Why get involved in Citizen Science? A research library perspective

INOS workshop, May 2021 Turin University and Library with LIBER

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Overview

LIBRARY HSILI'8

- Defining citizen science and crowdsourcing
- A library perspective on the benefits and challenges of engaging with citizen science

- What does this mean for you?
- Four examples:

iNaturalist www.inaturalist.org

Penguin Watch www.zooniverse.org/projects/penguintom79/penguin-watch/

British Library / In the Spotlight playbills.libcrowds.com

British Library / Living with Machines www.zooniverse.org/projects/bldigital/living-with-machines

What is citizen science / crowdsourcing?

Citizen science is an 'umbrella' term for different ways in which the public participate in science



Citizen science involves the active participation of the public in scientific research or knowledge production with a 'genuine outcome'

Forms of participation vary from data collection - observations out in the field or from digitised images - to analysis and communication - to co-creating projects and more.

Sometimes also called crowdsourcing, digital volunteering, citizen history, public participation in scientific research, nichesourcing...

What is citizen science / crowdsourcing in cultural heritage?

A more focused view of public participation: working with the public on tasks that contribute to a shared, significant goal related to cultural heritage collections or knowledge, via online platforms

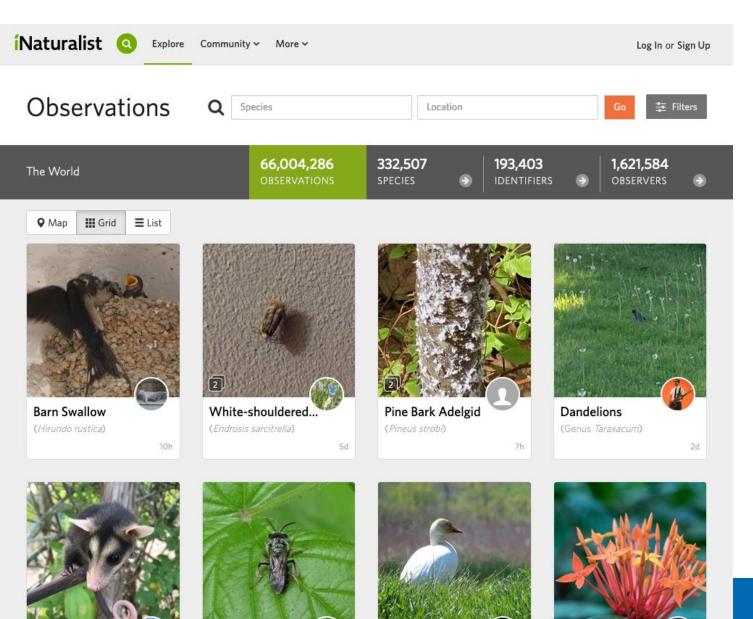
Results may contribute to wider research questions, or they might help improve the discoverability of cultural heritage collections

Often focused on engagement and access



bl.uk

Citizen science examples: iNaturalist





'iNaturalist helps you identify the plants and animals around you. Get connected with a community of over a million scientists and naturalists who can help you learn more about nature! What's more, by recording and sharing your observations, you'll create research quality data for scientists working to better understand and protect nature'

Penguin Watch Talk

Search or enter a #tag

Q

Subject 60486519



Comments:



lay 14th 2021, 9:35 am

remarkable face on the #adelie up front

Q View the discussion

Popular Tags:

adelie

18 Active Participants:

kylee1 akcire6 miaridge KaseRichards Sonoko ctrunzo alandelacruz SkylerSandaas Pytel24 Ashbeigh

← Previous Next →

Projects:

Zooniverse Talk
Drones for Ducks
Nest Quest Go: Killdeer
Microbe Watch
Tag Along with Adler
Battling Birds: Panama Edition
Old Weather - WW2
Zwicky Chemical Factory
Drawing Knowledge
Bursts from Space
Beyond Borders: Transcribing His

Load more 4

Count penguins, chicks and eggs in far away lands to help us understand their lives and environment.

'Research shows that in some regions, penguin populations are in decline; but why? Click "get started" to begin monitoring penguins, and help us answer this question. With over **100 sites** to explore, we need your help now more than ever!'

