Citizen Science Support Resources & Infrastructure

AU, 7 November 2023
Gitte Kragh & Kristian H. Nielsen, Centre for Science Studies, AU
AIM

Embedding citizen science at AU

• Establishing AU citizen science network
• Running citizen science activities and events
• Offering workshops on citizen science

H2020 EU-funded:
3 years: 1 January 2021 - 31 December 2023
AIM of this workshop

• Identification of support resources and infrastructures relevant for citizen science projects
• Facilitation of development of support resources and infrastructures relevant for citizen science projects
• Development of CS projects building on ethical guidelines in citizen science
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Citizen science – the term emerges

Amateur contributions to science


- Citizens collecting and analysing rain samples
- Birdwatchers submitting sightings
- Participants are instruments

Democratisation of science

Alan Irwin (1995)

- Democratic, participatory science
- Science to address needs and concerns of citizens
- Citizens could develop process of producing reliable knowledge themselves
- Participants can influence and transform science

Biodiversity monitoring

CS now

Activist science

Participatory action research

Community-based natural resource management

Public and Patient Involvement (PPI)
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Successful institutional promotion of resources and infrastructure to support citizen science
Areas where an institutional contact point or other support functions can help researchers to ensure success of citizen science project:

- Data collection methods
- Ethics and legal aspects
- Public engagement, communication, community building
- Platform development
- Funding for non-research aspects
TIME4CS Crowdsourcing of research funding allocation

- Southern Denmark University
- 5 hospitals present a research project
- The public votes via Text message
- 2 million DKK distributed (1 / 0.6 / 0.4)
- Yearly since 2019
TIME4CS CS Zürich: Citizen Science Project Builder

CITIZEN SCIENCE TOOLS
CONTRIBUTE TO EXISTING PROJECTS OR CREATE YOUR OWN

Citizen Science Zurich is developing a set of tools that make it easy for scientists and citizens to engage with Citizens Science projects.

Discover
Contribute to existing projects
Browse the projects created by scientists and citizens to answer questions in science and society, and contribute your own brain power!

CS Logger
Create a data-collection project
Engage people in contributing all sorts of digital data for scientific quests by creating a ready to use data collection app for smartphones.

CS Project Builder
Create a data-analysis project
If the analysis of your data (images, videos, documents,...) can profit of people’s unique skills and wisdom, build a project for them!
Dry leaves and wooden spoons: The story of the Wenker sheets

In the 1930s, teachers at many schools in the German-speaking part of Switzerland and their students translated 40 high German sentences into the respective village dialect, such as these phrases: „In winter, dry leaves fly through the air” or „I beat your ears with a wooden spoon, you monkey.” The sentences are named after their “inventor” Georg Wenker “Wenker phrases” and they sometimes seem to make little sense; they were just used to capture the main features and differences of the dialects.

The result of the translations is compiled per site on a piece of paper, a so-called “Wenkerbogen” (Wenker sheet). The sentences recorded there provide a rough insight into the respective dialects of the time. For many places, there are hardly any older testimonies of the Swiss German dialects, as sound recordings were just emerging at the time and were therefore very expensive.
TIME4CS Citizen science hubs (institutional contact points)

Facilitating citizen science

Connection to society

• Helping connect to relevant societal actors and collaboration partners, possibly through ‘gate keepers’, e.g. school teachers, associations, etc.

Community building of volunteers

• Recruitment, communication, feedback and support of volunteers

Funding

• Suggesting / supporting funding application options for non-research aspects, e.g. community building

The TIME4CS project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101006201
Welcome to the platform for sharing citizen science projects, resources, tools, training and much more

join the community and participate
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The funding landscape for citizen science
Use funding databases like Research Professional

Regulation
‘IP clarity and seed bank needed before EU GMO rules change’
Consultative body backs proposal to amend EU rules on genetic modification of crops, if supplemented

Universities
European Research Area ‘missing policy on fundamental research’
Guild of European Research-Intensive Universities pushing for new priority under ERA policy agenda for 2025-27

Politics
Space ministers to discuss EU’s strategic autonomy
Protecting Europe’s space assets also set to be a topic of conversation at upcoming meeting

Universities
Utrecht leader urges universities to ‘collectively pass’ on rankings
Plea comes after Utrecht University’s decision to leave Times Higher Education ranking
A search for “citizen science” gives limited results.
A search for “participatory” gives more results!

Consider using other related search terms to get more results.
Horizon Europe will also support and promote the **involvement of citizens**, civil society and end-users in public engagement, **citizen science**, and user-led innovation modes of research and innovation. Citizens and end-users will therefore be important contributors to research and innovation outcomes.

