

Session 11

CITIZEN SCIENCE SDG CONFERENCE 14.–15.10.2020

Knowledge for Change: A decade
of Citizen Science (2020–2030)
in support of the Sustainable
Development Goals

Contribution of Citizen Science Data to Monitoring the SDGs

Chair: Dilek Fraisl
Email: fraisl@iiasa.ac.at
Twitter: [@dilekfraisl1](https://twitter.com/dilekfraisl1)

 International Institute for
Applied Systems Analysis
IIASA www.iiasa.ac.at

We  bserve

 **Firm Natur**
MUSEUM FÜR
NATURKUNDE
BERLIN

Contribution of Citizen Science Data to Monitoring the SDGs

Moderator:

Dilek Fraisl International Institute for Applied Systems Analysis (IIASA), Research Scholar (fraisl@iiasa.ac.at)

Speakers:

Steffen Fritz International Institute for Applied Systems Analysis (IIASA), Head of the Center for Earth Observation and Citizen Science (fritz@iiasa.ac.at)

Jillian Campbell UN Convention on Biological Diversity, Head of Monitoring, Review and Reporting (campbell7@un.org)

Camden Howitt Sustainable Coastlines, Co-Founder and Coastlines Lead (camden@sustainablecoastlines.org)

Anne Bowser Woodrow Wilson International Center for Scholars, Director of Innovation (Anne.Bowser@wilsoncenter.org)

Omar Seidu Ghana Statistical Service, Head of Demographic Statistics & SDGs Coordinator (omar.seidu@statsghana.gov.gh)



Citizen science to complement official statistics and mobilize action

Steffen Fritz

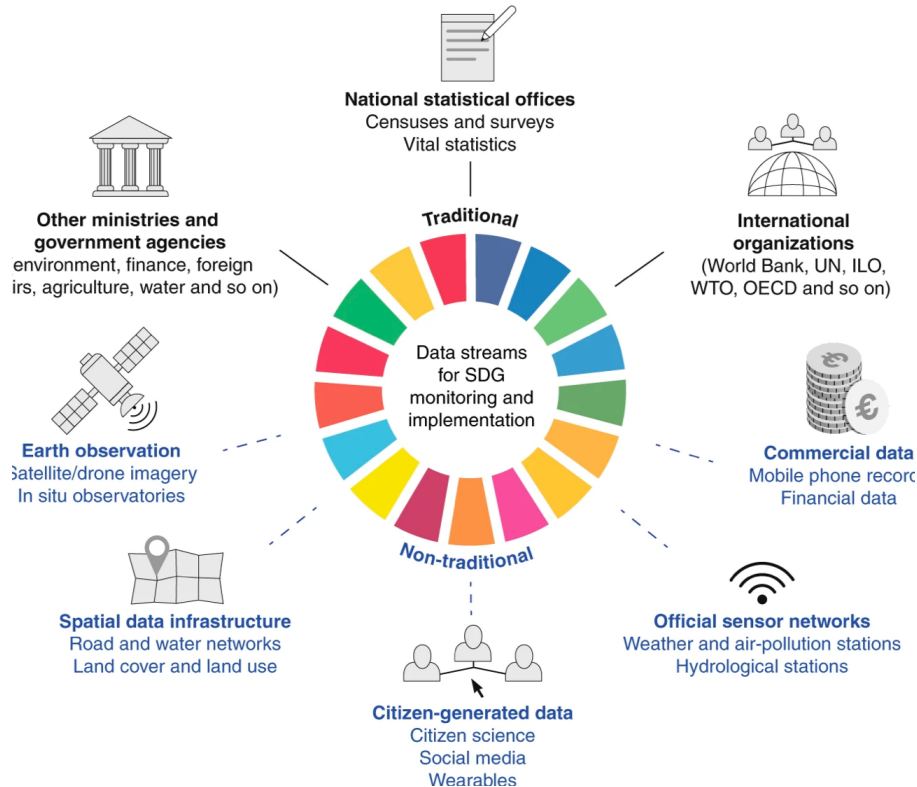
International Institute for Applied Systems Analysis (IIASA)

