



**eCS**

**european  
citizen  
science**

## **ECS project and the EU- Citizen.Science platform**

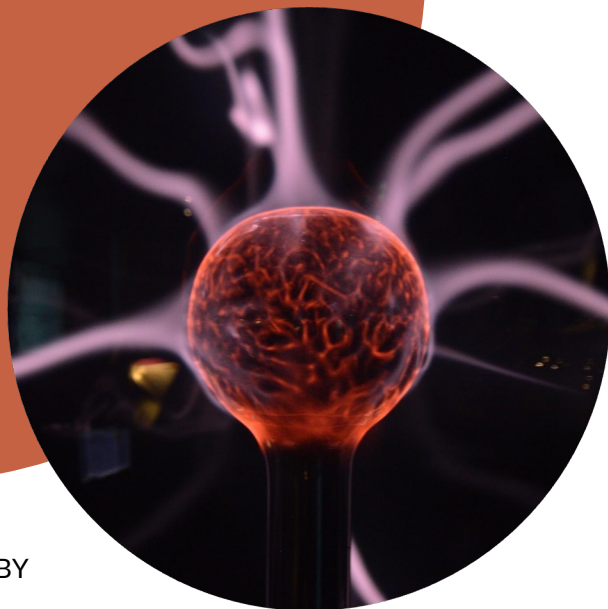
**Claudia Fabó Cartas (ECSA)**

**Opening research to society in Horizon Europe.  
How to set up citizen science projects?**

**8th June 2023**



The European Citizen Science (ECS) project has received funding from the European Union's Horizon Europe Framework Programme for Research and Innovation under grant agreement No. 101058509.