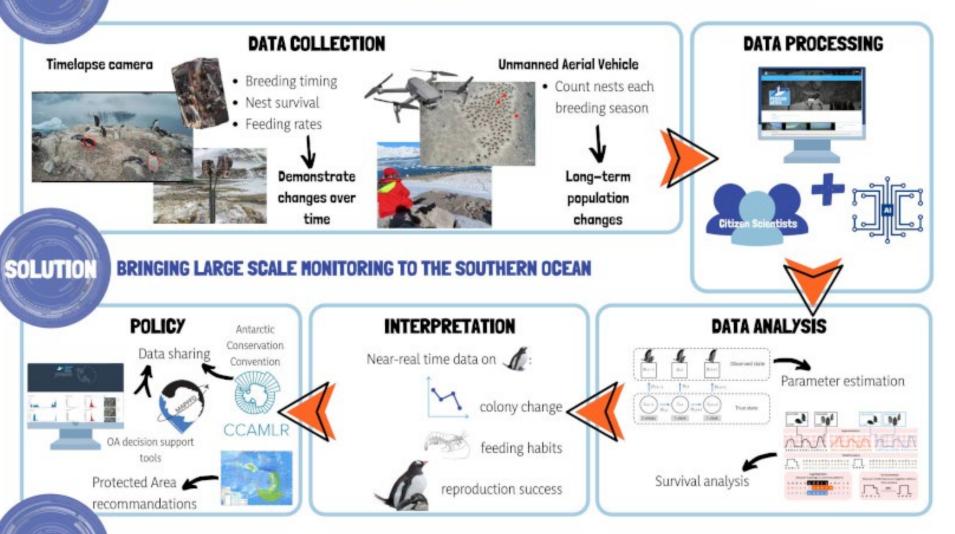
There are no collections yet

Discussions:

PROBLEM

VISION

PENGUINS FACE GROWING THREATS FROM CLIMATE CHANGE, FISHERIES & HUMAN ACTIVITIES



LIBRARY YSILI'N



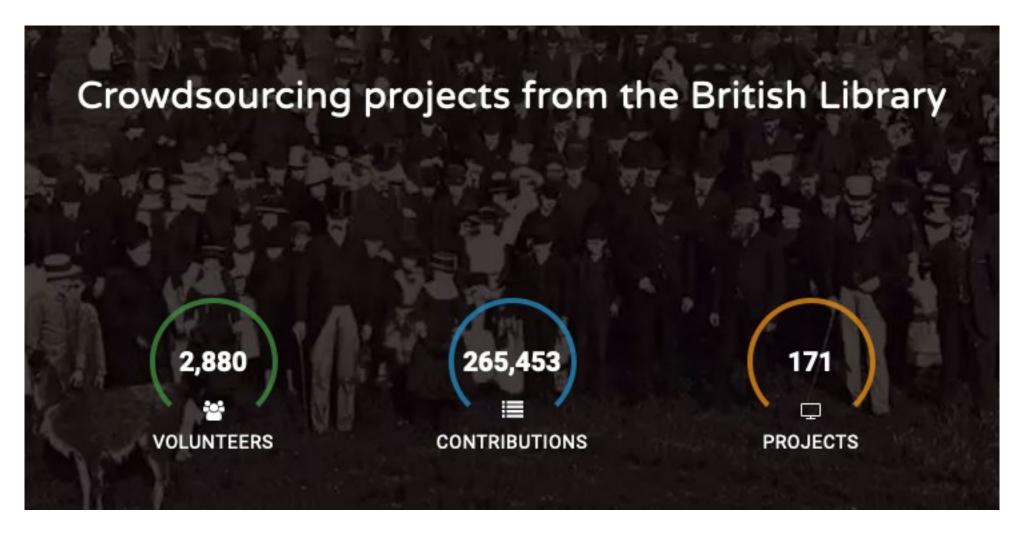
A HEALTHY & RESILIENT SOUTHERN OCEAN THROUGH EVIDENCE-BASED CONSERVATION











On WEDNESDAY (by Defire of Colonel D.

Mate, Mr. DENMAN, Trudge, Mr. RUSSELL,

Narcissa, Mrs. STANLEY, Yarico (first Time) Mrs. POWELL, Patty, Mrs. BEW, Wowski, Mrs. BRAMWELL.

End of the Play, (by particular Defire,) the OVERTURE of OSCAR and MELVINA, on the PEDAL HARP, By Mr. WEIPPERT.

A COMIC SONG, by Mr. DENMAN.

To which will be added, the MUSICAL FARCE of

The FARME

Col. Dormant, Mr. WILMOT-WELLS, Capt. Valentine, Mr. EDWARDS, Counfeller Flummery, Mr. BEW, Farmer, Mr. DENMAN, Jemmy Jumps, Mr. RUSSELL. Rundy, Mr. DE CAMP.

Louifa. Mrs. STANLEY, , Betty Blackberry, Mrs. BEW, Molly Maybush, Mrs. BRAMWELL.

Tickets to be had of Mrs. BRAMWELL, at Mr. Edmonds', Dane Hill. at the Libraries; and of Mr. Dale, at the Theatre Office, from Ten till Three. 4s.—PIT 2s. 6d.—GALLERY 1s.---Nothing under Full Price taken. Doors to be opened at SIX, and to begin precisely at SEVEN.

TASK

Transcribe the genre

Type in the genre of the highlighted title, exactly as displayed on the page. If there is no genre displayed you can leave the field

GENRE

musical farce

Seen something interesting? Add a note

Save and Continue

LibCrowds @LibCrowds · Jul 6

Louise C asks, 'The W. Telbin who acts as a Servant Reform is mentioned alongside a second Telbin on a these related to the famous scenic painters, I wonde Hull, 1829 access.bl.uk/item/viewer/ar... #TheatreHis

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LibCrowds

@LibCrowds

@LIDCrowds

Great response to @LouLikesToKnit 's question from @i_bananas on our forum community.libcrowds.com /d/31-famous-pe... using a range of sources to conclude that 'it's highly likely that these are members of the same family'

12:15 PM · Jul 7, 2020 · Twitter Web App

1 Retweet 3 Likes

↑

↑

↑

↑



Nicki @i_bananas · Jul 7

Replying to @LibCrowds and @LouLikesToKnit

Being able to use such a variety of sources highlights why the digitisation of archives and a project like LibCrowds is so valuable. Especially when trying to research the lives of performers and their unpredictable movements.