Head of the Center for Earth Observation and Citizen Science

fritz@iiasa.ac.at

www.iiasa.ac.at

Citizen science to complement official statistics & mobilize action

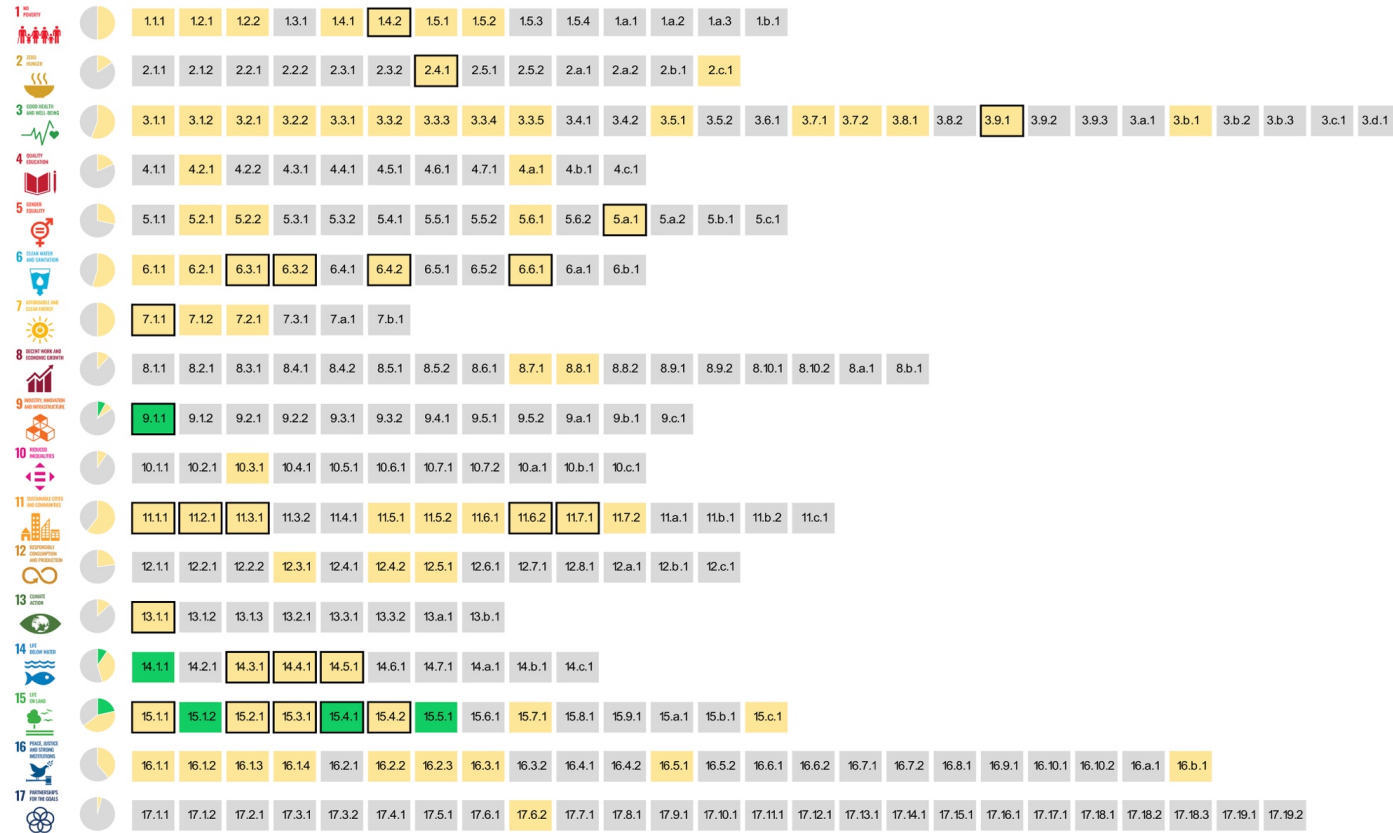


Citizen science to complement official statistics & mobilize action

Steffen Fritz, International Institute for Applied Systems Analysis (IIASA)

Fritz S, See L, Carlson T, Haklay M, Oliver JL, Fraisl D, Mondardini R, Brocklehurst M, et al. (2019). Citizen science and the United Nations Sustainable Development Goals. *Nature Sustainability* 2: 922-930. DOI:[10.1038/s41893-019-0390-3](https://doi.org/10.1038/s41893-019-0390-3).