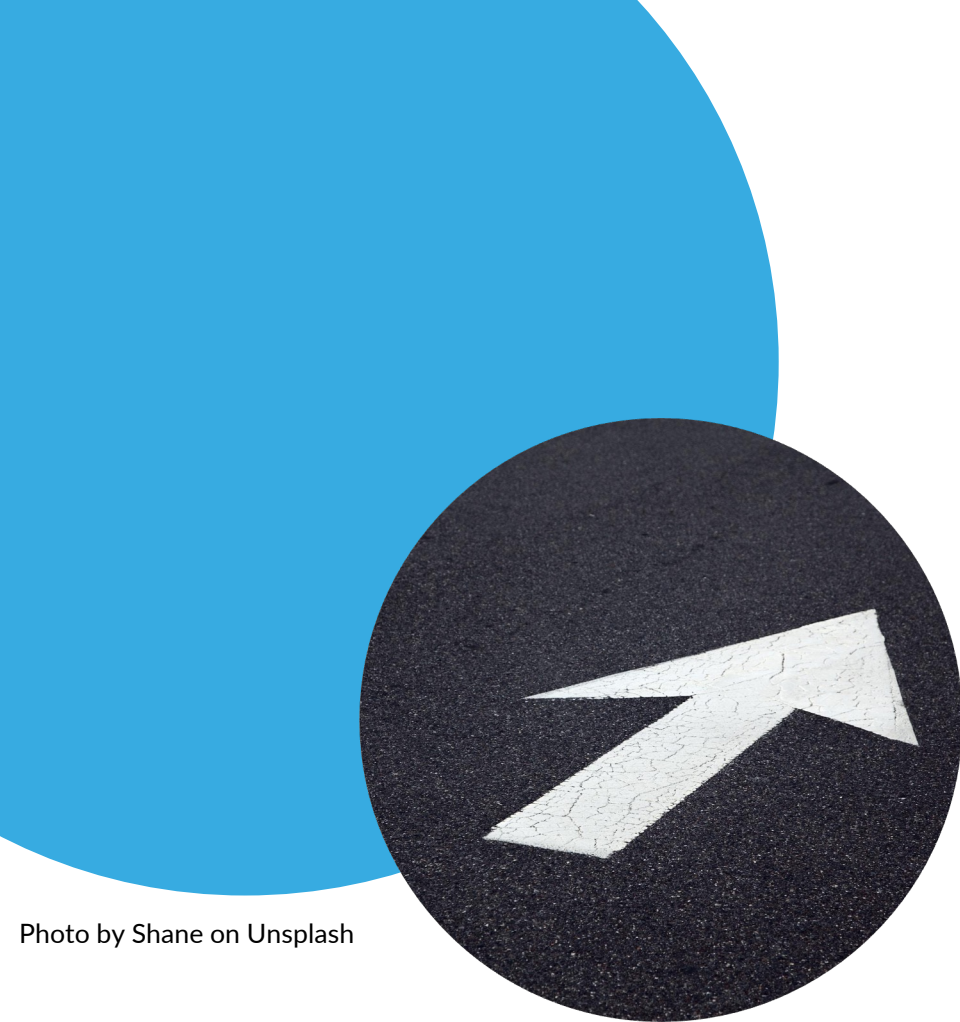
# ECS goal



**Widening and strengthening the European citizen science community through capacity building and awareness raising activities is the main goal of the European Citizen Science (ECS) project.**

Photo: Simona Cerrato | CC:BY





# ECS vision



**A globally connected, inclusive and strong citizen science community for societal change in Europe.**

Photo by Shane on Unsplash



# ECS 5C Mission



**Changing today's societal challenges into future opportunities through citizen science**

**Capacity building and training services**

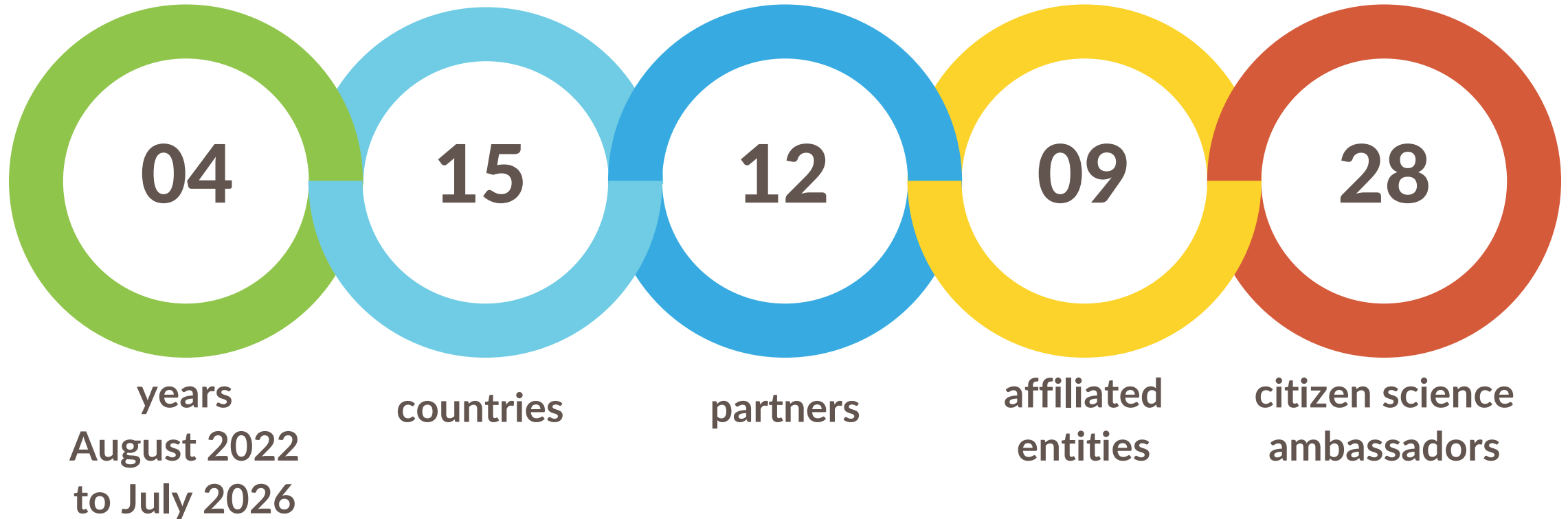
**Creating and sharing of citizen science data and knowledge**

