the results.
- ✓ Open channel for communications. Thanks to the virtual community



## **Simplified Monitoring Method**



#### What does our methodology look like?

Its main objective is to obtain and **estimation of the accessibility**level of the websites and detect incompliances.

EN 201 540: 2019 - LINE EN 201 540: 2010 (in Spanish)

EN 301 549: 2018 = UNE-EN 301 549:2019 (in Spanish)

- ✓ It is not and accessibility audit. Many warnings included in document.
- ✓ Fully automatic. selection of pages (although possibility of manual selection), all the tests and all the reports.
- ✓ **Selection of 20 verifications.** The most important ones and the ones where usually more problems are found. Some tests for each verification. **More than 110 checks** for each page.
- ✓ Improved with specialized metrics defined to estimate verifications usually performed manually.
- ✓ Evaluation of each page with a score and an accessibility level.
- ✓ Estimation for each website:
  - Average Website Score. from 0 to 10
  - Estimated level of adequacy of a website. (not valid, A, AA)
  - Estimated compliance status. (totally conformant, partially conformant, non conformant).

## Simplified Monitoring Method

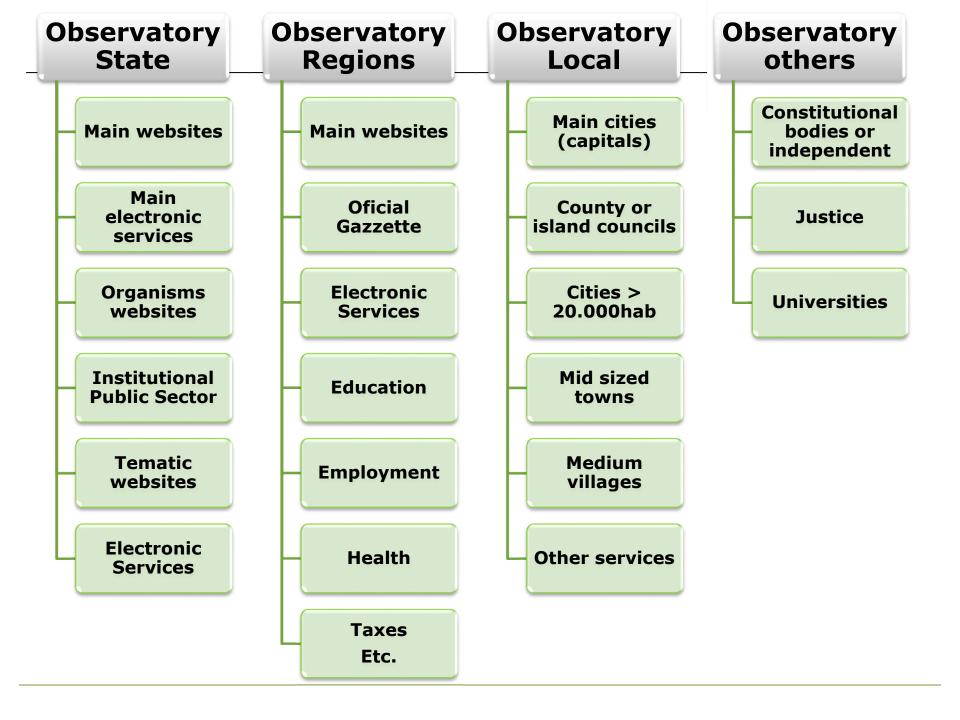


#### Which is the organization of the sample of websites?

- ✓ Multiple possibilities.
  - 1 N observatories. Can be analysed independently.
  - 1 N segments in an observatory. Comparisons inside each segment.
  - 1 N seeds in a segment. A website with all the qualifying parameters.
  - "Grouped by" property for each seed. To organize distribution of results.

