



Leabharlann UCD
UCD Library

UCD Citizen Science
Community of Practice



UCD
Earth
Institute

The Decade of Citizen Science is here... Be part of it!

presented by Martin Brocklehurst

co-founder of the European Citizen Science Association (ECSA)
& the Citizen Sciences Global Partnership (CSGP)

Wed May 3rd, 11am-12pm
UCD O'Brien Centre for Science

sign up via **eventbrite**




THE LARGEST SPRING FIRES EVER EXPERIENCED IN NEW SOUTH WALES

HIGHEST EVER TEMPERATURES IN OCTOBER 2019 IN PARTS OF THE MURRAY DARLING BASIN

WATER STORAGE LEVELS IN NORTH MURRAY DARLING BASIN - LOWEST IN LIVING MEMORY



AUSTRALIA NOVEMBER 2019

A dramatic scene of a house engulfed in flames. In the foreground, a kangaroo is silhouetted against the bright orange and yellow fire. To the right of the kangaroo, there is a small, spiky tree and a mailbox. The fire is intense, with thick smoke rising from the structure.

**YOU IDIOTS
IN CHARGE WHO
DON'T GET THIS :
GLOBAL WARMING
IS REAL.**

European Citizen Science Association Launch - 2013

The Democratic Ambition:
Get 70 million people to take part in citizen science in Europe



EU POLICY MAKERS VIEWS OF CITIZEN SCIENCE IN 2014.



**IT HAS A SOCIAL, EDUCATIONAL AND RESEARCH ROLE;
BUT**

DOES NOT PROVIDE STATISTICALLY RELIABLE DATA;

DOES NOT COVER LARGE ENOUGH GEOGRAPHIC AREAS;

**DOES NOT COVER AREAS OF POLICY RELEVANCE TO
THE EU;**

DOES NOT HELP WITH SDG REPORTING;

IS TIME LIMITED AND IS LITTLE MORE THAN HOBBYING

Changing the Policy Perspective

Air Quality monitoring in Flanders 2016:

- 5% of population engaged
- Up to 50,000 take an interest
- Individuals invested in monitoring equipment
- Delivered high quality data at great density
- Changed air quality models for the city
- Created profound political change
- Drove behavioural change



Changing the Policy Perspective

Citizen scientists to monitor English and Welsh rivers in £7m scheme

Sewage in English Rivers

- 824 spills or raw sewage every day
- River pollution becomes key issue in English local elections
- Creating profound political change
- Rivers Trust Promoting Citizen science
- Developing programmes to monitor river water quality
- Sharing global experience



2019 - EU Policy shifts on Citizen Science (CS)

POLICY MAKERS ENGAGE WITH CITIZEN SCIENCE

...for thematic policies

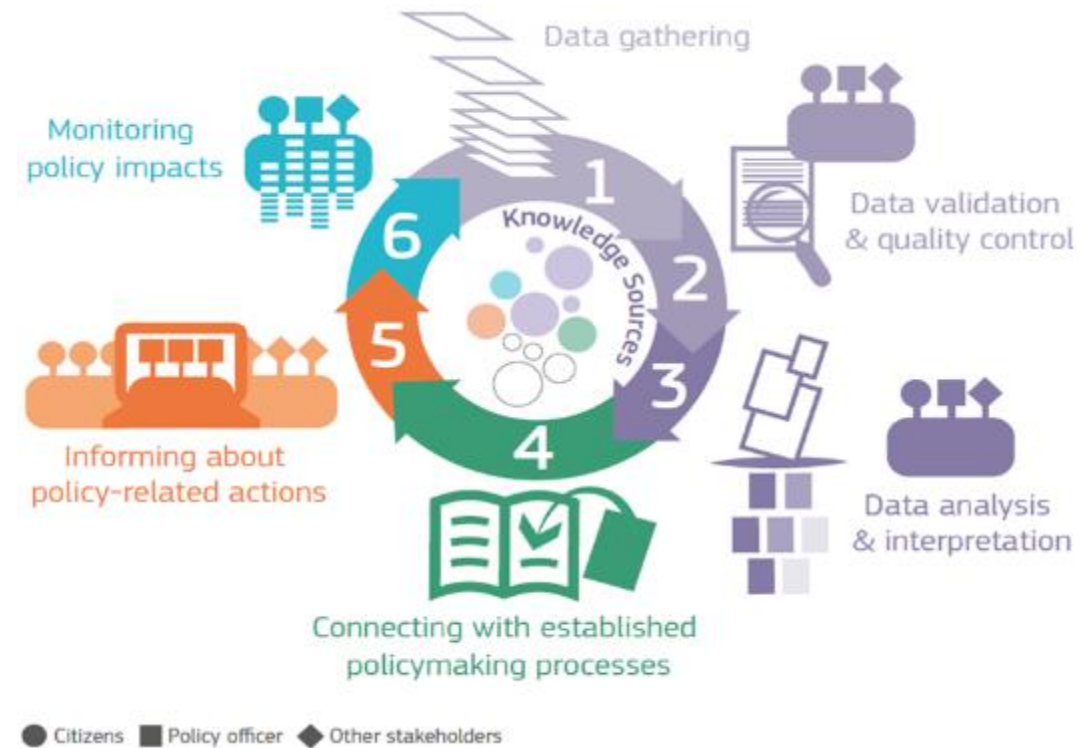
CS in the policy cycle, for a robust evidence base

