

# Citizen science tools and Al

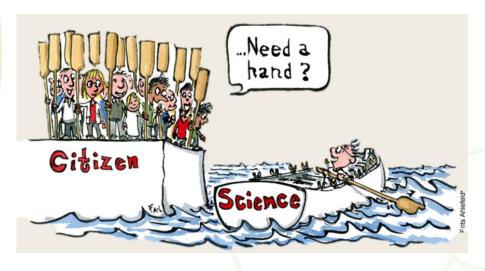
9 October 2023

Gitte Kragh

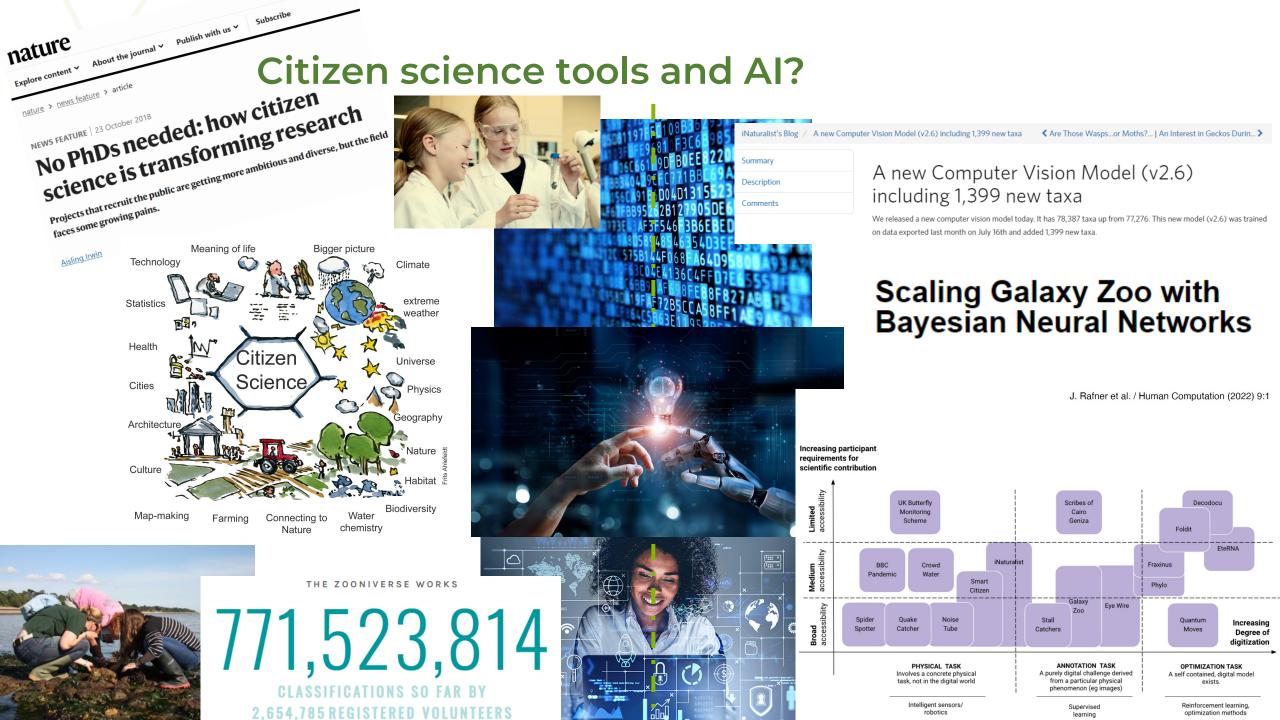


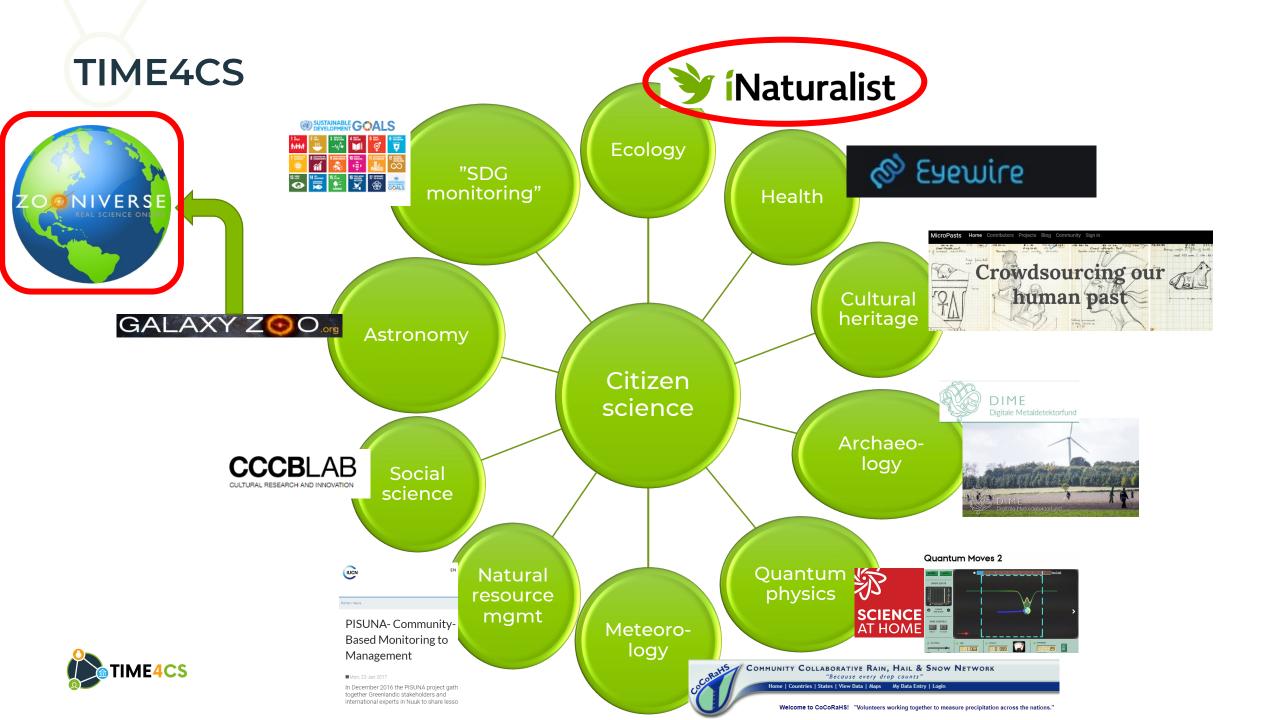
# TIME4CS

SUPPORTING SUSTAINABLE
INSTITUTIONAL CHANGES
TO PROMOTE CITIZEN SCIENCE IN
SCIENCE AND TECHNOLOGY

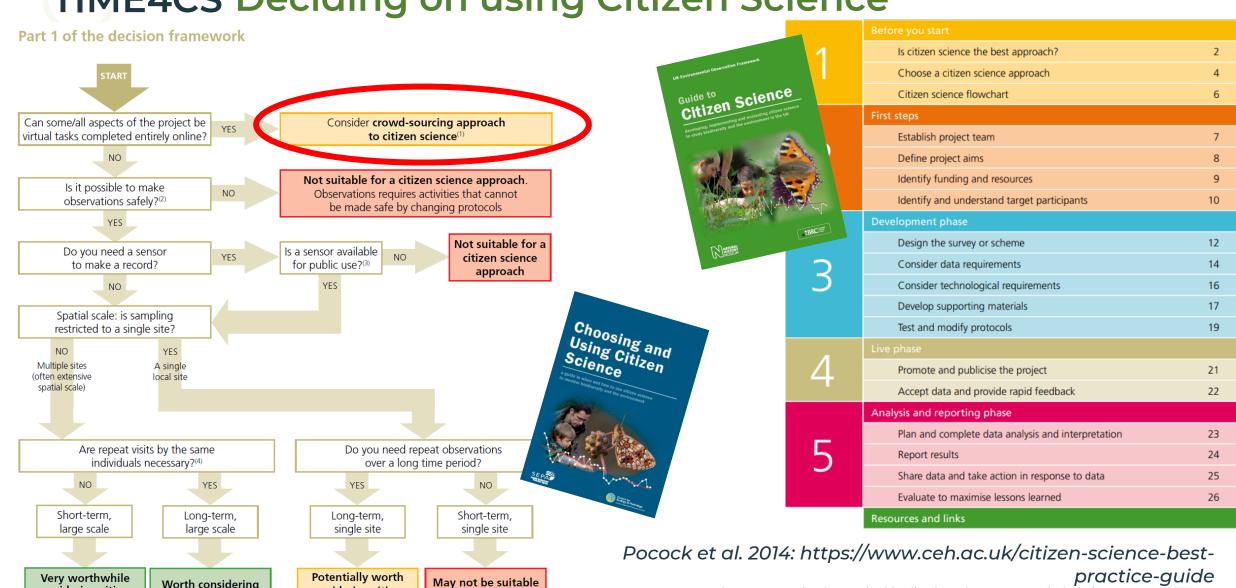