#### In the case of Spain

- √ 1000 1500 websites. (ID 2018/1524 Annex I 2.1). Distributed in 4 observatories
- ✓ Configurable tags: level of government, geographic distribution, thematic, chosen by disabled people, any other tag...(ID 2018/1524 Annex I 2.2)
- ✓ Recurrence (ID 2018/1524 Annex I 2.4)
  - Around 50%. Fixed
  - More than 50%. Changes every monitoring period.
    - Cycles of two years.
    - Year odd. 2020-2021 will be considered odd.
    - Year even...
- ✓ Complexity (ID 2018/1524 Annex I 3.4)
  - Low, Medium, high
- **✓ Participation of Associations for disabled people** (ID 2018/1524 Annex I 2.2.4)







## **Demo of the OAW Tracker Tool**

#### **OAW Tracker Tool**



#### **List of Observatories**





C→ Log Out



Other options

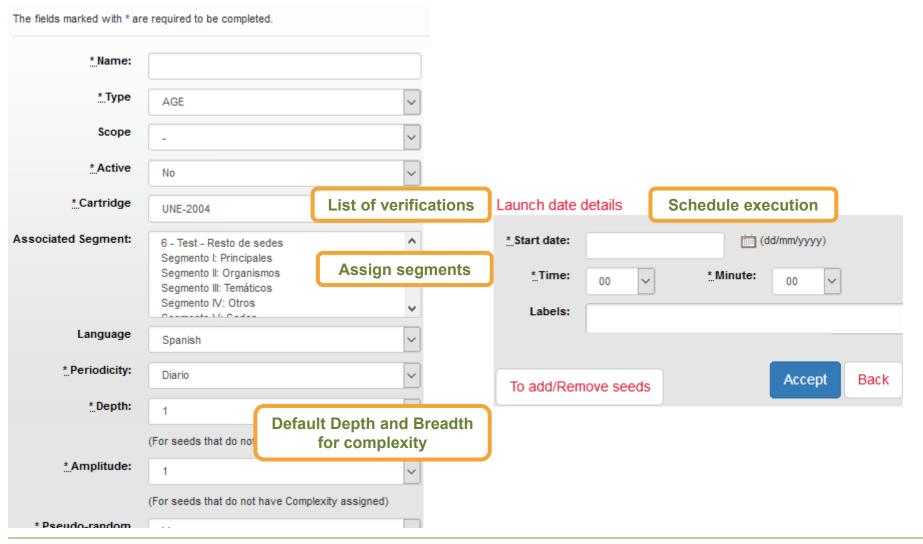
List of Observatories						+ New	Observ	ratory
Observatory	ACTIVE	Түре	SCOPE	Tags	CARTR	IDGE	Actions	REMOV
ТМР	No	AGE	2		UNE-2	012		×
Demo Sweden	Sĩ¿½	AGE	AGE	Fixed	UNE-EN301549	:2019 (beta		×
NOBAN-WCAG20	No	AGE	2		UNE-20	12-B		×
Observatorio AGE - UNE-EN 301549 (BETA)	No	AGE	2		UNE-20	12-B		×
Observatorio EELL - UNE-EN 301549 (BETA)	No	AGE	2		UNE-20	12-B		×
Observatorio CCAA - UNE-EN 301549 (BETA)	No	AGE	AGE		UNE-EN301549	:2019 (beta		×
Observatorio OTROS - UNE-EN 301549 (BETA	No	AGE	AGE	Fixed Even	UNE-EN301549	:2019 (beta		×
TEST_ENTORNO	No	AGE	AGE		UNE-EN301549	:2019 (beta		×