Open Science, which includes citizen and societal engagement, will be **operationalised** throughout the programme: **award criteria** for proposal evaluation, **key impact pathways**, and within **topic texts**.

- In **Horizon Europe Missions**, citizen science is acknowledged to play a **key role** in research and innovation by providing feedback on new technologies and ensuring societal uptake of disruptive solutions.

- Furthermore, the **excellence sections** (in RIAs and IAs) are evaluated by the quality of **open science practices**, including the engagement of citizens.
TIME4CS EU Citizen Science funding

Horizon2020 – examples of CS-related funded projects

- Doing It TOgether science (DITOs)
- REsearch INfrastructures FOR Citizens in Europe (REINFORCE)
- Distributed Network for Odour Sensing, Empowerment and Sustainability (D-NOSES)
- Citizen Science as the new paradigm for Science Communication (NEWSERA)
- Measuring the Impact of Citizen Science (MICS)
- Citizens Observing UrbaN Transport (WeCount)
- Citizen Science for Urban Environment and Health (CitieS-Health)
- The Platform for Sharing, Initiating, and Learning Citizen Science in Europe (EU-citizen.science)
- Science Transformation in EuroPe through Citizens involvement in HeAlth, coNservation and enerGy rEsarch (STEP CHANGE)
- INCENTIVE – Citizen Science Hubs
- Supporting sustainable Institutional Changes to promote Citizen Science in Science and Technology (TIME4CS)

The TIME4CS project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101036203
TIME4CS Citizen Science Funding

ERC Showcase of Citizen Science projects

- 69 projects
- 19 countries
- €125 Million budget
- 54% women

- 42 Social Sciences and Humanities
- 17 Life Sciences
- 9 Physical Sciences and Engineering

Keywords:
- Consumption Patterns
- Genetics
- Society
- Justice
- Institutions
- Behaviour
- Citizen
- Sharing
- Technologies
- Adaptation
- Food
- Solar System
- Citizen
- Practices
- Cities
- Social Media
- Climate change & Environment
- Health
- Local Communities
- Physics

Grants:
- StG: 25
- CoG: 23
- AdG: 13
- PoC: 7
- SyG: 1
TIME4CS Upcoming EU calls related to citizen science

**Biodiversity**
HORIZON-CL6-2024-BIODIV-01-1 22. februar 2024

**Invasive alien species**
HORIZON-CL6-2024-BIODIV-01-5 22. februar 2024

**Transformative action of policy mixes, governance and digitalisation addressing biodiversity loss**

**Climate & Green transition**
HORIZON-CL6-2024-GOVERNANCE-01 28. februar 2024

**The role of mainstream media, social media and marketing in fostering healthy and sustainable consumption patterns and how to encourage good practices**
HORIZON-CL6-2024-COMMUNITIES-02-1-two-stage 22. februar 2024 + 17. september 2024

**Innovating for climate-neutral rural communities by 2050**
HORIZON-CL5-2024-D4-01-02 18. april 2024

**Smart grid-ready buildings**

**Digital citizenship**
HORIZON-CL2-2024-TRANSFORMATIONS-01-10 7. februar 2024

**Effective education and labour market transitions of young people**
HORIZON-CL5-2024-D6-01-09 5. September 2024

**Policies and governance shaping the future transport and mobility systems**
HORIZON-CL5-2024-D4-02 21. januar 2025

**Digital solutions to foster participative design, planning and management of buildings, neighbourhoods and urban districts (Built4People Partnership)**

**Culture & Democracy**
HORIZON-CL2-2024-TRANSFORMATIONS-01-10 7. februar 2024

**Effective education and labour market transitions of young people**
HORIZON-CL2-2024-HERITAGE-01-01 7. februar 2024

**New European Bauhaus – Innovative solutions for greener and fairer ways of life through arts and culture, architecture and design for all**

**Food & Agriculture**
HORIZON-CL6-2024-COMMUNITIES-01-1 22. februar 2024

**Unlock the potential of the New European Bauhaus in urban food system transformation**
HORIZON-CL6-2024-FARM2FORK-01-6 22. februar 2024

**Citizens’ science as an opportunity to foster the transition to sustainable food systems**

**Health & Well-being**
HORIZON-HLTH-2024-STAYHLTH-01-02-two-stage 19. september 2023 og 11 april 2024

**Towards a holistic support to children and adolescents’ health and care provisions in an increasingly digital society**

HORIZON-HLTH-2024-ENVHLTH-02-06-two-stage 19. september 2023 og 11. april 2024

**The role of environmental pollution in non-communicable diseases: air, noise and light and hazardous waste pollution**


**Personalised prevention of non-communicable diseases - addressing areas of unmet needs using multiple data sources**

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

EU Funding & Tenders portal

AU employees (using your AU email address) can subscribe to the CDEU AU newsletter Research Trends by emailing AU Brussels: aubrussels@CentralDenmark.eu

In Research Trends for the month of April we will share the MSCA call for Postdoctoral Fellowship and the launch of a new MSCA tool. You can read that DG RTD has updated the Work Programme 2023-2024 and the Cluster 3 Work Programme is now published. We also share, that the EU has made the final agreement for the European Chips Act. Furthermore, we invite you to take part in the consultations regarding EU’s climate target for 2040.

