

# Strengthening Zimbabwe's GBIF node through collaboration with GBIF Spain

CESP PROJECT. 24-27 SEPTEMBER 2019. MADRID SPAIN



REAL JARDÍN  
BOTÁNICO

Gbif.es



# Work materials

The workshop agenda and materials are online accessible at:



...Google Drive link



<https://bit.ly/2mor5lp>

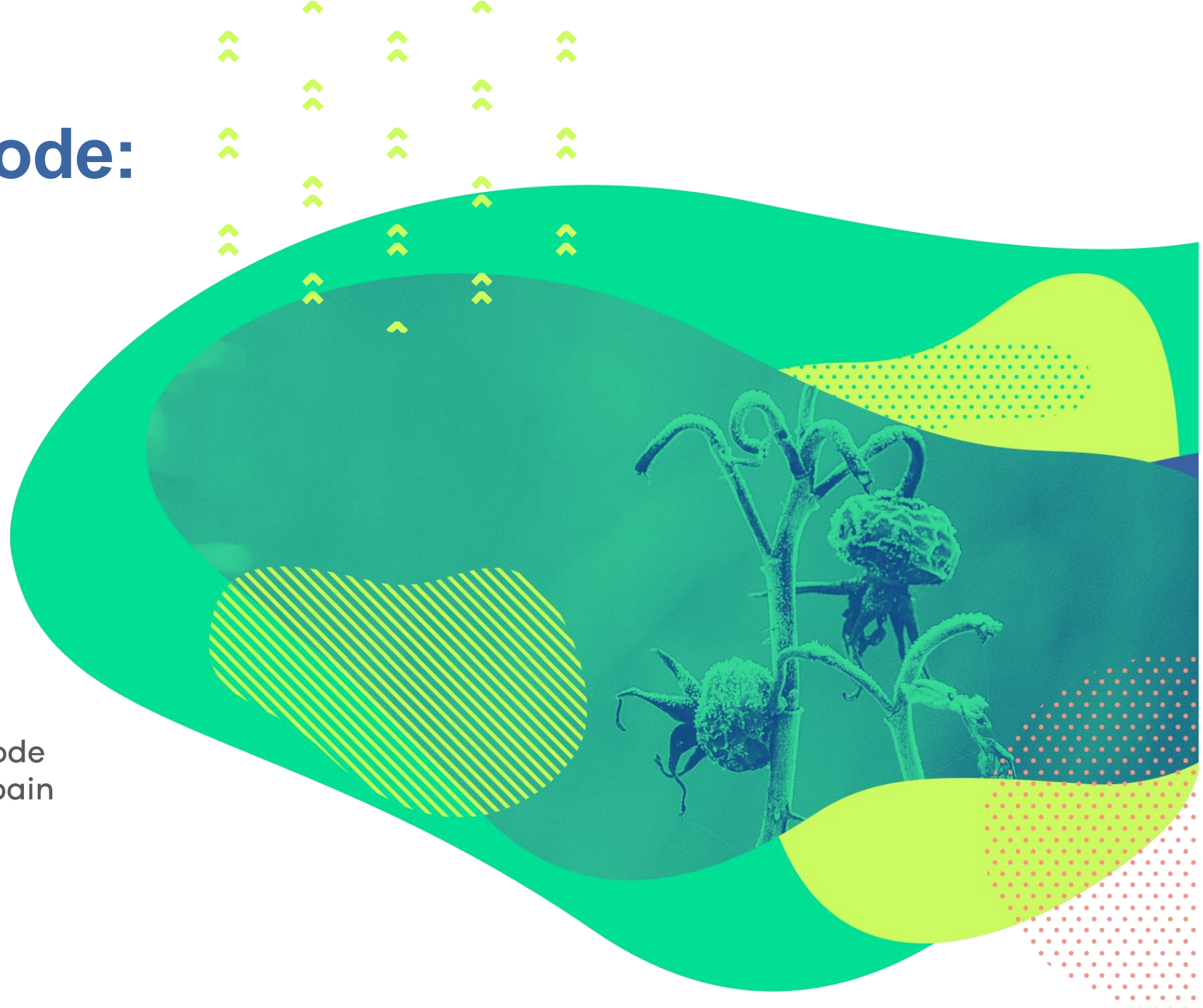


# Spanish GBIF Node: overview

Strengthening Zimbabwe's GBIF node  
through collaboration with GBIF Spain

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**Gbif**.Es





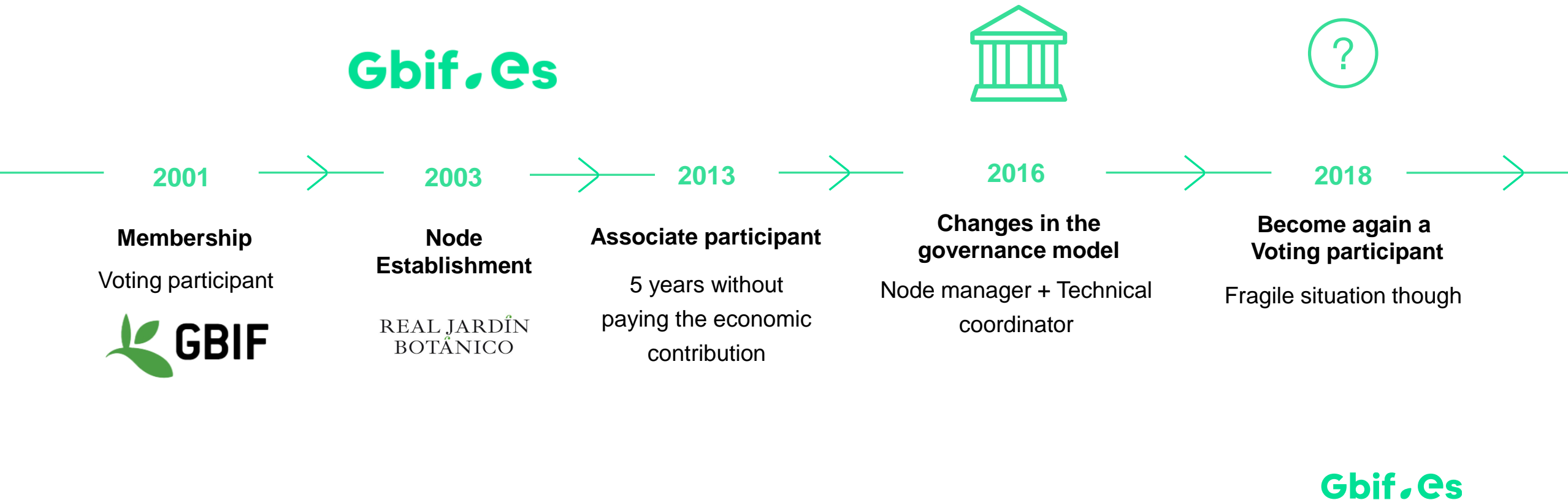
# Content

1. Some background and history
2. Governance of GBIF.ES:
  - Mission, structure, funding and assesment
3. Services
4. Impact of GBIF in Spain: numbers
5. International collaboration



# Background and history

# Time line – Spanish GBIF Node



# Governance

# Governance – Spanish GBIF Node

## Mission

**Making information from Spanish collections and institutions (and other sources) available to the international GBIF network**

**Coordinating GBIF related activities in Spain**

**Supporting the engagement of the Spanish community in the GBIF network**



# Governance – Spanish GBIF Node

## Funding



MINISTERIO  
DE CIENCIA, INNOVACIÓN  
Y UNIVERSIDADES

Ministry of Science, Innovation and  
Universities

## Management



CSIC

CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



REAL JARDÍN  
BOTÁNICO

# Governance – Spanish GBIF Node

## Funding



MINISTERIO  
DE CIENCIA, INNOVACIÓN  
Y UNIVERSIDADES

Ministry of Science, Innovation and  
Universities

- **250 k €** per year for node management from national budget
  - 160 k € for staff salaries
  - 90 k € for other spendings
- Spanish financial contribution to GBIF nearly 200 k €



Spanish  
General  
Budget

# Governance – Spanish GBIF Node

## Assesment

- National Assesment Commite
- Annual reports
  - Technical report
  - Financial report
- Approve next work plan and budget
- All documents available at <https://www.gbif.es/comite-seguimiento-gbif-es/> since 2003



No Strategic plan

No representatives from Ministry of Environment

HoD has a very high position at Ministry



# Governance – Spanish GBIF Node

Structure





# Governance – Spanish GBIF Node

Node staff



# Governance – Spanish GBIF Node

## Node staff

Cristina Villaverde **Technical Coordinator**

Carmen Lujano **Software developer**

Software application development

User support

Informatics infrastructure management

Felipe Castilla **Citizen science officer**

Citizen science engagement

Registry management

Katia Cezón **Data manager**

Datasets publication

User support

Capacity building

Miguel Vega **Communication officer**

Communication

Capacity building

Project management support

# Governance – Spanish GBIF Node

Node satellite



Vicente Ruiz

**Gbif.es**

Manager of the GBIF.ES Data Portal  
Support with GBIF.ES informatics infrastructure

---



Technical coordinator of Living Atlases community



Services

# Services provided by GBIF.ES

Our main goal is to support the engagement of the Spanish community in the GBIF network by providing the following services

**DATA  
PUBLICATION**

For  
Thursday!

**CITIZEN SCIENCE  
ENGAGEMENT**

**DATA ACCESS**

For  
Thursday!

**SOFTWARE  
DEVELOPMENT**

**TRAINING**

**COLLECTION  
REGISTRY**

**HELPDESK**

**COMMUNICATION  
AND OUTREACH**

# DATA PUBLICATION

## IPT OF GBIF.ES

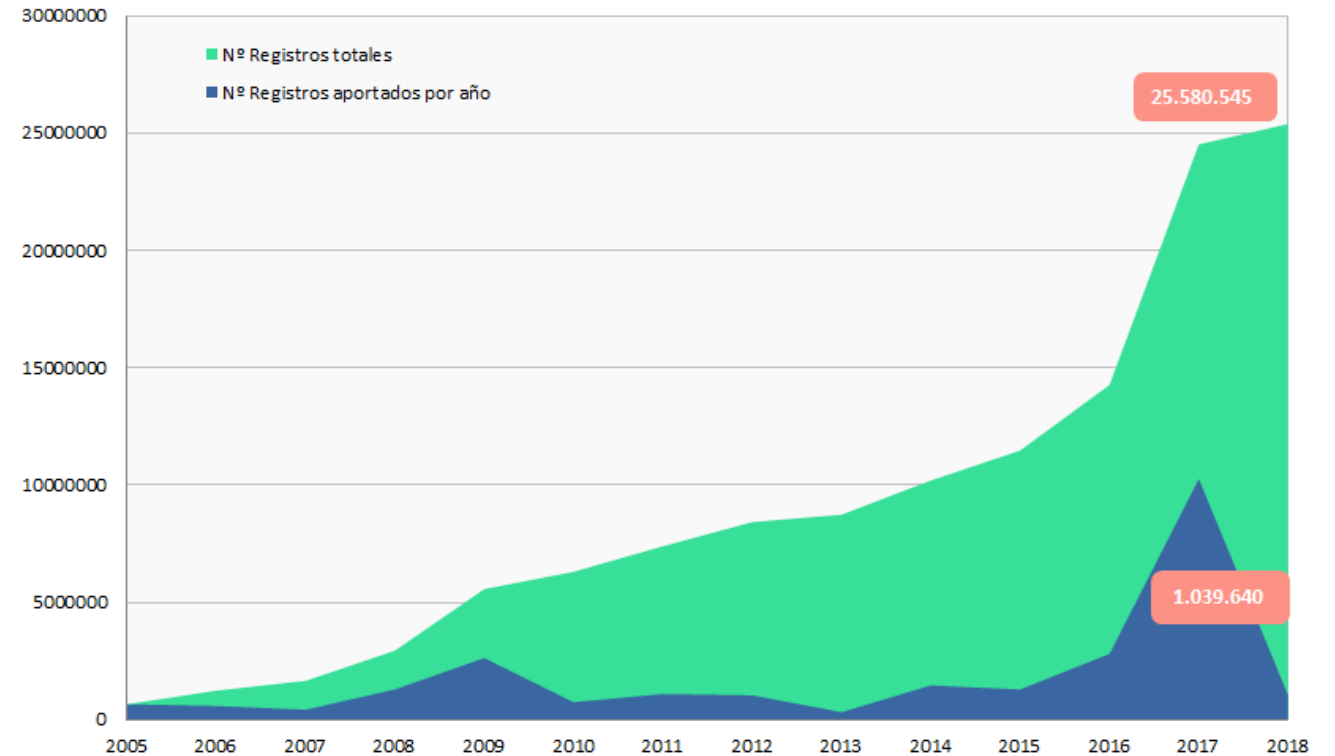
<https://ipt.gbif.es/>

Nr user accounts on IPT	197
Nr of hosted datasets	310 (227 public & 33 private)