#### **OAW Tracker Tool**



#### Create a new observatory

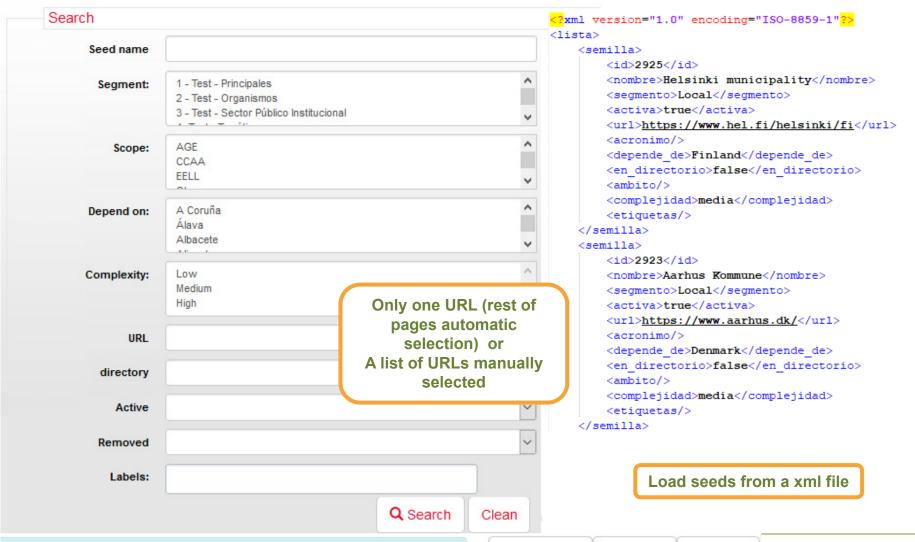
#### **New Observatory**





#### Feeds: on a large scale or individually

#### Observatory seed management



Import



## **List of Labels or Tags**

#### Label Management of the Observatory



Name	CLASSIFICATION	Remove
Estatal	Distribución 🗸	×
Madrid	Distribución	×
Discapacidad	Otros	×
Pruebas	Otros	×
Even	Recurrencia	×
Fijo	Recurrencia	×
Fixed	Recurrencia	×
Odd	Recurrencia	×
Empleo y fiscalidad	Temática	×
Protección del medio ambiente	Temática	×
Protección social	Temática	×
Sanidad	Temática	×



#### **List of Complexities**

## Management of Complexities of the Observatory



Name	Dертн	Width	Rемс
Low	1	1	×
Medi	4	8	×
High	5	10	×



#### State of observatory (in execution)

#### **Execution status**

Status	Actions
Launched	C

#### Summary of the implementation of the observatory

SEED TOTAL	TOTAL NUMBER OF SEEDS PROCESSED	TOTAL NUMBER OF SEEDS PROCESSED WITH RESULTS	TOTAL TIME	AVERAGE TIME	ESTIMATED COMPLETION TIME
6	4 (66,67% completed)	4 (66,67% completed)	1 minutes (0 hours)	0 minutes	0 minutes (0 hours)

#### Analysis in progress/last analysis

#### SEED

Test - PFunciona (https://sede.funciona.gob.es)

TOTAL URLS COLLECTED	TOTAL URLS ANALYZED	LAST URL ANALYZED	END OF LAST ANALYZED URL	AVERAGE TIME	TOTAL TIME	ESTIMATED COMPLETION TIME
1	0 (0% completed)	https://sede.funciona.gob.es		0.0 seconds	0.0 seconds	0.0 seconds

#### Portals not yet analyzed

#	Name	URL
1	Test - REC 2	https://rec.redsara.es

#### Portals with no results

#	NAME	URL	RELAUNCH
1	Test - PFunciona	https://sede.funciona.gob.es	C



#### **Observatory Executions**

## Different executions of an observatory

Aggregated Report

Download all Individual Reports in PDF

#### **Executions List**

Observatories / Executions

17/04/2020 09:45 UNE-EI	(beta)	Finished Finished		•	<b>♦</b> 4	di di	ф ф	×
				÷	<b>•</b> 4	dı	ф	×
17/04/2020 09:40 UNE-EI								
	:N301549:2019 (beta)	Finished	<b>I</b>	÷	<b>\$ 4</b>	di	ф	×
17/04/2020 09:20 UNE-EI	:N301549:2019 (beta)	Finished		•	<b>\$</b> 4	di	ф	×