... for Open Science

open access to research to enable public participation

... for Better Regulation

engage citizens as stakeholders & recognise their input to policy



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

eu-citizen.science Search About Blog Events FORUM Moocs Open Call

Welcome to the platform for sharing Citizen Science projects, resources, tools, and training

Search for citizen science resources, projects, tools, training, and more...

The static part of the platform has recently been translated into 11 languages. Do you want to help with translation? [Please click here](#)

All Projects Resources Training Organisations Our Gold Star Selection

Training

23 results in Training, click [here](#) to see all of them

ENGLISH

Level 3: Practice leading science - Participation in problem definition and data collection

Level 2: Develop and implement - Citizens as local inspectors

Level 1: Citizen monitoring - Citizens as sensors

Awareness to environmental or scientific issue

Producing scientific outputs

Achieving temporal and geographical

Using social media

Creating positive & engaging experiences

Citizen Science

Featured EU-citizen.science Training

Citizen Science Typologies

Interactive Resource (Website)

Best practices

Typologies

0 reviews

Last updated: Feb. 2, 2021, 5:16 p.m.

ENGLISH

Featured EU-citizen.science Training

Introduction to Citizen Science

Interactive Resource (Website)

Introduction to CS

Introduction Citizen Science Characteristics

0 reviews

Last updated: Feb. 2, 2021, 5:08 p.m.

ENGLISH

Featured EU-citizen.science Training

Leading a 'Train the Trainer' workshop

Interactive Resource (Website)

Best practices

Knowledge

0 reviews

Last updated: Feb. 2, 2021, 5:08 p.m.



- Projects
- Trainings
- Resources
- Organisations
- Networking

<https://www.vienna.convention.at/en/meeting-calendar/european-citizen-science-congress-ecsa-2024-449544>
7-10 April 2024 EU Citizen Science Congress

2016 - Citizen Scientists Engaging with Global Policy Makers

Vector Carrying Mosquitoes

Muggenradar, Netherlands

Power of citizen science

Professional science alone cannot provide information at the scales and resolutions necessary to understand environmental change.

The dominant culture of science rarely accounts for different ways of knowing, and often fails to engage the public.



Mosquito Alert - Spain



2017 - CSGP Connecting Citizen Science with UN needs



2022 - CSGP Established as Austrian Association with a Swiss Hub



CITIZEN SCIENCE ASSOCIATIONS (CSAs)

Australian Citizen Science Association (ACSA)
CitizenScience.Asia
Citizen Science Association US (CSA)
CitSci Africa Association
European Citizen Science Association (ECSA)
Red Iberoamericana de Ciencia Participativa (RICAP)

FOUNDING PARTNERS

University of Natural Resources and Life Sciences (BOKU)
University of Geneva (UNIGE)