The SDG indicators where citizen science *projects* are 'already contributing', 'could contribute' or where there is 'no alignment'



Citizen science to complement official statistics & mobilize action

Steffen Fritz, International Institute for Applied Systems Analysis (IIASA)

Fraisl D, Campbell J, See L, Wehn U, Wardlaw J, Gold M, Moorthy I, Arias R, et al. (2020). [Mapping citizen science contributions to the UN sustainable development goals](https://doi.org/10.1007/s11625-020-00833-7). *Sustainability Science* DOI:10.1007/s11625-020-00833-7.

Citizen science for official monitoring

Jillian Campbell

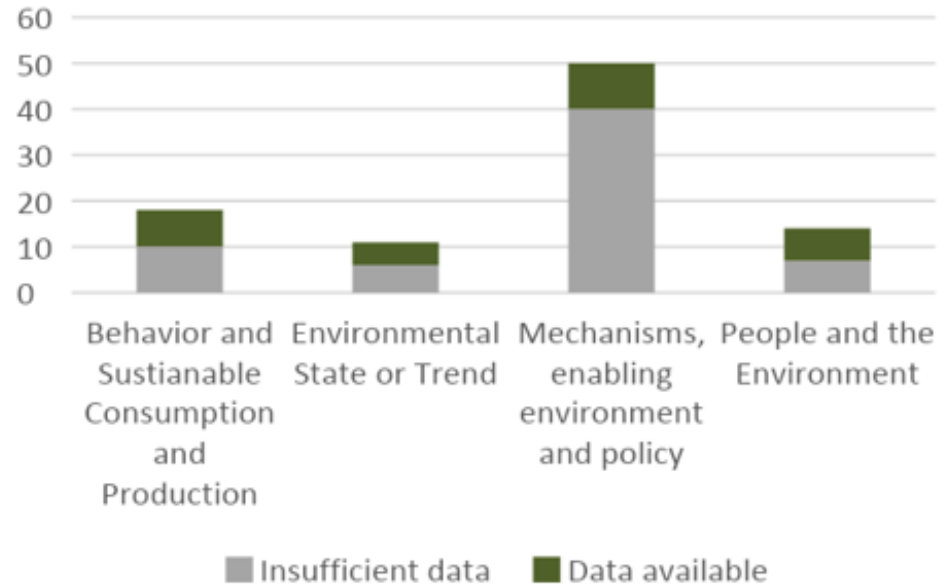
UN Convention on Biological Diversity

Head of Monitoring, Review and Reporting

campbell7@un.org

SDG data gaps

- ›93 environment-related SDG indicators.
- ›Most relate to mechanisms and policy instruments.
- ›68% do not have enough data to assess global progress.
- ›There is a need to not only fill SDG data gaps but improve monitoring of environmental state, trends and impacts.



Citizen science for science and for official statistics

- › How do we merge citizen science data collection with Government data collection?
- › How do we build monitoring systems that allow us to measure what matters at all levels?
- › How do we best connect with Governments, companies and people to change their behaviors and hold people accountable?



Litter Intelligence: Citizen Scientists delivering on SDG 14.1.1.

Camden Howitt

Sustainable Coastlines

Co-Founder and Coastlines Lead

camden@sustainablecoastlines.org

litterintelligence.org

COLLABORATORS



Camden Howitt
camden@sustainablecoastlines.org
litterintelligence.org

PROGRAMME ELEMENTS



Data.



Insights.



Action.

LITTER MONITORING PROGRAMMES



Beach.



Freshwater.



Stormwater.



Litter Intelligence.

SUCCESS STORIES



Camden Howitt
 camden@sustainablecoastlines.org
 litterintelligence.org



Organizing to Support Citizen Science for the SDGs

Anne Bowser

Woodrow Wilson International Center for Scholars

Director of Innovation

Anne.Bowser@wilsoncenter.org

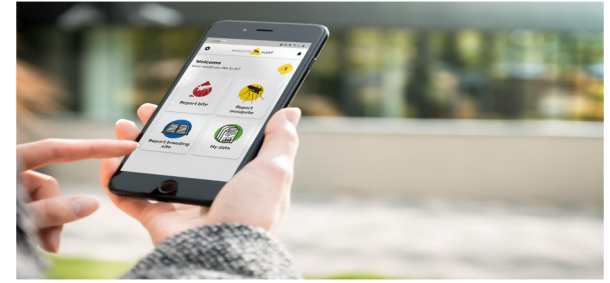
Organizing **Projects (+)**: Global Mosquito Alert