**Execution Date** 

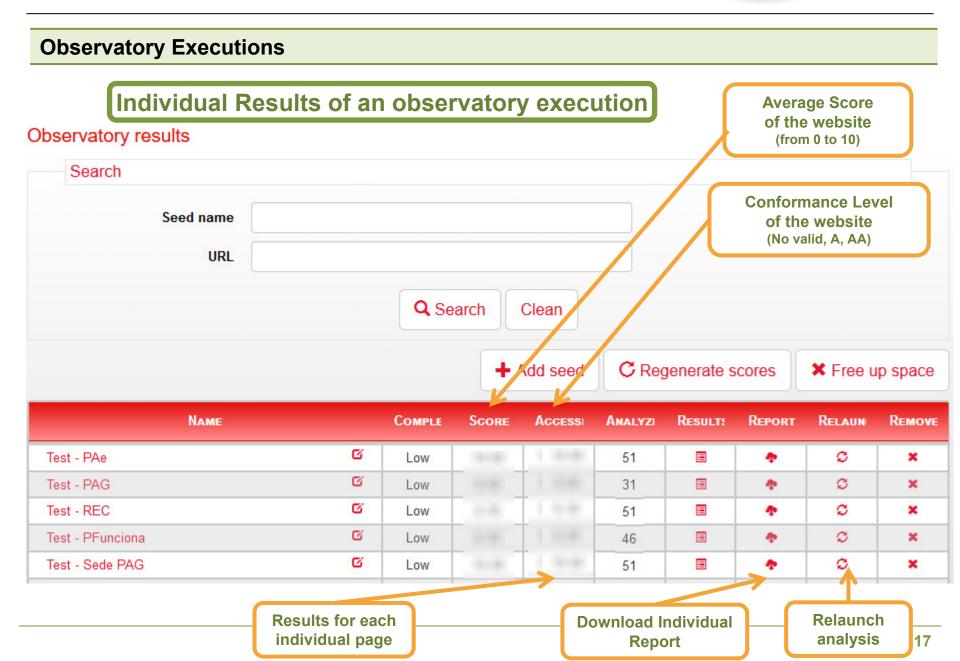
**Individual Results** 

Aggregated Charts

Export results in xml format

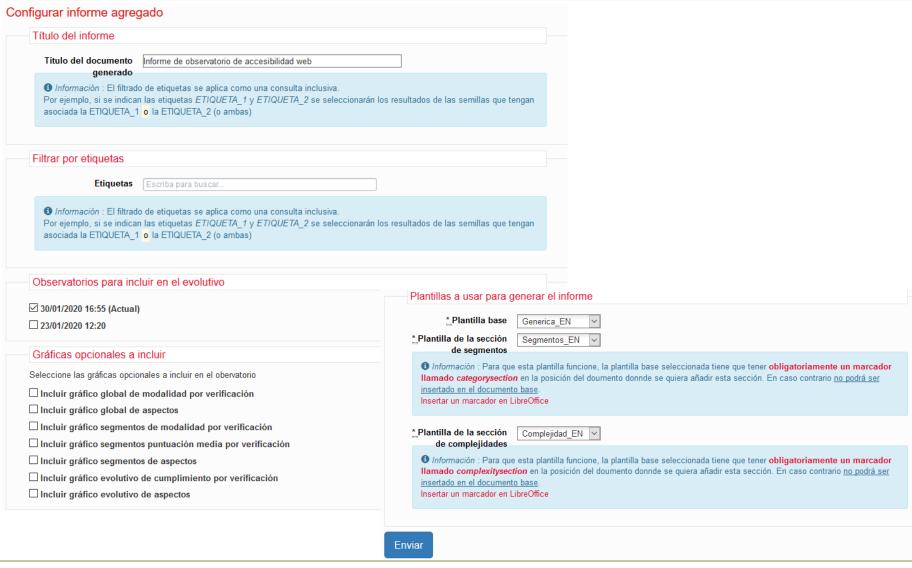
#### **OAW Tracker Tool**







#### Engine for generation of aggregated report





#### Reports - What do the reports look like?

## √ Aggregated report (PDF)

- A different report for each observatory (in Spain one for each level of public administrations analyzed (state, regional, local, others)
- Totally anonymous. To get an overview of the situation, but not indicate who is doing it wrong.
- Evolution in the different iterations and comparisons.
- Abstract and conclusions made manually by an expert.

## ✓ Internal information for the monitoring organism

- XML files with full results.
  - Sumup of results in websites
  - Sumup of results in every page
- Using excel we create: graphs and document with aggregated information for our collaborating partners. One for each Ministry and Regional Government.