## IPT test mode

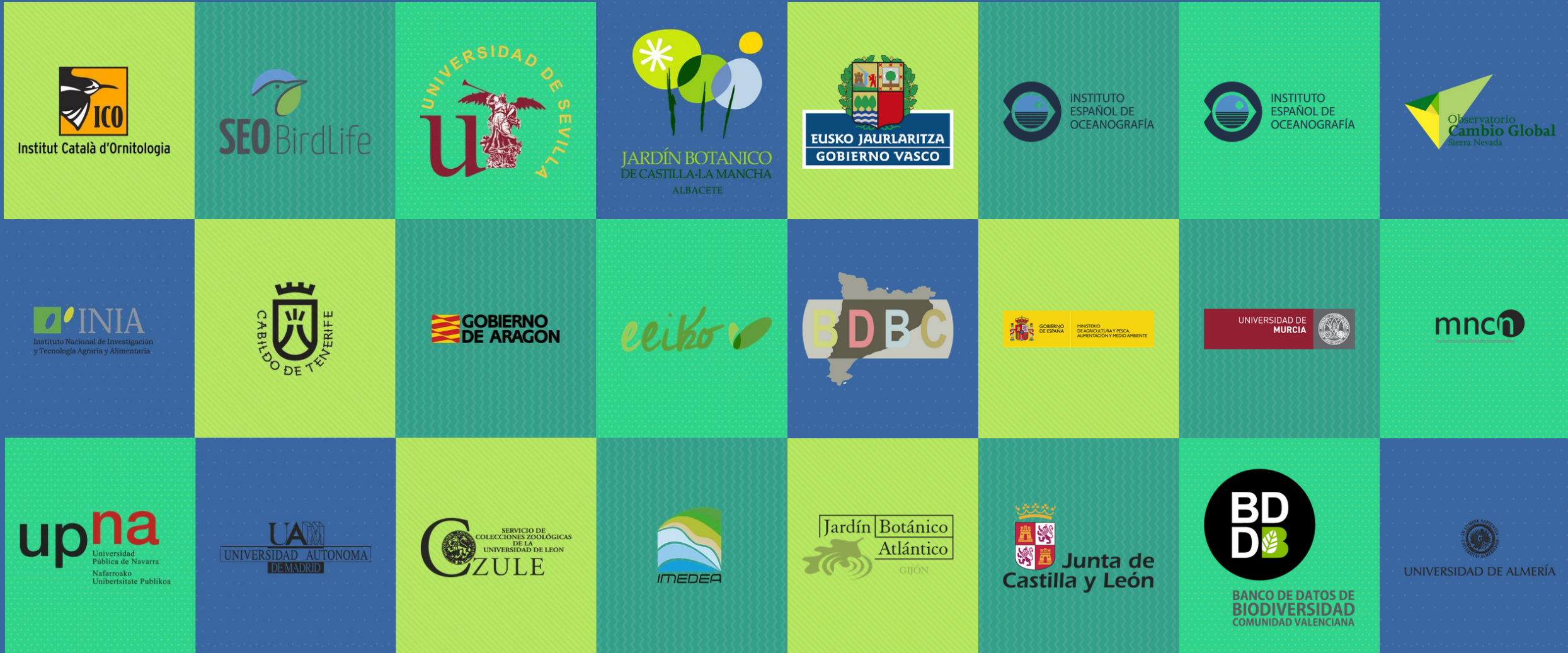
<https://ipt-demo.gbif.es/>

EVOLUCIÓN DEL NÚMERO DE REGISTROS ACCESIBLES E INCREMENTO ANUAL



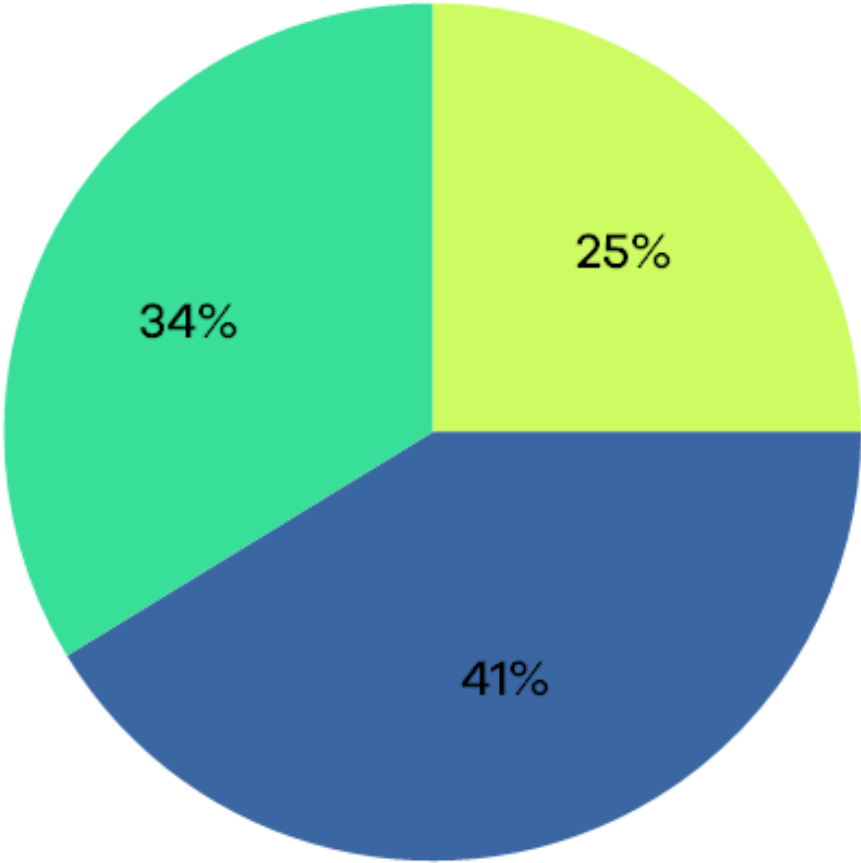


97 data providers | 299 datasets | 32 Million records



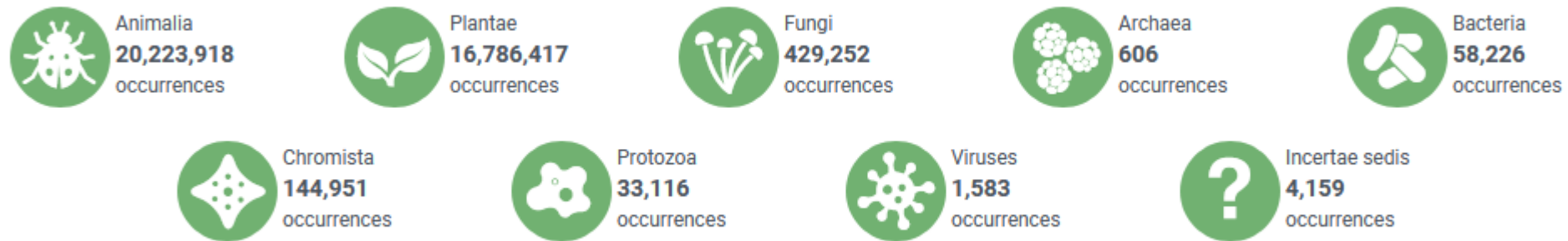
And much more: <https://www.gbif.es/en/datos-biodiversidad/participa-en-gbif-es/participantes/>

Providers – three data source types (July 2019)



- CITIZEN SCIENCE**  
10.866.973 records
- ACADEMIA**  
(Universities, research centers and projects)  
8.047.664 records
- PUBLIC ADMINISTRATIONS**  
13.302.858 records

## Occurrences per kingdom published by Spanish providers



<https://www.gbif.org/country/ES/about>





# DATA ACCESS (SEARCH, DOWNLOAD, ANALISYS)

## National Biodiversity Data Portal – Spanish Atlas

<http://datos.gbif.es/>

The screenshot shows the homepage of the National Biodiversity Data Portal (Spanish Atlas). The header features the Gbif.es logo and navigation links for Data portal, IPT, Natusfera, eLearning, GBIF.ORG, and @GbifEs. A language selector in the top right corner shows CA, EN, and ES, with ES (Spanish) highlighted. Below the header is a navigation bar with links for National Biodiversity Data Portal, Home, Institutions, collections and projects, Datasets, Search, Explore your area, and Regions. The main banner displays the title "National Biodiversity Data Portal" over a background image of green plants. A search bar with the placeholder text "Search the data portal" and an "Advanced Search" button with a magnifying glass icon is positioned below the banner. At the bottom, four statistics are presented: 26.515.836 occurrences, 309 datasets, 102 institutions, and 151.103 species.