**Contributing to European policy making**

**Common platform uniting diverse European actors**



# ECS at a glance





# ECS details

**HORIZON-CSA: Coordination and Support Actions**

**Topic: A capacity-building and brokering network to make citizen science an integral part of the European Research Area**

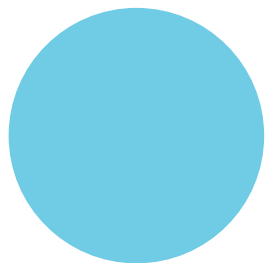
**Both about/on citizen science and doing citizen science**

european citizen science

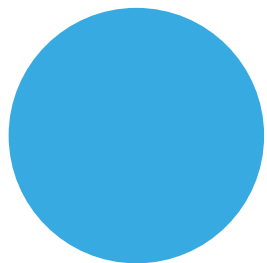
The European Citizen Science (ECS) project has received funding from the European Union's Horizon Europe Framework Programme for Research and Innovation under grant agreement No. 101058509.



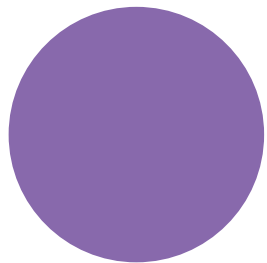
# What ECS does



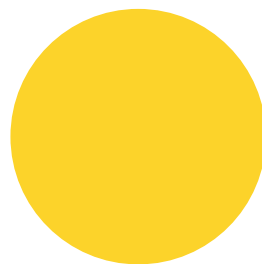
Expanding the reach of citizen science by strengthening the community



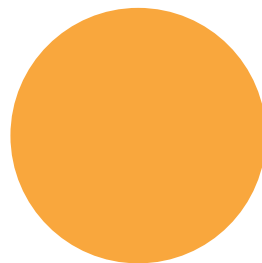
Enhancing digital skills for FAIR and open science communities



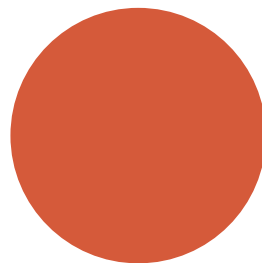
Further developing the EU-Citizen.Science platform through co-design



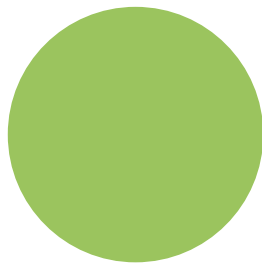
Developing the ECS Academy with free training to increase the capacity to conduct citizen science



Boosting inclusion and diversity for mainstreaming citizen science



Advocating for citizen science and working on policy impact



Investigating the impact of citizen science on research, society and economy

# ECS partners



European  
Citizen Science  
Association

coordination



european citizen science

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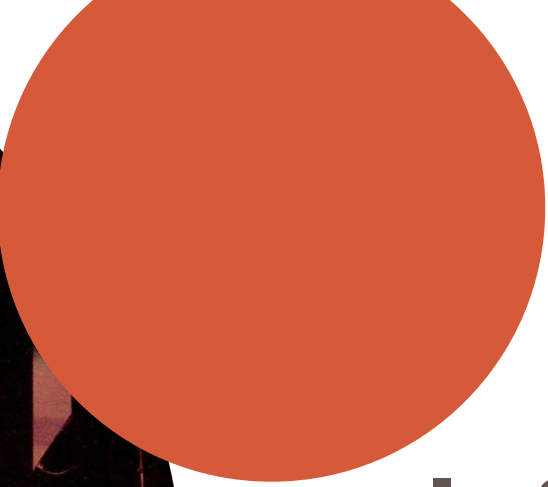
# ECS affiliated entities



european citizen science

The European Citizen Science (ECS) project has received funding from the European Union's Horizon Europe Framework Programme for Research and Innovation under grant agreement No. 101058509.