**Average Score** 

per Aspect

#### **Aggregated Report**

RESULTS

# RESULTS BY SEGMENTS

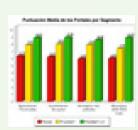


**Conformance Level** of websites Provided 1 In Francisco 1 (str. 174) Provided Ty 1 M Providen 18 Ch 17% Percel Without the St (see the

■Percel ■Prombel1 ■Prombel1ut



The Property Breakful

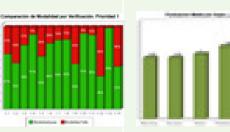


**Average Score of** 

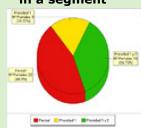
**Average Score** per Verification



**Modality of** Verification



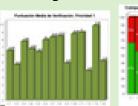
**Conformance Level** of websites in a segment Provided 1 Strictures S pile Ellings



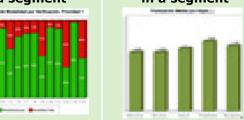
**Average Score of websites** in a segment Distribución de Puntuaciones: Segmento Principales



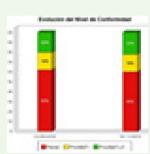
**Average Score** per Verification in a segment



**Modality of Average Score** Verification per Aspect in a segment in a segment



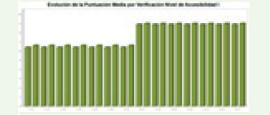
**Conformance Level Evolution of websites** 



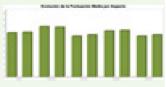
**Average Score Evolution of** an Observatory