### TIME4CS Deciding on using Citizen Science



considering citizen science. A key issue is recruitment of participants

citizen science. A key issue is retention of volunteers

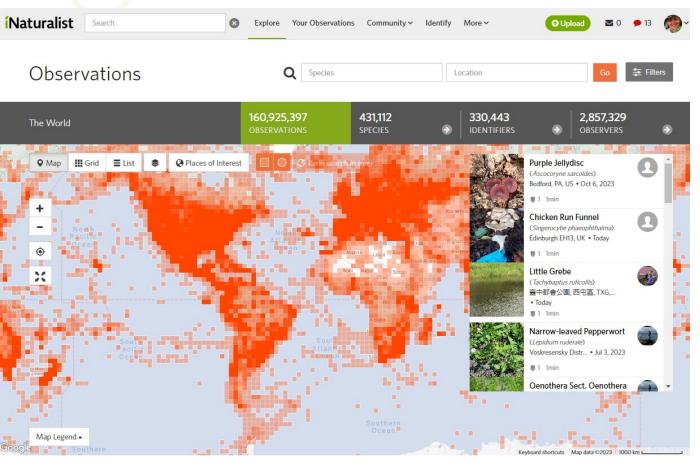
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May not be suitable for citizen science(5)

The TIME4CS project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101006201