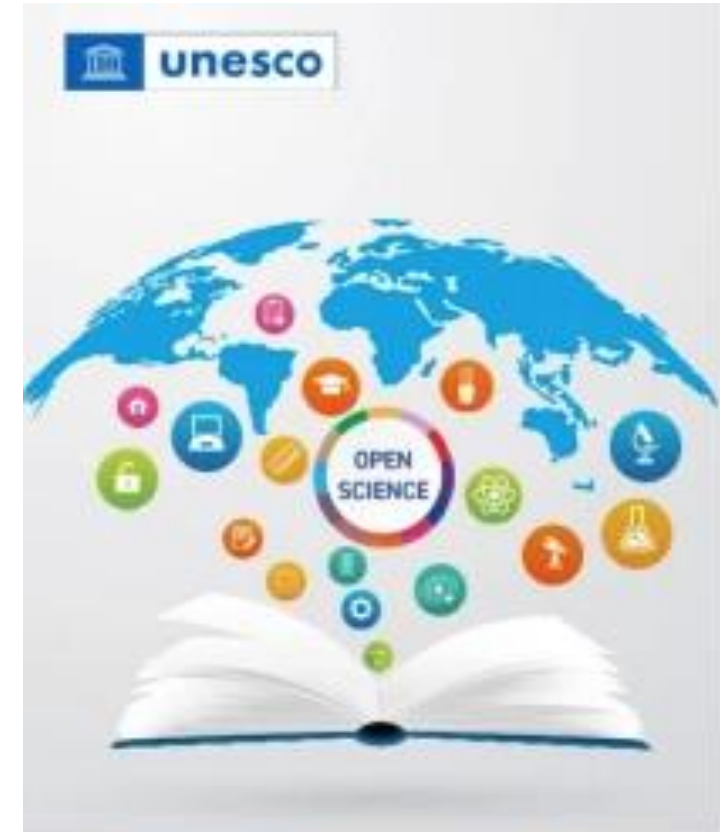
HOSTING PARTNER

International Institute for Applied Systems Analysis (IIASA)

SECRETARIAT

International Institute for Applied Systems Analysis (IIASA)
CS Center Zurich (UZH and ETHZ)

UNESCO Recommendation on Open Science



UNESCO Recommendation on Open Science

<https://www.unesco.org/en/articles/unesco-sets-ambitious-international-standards-open-science>

Democratic Opportunity - COVID Symptom Study 2022

PREDICTING COVID WITH 4.5 MILLION CITIZEN SCIENTISTS – UK; USA; Sweden

KEY FACTS

- Largest health-based CS project
- 4.5 million daily users
- 200 million health data reports
- 2 million test results
- 860,000 vaccine volunteers
- 20 Scientific Papers
- £2 million raised from Crowdfunding

The COVID Symptom app: Predicting COVID-19 globally

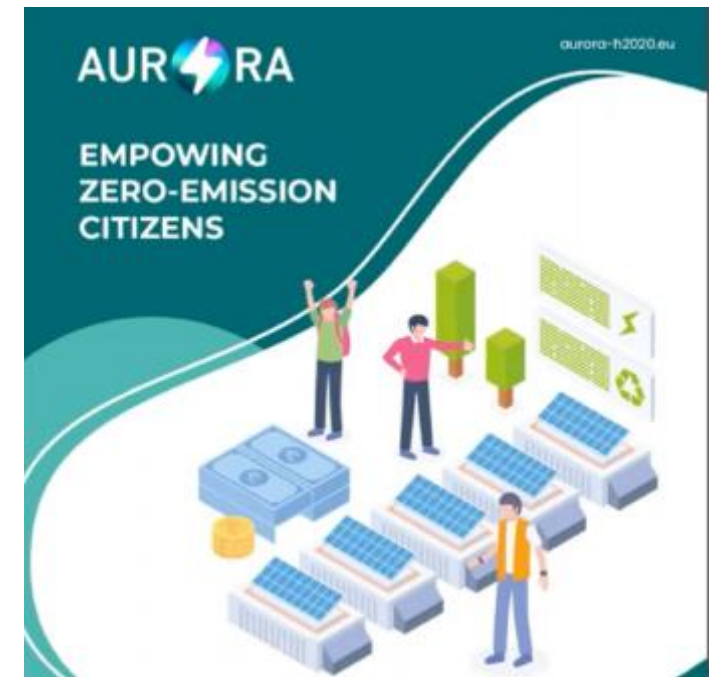
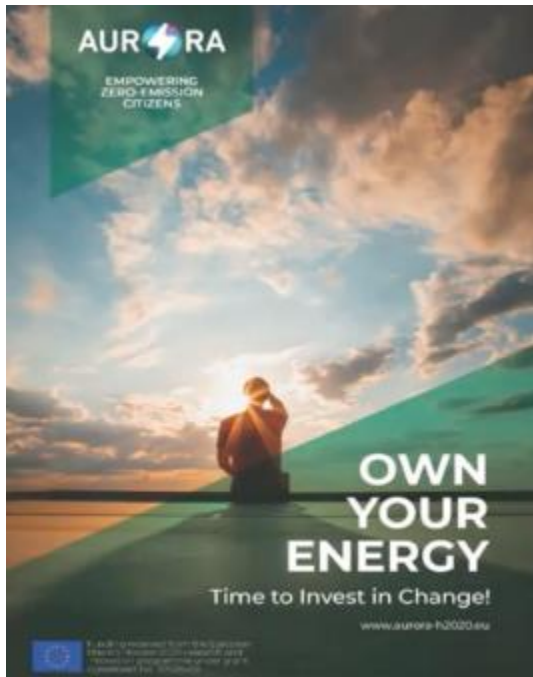