For an overview of research and innovation events, please consult the end of the newsletter.
TIME4CS Secrets to writing a winning grant

Scoping, pitching, writing and rewriting

• Do your research
  • Note differences in the scope of different funding instruments, but also success rates, frequency of calls, expected team size, international collaborators, assessment criteria and panels, etc.

• Pitch your proposal
  • Contact funding organisations, but also connect your research problems to broader issues and your own background

• Write in plain English (as plain as possible)
  • Connect to your audience: Applies especially to the abstract and introduction
TIME4CS Secrets to writing a winning grant

Tips and tricks

• Allocate enough time (as much as one week per page)
  • Include time for rewrites, proofreads and commentary

• Seek criticism and feedback
  • Request feedback from colleagues, but also friends and family members
  • Unclear writing may be a sign of unclear thinking
  • Negative feedback can be one of the best learning experiences

• Seek assistance from research support units
  • They may be able to help with the scoping, writing and submission process
Interactive session: Designing citizen science proposals

25 min group discussion + 5 min presentations from groups
TIME4CS Designing citizen science proposals

Interactive session – 25 min (+2 min pitch from each group)

• In smaller groups, choose one of the following calls:
  • IMPETUS call (opens January, closes March 2024)
  • Experiment.com (crowdfunding)
  • AUFF Nova call (September 2024)
  • Any other call of your own choice (preferably within citizen science)

• Develop a pitch for a citizen science proposal by answering the following questions – each group will present their pitch
  • What is the context of this research? (Why it matters?)
  • What is the significance of this research? (How much it matters?)
  • What are the goals of this research? (What do you set out to achieve?)
Let's start with the Accelerator Programme.

It has two grants:

- **Kickstarting grants**: If you start a project, successful applicants will receive €20,000, mentoring and training support to help start your initiative for a period of six months.

- **Sustaining grants**: If you are an ongoing project, successful applicants will receive €10,000, mentoring and training support for a period of six months.

The challenges or topics of this first call are “Healthy planet” and “Cities for Life”. This means that your project should address and relate to one of these topics.

Who can apply? Individuals, legal entities, and consortia established in a country or territory eligible to receive Horizon Europe grants are eligible to apply. Please note that the geographic eligibility focuses on the European Research Area (ERA), namely the EU Member States, all overseas countries and territories linked to EU Member States and all third countries having concluded or currently negotiating an association status with Horizon Europe.

The funding can be spent on salaries, equipment, consumables, travel, and subcontracting in accordance with Horizon Europe guidelines.

This is a great chance if you are:

- thinking of starting a new citizen science project;
- an ongoing citizen science project looking for support, financial and otherwise, to grow and become sustainable;
- a researcher or a research team seeking to resource a new citizen science project;
- a community interested in co-designing research on the topics related to our challenges: Healthy Planet and Cities for Life
- an organisation in public, private and third sectors exploring the use of citizen science in their work.

[https://impetus4cs.eu](https://impetus4cs.eu)
Voices of food insecurity: Exploring barriers and strategies to healthy food access

By Chris Schaeffauer, Nina Holtz, Hana Dansky, Ingrid Castro-Campos, Lindsey Loberg, and Joel Marquez
Backed by John Jasper Speicher, Ann Mattson, Becky Boone, Angela Li, Tyler Manser, Emerson Farrugia, Lee Scriggins, Alex Halbleib, David Haddad, Simona Carini, and 12 other backers

$1,421
Raised of $1,370 Goal
103%
Funded on 4/28/16
Successfully Funded

What is the context of this research?
Food insecurity is "a household-level economic and social condition of limited or uncertain access to adequate food". By this definition, 17.4 million households in America (or 14% of people) were food insecure in 2014. Food insecurity is associated with obesity, chronic illness, and contributes to continued cycles of poverty.

There has been a call for research that actively engages people facing these issues to improve food access. One way to engage people in this process is through community-based and participatory research (CBPR). These approaches improve "the quality and validity of research by engaging local knowledge and local theory based on the lived experience of the people involved" and aid in translating research into action.

