

## Proposal for workshops – AGILE 2024

Glasgow, Tuesday 4 June 2024

<https://agile-online.org/conference-2024>

### 1. Workshop name/title (and acronym is applicable)

**Mapping with communities: contemporary approaches and challenges**

### 2. Description of the workshop by listing topic(s), objective(s) and planned outcome(s)

#### 2.1 Topic(s)

Participatory Mapping, Citizen Science, Participatory Modelling, Community Engagement

#### 2.2 Objective(s)

- i) To offer a space for dialogue about challenges and opportunities to “map with communities”
- ii) To share current methodologies, technologies, and strategies to engage communities with mapping, geospatial data production and analysis.
- iii) To foster further collaboration between researchers working with members of unrepresented communities to generate and analyse geospatial data.

#### 2.3 Planned outcome(s)

*An outcome can be e.g., the publication of a report, a special issue of an International Journal, a white paper, a book, etc. If you already know the publisher, please provide this information as well. The workshop can also be a hands-on tutorial in which the participants are taught a new method or software relevant to one of the conference topics.*

- i) Engagement with the academic community of researchers in community mapping and citizen science*
- ii) A co-created research agenda about community mapping.*
- iii) A joint paper outlining key findings and synergies. The group will select a group of authors to draft a joint paper to make visible and more impactful the results of mapping with communities.*
- iv) Participants in this workshop will learn how to implement a participatory mapping strategy using the Sketch Map tool*
- v) Participants will interact with other tools for participatory mapping such as the IDEAMAPS Data Ecosystem and Dados à Prova d'água*

### 3. Abstract

*This is how you want your workshop to be presented on the conference webpages (maximum 1000 characters)*

The results of engaging traditionally excluded groups with mapping and geospatial data production benefit communities worldwide (Porto de Albuquerque J., et al, 2023). The organising committee wants to build upon the successful workshop “Mapping with Communities” in 2023 and continue a series of academic spaces for discussion. Our workshop would offer a space for dialogue on the challenges and approaches to “map with communities”, methodologies, technologies, strategies, and ethical concerns faced by communities when mapping, co-producing and analysing geospatial data. Additionally, the workshop seeks to facilitate collaboration and integration between participants and ongoing projects.

The organisers encourage participants to submit their contributions describing key aspects of their projects such as engagement, data production, validation, modelling, and underpinning technologies among the multiple interfaces with geoinformation sciences. Our workshop will allow to exchange experiences from projects such as the IDEAMAPS Network, Waterproofing Data and Sketch Map Tool.

We will present Sketch Map Tool as an example of a current participatory mapping method and use it as a case study to facilitate discussions on current approaches and methods for participatory mapping including opportunities, challenges, user requirements, and shortcomings. Sketch Map Tool is a low-tech solution that simplifies participatory mapping by facilitating the creation and digitalisation of paper-based maps.

### 4. Short description of the intended length (half or full day) and the format of the workshop

The workshop is open to accepting contributions in the form of extended abstracts or position papers, briefings or extended abstracts that lead to collaboration in building maps with communities. The proposed agenda is planned for half day and proposes the following agenda:

10 min	Welcome introduction
20 min	IDEAMAPS Data Ecosystems. The role of communities in mapping deprived areas through an active role that includes validation of AI models and generation of hyper-local training data.
30 min	Sketch Map tool. What are the alternatives that this tool provides and how can communities effectively harness its potential while navigating the challenges of participatory local mapping?
20min	Active Mapping break
40 min	Speed talking: Experiences with participatory mapping, citizen science and participatory analytics/modelling. Participants will quickly present their experiences engaging communities with mapping.
40 min	Co-creation of a research agenda with assistants. Participants will outline a shared document with key findings and synergies. The group will select a group of authors to draft a joint paper to make visible and more impactful the results of mapping with communities.
20 min	Conclusions and closing remarks

## 5. Brief statement of the relevance of the workshop for AGILE

Current societal challenges demand differential approaches to analyse and support decision-making based on the different geographies (Scott and Rajabifard, 2017). Most of those approaches rely on mapping and geoinformatics to analyse and understand the spatial dimension of such problematics. Current developments in geoinformation sciences discussed at AGILE 2024 are key to design and make a sustainable future real. Although those cutting-edge technologies (e.g., high-res satellite imagery, hyper-res UAV imagery, artificial intelligence, among others) are designed for highly trained professionals, citizen-driven initiatives have overcome most of the access barriers to mapping (e.g., citizen science, crowdsourced data production, web and mobile mapping interfaces, etc.).

## 6. What is the approximate number of expected participants?

20 to 25

## 7. Names and e-mail addresses of the organizing member(s)

*Leading AGILE member (or sponsor) and contact person:*

Diego Pajarito Grajales – University of Glasgow – [Diego.PajaritoGrajales@glasgow.ac.uk](mailto:Diego.PajaritoGrajales@glasgow.ac.uk)

Anne Schauss – Heigit – [anne.schauss@heigit.org](mailto:anne.schauss@heigit.org)

*Contributing AGILE members (including the persons involved) – at least one seconding AGILE member is needed:*

Sven Lautenbach – Heigit – [sven.lautenbach@heigit.org](mailto:sven.lautenbach@heigit.org)

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*Contributing non-AGILE members (including the persons involved) – if applicable:*

Wenlan Zhang – UCL CASA - [wenlan.zhang.21@ucl.ac.uk](mailto:wenlan.zhang.21@ucl.ac.uk)

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*Organizing Committee (if applicable):*

Jeannette Zambrano N. – Universidad Nacional de Colombia [jdzambranona@unal.edu.co](mailto:jdzambranona@unal.edu.co)

Erika Upegui – Universidad Distrital – [esupeguic@udistrital.edu.co](mailto:esupeguic@udistrital.edu.co)

Linda Garcia – The Amazon Conservation Team - [grupotopografos@actcolumbia.org](mailto:grupotopografos@actcolumbia.org)

*Programme Committee (if applicable):*

Caroline Kabarria – APHRC Kenya - [Ckabarria@aphrc.org](mailto:Ckabarria@aphrc.org)

Dana Thompson – CIESIN Columbia U. - [d.r.thomson@ciesin.columbia.edu](mailto:d.r.thomson@ciesin.columbia.edu)

## 8. Additional information about previous workshops, if held.

We hold a workshop with the same title at the GIScience 2023 Conference in Leeds. We got about 18 participants from Europe, Africa and South America. The conference proceedings are still under review.

Our proposal plans to build upon the results obtained and strengthen the existing network. Additionally, we want to foster collaboration with other AGILE members and partners in Africa and Latin America.

## 9. Expected resources needed

*Explain here if you have any special needs (e.g. internet connection, break-out room(s), etc.), what are the expected resources needed. Please take into account that the fixed fee for the workshop (1 day) only covers the basic expenses made (coffee breaks, ...). If you need additional support, this request should be directed towards the AGILE Council, but this support cannot be guaranteed.*

*The workshop only requires a room, a screen, an internet connection and, depending on the size, a sound system. The materials for note-taking and participants interaction will be provided by the organisers*

## 10. Other information

Submission by e-mail to:

Dr Qunshan Zhao: [Qunshan.Zhao@glasgow.ac.uk](mailto:Qunshan.Zhao@glasgow.ac.uk)

Or Dr John Xiaogang Shi: [John.Shi@glasgow.ac.uk](mailto:John.Shi@glasgow.ac.uk)