**Average Score Evolution** per Verification

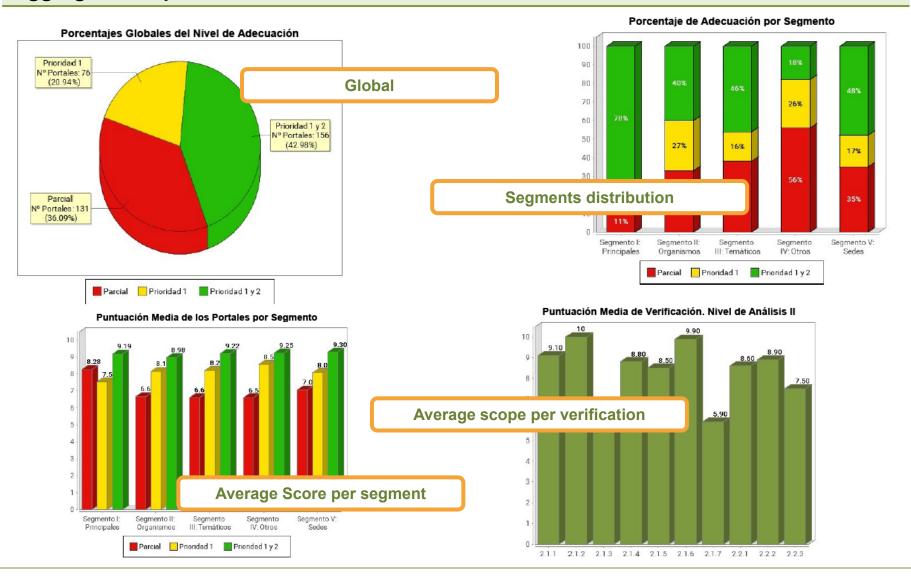


**Average Score Evolution** per Aspect





#### **Aggregated Report**





#### Reports - What do the reports look like?

## ✓ Individual report

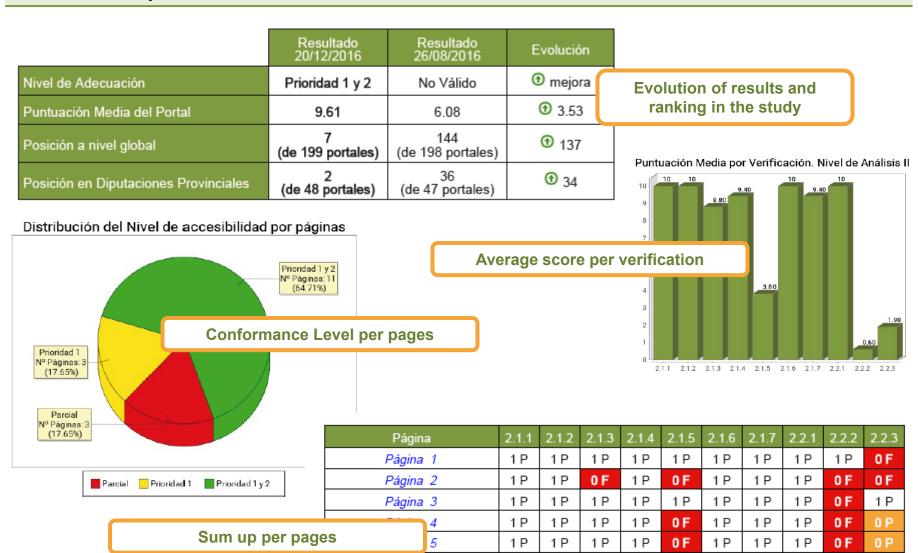
- A specific report for each website analysed.
- Ranking in the observatory and in each segment
- General Information about the issues found.
- Grouped by the field "dependent of"
- Included the report for each website and the source code analysed

## ✓ Reports on demand in the "online service for diagnosis"

- Similar to the individual report they would get in an "official wave of analysis"
- Detailed Information about the issues found.
  - Included the line or piece of code with the issue.
- Suggestions and recommendations to solve the issues.



#### **Individual Report**



## **OAW Tracker Tool – Accessibility Community**



#### Access to the online service from the Accessibility Community

#### Comunidad accesibilidad

General Documentación Colaboración Se	ervicio
El servicio de diagnóstico en línea del Obse le remitirá en diferido al correo electrónico informe solicitado junto con el código fuen serán encoladas y procesadas progresivam	indicado, el te analizado. Las peticiones
Puede realizar el análisis de un sitio web ac código fuente de una página interna a la qu acceder, como por ejemplo: una Intranet, u autenticación previa mediante certificado e desarrollo,	ue el analizador no pueda una página que requiera
Si tiene cualquier problema con el servicio, electrónico al Observatorio de Accesibilidad	
Destinatario  Correo electrónico:	Mail to send results
david.lubian@correo.gob.es	
Outcome of the order of their	
Seleccionar el tipo de análisis  De Sitio Web  Analiza un sitio web a partir de una UR página/s de un sitio web público en Intinicial.	Select analysis mode:  • Website to analyze  • Set of URLS to analyze  • Source code to analyze
→O Conjunto de URLs	
Analiza un conjunto cerrado de URLs. A conjunto predefinido de páginas de un s Internet.	
→ Código fuente	
Analiza el código fuente introducido. An una página (p. ej. página de una Intranet pueda acceder).	

Análisis de sitio web	1
URL del portal o página a analizar:	
Opciones de rastreo	
Cantidad de páginas:	
Única	Complexity
Si desea que la selección aleatoria de páginas se realice dentro del último "directorio" (hasta la última "/") indicado en la URL (por ejemplo http://www.dominio.com/directorio/pagina), marque la siguiente opción.	
☐ No rastrear fuera del directorio	
Tipo de informe	1
El servicio generará un informe con el detalle de todos los problemas según la siguiente metodología del Observatorio de Accesibilidad:	
→ ● Seguimiento simplificado Directiva (BETA). Informe conforme al borrador de la metodología para el seguimiento simplificado, basada en la UNE-EN 301 549:2019 .	
Observatorio UNE 2012 (versión 2). Informe conforme a la metodología del Observatorio de Accesibilidad, basada en la UNE 139 803:2012 (versión aprobada en abril de 2018) .	
Otras opciones de configuración:	
> Sin comprobación de enlaces rotos Acelera la ejecución del servicio de diagnóstico al no verificar todos los enlaces existentes en la página analizada.	