What is the significance of this project?
Research exploring the diverse, lived experiences of people affected by food insecurity is essential in developing new approaches to improve food access at a community-level. In working together with people affected by food insecurity, we aim to co-create a greater understanding of the challenges people face in getting and preparing food. This will, in turn, spark new ideas for how communities can improve food access.

This project is also significant in that we are using a novel community-based research approach, which we anticipate can be used in other communities. Therefore, an important part of this project will be documenting our research process and the challenges we face. We will share our experiences and protocols, so that others can conduct similar research in their communities.

What are the goals of the project?
We aim to explore the diversity of experiences associated with food insecurity and identity food access barriers through three activities: qualitative inquiry into the lived experiences of food insecure, participatory data analysis, and design research.

First, we’ll conduct multimedia interviews with 25 people affected by food insecurity. Each person uses a camera phone, which we provide, to record their experiences getting food for 2 weeks. Afterward, we’ll discuss their recordings and barriers and facilitators to food access.

Next, we’ll host workshops to analyze de-identified interview data to identify common themes.

Lastly, we’ll host community design workshops to co-create ideas to improve food access.

In all these activities, we’ll work together with people affected by food insecurity.
Finding a Cure for Batten Disease

By Charlotte And Gwennyth Gray Foundation

Backed by Liat & Mark Ciardi, Jennifer Lawrence, Gero M Bauknecht, Gary Tekulsky, Barry Hooven, Lauren Santo Domingo, NORMAN LEAR, GORDON KING, Kirston M Maitas, Talia Gort, and 18875 other backers

$2,641,086
Raised of $1,000,000 Goal
264%
Funded on 10/24/15
Successfully Funded

What is the context of this research?

Due to their physical and environmental properties, seamounts have been known to act as biodiversity hotspots and can host numerous vulnerable marine ecosystem (VME) indicator species. Despite their abundance and ecological roles, less than 0.1% of the world's seamounts have been explored. These vital ecosystems are under threats from human activities including unsustainable forms of fishing and deep-sea mining.

We will be developing low-cost deep sea drop cameras using off-the-shelf resources in order to assess the status and biodiversity of the deep-sea areas of the Manta Bowl seamount, contribute to deep-sea AI, and provide more insights to these ecosystems. Comparison studies with existing low-cost camera system, Maka Niu, will also be conducted.

What is the significance of this project?

Despite the area being situated inside a protected area, the current zoning allows for potentially damaging activities to occur, including oil and gas shipping and unloading, seismic exploration and fishing.

By identifying critical habitats and collecting baseline information on the current status of biodiversity, unsustainable activities can be managed and regulated to ensure the conservation of these important deep-sea waters.

The low-cost, open-source technology will also make deep sea research more accessible to students, early-career researchers and deep sea enthusiasts worldwide, subsequently increasing our knowledge of the deep sea and contributing to the Global Sustainable Development Goals.

What are the goals of the project?

The goals of the project are to

1) Assess the deep-sea biodiversity and identify critical habitats in the waters of the Ticao-Bunis Pass Protected Seascapes (Philippines) with particular focus on the Manta Bowl seamount.

2) Develop an efficient and easy-to-use, low-cost, deep-sea camera system, to increase accessibility to deep water exploration and research for local communities and research groups, regionally and globally.

3) Provide images from a poorly explored region of the world, to enhance AI and machine learning and support automated data management for the development of large scale deep sea citizen science projects.
The aim of AUFF NOVA is to stimulate courageous and innovative research projects of high quality - projects, which may have difficulties obtaining alternative funding. The project must be pioneering in its field and show clear potential for scientific breakthroughs. The hypothesis or problem behind the project may require development of new methods and it may challenge existing paradigms.

As the foundation wishes the funds from the foundation to benefit as many different researchers as possible, a 1-year waiting period for applicants applies. This means that if the application was rejected in 2022, the applicant cannot apply this year. Also if the application is rejected this year the applicant is not eligible to apply next year. Furthermore, grant holders cannot apply during the period in which they already hold a NOVA grant from the foundation.

In the evaluation of applications, the scientific potential and originality of the project will be weighted higher than the applicant's CV.

In 2023, the frame for AUFF NOVA is DKK 40,000,000 in total.

In 2023 AUFF NOVA includes two types of grants with a slight adjustment of the budget available for each project type compared to previous calls. Priority is given to small projects.

1. Small projects (up to DKK 600,000), duration 1-2 years
2. Large projects (up to DKK 2,500,000), duration 3-4 years

Application deadline is Friday 15 September, 2023 at 12.00 noon

AUFF NOVA is available for all researchers with a permanent position at AU. Tenure track assistant professors are considered permanent staff in this regard. Research leaders in fixed, part-time employment at AU, with concurrent clinical employment at AUH, can also apply. Buy-out/frikøb is not granted in this scheme. See more in the application guide for AUFF NOVA.