**Gbif.es** Data portal IPT Natusfera eLearning GBIF.ORG @GbifEs CA EN **ES**

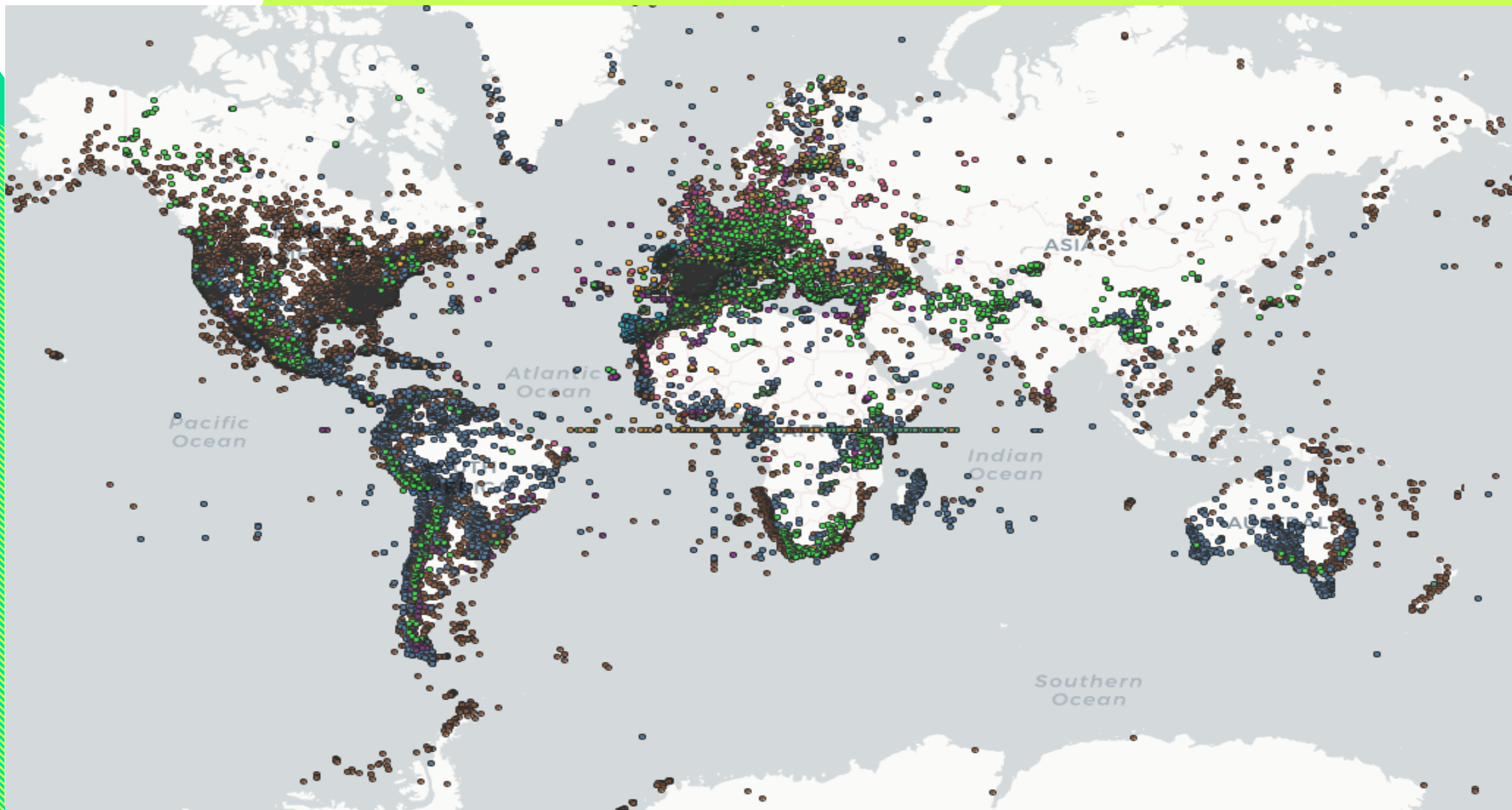
**National Biodiversity Data Portal** Home Institutions, collections and projects Datasets Search Explore your area Regions

**National Biodiversity Data Portal**

Search the data portal Advanced Search

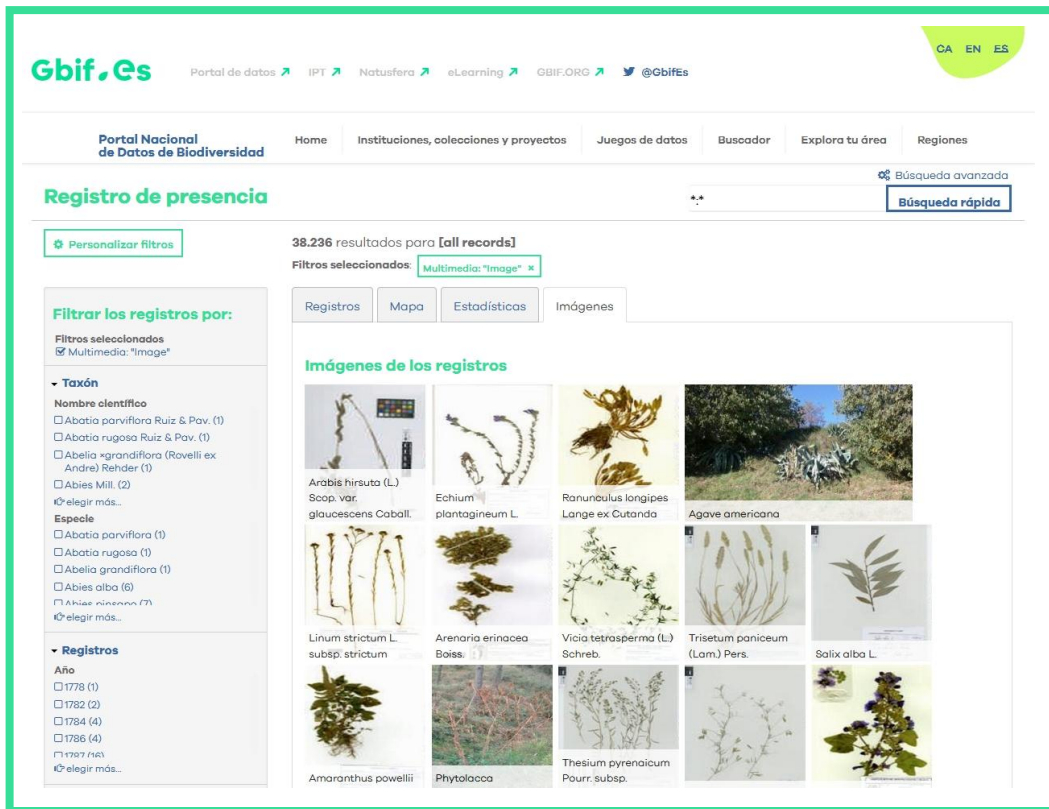
**26.515.836** occurrences **309** datasets **102** institutions **151.103** species





# Atlas of Living Spain

- Based on ALA (Atlas of Living Australia)
- ES, CAT, EN
- Data from Spanish providers
- Search, refine, visualize (records and images) and download data → core components
- More components
- More by Thursday...



<https://imagenes.gbif.es/>



# SOFTWARE DEVELOPMENT



# Software applications developed by GBIF.ES

- Open source and freely available on [GitHub](#)
- Helpful in the data publication process through GBIF → Direct export to Darwin Core
- Software support and training are also freely offered
- These applications are developed here in the Gbif Spain Node by Carmen and Katia with the support from beta tester users. [mcarmen@gbif.es](mailto:mcarmen@gbif.es)





# Elysia

Gestor de  
colecciones  
biológicas

- An application software to digitize and manage botanical and zoological natural history collections.
- Open Source application available on Github (<https://github.com/GBIFes/Elysia>)
- Works on Windows systems
- Software support and training are also freely offered
- Available in English
- User manual available but only in Spanish

<https://www.gbif.es/en/software/elysia/>





# Main functionalities of Elysia

- Manage botanical and zoological natural history collections
- Management of scientific names, countries, provinces, identifications and revisions.
- Allows the creation of Fast Entry (EF) tables
- Assignment of Universally Unique Identifier (UUID)
- It has an attribute system to customize the application
- Allows management of locations, lots, consulting
- Generation of different kind of labels, including labels for microscopic preparations
- Export to a standard format for its visualization on **Internet (Darwin Core Archive)** 
- Support for transactions such as loans, requests and exchanges of specimens with other institutions.

# Elysia screenshots

Main screen form

Normal Entry form

Fast Entry form

Label example document

The screenshot shows the Elysia software interface. On the left is a sidebar menu with the following items: Nherbarium, OcurrenceID, Group, Genus, Aut\_espec, Infrank, Aut\_Infra, Delerm, Month-Year, Taxonomy, Observ, and Folder. Below the menu is a 'Working' status bar. The main area displays a form with tabs for 'Location' and 'Format'. The 'Location' tab is active, showing fields for Country (with a globe icon), Localidad, Municipali, and Coordinat. Below these are fields for Min.,Max., Minir, and Maxir. Further down are fields for Date, Habitat, Collector, Collectors name, and Collector Number. At the bottom, there is a 'Registro: 14' and '1 de 6' indicator.

**GBIF (IEO)**

**Antigonia capros** Lowe, 1843

Guinea-Bissau.?, 11.3033333335 -17.3008333335, *IEO*

IEOCA 244

@IEOCA 244@

**GBIF (IEO)**

**Microchirus boscanion** (Chabanaud, 1926)

Guinea-Bissau.?, 11.459166667 -17.225833333, *IEO*

IEOCA 245

@IEOCA 245@

**GBIF (IEO)**

**Microchirus sp.** Bonaparte, 1833

Guinea-Bissau.?, 11.7783333335 -17.236666667, *IEO*

IEOCA 246

@IEOCA 246@

# Some figures about Elysia

- Used in a total of 23 institutions:
  - Cryptogamy Herbarium in the Royal Botanical Garden (Madrid)
  - Entomological collection of the Natural Science Museum of Tenerife
  - Herbarium Cord (Botanic Museum of Córdoba, Argentina) ...
- And 64 collections
- We provide support to users through:
  - remote control applications
  - emails
  - phone calls

- A simple application software to digitize biological material in an easy and fast way
- Open Source application available in Github ([https://github.com/GBIFes/Elysia\\_Ligero](https://github.com/GBIFes/Elysia_Ligero))
- Works on Windows systems
- Software support and training are also freely offered
- Available in english

<https://www.gbif.es/en/software/elysia-ligero/>

# Elysia Ligerio

- Manage botanical and zoological natural history collections with Fast entry tables
- Creation of different types of labels
- Assignment of Universally Unique Identifier (UUID).
- Export to a standard format for its visualization on Internet ([Darwin Core Archive](#)).