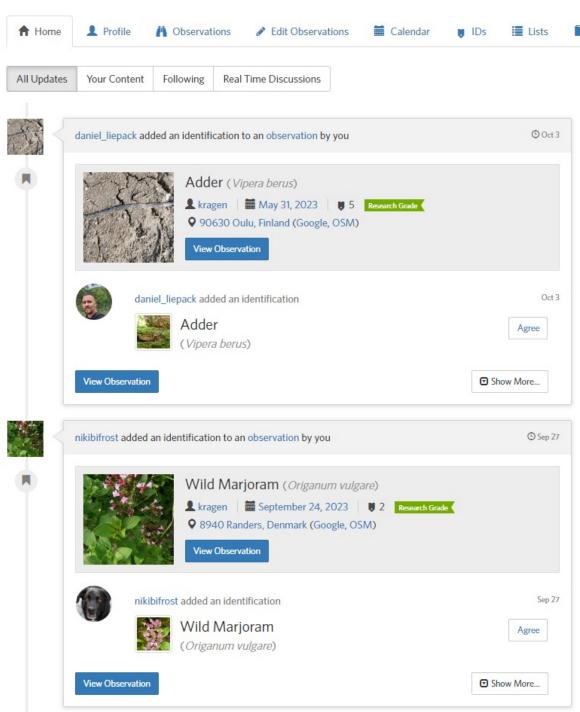


#### **TIME4CS iNaturalist**



- Computer Image Model: updated monthly
- September 2023: 78,387 taxa





### TIME4CS iNaturalist – City Nature Challenge In 2022: 10% of all obs. from Luxembourg!







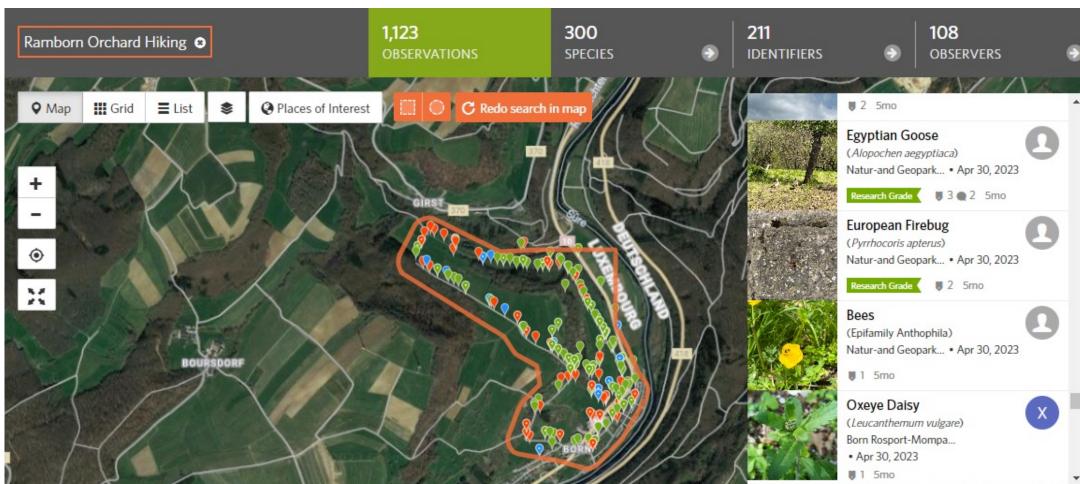




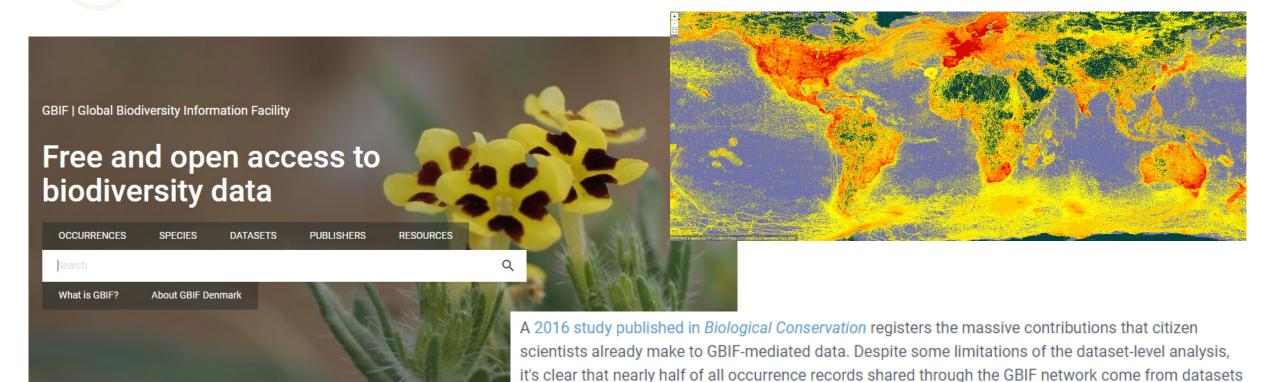








### TIME4CS Crowdsourcing of research: Biodiversity monitoring



and underrepresented organisms, like insects and fungi.

GBIF—the Global Biodiversity Information Facility—is an international network and data infrastructure funded by the world's governments and aimed at providing anyone, anywhere, open access to data about all types of life on Earth.

with significant volunteer contributions.

The analysis also highlights the fact that biodiversity data from citizen scientists, like biodiversity data generally, are distributed unevenly across geography and taxa. Identifying data gaps and biases could help quide citizen programmes to focus on poorly sampled regions, like Africa, Asia and Latin America,





### **TIME4CS Zooniverse.org**



WELCOME TO THE ZOONIVERSE

# People-powered research

THE ZOONIVERSE WORKS

# 771,523,814

2,654,785 REGISTERED VOLUNTEERS





















Most Recently Launched



Showing 1-20 of 97 projects found









SIREN project

SIREN PROJECT

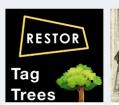


NEST QUEST GO: GRACKLES



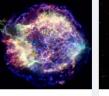


BACKYARD WORLDS: COOL NEIGHBORS



TAG TREES INCARCERATED







REDSHIFT WRANGLER



MARSH EXPLORER



PEOPLE'S CONTEST DIGITAL



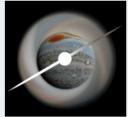
NOTES FROM NATURE - BIG BEE BONANZA!



CLOUDS POTTING ON MARS



GET TO KNOW MEDIEVAL LONDONERS



JOVIAN VORTEX HUNTER



PICTURING MICHIGAN'S PAST



NOTES FROM NATURE DIGITIZING BIOLOGICAL



SCIENCE SCRIBBLER:



CORRESPONDING WITH QUAKERS

### **TIME4CS Zooniverse.org**

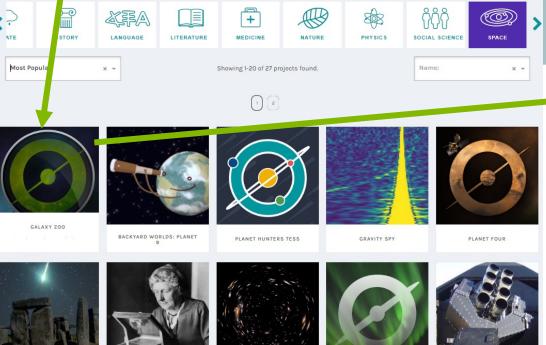


RADIO METEOR ZOO

WELCOME TO THE ZOONIVERSE

### People-powered research

See All Projects



DARK ENERGY EXPLORERS

AURORA ZOO

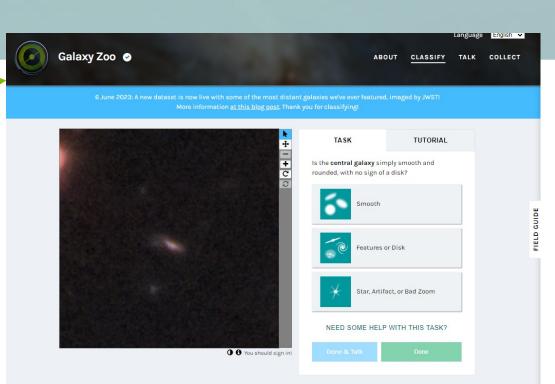
SUPERWASP VARIABLE STARS

STAR NOTES

Al identify challenging galaxies ->

Volunteers identify galaxies ->

Al trained on classifications



285,459

Classifications

7,679

Subjects

3,673

Completed Subjects

**GALAXY ZOO STATISTICS** 

47% Complete

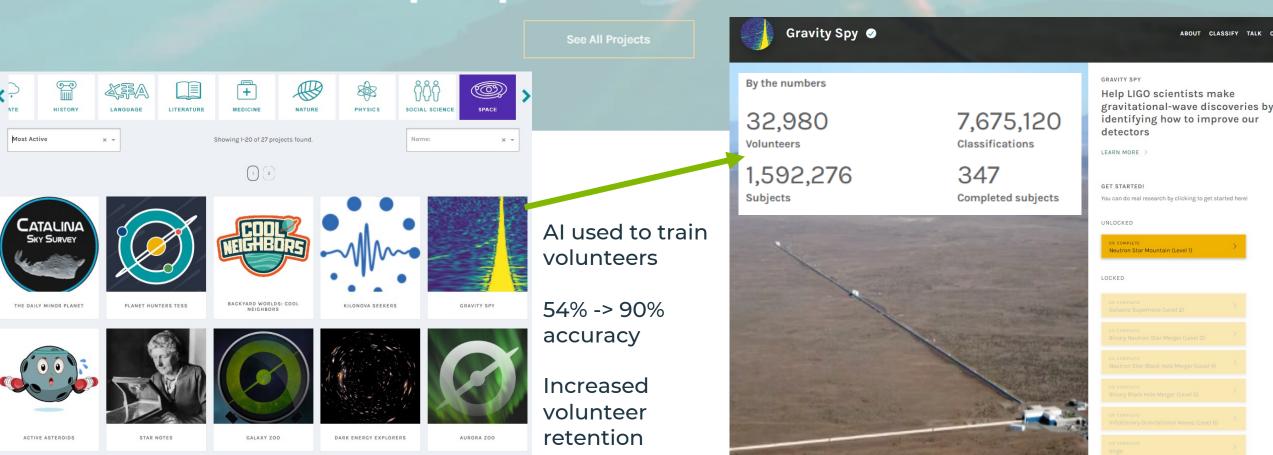
102,688

Volunteers

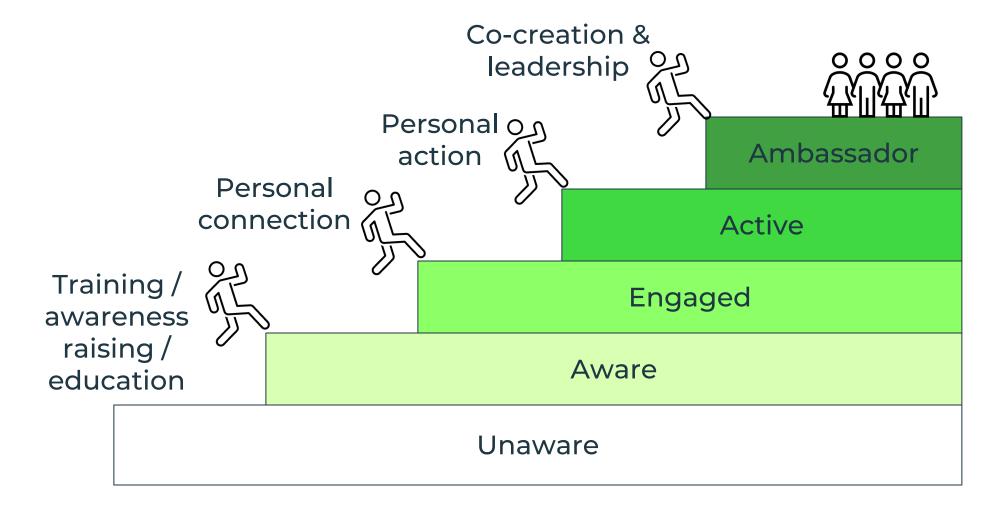
### **TIME4CS Zooniverse.org**

#### WELCOME TO THE ZOONIVERSE

## People-powered research



### TIME4CS Ladder of Participation













**#TIME4CS** 







# Thank you for your attention!

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Any questions?