Synopsis
The synopsis should include a short description of the project, research questions and hypotheses in relation to current beliefs and contain information on sources, data and methods. Moreover, the project's scientific importance and broader impact must be included. (Maximum of 4800 characters; 2 pages, 1.5 line spacing). One extra page with publication references to the synopsis may be added if needed.

Project plan
The project plan should give an overview of the project's timeline and work plan. Milestones and deliveries should include at least one large national or international research grant application. Moreover, the plan should include the project's future development in terms of content, financing and the planned contribution to talent development. (Maximum of 2400 characters; 1 page, 1.5 line spacing)

Presentation of the research group
Description of the research group and the competences relevant to the project (Maximum of 2400 characters; 1 page, 1.5 line spacing)

Recommendation letter
Academic recommendation by head of department or similar must be enclosed (applicant cannot draw up the academic recommendation him- or herself).

Budget
Specified budget (principal items) for the amount applied from AUFF (maximum 1 page). Project duration is 1-2 years for small projects or 3-4 years for the big projects. Small projects with a maximum of DKK 600,000 in total and large projects up to DKK 2,500,000, in total. It is possible to apply for costs related to project implementation, including salary for staff (typically PhDs or postdoctoral fellows). Please note, if the budget contains costs related to wages, these must be based on Danish collective agreements and include pension, ATP and holiday payment.

It is possible to apply for apparatus and instruments or necessary remodeling of laboratories if needed for the project. Attach quotes for the specified to the budget file.

It is not possible to apply for salary to the PI/applicant, since Buy-out/frikøb is not granted in this scheme.

Overhead is not granted in this scheme.
TIME4CS Designing citizen science proposals

Interactive session – 25 min (+2 min pitch from each group)

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Ensuring that citizen science projects adhere to ethical standards and legal requirements

Ethical and legal guidelines for citizen science

TIME4CS
SUPPORTING SUSTAINABLE INSTITUTIONAL CHANGES TO PROMOTE CITIZEN SCIENCE IN SCIENCE AND TECHNOLOGY

The TIME4CS project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101006201
TIME4CS Ethics and legal guidelines for citizen science

Key take-aways

Ethics and legal guidelines are essential considerations for citizen science projects to ensure the responsible conduct of research and protect the rights and interests of participants, project organizers, and stakeholders.

• **Informed consent and data privacy:** obtain informed consent from participants and safeguard personal data and privacy.

• **Scientific validity and ethical conduct:** follow rigorous scientific methods and adhere to ethical principles (seek ethics review, if needed).

• **Legal compliance and social justice:** comply with relevant laws and guidelines, consider liability, insurance, and conflict resolution mechanisms, and address issues of justice, equity, diversity, and inclusion (JEDI).
TIME4CS Case: Personal data donation

The Personal Genome Project
The Personal Genome Project, initiated in 2005, is a vision and coalition of projects across the world dedicated to creating public genome, health, and trait data. Sharing data is critical to scientific progress, but has been hampered by traditional research practices. The PGP approach is to invite willing participants to publicly share their personal data for the greater good.

International Projects
The Global Network of Personal Genome Projects includes researchers at leading institutions around the globe.

- Harvard PGP (United States)
  Founded in August 2005, the Harvard Personal Genome Project is the pilot project, and is based in George Church’s lab at Harvard Medical School.

- PGP Canada (Canada)
  Founded in December 2012, PGP Canada is operated by the McLaughlin Centre at the University of Toronto, and the Centre for Applied Genomics at the Hospital for Sick Children.

- PGP UK (United Kingdom)
  Founded in November 2013, PGP UK is led by Stephen Beck at University College London.

- Genom Austria (Austria)
  Founded in November 2014, Genom Austria is based at the CoMM Research Center for Molecular Medicine at the Austrian Academy of Sciences.