Solicitar informe





## **Reuse and Translation**



## Reuse of the open source software

## ✓ Outside Spain

- Government of Argentina and Government of Costa Rica.
- Finalist and certificate of excellence in the sharing and reuse awards 2019 of the European Commission.
- It's being evaluated by the Nordic countries.

## ✓ Inside Spain

- Not needed since we provide the on-line service.
- Some institutions are considering installing it for internal purposes:
  - Validation of all the pages.
  - Internal websites and cevelopment environments.
  - Connection from authoring tools.

http://administracionelectronica.gob.es/ctt/oaw/abstract
http://administracionelectronica.gob.es/ctt/oaw/descargas
https://github.com/ctt-gob-es/oaw

#### OAW Tracker Tool – Reuse - CTT





# OAW Tracker Source Code

#### **Documentation**

Includes instructions for files needing translation

#### **English Translation**

# Javascript Engine (optional) (independent and secured

execution of javascript of external websites)

#### Rastreador OAW WCAG 2.1

#### Versión 5.0.4 OAW - Código fuente

Código fuente del OAW (versión 5.0.4). Para poder analizar todo el código HTML, es decir, también el generado a través de JavaScript deberá desplegar también el motor JavaScript (versión 1.5.3).

#### NUEVO

Liberacion codigo OAW - MAETD v5.0.4 (100787 KB · ZIP)

Fecha de modificación: 22/05/2020

#### Versión 5.0.4 OAW - Documentación

Código fuente del OAW (versión 5.0.4). Para poder analizar todo el código HTML, es decir, también el generado a través de JavaScript deberá desplegar también el motor JavaScript (versión 1.5.3).

#### NUEVO

Documentacion Rastreador OAW WCAG2.1 v6.0.4 (21381 KB · ZIP)

Fecha de modificación: 22/05/2020

#### Translation files (English)

It contains most of the files necessary for the English translation of the OAW. The translation has been done using automatic translation tools.

#### NUEVO

- English Traslator (3884 KB · ZIP) 🗷

Fecha de modificación: 22/05/2020

#### Versión 1.5.3 motor JavaScript - Código fuente

Código fuente del motor JavaScript (versión 1.5.3) necesario para el análisis del código HTML generado a través de dicho lenguaje.

#### **OAW Tracker Tool - Translation**



#### **Situation**

#### First tested English version

- ✓ Everything configurable through properties files
- ✓ Needed collaboration from other entities

## **OAW**

Manipula -tion of properties files EC

eTransla
-tion
(automa-tic)

**OAW** 

Rollback manipulation of propertie s files

New Testing version ????

Debug translation





# **Conclusions**

#### **OAW Tracker Tool - Indicators**



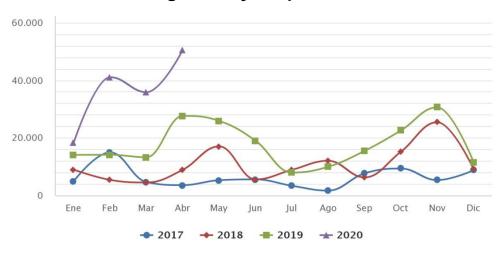
#### **Shared online service**

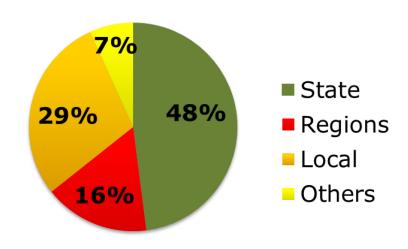
**212.000 pages** analyzed in online service

**In 2019** 

1000 users from different Spanish institutions

#### Pages analyzed per month





#### Official studies of the observatory

- ✓ Around 300 websites in each study
- √ 33 pages per website
- ✓ **52.000 pages** analyzed in official reports in 2019
- √ 47 full studies done with this tool.
- √ 5 different methodologies implemented.



## Supports the directive requirements

Flexible organization of the sample without development

Ready to be used

Ready for translation but needed collaboration

Opensource. Possible collaborative development.





# **Final questions**

General Secretariat of Digital Administration

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http://administracionelectronica.gob.es/PAe/accesibilidad