- Useful tool for testing the data quality of your dataset in order to detect possible problems before publishing your biodiversity data through the GBIF network
- Open Source application available in Github (<https://github.com/GBIFes/Darwin-Test>)
- Works on Windows systems
- Software support and training are also freely offered
- It is available in english

<https://www.gbif.es/en/software/darwin-test/>



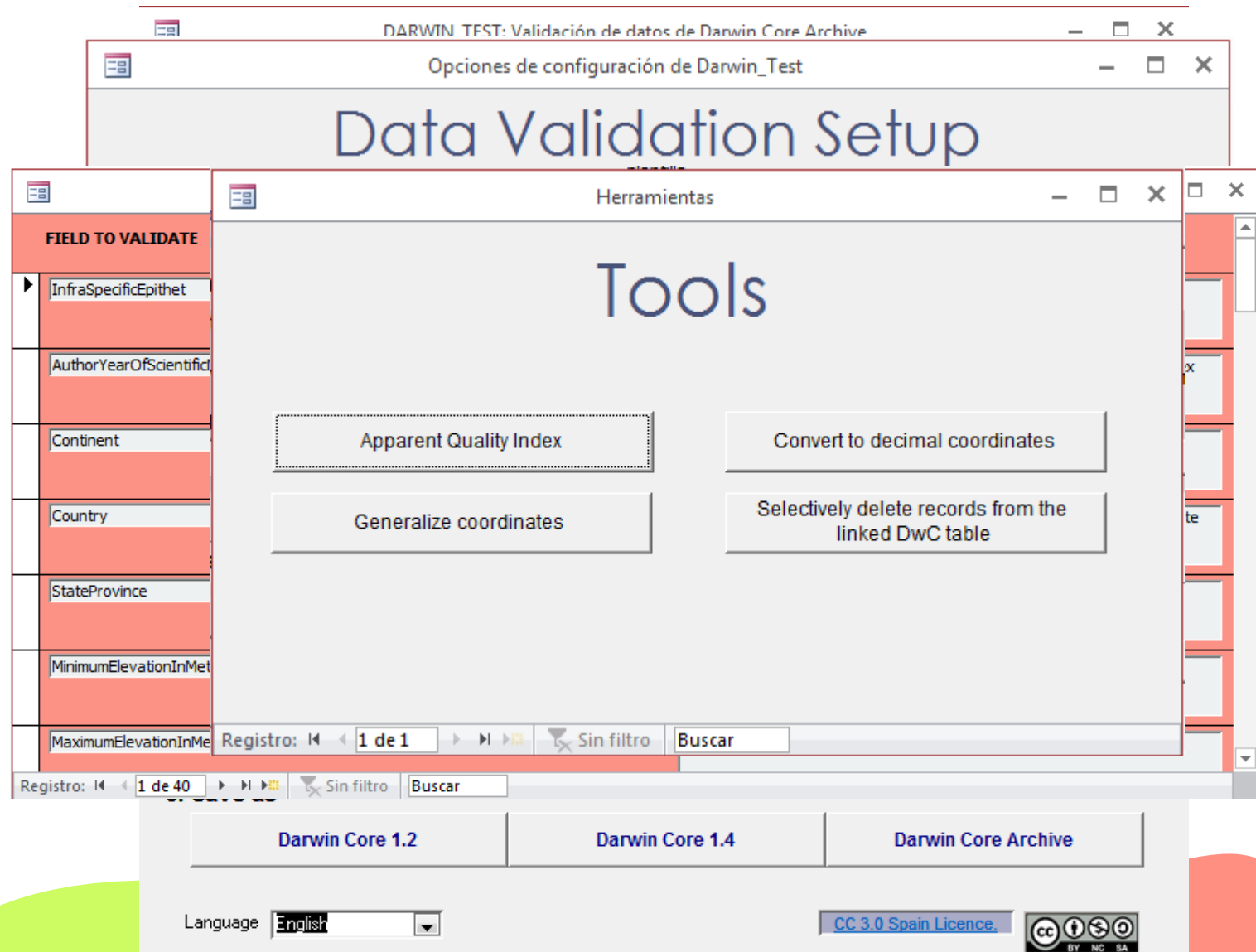
# Main functionalities of Darwin Test

- Designed to validate and test the [Darwin Core](#) records
- Detection of anomalous ASCII characters and correction for other validations defined by the user
- To check scientific names in comparison to the SCIENTIFIC\_NAMES table from [The Catalogue Of Life: ITIS](#) and [Species 2000](#).
- To make direct corrections on wrong records through the validation forms.
- To create new validation queries to fit users needs.
- Coordinate conversions from UTM, MGRS and sexagesimal coordinates to geographic coordinates in decimal degrees which are used in the Darwin Core format.



# Darwin Test screenshots

Main screen form  
Data validation set up  
Validations available  
Tools screen form





# How we use Darwin Test

A quality control is applied to each dataset that will be published in the GBIF Spain IPT  
how:

- Select the data set type (Darwin Core Archive)
- Select the file to be checked

**1. Select**

Data set type to be validated:

☐ DarwinCore 1.2 (mdb)    ☐ DarwinCore 1.4 (mdb)    ☒ DarwinCore Archive (zip)

Select the data source to validate:

C:\Darwintest\_3.4\DwCArchive.zip ... Ok

- Click on **Validate data** button

Validate data

# How we use Darwin Test II



Validations that Darwin Test is going to apply to your data

Configuración de validaciones a realizar en Darwin Core Archive

FIELD TO VALIDATE	QUERY TO RUN	CHECKED	VALIDATIONS TO MAKE
InfraSpecificEpithet	Valida InfraSpecificEpithetA	<input checked="" type="checkbox"/>	First species name letter must be in lower case letters.
AuthorYearOfScientificName	Valida AuthorYearOfScientificNameA	<input type="checkbox"/>	First Author name letter must be in capitals, except for "sensu", "auct.", "ex.", "in.", "em.", "per.", "nom. in.", "nov. nom."
Continent	Valida ContinentA	<input checked="" type="checkbox"/>	Continent name must exist in 'Continentes' table.
Country	valida CountryA	<input checked="" type="checkbox"/>	Country name must exist in ISO3166 table, as 2-letters code or as complete country name
StateProvince	Valida StateProvinceA	<input checked="" type="checkbox"/>	Province name must exist in ISO3166-2 table, as 2-letters code or as complete province name.
MinimumElevationInMeters	Valida MinimumElevationInMetersA	<input checked="" type="checkbox"/>	Altitude must be a value between 8.800 and -100 (under sea level).
MaximumElevationInMeters	Valida MaximumElevationInMetersA	<input checked="" type="checkbox"/>	Altitude must be a value between 8.800 and -100 (under sea level).

Registro: 1 de 40 Sin filtro Buscar

# How we use Darwin Test II



ScientificName:	Tetraclinis articulata (Vahl) Masters	Kingdom:	Plantae
Genus:	Tetraclinis	Phylum:	
SpecificEpithet:	articulata	Class:	
InfraSpecificEpithet:		Order:	
TaxonRank:		Family:	Cupressaceae
scientificNameAuthorship:	(Vahl) Masters	TypeStatus:	
IdentifiedBy:	F.		
DateIdentified:			
InstitutionCode:	HU	de:	HUAL
CatalogNumber:	32	int:	1
RecordedBy:	F.	rd:	PreservedSpecimen
RecordNumber:		ed:	2008-06-20T23:51:37
EventDate:	20	rs:	
Country:	MA	Continent:	
StateProvince:		County:	
Locality:	De Imi-n-Tanoute a Agadir		
DecimalLatitude:		CoordinateUncertaintyInMeters:	
DecimalLongitude:		PointRadiusSpatialFit:	
MinimumElevationInMeters:		MinimumDepthInMeters:	0
MaximumElevationInMeters:		MaximumDepthInMeters:	0
		Sex:	
		Preparations:	Herbarium specimen

**Save Darwin Core Archive validated** ?

**Create a DwC table to correct the original database** ?

**To validate**

Province name must exist in ISO3166-2 table, as 2-letters code or as complete province name.

**DwC data verification**

An example how to use Darwin test (spanish only): <https://www.youtube.com/watch?v=kOSe393xFxM>



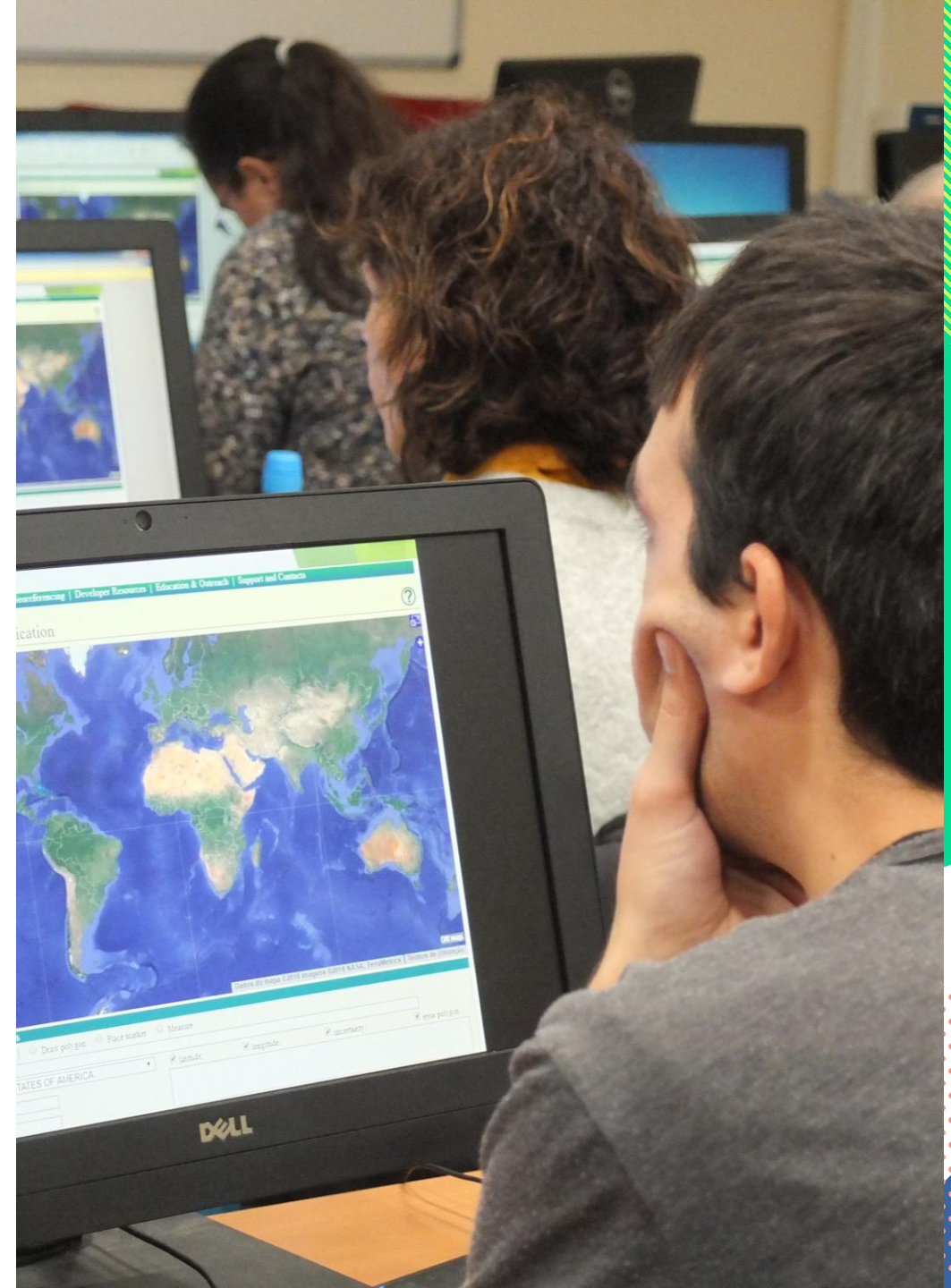
A chalkboard with mathematical equations and a diagram. The top equation is  $\frac{dS}{dt} = T_0 q_0 (1 - N_0) / (1 - \epsilon S) S + \frac{f_0 N}{T_m} - \frac{c}{T_p}$ . Below it is  $\frac{S}{P} = \frac{T_p \lambda_0}{T_m} = \Theta$ . To the right is a diagram of a box labeled  $S$  with  $\frac{1}{\epsilon}$  inside. On the far right,  $N_0$  and  $P_f =$  are visible.

# TRAINING AND CAPACITY BUILDING



# What's the goal of the training activities run by GBIF.ES?

- Take the most of the billions of records available through GBIF
- Expand the GBIF community and the impact of its activities



# Who are workshops addressed to?

- Data providers and data users
- Scientists, decision makers, curators, natural history staff, general public, biodiversity experts, etc.