- PGP China (People’s Republic of China)
  Announced in October 2017, the Personal Genome Project in China (PGP China) is led by Professor Li Jin at Fudan University, Shanghai. PGP China is now collecting contact information from interested participants and potential collaborators.
TIME4CS Ethical and legal concerns raised by participants in the Health Data Exploration Project
TIME4CS Case: West Baltimore Mosquito Stoppers
West Baltimore Mosquito Stoppers Project

Aligning research and education with community priorities

• Working with community-based organizations to both market and advise on the scope of the project to ensure that research goals aligns with community interests

Planning for co-management of the project and engaging the community at every step

• Recruiting block leaders from within the community as project liaisons

Incorporating multiple kinds of knowledge and disseminating results from the work widely (outside of scientific publication)

• Introducing the PhotoVoice methodology to capture participants' experience and presenting results at focal neighborhood meetings to translate results into actionable knowledge
TIME4CS Codes of conduct and ethical principles for citizen science

Six (out of ten) principles of citizen science

3. Both scientists and the citizen scientists benefit from taking part
   - For example, learning opportunities or satisfaction through contributing to scientific evidence e.g. to address local, national and international issues, and through that, the potential to influence policy

5. Citizen scientists receive feedback from the project
   - For example, how their data are being used and what the research, policy or societal outcomes are

7. Citizen science data and meta-data are made publicly available and where possible, results are published in an open access format
   - Data sharing may occur during or after the project, unless there are security or privacy concerns that prevent this
TIME4CS Codes of conduct and ethical principles for citizen science

Six (out of ten) principles of citizen science

8. Citizen scientists are acknowledged in project results and publications

9. Citizen science programmes are evaluated for their scientific output, data quality, participant experience and wider societal or policy impact
   - MICS indicators for science, environment, economy, governance, and society

10. The leaders of citizen science projects take into consideration legal and ethical issues surrounding copyright, intellectual property, data sharing agreements, confidentiality, attribution, and the environmental impact of any activities
TIME4CS Ethical and legal governance

Rational approach to ethical conduct and legal compliance

Encompassing adherence to ethical standards and compliance with laws, fostering accountability, transparency, and risk management within organizations or projects to ensure responsible behavior and mitigate legal risks

• Ethical and legal standards: Integrating ethical conduct and legal compliance into the project

• Accountability and compliance: Mitigating legal risks and vulnerabilities through compliance and reporting measures

• Transparency and risk management: Conducting risk assessments and protecting sensitive information and data privacy
TIME4CS Integrating ethical considerations into all aspects of citizen science projects

Elements of an ethical infrastructure for citizen science

Institutional frameworks

• Research integrity and responsible conduct of research
• Ethics training and institutional review boards
• Whistleblower policies

Open science and Responsible research and innovation (RRI)

• Transparency and openness in all phases of research
• Stakeholder engagement and adherence to JEDI principles
• Anticipation, reflection, inclusion, and responsiveness
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Institutional contact points for citizen science

Successful institutional promotion of resources and infrastructure to support citizen science
TIME4CS  Successful institutional promotion of resources and infrastructure to support citizen science

Key take-aways

Promoting resources and support infrastructure for citizen science enhances accessibility, elevates research quality, and ensures sustainability, leading to more impactful and inclusive scientific contributions

- **Accessibility and inclusivity**: allowing a diverse range of participants to engage regardless of their location, background, or resources
- **Quality and impact**: enabling better training, data collection tools, and project management, ultimately improving the quality of research outcomes and the positive impact of citizen science initiatives
- **Sustainability and growth**: foster continued innovation and growth of citizen science projects to address pressing societal and environmental challenges
The Knowledge Center is hosted by the Library and anchored at all Faculties, DIAS, RIO as well as Odense University Hospital. The overall goals are:

**For society:**
- To bring citizens closer to science – and scientists closer to society
- To broker knowledge sharing about Citizen Science – internally and externally
- To open the research process for all citizens across all levels of education and social groups through communication, education and learning

**For researchers:**
- To enable researchers to conduct excellent research with regards to Citizen Science
- To provide relevant services for researchers – and enable them to act themselves
- To support the UN SDG's

The Knowledge Center supports and consolidates the SDU strategy of “creating value for and together with society by working with the UN's SDGs” and is working to attract and maintain present and future generations of talents, learners and citizen scientists.

The task of the Center is to create impact by (1) initiating projects aimed at dissolving traditional divisions between research professionals, Faculties and the other links in the chain of education and (2) initiating projects in collaboration with the public including new and established media. An important aspect is (3) supporting researchers in managing research projects in order to conduct ethical sound community-based research, collect data, and do excellent research as well as (4) promoting Open Science.
Citizen science is here broadly understood to include crowd-sourced science, public participation in science, public engagement with science, scientific citizenship, patient and public involvement, and more. This site was set up to enable AU knowledge exchange, networking and collaborations in relation to citizen science.

AU Library may also be able to assist with resources and guidance; citizen science lies under their Open science services.

If you have any suggestions or questions, please contact Gitte Kragh.

**Engaging Citizen Science Conference 2022**
The role of a single point of contact (SPOC) for citizen science

Initiating, facilitating and coordinating citizen science

The SPOC for citizen science serves as a vital link between research and the wider community, ensuring that citizen science projects align with the organization's goals, values, and ethical standards while facilitating their successful implementation and impact.