# Infrastructure



- **EU-Citizen.Science platform**
  - Open source code licensed under EUPL
  - API to connect to other platforms
- **ECS Academy**
  - Building the capacity to conduct excellent research and innovation through CS
- **Connection with e-infrastructures, e.g. EOSC Marketplace**





Photo by JJ Ying on Unsplash

# Capacity building



- **ECS Academy**
  - Building the capacity to conduct excellent research and innovation through CS
- **Open and FAIR data with open and FAIR tools**
  - Enhancing digital skills for implementing data acquisition, analysis and visualisation
  - Training sessions for developers
- **Participatory capacity building sessions to promote inclusivity and empowerment**





# Co-design & collaboration



- Platform development
  - Co-design of new platform functionalities or services with the CS community
- ECS Academy
  - Involvement of a network of trainers and educators and other stakeholders to shape its development to identify training needs and training sources
- Policy recommendations for CS and open science
  - Co-designed with policy-makers and funders



# Inclusion and community building



- Expand and strengthen the community, e.g. CS Ambassadors
- Pilots with libraries
- Pilots on inclusion in ongoing CS projects
- Pilots in SMEs
- Link with CS initiatives/projects and promote exchange
- Involvement of quintuple helix stakeholders
- Inclusion is cross-cutting



# EU-Citizen.Science platform



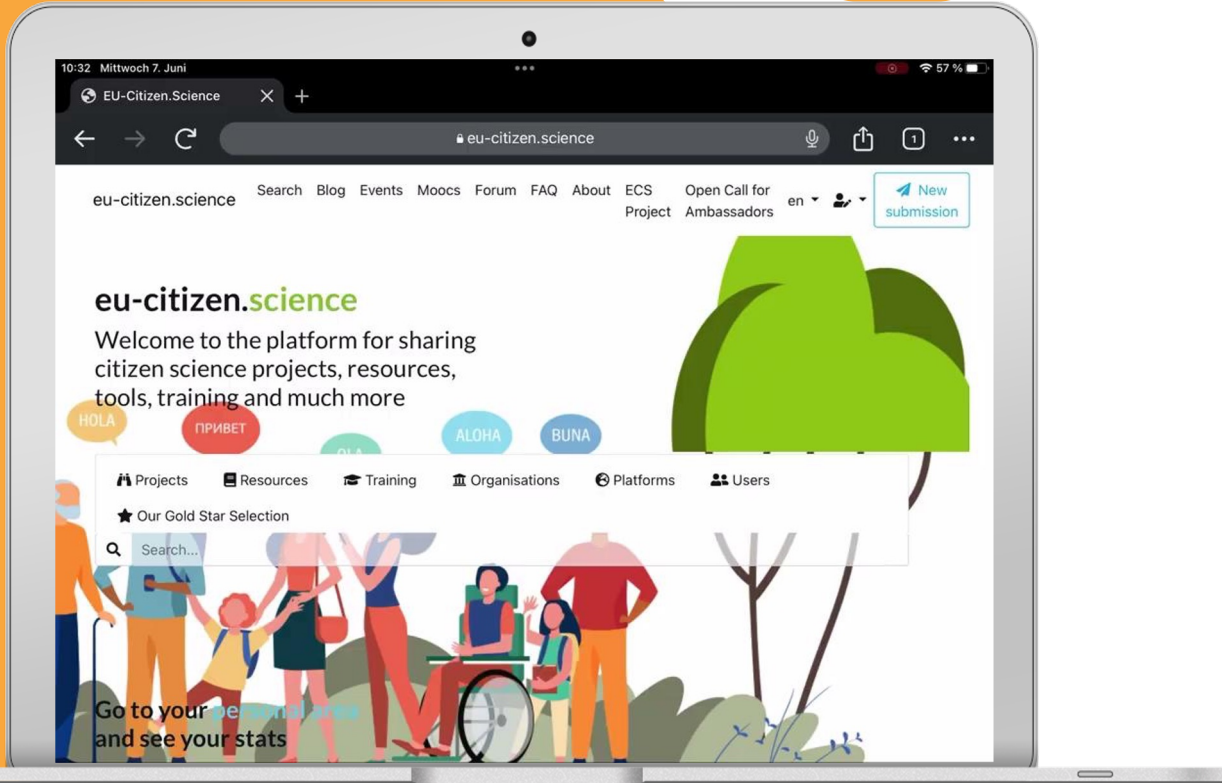
<https://eu-citizen.science/>

- Built during the EU-Citizen.Science project (2019-2021, H2020, Grant Agreement nr. 824580)
- Enhanced and enlarged with new tools, services and resources, and connected to other (national) citizen science infrastructure in the ECS project
- Built by and for the community – as a place to share knowledge, tools, training and resources for citizen science
- Bundles information on citizen science bringing together the results and outcomes of many citizen science projects