# Experience



- Workshops since the node was established (in 2003)
- Node staff as instructors but also guests teachers
- Annual training plan (8-10 workshops per year)
- Onsite and online workshops
- Effective way to expand Spanish community

# What are the topics covered?

## Data recording and digitizing tools

- Workshop on **Data Recording** for Technicians in Natural History Collections
- Workshop on Biodiversity **Collections Management** using Elysia
- Workshop on **data capture with mobile devices** and management (B-VegAna: ZamiaDroid and Fagus modules)
- Workshop on **Biodiversity Databases' Migration**
- Workshop on Babilonia
- Workshops around **Citizen Science Platform: Natusfera**

## Data quality

- **Data Quality in biodiversity databases** Workshop

# What are the topics covered?

## Data access

- Functionalities and web services of the **GBIF.ES Data Portal**
- Workshop to show the **functionalities of the GBIF.org Data Portal**

## Data publishing

- Workshop on Biodiversity **data publishing and data papers**
- Workshop on **Publication of Species Information**
- Workshop on **Using, Managing and Publishing Biodiversity and Natural Heritage Data**
- Workshop on **Biodiversity Databases and GenBank**
- Workshop on **Sensitive Data** Management



# What are the topics covered?

## Tools available to analyze data

- Workshop on Using **QGIS and CARTO** to work with biodiversity records
- **Ecological Niche Modelling** Workshop
- Workshop on the Management, Visualization and Analysis of Ecological Data by using **R software**
- Workshop on **Georeferencing Natural History Specimens** using GEOLOCATE
- Workshop on Tools for **Cybertaxonomy**
- Workshop about **Digital Image for Biodiversity Studies**

## International workshops

- Customization of the Atlas Of Living Australia (ALA)
- Persistent identifiers
- Georeferencing

# TRAINING AND CAPACITY BUILDING

by numbers

120

Workshops since 2003  
(organized by GBIF.ES)

1,860 students

33 instructors


16

Nationalities

**Most popular  
workshops**

Ecological Niche Modelling  
Data quality  
Data analysis with R

# Methodology



**XV GBIF.ES  
Workshop on  
Ecological Niche  
Modelling**

**Event**

**Open call for XV GBIF.ES  
Workshop on Ecological Niche  
Modelling**

The registration period for the XV GBIF.ES Workshop on Ecological Niche Modelling is already opened. This workshop will take place on September 4-7, 2019 in the computer room at...

[Read more](#)

1. **Open call two months before** the workshop
2. **Publishing the call** in our communication channels and spread the call in distribution lists and specialized media
3. One-month application period
4. **Online submissions** (Google forms)
5. Selection process, priority to GBIF.ES community
6. Personal data collected from applicants are stored in our database
7. **Evaluation form** after workshops
8. **Diploma**
9. **Free courses**
10. Officially recognised by the Research Council as Master courses
11. All materials available at <https://www.gbif.es/en/formacion/>

# Facilities



Computing room



Max. of 30 participants



31 PC's with Internet access



Video recording and broadcast service



Shared folder



Electronic blackboard




# e-Learning platform


<http://elearning.gbif.es/>


**Gbif.es**  
Formación virtual


HomepageMy coursesReportingSocial networkAdministration451




Profile


 Inbox 451


 Compose


 Pending invitations


 Edit profile


Courses

 Create a course


 Add a training session

 Sort courses


 Courses history


 Course catalog


Skills


 My certificates


Most popular courses


**Establishing a GBIF Participant node - Africa 2019**  
★★★★★  
3 Votes | 1139 Visits | Your vote [?]

**Establishing a GBIF Participant node**  
★★★★★  
3 Votes | 2039 Visits | Your vote [?]

**Establishing a GBIF Participant node - Pacific 2019**  
★★★★★  
0 Votes | 1073 Visits | Your vote [?]

**Data Mobilization Workshop in Asia**  
★★★★★  
4 Votes | 1573 Visits | Your vote [?]


**BID Online - Biodiversity Data Mobilization**  
★★★★★  
1 Vote | 2335 Visits | Your vote [?]

**2019 Global Nodes Training - Next Steps in Node Management**  
★★★★★  
0 Votes | 74 Visits | Your vote [?]

**Gbif.es**  
Formación virtual





HomepageMy coursesReportingSocial networkAdministration451

BID AFRICA - Data Use for Decision MakingSwitch to teacher view

**BID** | Biodiversity Information for Development

ENGLISH  
Welcome to the eLearning space supporting the Data Use for Decision Making workshop of the Biodiversity Information for Development (BID) programme!  
We will use this space to access training materials, stay in contact with peers and trainers and perform some exercises.  
Please use the navigation box on the left (or below) to access the eLearning space options. Course contents are available at Learning path section.  
The BID programme is funded by the European Union and co-funded by GBIF. The hosting for this eLearning space is kindly provided by GBIF Spain, which is sponsored by the Spanish Ministry of Economy and Competitiveness and managed by the Spanish National Research Council - CSIC through its Royal Botanical Garden - CSIC.

FRANÇAIS  
Bienvenue sur l'espace d'apprentissage en ligne de l'atelier sur l'utilisation des données pour la prise de décision du programme Biodiversity Information for Development (BID).  
Nous allons utiliser cet espace pour accéder aux documents de formation, maintenir le contact avec les autres participants et les formateurs, et faire quelques exercices.  
Veuillez utiliser la boîte de navigation sur votre gauche (ou ci-dessous) pour accéder aux options de l'espace d'apprentissage. Le contenu du cours est disponible dans la section Learning path.  
Le programme BID est financé par l'Union européenne et cofinancé par GBIF. L'hébergement pour cet espace d'apprentissage en ligne est gracieusement fourni par GBIF Espagne, qui est parrainé par le Ministère Espagnol de l'Economie et de la Compétitivité et géré par le Conseil National de Recherche Espagnol - CSIC à travers son Jardin Botanique Royal - CSIC.

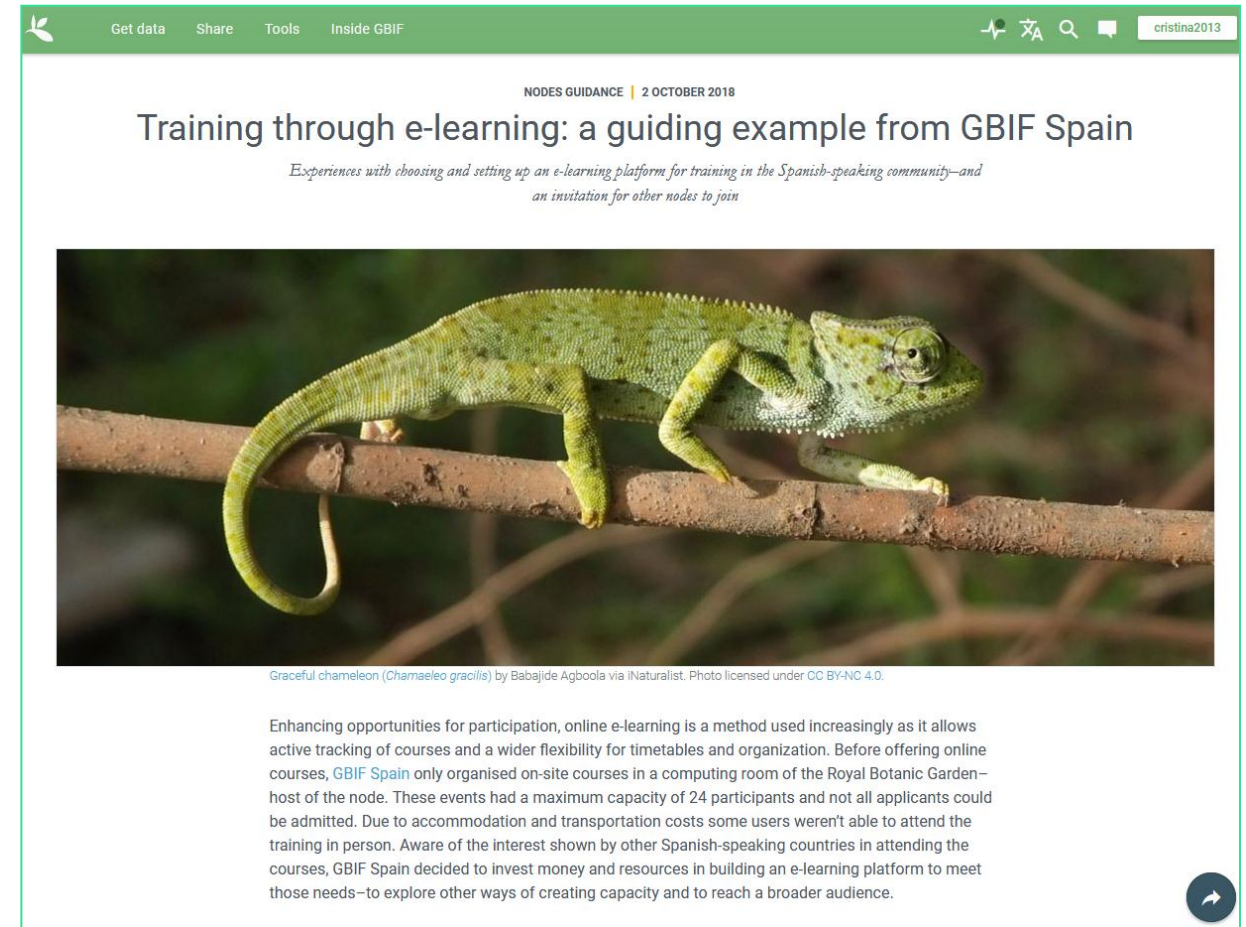




# e-Learning platform

<http://elearning.gbif.es/>

1. Working since 2012
2. Current system: **Chamilo**
3. **20 workshops, around 500 students, 15 nationalities**
4. **Mainly from Latin-American**
5. Not all topics, only those courses that can be adapted
6. **Hosts BID and BIFA courses**
7. **Hosts Biodiversity Data Management Skills for Students (BioDATA) and Biodiversity Information Management and Reporting (BIMR), reaching communities in Eurasia and South-East Europe respectively.**
8. **Service available for the GBIF community**



<https://www.gbif.org/article/4moVPTOdOg2uoEkMYqmSwM/training-through-e-learning-a-guiding-example-from-gbif-spain>

# e-Learning platform

**BISS** Information Science and Standards

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Conference AbstractBiodiversity Information Science and Standards 3: e37070  
<https://doi.org/10.3897/biss.3.37070> (18 Jun 2019)

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This article is part of:  
[SS48 Strengthening the biodiversity informatics community of practice through capacity enhancement](#)

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## E-learning in GBIF Capacity Activities

▼ [Katia Cezón García](#), [Cristina Villaverde](#), [Carmen Lujano](#), [Laura Russell](#)

### Abstract ▲

E-learning is a training method increasingly used as it enhances opportunities for participation, allows active tracking of courses and enables wider flexibility for timetables and organization. The implementation of an e-learning platform managed by GBIF Spain was aimed at exploring other ways of creating capacity, reaching a broader audience and multiplying the impact of a well-consolidated training facility. The first platform, used by the Spanish node in 2012, was the open source tool ATutor, which was migrated to Chamilo in 2017 and is available at <http://elearning.gbif.es>. Since then, these platforms have hosted courses focused on biodiversity data mobilization and data use, addressing both users and data publishers. GBIF.es offers the platform to other organizations in the community so the entire GBIF network can benefit from this service, taking advantage of the already invested resources. Additionally, the GBIF Secretariat uses the platform for developing training activities in the Biodiversity Information for Development (BID) and Biodiversity Information for Asia (BIFA) programmes reaching participants in sub-Saharan Africa, the Caribbean and the Pacific, and has implemented the Biodiversity Data Mobilization course for use in other programmes such as Biodiversity Data Management Skills for Students (BioDATA) and Biodiversity Information Management and Reporting (BIMR), reaching communities in Eurasia and South-East Europe respectively. GBIF Argentina has also used it to offer a course on biodiversity data quality and publication. In this session, we will overview the GBIF.es e-learning platform, highlight some successful use cases of the virtual training tool and show how it helped GBIF Spain reach a broader community. We will also present plans for future expansion.