- **Coordination and support**: coordinating communication, offering guidance, and allocating resources for citizen science projects within the organization.
- **Ethical and legal compliance**: ensuring projects adhere to ethical and legal standards, including ethics review and data privacy.
- **Quality assurance and promotion**: maintaining project quality, tracking impact, and advocating for the importance of citizen science both within and outside the organization.
TIME4CS Designing a single point of contact (SPOC) for citizen science

Designing for impact, outreach and sustainability

Assessment and needs analysis

- Conduct a thorough assessment of the organization's current citizen science landscape, identifying existing projects, potential stakeholders, and resource availability
- Determine the specific needs, challenges, and opportunities for citizen science within the organization
TIME4CS Designing a single point of contact (SPOC) for citizen science

Designing for impact, outreach and sustainability

Role definition and structure

• Define the role and responsibilities of the SPOC, including their scope of authority, reporting structure, and key functions

• Consider whether the SPOC should be a dedicated individual, a team, or a committee, depending on the organization's size and citizen science goals
TIME4CS Designing a single point of contact (SPOC) for citizen science

Designing for impact, outreach and sustainability

Training and integration

• Provide necessary training and support to the SPOC to ensure they have the expertise and knowledge needed to fulfill their role effectively

• Integrate the SPOC into the organization's existing structures and communication channels to facilitate seamless coordination with researchers and citizen science initiatives
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Interactive session: Designing the AU SPOC for citizen science

Successful institutional promotion of resources and infrastructure to support citizen science

25 min group discussion + 5 min presentations from groups
TIME4CS Designing the AU Single Point of Contact (AU-SPOC)

Interactive session 30 min

Assessment and needs analysis
• Assess the current state of citizen science at AU, including the landscape, potential stakeholders, and available resources
• Identify the unique needs, challenges, and opportunities for advancing citizen science within the AU context

Role definition and structure
• Clarify the role and responsibilities of the AU-SPOC, outlining key functions and duties

Training and Integration
• Discuss strategies for seamlessly integrating the AU-SPOC into the existing structures and communication channels within AU
• Additionally, explore any specific ethical and legal requirements that must be carefully considered and adhered to in the context of the AU-SPOC's responsibilities
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TIME4CS Next workshop

Monday, 27 November 2023

Citizen Science Policy & Assessment

Read more and register for workshop
Thank you for your attention!

Kristian H. Nielsen & Gitte Kragh
Aarhus University
khn@css.au.dk
gitte.kragh@css.au.dk
Voices of food insecurity: Exploring barriers and strategies to healthy food access

By Chris Schaefbauer, Nina Holtz, Hana Dansky, Ingrid Castro-Campos, Lindsey Loberg, and Joel Marquez

Backed by John Jasper Speicher, Ann Mattson, Becky Boone, Angela Li, Tyler Manser, Emerson Farrugia, Lee Scriggins, Alex Halbleib, David Haddad, Simona Carini, and 12 other backers

$1,421
Raised of $1,370 Goal
103%
Funded on 4/28/16
Successfully Funded

What is the context of this research?

Food insecurity is "a household-level economic and social condition of limited or uncertain access to adequate food". By this definition, 17.4 million households in America (or 14% of people) were food insecure in 2014. Food insecurity is associated with obesity, chronic illness, and contributes to continued cycles of poverty.

There has been a call for research that actively engages people facing these issues to improve food access. One way to engage people in this process is through community-based and participatory research (CBPR). These approaches improve "the quality and validity of research by engaging local knowledge and local theory based on the lived experience of the people involved" and aid in translating research into action.

What is the significance of this project?

Research exploring the diverse, lived experiences of people affected by food insecurity is essential in developing new approaches to improve food access at a community-level. In working together with people affected by food insecurity, we aim to co-create a greater understanding of the challenges people face in getting and preparing food. This will, in turn, spark new ideas for how communities can improve food access.

This project is also significant in that we are using a novel community-based research approach, which we anticipate can be used in other communities. Therefore, an important part of this project will be documenting our research process and the challenges we face. We will share our experiences and protocols, so that others can conduct similar research in their communities.

What are the goals of the project?

We aim to explore the diversity of experiences associated with food insecurity and identify food access barriers through three activities: qualitative inquiry into the lived experiences of food insecurity, participatory data analysis, and design research.

First, we'll conduct multimedia interviews with 25 people affected by food insecurity. Each person uses a camera phone, which we provide, to record their experiences getting food for 2 weeks. Afterward, we'll discuss their recordings and barriers and facilitators to food access.