# EU-Citizen.Science platform



- 260+ projects
- 220+ resources
- 60+ training resources
- 250+ organisation profiles
- 24 training modules
- an events calendar and a blog
- platform/network and user profiles
- 3.400+ registered users (June 2023)



## resource search

[Projects](#) [Resources](#) [Training](#) [Organisations](#) [Platforms](#) [Users](#) ★ Our Gold Star Selection

Q biodiversity

☰ Most Recent Updated

▼ All languages

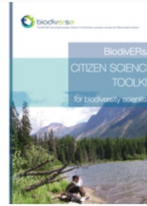
All themes

Category

Audience

✕ keyword: biodiversity ✕ Clear current search query and filters

22 resources found



### Citizen Science Toolkit for biodiversity scientists

English [Text : Guideline](#)  
[Introduction to CS](#) [Best practices](#) ...  
[Biodiversity](#) [Toolkit](#) ...

The Citizen Science Toolkit is aimed at researchers and scientists working in the fields of biodiversity or environmental sciences who are involved or have an interest in involving citizens in ...

### CITIZEN SCIENCE TO SUPPORT PROGRESS OF THE SDGS AND COS4CLOUD'S CONTRIBUTION THROUGH ITS SERVICES AND TOOLS

Policy Brief

English [Text : Policy Brief](#)  
[Introduction to CS](#) [Co-creation](#) ...  
[Sustainable Development Goals \(SDGs\)](#)  
[Environmental Monitoring](#) ...

This policy brief has been produced in the context of the [Cos4Cloud project](#). It describes some of the capabilities and benefits of citizen science which can support progress towards ...



### Flora Incognita App

Featured

English [Software](#) [Project management](#)  
[Reflections on science](#) ...  
[plant identification](#) [species monitoring](#) ...

FLORA INCOGNITA - DISCOVER THE DIVERSITY OF NATURE

What's in bloom? With the Flora Incognita app, this question is quickly answered. Take a picture of a plant, find out its ...



### Monitoring plant biodiversity with PI@Net

English [Moving Image \(Video\)](#)  
[Introduction to CS](#) [Best practices](#) ...  
[Biodiversity](#) [Environmental Monitoring](#) ...

One of the Cos4Cloud partners, the [Environmental Education Lab \(EEL\)](#), a research center based at the Department of Educational Studies of the [National and Kapodistrian University of Athens \(NKUA\)](#), organized ...



### Introduction to taxonomy: documenting



### Vigie Nature Ecole. Participant's kit



### Guide to Citizen Science - developing,



### Understanding the citizen science landscape

# Functionalities

## Search function

- Search for keywords
- Direct links to projects, resources, training, organisations
- Search for users



# Functionalities

## Search function

- Search for keywords
- Direct links to projects, resources, training, organisations
- Search for users

eu-citizen.science Search Blog Events Moocs Forum FAQ About ECS Project Open Call for Ambassadors en [New submission](#)

### training resource search

Projects Resources Training Organisations Platforms Users

★ Our Gold Star Selection

🔍 open science

📄 Most Recent Update All languages All themes Category Audience Approved

✖ keyword: open science ✖ Clear current search query and filters

3 training resources found

#### Doing citizen science as open science: what, why and how

Featured

English

[Interactive Resource \(Website\)](#)

Best practices

Project management ...

Ethics Starting Projects ...

This is a high-level course introducing the ethical imperative for conducting citizen science as open science, including *what* open science is and *how* its outputs and processes can be incorporated ...

#### Open Science Training Handbook

English

[Interactive Resource \(Website\)](#)

Project management

Introduction

Basic Concepts ...