### Keywords ▲

e-learning, GBIF, biodiversity data, Chamilo, capacity enhancement

### Presenting author ▲

Cristina Villaverde



<https://biss.pensoft.net/article/37070/>

A close-up photograph showing several hands being held together in a supportive gesture. The hands are of different skin tones and are wearing various accessories like bracelets. The background is blurred, showing parts of people in a casual setting. The word 'HELPDESK' is overlaid in white, bold, sans-serif font in the center of the image.

**HELPDESK**



**Software**

**Data standarization**

**IPT management**

**Data publication**

**Search and access data**

**Citizen science apps**

**Useful online tools**

**Etc.**






# **GBIF.ES REGISTRY OF SPANISH BIODIVERSITY COLLECTIONS**





# GBIF.es Registry of Spanish biodiversity collections



Sociedad Española de Ornitología

<http://www.seo.org>

Número de Registros Publicados en Gbif

9.195.619

Accede a los datos

Ver en el portal de datos

Publica

Sí

Contacto

Juan Carlos Del Moral González

Technical Contact

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Technical Contact

Arantza Leal Nebot

Contacto

Código	Fecha Alta	Fecha Publicación
SEO/BirdLife	21-07-2016	13-07-2016

Descarga Ficha

Descripción

SEO/BirdLife es una asociación no lucrativa y declarada de Utilidad Pública, representante de BirdLife International en España, una federación que agrupa las asociaciones dedicadas a la conservación de las aves de todo el mundo. Se trata de la mayor organización global de conservación de las aves y la naturaleza, que cuenta con representantes en 121 países y moviliza aproximadamente 13 millones de socios y simpatizantes en todo el mundo. Su personal está formado por una Junta Directiva más un equipo de profesionales que se estructura en varias Direcciones y Áreas Operativas con base en su sede central en Madrid. SEO/BirdLife cuenta con una amplia implantación con su red de Delegaciones Territoriales y Oficinas Técnicas. Este importante equipo es el encargado del desarrollo del Programa Estratégico cuatrienal de SEO/BirdLife que recoge sus objetivos, metas y actuaciones. La base social está formada actualmente por más de 12.000 socios, que respaldan la labor de la organización y colaboran desinteresadamente en numerosas actividades. Más de 7.000 voluntarios participan anualmente en dichas actividades, 25.000 simpatizantes apoyan de una u otra manera esa labor y por los programas educativos pasan cada año más de 70.000 niños y jóvenes. Además, cuenta con una de 43 Grupos Locales (agrupaciones de socios), distribuida por toda España y que constituyen un importante elemento en el trabajo de la organización.

Información general

Objetivos

Los objetivos generales son:

- Conservar las aves silvestres y su hábitat en el territorio español y, a través de BirdLife International, contribuir a la conservación de la biodiversidad mundial.
- Realizar estudios científicos para aumentar los conocimientos sobre las aves silvestres y su hábitat, en particular como herramienta indispensable para su conservación.
- Impulsar programas de voluntariado ambiental para mejorar el estado de conservación de especies y de espacios naturales.
- Difundir el conocimiento, aprecio y respeto a las aves y a la naturaleza en general.
- Trabajar en educación ambiental y formar al profesorado en las materias objeto de los fines anteriores.
- Trabajar en la cooperación internacional para el desarrollo, como motor fundamental para la conservación y uso sostenible de la biodiversidad en los países en vías de desarrollo.

Los objetivos objetivos particulares del proyecto "aves acuáticas" son:

Código	Fecha Alta	Fecha Publicación
SEO/BirdLife-Aves Acuáticas	21-07-2016	13-07-2016

Descarga Ficha

Descripción

Registro de todas las especies de aves acuáticas presentes en cualquier humedal de España. Disponible la información preferentemente de censos de entre 1965 hasta la actualidad y se actualiza anualmente.

Información general Digitalización Mapa de Especímenes Estadísticas de uso Recursos Relacionados

Información general

Puntos fuertes

\*Evolución de las poblaciones de aves acuáticas. \*Inventariación de humedales. \*Clasificación de humedales en función de su importancia en presencia de aves acuáticas.

Cómo citar

SEO/BirdLife, año en cuestión. Censos de aves acuáticas compilados por SEO/BirdLife. Madrid.

Restricciones de uso

Para los datos existentes entre 1990 y 2010 se debería solicitar permiso de uso a las comunidades autónomas.

Restricciones de acceso

Para los datos existentes entre 1990 y 2010 se debería solicitar permiso de uso a las comunidades autónomas.

Cobertura Taxonómica

Nombres Científicos

Alcedinidae, Alcedidae, Anatidae, Ardeidae, Burhinidae, Charadriidae, Ciconiidae, Diomedidae, Embericidae, Fregatidae, Gaviidae, Gruidae, Haematopodidae, Hydrobatidae, Laridae, Pandionidae, Pelecanidae, Phalacrocoracidae, Phoenicopteridae, Podicipedidae, Procellariidae, Rallidae, Recurvirostridae, Scolopacidae, Stercorariidae, Sternidae, Strigidae, Sulidae, Sylviidae, Threskiornithidae y Turnicidae.

Localización Temporal

Cobertura Temporal

1965 en adelante.

## Datos generales

Fecha de cumplimentación del cuestionario\*

AAAA / MM / DD

Institución\*

En el caso de un departamento o administración dentro de una institución o centro de nivel superior, se recomienda poner ambas de mayor a menor categoría y separadas por un guion o punto. Ej. CSIC-Real Jardín Botánico.

Nombre de la Institución en Español

Nombre de la Institución en Inglés

 Añadir otro idioma 

Código\*

Se recomienda usar unas siglas, un acrónimo o una abreviatura de la institución, que la designe o sea fácilmente reconocible. En el caso de un departamento o administración dentro de una institución o centro de nivel superior, se recomienda poner ambas siglas o acrónimos de mayor a menor categoría separadas por un guion o punto. Ej. CSIC-RJB.

Introduce aquí el código

Dirección\*

Calle y número, portal, etc.


CP

País

Provincia

Páginas web\*

<http://www.urldelainstitucion.com>

 Añadir otra web

Teléfono\*

Fax

Número de teléfono

Número de fax

Correo electrónico de contacto\*

[emaildelainstitucion@url.com](mailto:emaildelainstitucion@url.com)

URL del logotipo de la institución  
(tamaño mínimo recomendable 1000x1000px)

<http://www.url.com/logotipo.jpg>



**COMMUNICATION**

# GBIF.ES communication approach

1

Lots of nodes do not have a dedicated communication team, but **we are lucky, we do have a communication officer!** We spend lot of time and lot of effort in GBIF.ES communication and engagement.

2

We lack some support from the **communication team** our host institution Opportunity. We could reach a much wider audience, more support from media.

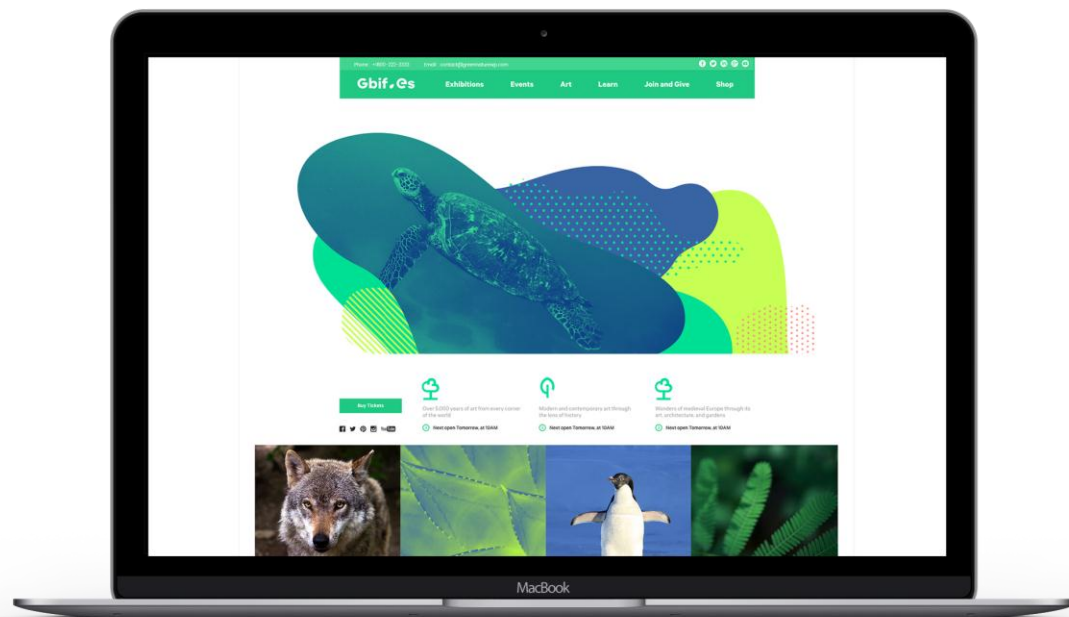
3

The reality is that **we learn communication skills** from others, we «copy» or scratch successful communication strategies, and it works!