Next, we'll host workshops to analyze de-identified interview data to identify common themes.

Lastly, we'll host community design workshops to co-create ideas to improve food access.

In all these activities, we'll work together with people affected by food insecurity.
Most funded projects lately have been US$5000-10000
Let’s start with the Accelerator Programme.

It has two grants:

- **Kickstarting grants**: If you start a project, successful applicants will receive €20,000, mentoring and training support to help start your initiative for a period of six months.
- **Sustaining grants**: If you are an ongoing project, successful applicants will receive €10,000, mentoring and training support for a period of six months.

The challenges or topics of this first call are “Healthy planet” and “Cities for life”. This means that your project should address and relate to one of these topics.

Who can apply? Individuals, legal entities, and consortia established in a country or territory eligible to receive Horizon Europe grants are eligible to apply. Please note that the geographic eligibility focuses on the European Research Area (ERA), namely the EU Member States, all overseas countries and territories linked to EU Member States and all third countries having concluded or currently negotiating an association status with Horizon Europe.

The funding can be spent on salaries, equipment, consumables, travel, and subcontracting in accordance with Horizon Europe guidelines.

This is a great chance if you are:

- thinking of starting a new citizen science project;
- an ongoing citizen science project looking for support, financial and otherwise, to grow and become sustainable;
- a researcher or a research team seeking to resource a new citizen science project;
- a community interested in co-designing research on the topics related to our challenges: Healthy Planet and Cities for Life;
- an organisation in public, private and third sectors exploring the use of citizen science in their work.

https://impetus4cs.eu
The aim of AU FF NOVA is to stimulate courageous and innovative research projects of high quality—projects, which may have difficulties obtaining alternative funding. The project must be pioneering in its field and show clear potential for scientific breakthroughs. The hypothesis or problem behind the project may require development of new methods and it may challenge existing paradigms.

As the foundation wishes the funds from the foundation to benefit as many different researchers as possible, a 1-year waiting period for applicants applies. This means that if the application was rejected in 2022, the applicant cannot apply this year. Also if the application is rejected this year the applicant is not eligible to apply next year. Furthermore, grant holders cannot apply during the period in which they already hold a NOVA grant from the foundation.

In the evaluation of applications, the scientific potential and originality of the project will be weighted higher than the applicant’s CV.

In 2023, the frame for AU FF NOVA is DKK 40,000,000 in total.

In 2023 AU FF NOVA includes two types of grants with a slight adjustment of the budget available for each project type compared to previous calls. Priority is given to small projects.

1. **Small projects** (up to DKK 600,000), duration 1-2 years
2. **Large projects** (up to DKK 2,500,000), duration 3-4 years

**Application deadline is Friday 15 September, 2023 at 12.00 noon**

AU FF NOVA is available for all researchers with a permanent position at AU. Tenure track assistant professors are considered permanent staff in this regard. Research leaders in fixed, part-time employment at AU, with concurrent clinical employment at AUH, can also apply. Buy-out/frikæb is not granted in this scheme. See more in the application guide for AU FF NOVA.

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**Synopsis**

The synopsis should include a short description of the project, research questions and hypotheses in relation to current beliefs and contain information on sources, data and methods. Moreover, the project’s scientific importance and broader impact must be included. (Maximum of 4800 characters; 2 pages, 1.5 line spacing). One extra page with publication references to the synopsis may be added if needed.

**Project plan**

The project plan should give an overview of the project’s timeline and work plan. Milestones and deliveries should include at least one large national or international research grant application. Moreover, the plan should include the project’s future development in terms of content, financing and the planned contribution to talent development. (Maximum of 2400 characters; 1 page, 1.5 line spacing)

**Presentation of the research group**

Description of the research group and the competences relevant to the project (Maximum of 2400 characters; 1 page, 1.5 line spacing)

**Recommendation letter**

Academic recommendation by head of department or similar must be enclosed (applicant cannot draw up the academic recommendation him- or herself).

**Budget**

Specified budget (principal items) for the amount applied from AU FF (maximum 1 page). Project duration is 1-2 years for small projects or 3-4 years for the big projects. Small projects with a maximum of DKK 600,000 in total and large projects up to DKK 2,500,000, in total. It is possible to apply for costs related to project implementation, including salary for staff (typically PhDs or postdoctoral fellows). Please note, that if the budget contains costs related to wages, these must be based on Danish collective agreements and include pension, ATP and holiday payment.

It is possible to apply for apparatus and instruments or necessary remodeling of laboratories if needed for the project. Attach quotes for the specified to the budget file.

It is not possible to apply for salary to the PI/applicant, since Buy-out/frikæb is not granted in this scheme.

Overhead is not granted in this scheme.