Endorsed and amplified by



Economic Opportunity -Crowdfund Photovoltaic Facilities 2022

Climate Change – gather data & drive behaviour change



<https://www.aurora-h2020.eu>

https://twitter.com/AURORA_H2020

Democratic & Economic Opportunity - Yoma Learning to Earning 2022

CS TO ENHANCE CLIMATE RESILIENCE
Kenya, Nigeria, South Africa, Tanzania

KEY OBJECTIVES

- Coach and invest in three local African teams
- Aim to involve 3000 young people in local CS challenge
- Gather data to help local authorities improve services
- Reward with tokens redeemable for education opportunities
- Support through CitSci Africa Association
- Building on technology and methodology developed by Crowd4SDG

Pitch your idea for climate justice!

BROUGHT TO YOU BY:

Crowd4SDG

UNIVERSITÉ DE GENÈVE | Université Paris Cité | CSIC

POLITECNICO MILANO | unitar | European Union

IN PARTNERSHIP WITH: yoma | unicef for every child

REGISTER HERE

Democratic and Economic Risks 2023

- Distrust of CS data
- Inadequate funding for CS data
- Failure to integrate Citizen data and national statistics
- No protection for rights of CS to their data
- Ambiguous confidentiality for CS projects
- Highly fragmented CS programme
- Poor standards for data, and collection methods
- No information back to citizens in real time
- CS is not part of multi-lateral agreements
- Legal & Political challenges stop data collection



Mitigating Risks: A Global Convention on Citizen Science 2023

- Build on the Aarhus Convention: people's right to access environmental information and the UNESCO Open Science Recommendations
- Enshrine citizens rights to gather & collect data on the environment
- Require nations to integrate citizen data into National Statistical Data sets
- Protect the confidentiality & rights of participating citizens
- Identify global CS programmes
- Agree common global CS data systems
- **Target: adoption at UN Environment Assembly in Feb/Mar 2024**

UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

The Aarhus Convention An Implementation Guide



CONVENTION ON ACCESS TO INFORMATION, PUBLIC PARTICIPATION IN DECISION-MAKING AND ACCESS TO JUSTICE IN ENVIRONMENTAL MATTERS done at Aarhus, Denmark, on 25 June 1998

Future Events to watch out for

European

EU Green Week - Empowering and skilling citizens to become drivers towards a climate neutral and sustainable Europe through citizen science

ONLINE EVENT - 8th June 2023 12.00-14.00 CEST

Registration details –

https://us02web.zoom.us/webinar/register/WN_6INIWaaPS0-H7I_7FD80dw

Global – UNSPBF / CSGP

Sustainability Research + Innovation – Panama Convention Centre

ONLINE EVENT Citizen Science & Data for Decision Making

<https://2023.sricongress.org/agenda>

Monday 26th June 21.00 – 23.00HRS (Local Irish Time)

EARTH Voyager 1 from a distance of more than 6.4 billion kilometres.

**Nothing in 6.4 billion kilometers on which we could survive:
One planet**

EARTH Voyager 1 from a distance of more than 6.4 billion kilometres.

**Volunteer to support the work of
the Citizen Science Global Partnership**

CITIZEN SCIENCE | GLOBAL PARTNERSHIP

**THE DECADE OF CITIZEN SCIENCE IS HERE
BE PART OF IT**

Martin Brocklehurst

Chair of the Board - Citizen Science Global Partnership
Board Member European Citizen Science Association



ecsa



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DE GENÈVE**