4

**Branding** is important, useful and time saving



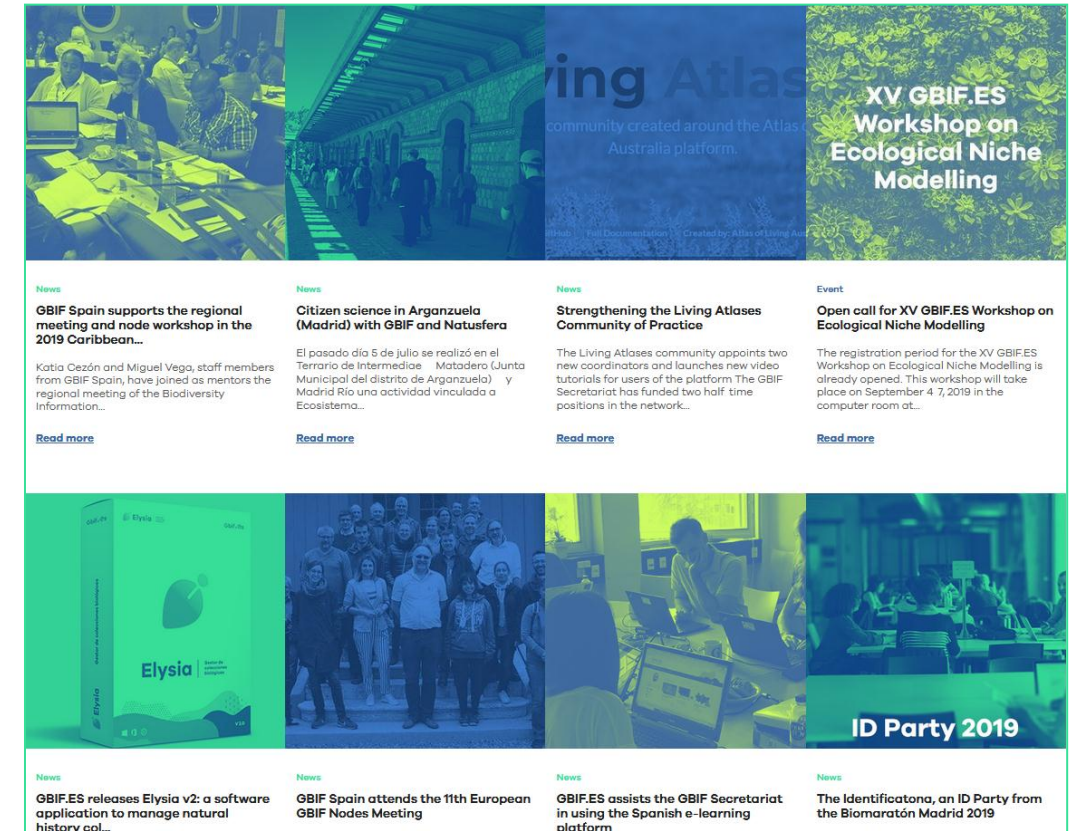
Gbif.Es



# GBIF.ES communication channels

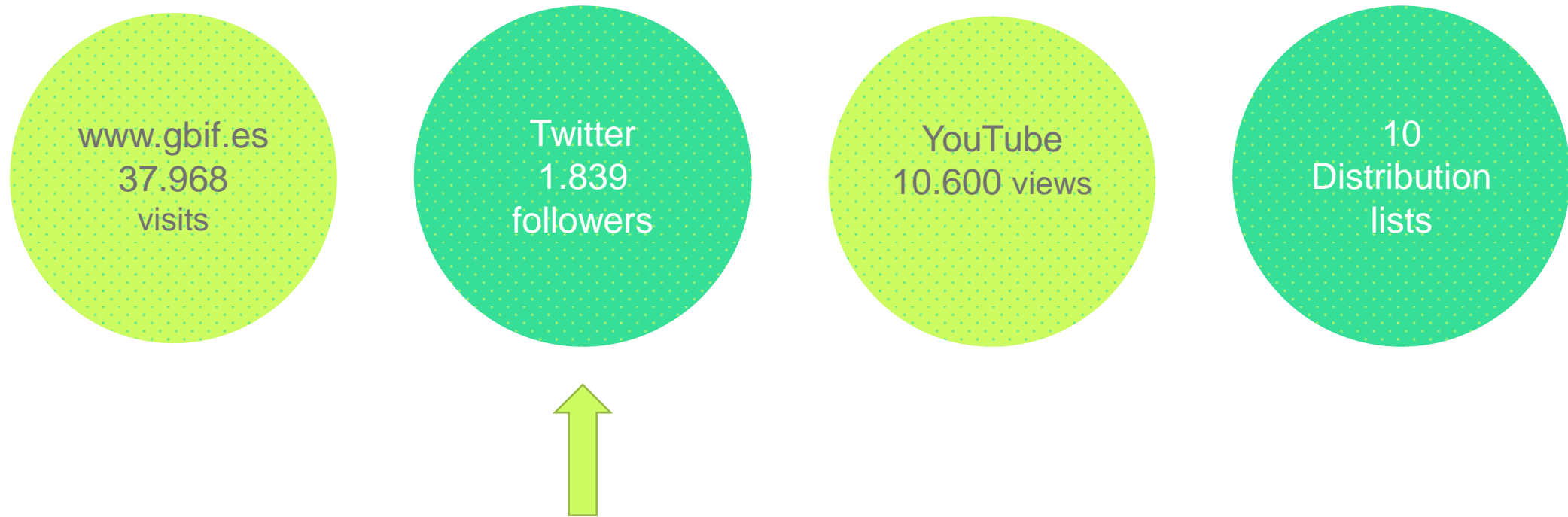
- Webpage (wordpress) <https://www.gbif.es/en>
- Thematic mailing lists
- Newsletter (not regular)
- Twitter <https://twitter.com/GbifEs>
- Youtube channel  
<https://www.youtube.com/channel/UCv8tuNZLgEcGAJ1JUujVukg>
- LinkedIn <https://www.linkedin.com/company/gbif-spain/>

Other ways for engagement: training activities, thematic projects (e.g. OpenPSD for engaging private sector) presentations in conferences, gathering with different stakeholders



<https://www.gbif.es/en/noticias-y-eventos/>

# GBIF.ES communication channels: stats



# GBIF.ES Twitter

 **GBIF España/Spain**  
3.007 Tweets



Editar perfil

**GBIF España/Spain**  
@GbifEs

Nodo Nacional de Información en Biodiversidad patrocinado por @CienciaGob, gestionado por @CSIC a través de @RJBOTANICO // Spanish @GBIF Node

📍 España 🔗 [gbif.es](https://gbif.es) 📅 Se unió el mayo de 2013

**655** Siguiendo **1.839** seguidores

Tweets

Tweets y respuestas

Multimedia

Me gusta

**GBIF España/Spain** @GbifEs · 28 ago.

Apúntate hasta el 10 de septiembre al [#tallerOnline2019](#). En su 2ª edición volvemos a contar con la experiencia de [@CitocromoB1](#) (@RJBOTANICO) y [@ChaconLabella](#) (INIA).

Más información en: [gbif.es/talleres/ii-ta...](https://gbif.es/talleres/ii-ta...)



7 - 21 Octubre 2019

**II Taller GBIF.ES online: Manejo, visualización y análisis de datos en ecología con R (nivel iniciación)**

Este taller pretende sentar las bases para que los participantes sepan utilizar el software R de manera autónoma para manejar, manipular, visualizar y analizar datos de ecología y biodiversidad. Se hace especial énfasis en aquellas competencias que posibilitan ser un usuario eficiente del programa como el manejo de directorios, la manipulación de objetos, la creación de gráficos (ggplot), etc.

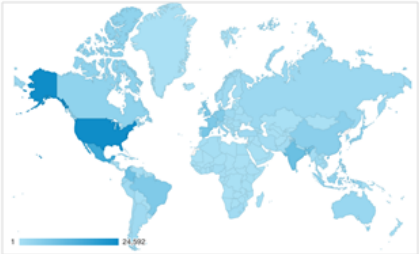
Gratuito - 30 Horas lectivas

ONGAWA y 9 más

💬 1    ↺ 7    ❤️ 12    ↗    |||

# Impact of GBIF in Spain

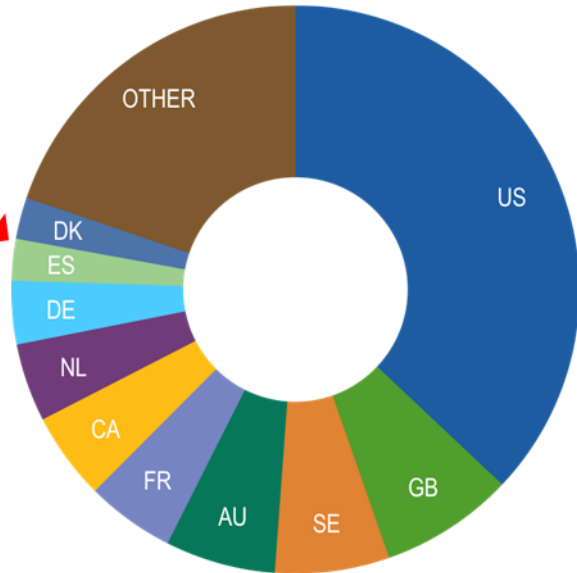
GBIF.org Web traffic  
Year-to-date 1 June 2019



Rank	Country/Territory	Sessions	% total sessions	3/19 rank	Pages / session
1	United States	82,586	12.07%	1	2.52
2	Mexico	48,461	7.08%	2	2.76
3	India	41,268	6.03%	3	2.42
4	Colombia	37,285	5.45%	4	3.80
5	Spain	28,189	4.12%	5	3.24
6	Brazil	26,669	3.90%	8	3.06
7	United Kingdom	25,293	3.70%	7	3.19
8	France	24,124	3.52%	6	2.66
9	Germany	22,883	3.34%	9	3.02
10	China	20,059	2.93%	10	3.67

Total number of  
occurrence records  
published by country  
31 May 2019

	Country	Occurrences	2/19 rank
1	United States	482,913,030	1
2	United Kingdom	99,358,210	3
3	Sweden	84,901,398	2
4	Australia	81,804,224	4
5	France	65,634,579	5
6	Canada	64,887,821	8
7	Netherlands	58,002,955	6
8	Germany	47,018,927	7
9	Spain	30,932,654	9
10	Denmark	30,798,872	10

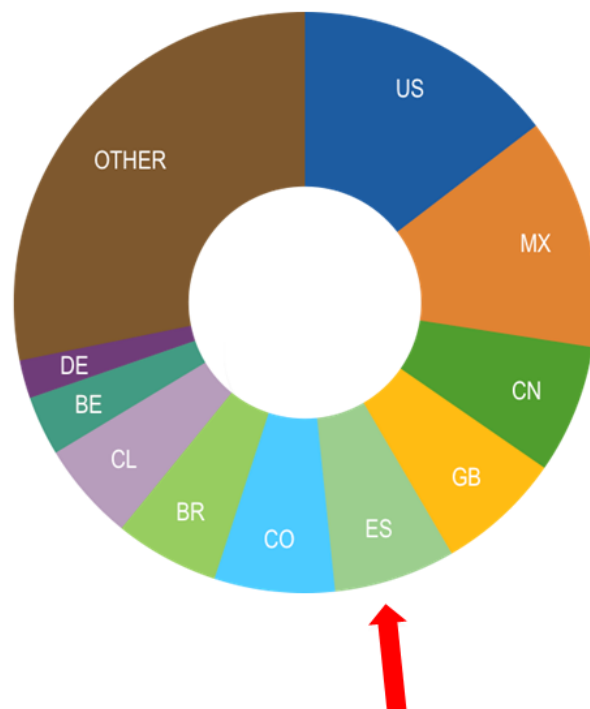




## Data download requests by country

Year-to-date 31 May 2019

	Country	Downloads	2/19 rank
1	Mexico	9,308	2
2	United States	7,942	1
3	Brazil	4,326	7
4	United Kingdom	3,556	4
5	China	3,282	3
6	Colombia	3,271	6
7	Spain	3,054	5
8	Chile	2,310	8
9	South Africa	1,778	25
10	Belgium	1,294	9