Basic facts of CS (e.g., approach, law, ethics, data)

#### Orion MOOC

English

[Interactive Resource \(Website\)](#)

Introduction to CS

Open Science

An introduction to Open Science principles in biomedicine, life sciences and other related research fields.

# Functionalities

## Different filter options in each section

- theme, category and audience for resources and training
- country, status, topic and participation task in projects

eu-citizen.science

### resource search

Projects Resources Training Organisations Platforms  
Users  
Our Gold Star Selection  
Search...

Most Recent Update All languages All themes **Category** Audience  
220 resources found

Category  
Collection  
Dataset  
Event  
Image  
Text  
Text : Report  
Text : Project Deliverable  
Text : Guideline  
Text : Policy Brief  
Text : Scientific Publication  
Text : White Paper / Green Paper  
Text : Book  
Text : Other  
Interactive Resource (Website)  
Physical Object (Hardware)  
Moving Image (Video)  
Service

**Citizen Science & Open Science: Synergies & Future Areas of ...**  
Featured  
English Text : Policy Brief  
Reflections on science Policy making  
Policy engagement ...  
Citizen Science (CS) and Open Science (OS) are among the most discussed topics in current research and innovation policy, and are becoming increasingly related. This policy brief was developed with ...

**Citizen Activi...**  
Featured  
English Introductio...  
environment...  
This book sheets an...  
students  
Moving Image (Video)  
Service  
...  
environmental citizenship by engaging in the annual bird count and participating in citizen science. ...

**Citizen Science Toolkit for**

**D4.5 The accreditation discussion paper**

eu-citizen.science

### project search

Projects Resources Training Organisations Platforms  
Users  
Our Gold Star Selection  
Search...

Most Recent Country Status Tag Difficulty Le **Topic** Participator  
265 projects found

Topic  
Agriculture & Veterinary science  
Animals  
Archaeology & Cultural  
Astronomy & Space  
Biodiversity  
Biogeography  
Biology  
Birds  
Chemical sciences  
Climate & Weather  
Ecology & Environment  
Education  
Food science  
Genetics  
Geography  
Geology & Earth science  
Health & Medicine  
Indigenous culture

**EnviroCitizen: Citizen Science for Environmental Citizenship**  
Featured  
Birds Ecology & Environment ornithology  
environmental citizenship ...  
Envirocitizen is a project that aims to research how to encourage environmental citizenship through engagement with citizen science. The project is funded by the EU Horizon 2020 fund and will ...


**Colouring Dr...**  
Featured  
Geography building  
The citizen science title "Baukultur und Architektur in Dresd...  
researching and co...  
knowledge" aims to...  
Dresden's buildings

**Flora Incognita**

**BIODIVERSITY GO!**

# Functionalities

## Submission of profiles and events by the community and moderation

eu-citizen.science Search Blog Events Moocs Forum Final Event About en  [New submission](#)

Please describe the link between citizen science and the resource you are uploading– for guidance see the [ECSA Characteristics of Citizen Science](#) as well as the [ECSA 10 Principles of Citizen Science](#). What you introduce in this text field will not appear on the platform; it is just for moderation purposes and for the administrators of the platform to see.

Category\*  
-----  
Select one of the proposed categories

Audience\*  
Select the audience(s) for which the resource is intended. Multiple options can be selected

Theme\*  
The thematic content of the resource (select as many as apply)

### Publish information

Authors  
None  
Author(s) of the resource. Enter *FirstInitial LastName* and close with a comma or pressing enter to add an author or multiple authors

Publisher  
The publisher of the resource

Year of publication  
Enter the year (YYYY) that this version of the resource was published

# Functionalities

## Training profile example



## Doing citizen science as open science: what, why and how

Created Nov. 22, 2021, 4:04 p.m.  
Updated Sept. 1, 2022, 2:15 p.m.

This is a high-level course introducing the ethical imperative for conducting citizen science as open science, including *what* open science is and *how* its outputs and processes can be incorporated into all aspects of citizen science.