Protocol 1



Protocol 2



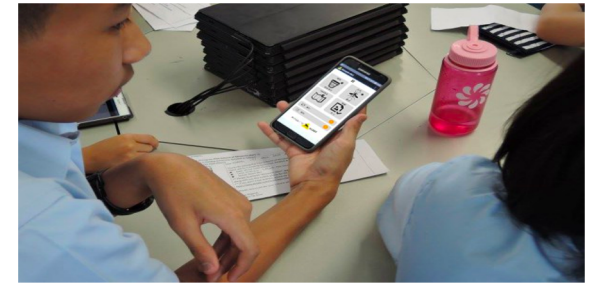
Mosquito Alert V1 (Barcelona)



Protocol 3



Protocol 4



Mosquito Alert V2 (Hong Kong)

Organizing Data (+): Earth Challenge 2020

Marine Debris Top 10

Algeria

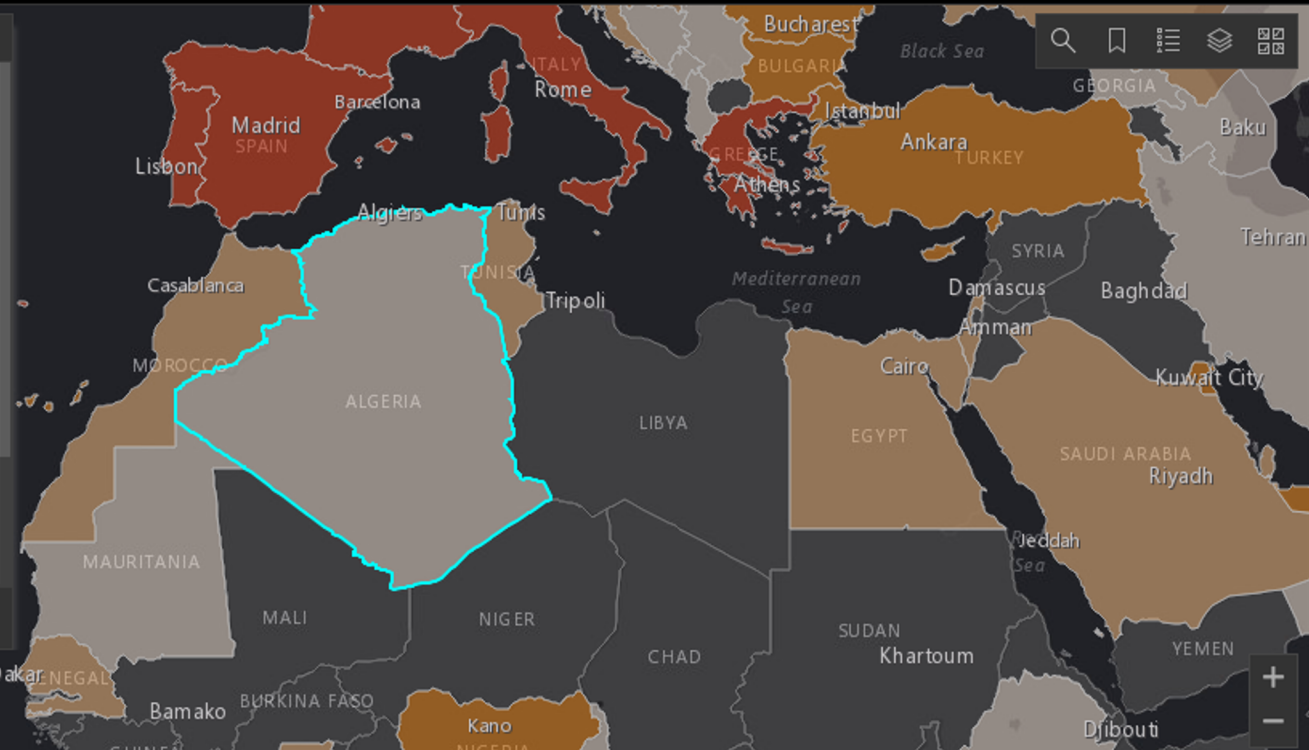
Showing 1

Top 10 Types of Plastics Pollution in Algeria

3 Events & 10 Volunteers 2015-2018

6,711 Items of Plastic Debris Recovered

- | | | |
|---|---------------------------------------|--------|
| 1 | Plastic Beverage Bottle | 58.10% |
| 2 | Plastic Bag | 15.80% |
| 3 | Plastic Bottle Cap Or Lid | 7.50% |
| 4 | Plastic/Foam Food Container | 3.70% |
| 5 | Other Hard Plastic | 3.20% |
| 6 | Plastic/Foam Plates, Cups, Silverware | 2.90% |
| 7 | Lollipop Stick or EarBud | 2.60% |