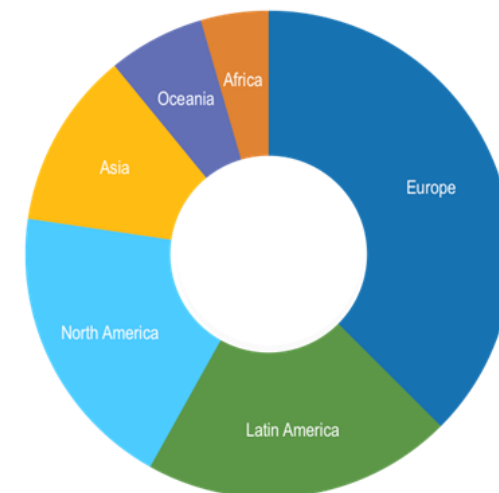


| 8

## Peer-reviewed uses, by country and region

2018 Totals

Total # of peer-reviewed papers by country			2017 rank
1	United States	205	1
2	Brazil	83	3
3	Mexico	73	7
4	China	72	8
4	United Kingdom	72	2
6	Spain	65	5
7	Australia	59	6
8	Germany	53	3
9	Canada	47	9
10	France	44	10



Total # of papers by region		
1	Europe & Central Asia	491
2	Latin America & the Caribbean	270
3	North America	252
4	Asia	154
5	Oceania	84
6	Africa	59

| 10

# Useful tools for Node management

# GBIF.ES CHAT

<https://chat.gbif.es/>

The screenshot shows the GBIF.ES Chat interface. The left sidebar contains a navigation menu with sections: Discussions, Channels (including # chatredgesta, # general, and # spain), Private Groups (including articulation and spain\_privado), and Direct Messages (listing users like carles.dalmases, CatiGonzalez, celia, crisfigueroall, and vjrj). The main chat area displays a conversation with vjrj, who is online. The messages include: "a ver si me enseñan ellos", "estaba pensando que a ver si se acercan las abuelas y puedo escaparme otra vez hoy mucho mejor que ayer", "vale, tranqui", "que me pongo en tu lugar.", "y soy consciente del percal", "he conseguido que enganche bien el bibe (segundo día)", "veniros una tarde a casa Gonzalo, Lu y tú ! Lo flipan estas", "ojalá suena guay", "esto es tb divertido, patio con arbolacos y tal, el pueblo es un poco fail, pero bueno, la casa de los 50, tiene su aquel (y también su caos)", "parece que he conseguido migrar elearning, estoy actualizando las tareas del wekan", and "amazing a la máquina nueva de heztner?". The bottom of the interface shows a typing indicator for vjrj and a message input field.

The screenshot shows the GBIF.ES Chat interface for the # chatredgesta channel. The channel name is "Jornadas Ambientales Murcia". The messages include: "leo.bejarano 1:27 PM Has joined the channel.", "leo.bejarano 1:27 PM A los buenos días! Aquí Leo des de la Generalitat de Cat...", "Le daré una vuelta a lo que planteais y os comparto lo c...", "como el tema IPBES", "Gracias por la iniciativa!!!", "BDBComunitatValenciana 12:09 PM Has joined the channel.", "BDBComunitatValenciana 12:09 PM Buenos días ! Aquí laNuri de Comunidad Valenciana... cu...", "katia 12:10 PM ¡Bienvenida Nuri! 😊🌸", "BDBComunitatValenciana 12:11 PM 🥰", "cristina 8:10 AM User xavier.font added by cristina.", "pau.sainz 2:07 PM Has joined the channel.", "pau.sainz 2:07 PM Hola! Soy Pau Sainz, de la Generalitat de Catalunya. Este...", "Albert Vila entre otros) intentando poner orden en todo...", "Me sumo a la felicitación por la iniciativa!", and "katia 2:45 PM ¡Bienvenido Pau! Pilar, Clara y Albert ¡dar la cara! 😊". The right sidebar shows the "Members List" for the channel, displaying 15 users: cristina, katia, migue, BDBComunitatValenciana, CatiGonzalez, Ricardo, banco.de.datos.de.la.biodiversidad.en.aragon, carles.dalmases, celia, crisfigueroall, leo.bejarano, marta.iturribarria, and pau.sainz. The bottom of the interface shows a typing indicator and a message input field.

# GBIF.ES PROJECT MANAGER

<https://wekan.gbif.es>

The screenshot displays the Wekan Project Manager interface in a web browser. The main area shows a Kanban board titled "My Boards" with a sub-header "CESP 2019". The board contains several cards: "Add Board", "CESP 2019" (with a star icon), "Governance", "LA Coordination", "RICAP", and "gbif.es infra". The right sidebar is active, showing the "Members" section with avatars for C, K, M, and M, and a "Labels" section with tags like "pensar", "no-urge", "medio", "urge", "errores", and "2019". The "Activities" section shows recent updates by Vicente, including a comment about a timeout issue and a link to a Wekan board.

Browser address bar: <https://wekan.gbif.es>

Page header: All boards - CESP 2019 +

Page title: My Boards

Page actions: Archive, Templates

Members: C, K, M, M

Labels: pensar, no-urge, medio, urge, errores, 2019

Activities:

- Vicente 12 minutes ago
- Vicente attached Captura de pantalla de 2019-09-19 11-29-07.png to ERROR - INGESTAS. 13 minutes ago
- Vicente on ERROR - INGESTAS

He pasado ciertos logs a una herramienta web y dice que estamos sanotes, no se voy a seguir mirando el timeout.

Es algo que no se puede mirar a pelo, se necesita como decía ciertas herramientas.

13 minutes ago

Vicente on ERROR - INGESTAS

Aquí lo comentaba: <https://wekan.gbif.es/b/KKj5Wp7zoHTPymPZF/gbif-es/QGLxgP4E6iaf2xCdW>

# International Collaborations



# International projects

<https://www.gbif.es/en/colaboraciones/proyectos/>

OpenPSD CESP Project – Engage the private sector in open biodiversity data publication. Partners: Nodes from Norway, Portugal, France, Spain and Colombia

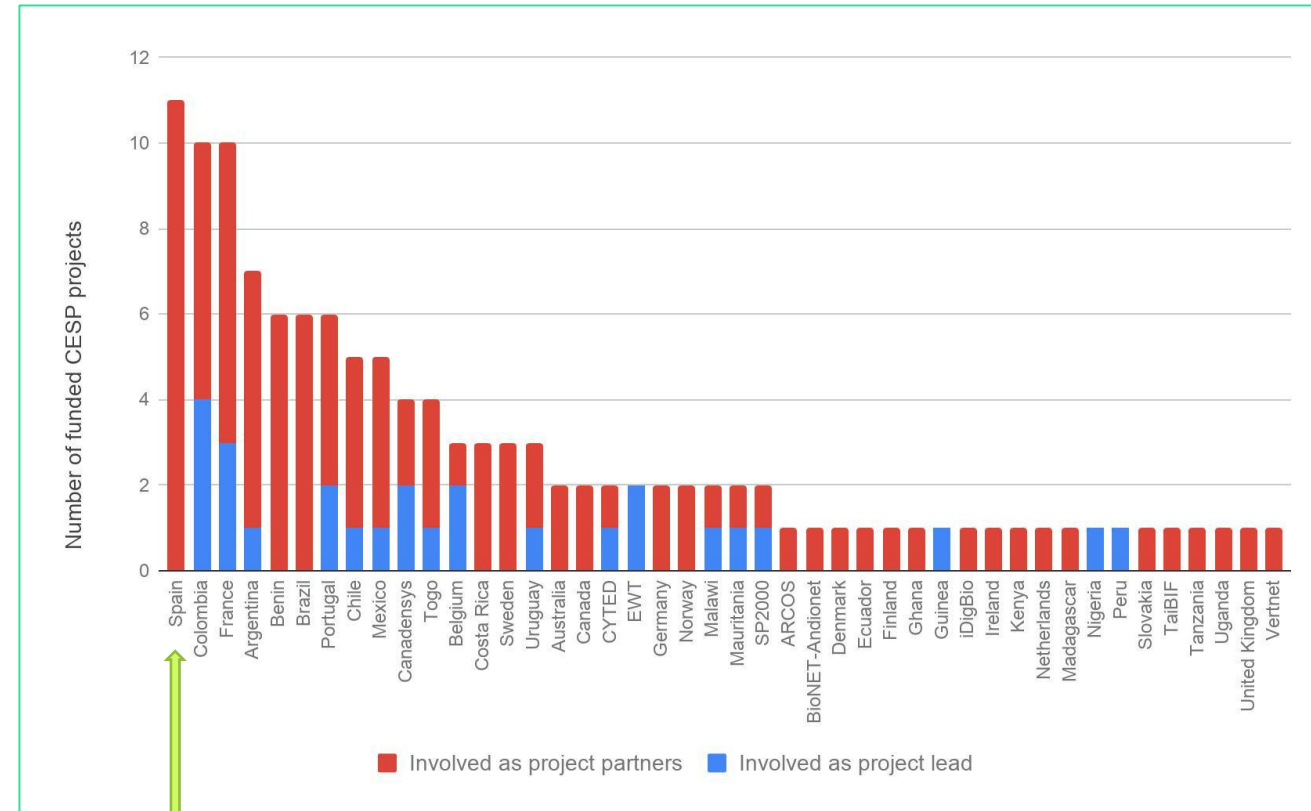
Several CESP projects to enhance the Living Atlases Community. Partners: over 20 nodes/institutions

Regional capacity enhancement to Latin America by establishing Chile's node. CESP Project. Partners: Nodes from Chile, Argentina, Spain, Colombia and Ecuador.

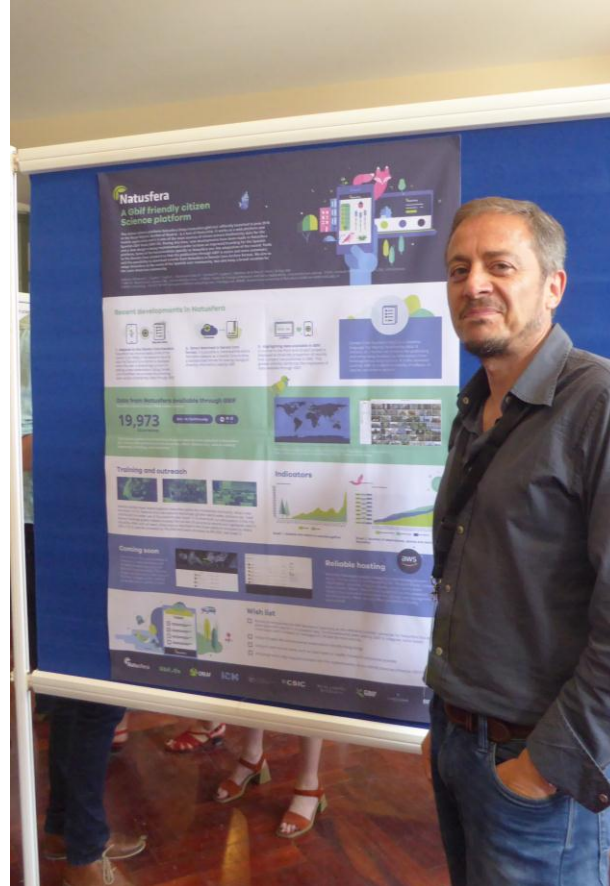
Strengthening Zimbabwe's GBIF node through collaboration with GBIF Spain. CESP Project.

Data Use for Decision Making Workshop: an Iberoamerican community call. Partners: Nodes from Chile, Argentina, Spain, Ecuador, Vertnet. CESP Project

Agrotraining: Proofing GBIF use on agrobiodiversity through needs assessment and training. CESP Project. Partners: Nodes from Spain and Portugal







Thank you!

Now we would like to hear from you