17 2



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Thank you for completing all our tasks! We will review the results and update our tasks in the new year.

How did the mechanisation of work in 19th century Britain change ordinary lives?
Researchers need your help to discover stories about the industrial past in digitised newspapers.

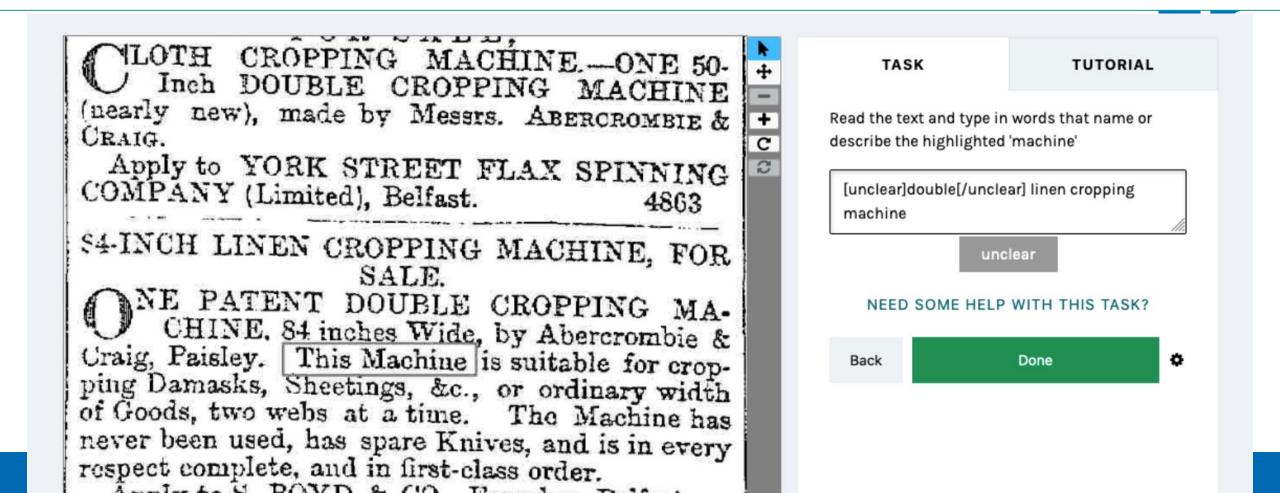
Learn more

Get started **↓**

We've identified newspaper articles that use the phrase 'this machine'. We want to understand what the authors thought a 'machine' was by analysing the language they used. We need your help to identify what kind of machine was meant in each example. The tasks ask you to read sections of articles and type in phrases from their text about the 'machines' discussed. One task helps build a list of words used in primary sources that will underpin linguistic and historical research. The other helps us understand which meanings for the word 'machine' were most used in the original articles.

What's that machine? Describe it!

What's that machine? Classify it! (alpha)



Benefits of citizen science

LIBRARY YANA

- Data observations, annotations, transcriptions, classifications, etc.
- Knowledge for the public increased awareness of research methods, subject expertise, greater scientific or historical literacy
- Research publications and datasets
- Greater and more engaged use of cultural heritage collections and knowledge
- More diverse perspectives from the public and other disciplines
- Skills for library staff and scientists including community engagement, project management, communicating specialist topics, workflow
- New relationships between participants, project teams, institutions

Challenges of citizen science

LIBRARY HSILI'N

Common

- Time and aptitude required within organisations
- Workflow and data management; processing and using the results
- Ensuring and explaining the credibility of public observations
- Recruiting and retaining participants despite competition for their time

More advanced

- Integrating crowdsourcing into research processes, timelines
- As machine learning / Al gets better at core tasks, how can we retain opportunities to access collections, knowledge and learn through participation?
- Ensuring 'human computation' systems embed appropriate values

What does this mean for you?

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You can try out different projects to get hands-on knowledge of the field

You can host editathons and other activities

You can create or collaborate on research through citizen science

You can improve access to cultural heritage collections

You can help document, host and ensure the re-usability of crowdsourced data

bl.uk

Get involved

The Collective Wisdom Handbook: perspectives on crowdsourcing in cultural heritage - now open Wisdom for access and review

https://britishlibrary.pubpub.org/

A Citizen Science Guide for Research Libraries looking for contributors

https://citsci-wg.github.io/guide/

The Collective Handbook

Perspectives on Crowdsourcing in Cultural Heritage



Mia Ridge - Samantha Blickhan - Meghan Ferriter Ylva Berglund Prytz = Ben Brumfield = Sara Brumfield = Denise Burgher = Jim Casey = Sonya Coleman Daria Cybulska - Michael Haley Goldman - Kurt Luther - Austin Mast - Nick White - Brendon Wilkins - Pip Willcox





Thank you