After completing this module, you will be able to:

- Describe the ethical, scientific, social, and legal imperatives for practising open science
- Clarify common misconceptions of open science (e.g. it is not just about publishing data)
- Describe the products of open science and the collaborative and inclusive processes they enable
- Identify which aspects of open science are and are not already implemented by your citizen science project
- Evaluate and choose tools to implement open science for all components of your citizen science project including text, images, data, software, hardware, and other media.

### Publish information

**Publisher:** EU-Citizen.Science

**Year of publication:** 2021

### Training information

**Time required:** 1.75 hours

**Conditions of access:** You must register on the EU-Citizen Science Moodle Platform

[Go to Training](#)

### Language

English

### Keywords

Ethics Starting Projects Open Science

### Theme

Best Practices Project Management  
Research Design And Methods Regulations And Ethics

### Category

Interactive Resource (Website)

### Audience

Cs Project Leaders & Initiators All Audiences

### Education level

Intermediate Beginner

### Learning Resource Type

Mooc








# Functionalities

## Personal area








- Personal area with privacy center
- Public and searchable profiles
- Submission history to search and edit previous submissions








Claudia  
Germany

-  Personal profile
-  Submissions
-  Bookmarks
-  Privacy center
-  Edit profile


### Submitted resources

|  |   |
|--|---|
|  <p>Sustainability of Cos4Cloud s...<br/>Feb. 28, 2023, 9:43 p.m.</p> |  <p>Cos4Cloud final project event...<br/>Feb. 28, 2023, 9:49 p.m.</p>  |
|  <p>Citizen science to support pr...<br/>Feb. 28, 2023, 9:42 p.m.</p> |  <p>Co-design as a service: Metho...<br/>Feb. 28, 2023, 9:48 p.m.</p>  |
|  <p>Cos4Cloud and its services fo...<br/>Aug. 22, 2022, 6:39 a.m.</p> |  <p>How Networks of Citizen Obser...<br/>April 27, 2022, 8:30 a.m.</p> |
|  <p>Cos4Cloud: its story and lega...<br/>Feb. 28, 2023, 9:45 p.m.</p> |   |

### Submitted training

|   |   |
|---|---|
|  <p>Designing for learning throug...<br/>Oct. 26, 2021, 12:21 a.m.</p> |  <p>Introduction to Citizen Scien...<br/>Oct. 26, 2021, 12:21 a.m.</p> |
|  <p>Leading a 'Train the Trainer'...<br/>Oct. 26, 2021, 12:21 a.m.</p> |  <p>Basic regulations and ethics ...<br/>March 21, 2022, 2:23 p.m.</p> |
|  <p>Evaluation and Impact Assessm...<br/>March 21, 2022, 2:32 p.m.</p> |   |

### Submitted organisations

|  |
|--|
|  <p>European Citizen Science Asso...<br/>Non-governmental</p> |
|--|

### Submitted events

|   |   |
|---|---|
|  <p>¿Por qué promover la participación de los pacientes y de la ciudadanía en proyectos de mejora clínica y de investigación en salud?</p> |  <p>Online workshop: Common Challenges in Citizen Science</p>    |
|  <p>Unleashing the potential of Citizen Science Data for monitoring the SDGs</p>   |  <p>Open17 Challenge: Citizen Science for Climate and Gender</p> |



# Functionalities

## 'Our Gold Star Selection'

- Curated selection of Gold Star citizen science resources
- Categorised across the project lifecycle:
  - initiation
  - planning
  - execution
  - impact and evaluation

The collage displays several resource cards from the eu-citizen.science website, organized into four main categories:

- Initiation:**
  - Guidelines on Behaviour & Policy Change:** A featured resource with tags for English, Text, Report, Best practices, Research design and methods, Biodiversity, and youth.
  - SPOTTERON Citizen Science Platform:** A resource with tags for English, Software, Engage, Regulations and ethics, and Communities.
- Planning:**
  - Handbook for Citizen Science Quality Assurance and Documentation:** A resource with tags for English, Text, Guideline, Best practices, Data quality and standards, Data Management, and Metadata.
- Execution:**
  - Informe del OBSERVATORIO de la CIENCIA CIUDADANA en España:** A report with tags for Spanish, Text, Report, Communication, Reflections on science, and Observatory of Citizen Science.
  - Data Quality Resource Compendium by the CSA Data and Metadata:** A resource with tags for English, Text, Data quality and standards, Data Collection, and Data Management.
- Impact & Evaluation:**
  - Report of Observatory of citizen science in Spain 2016:** A document with tags for Spanish, Text, Report, Reflections on science, and Observatory of Citizen Science.
  - Citizen Science Evaluation Framework:** A resource with tags for English, Text, Scientific Publication, Evaluation of citizen science, and Evaluation.
  - EU-Citizen.Science Workroom: Citizen science clinic - 1st session - Inspiring ...:** A resource with tags for English, Moving Image (Video), Introduction to CS, Best practices, and Impact.
  - ECSA Conference 2020:** A resource with tags for English, Collection, Best practices, Empowerment, Policy, and Collaboration.
  - EU-Citizen.Science Workroom: Citizen science clinic - 2nd session - Impact assessment ...:** A resource with tags for English, Moving Image (Video), Introduction to CS, Best practices, and Impact.
  - EU-Citizen.Science Workroom: Citizen science clinic - 3rd session - Financial ...:** A resource with tags for English, Moving Image (Video), Introduction to CS, Best practices, and Impact.
  - How Does Citizen Science "Do" Governance? Reflections from the DITOs ...:** A resource with tags for English, Text, Policy Brief, Reflections on science, Policy making, and Policy engagement.

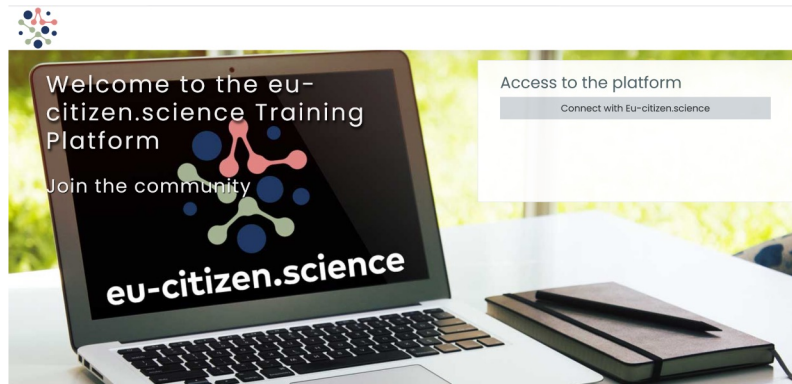


# Functionalities

## Training modules

24 training modules are hosted on the Moodle page of EU-Citizen.Science and more will be developed in the framework of ECS

<https://moodle.eu-citizen.science/>



Search courses  Go



european citizen science

### Available courses

|  |  |  |   |
|--|--|--|---|
| <br>Introduction to Citizen Science                              | <br>Introduction to Citizen Science for Journalists              | <br>Designing for learning through citizen science   | <br>Leading a 'Train the Trainer' workshop  |
| <br>Citizen Science Typologies                                  | <br>Your Right to Privacy Online                                | <br>Engagement and dissemination tools and strategies to implement citizen science projects (Estrategias y herramientas de comunicación aplicadas a proyectos de ciencia ciudadana) | <br>Citizen Science in Schools: schools as agents of community well-being through science and research |
| <br>Citizen Science Projects: How to Make a Difference (Part 1) | <br>Citizen Science Projects: How to Make a Difference (Part 2) | <br>Research integrity, Ethics and the Sustainable Development Goals within the context of citizen science (RIECS)  | <br>Empowerment through co-designed Citizen Science in education                                       |
|  |  | <br>Bürger schaffen Klima Wissen / Citizens Create Climate Knowledge  | <br>Doing citizen science as open science: what, why, and how  |
|  |  | <br>Volunteer engagement, management and care  | <br>Social media management for citizen science projects  |
|  |  | <br>Basic regulations and ethics for citizen science  | <br>Evaluation and Impact Assessment in Citizen Science Projects                                     |

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**Follow us and join the ECS  
community for future events  
and project developments**



[eucitsciproject](https://www.instagram.com/eucitsciproject)

<https://eu-citizen.science/>



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