Organizing to Support Citizen Science for the SDGs

Anne Bowser | Woodrow Wilson International Center for Scholars

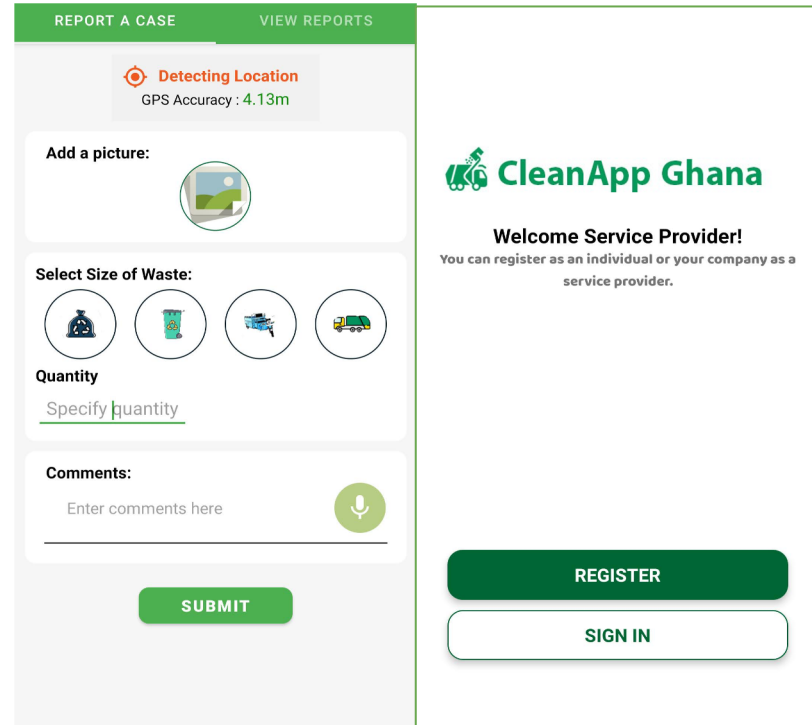
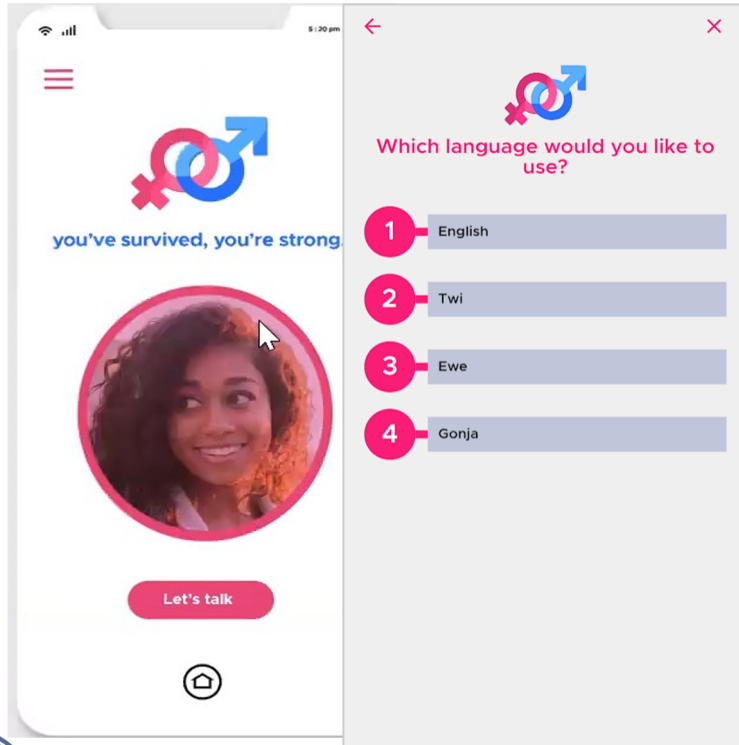
Citizen Science to strengthen the National Statistical System

Omar Seidu

Ghana Statistical Service

Head of Demographic Statistics & SDGs Coordinator

omar.seidu@statsghana.gov.gh





Piloting established Citizen Science methodologies for

- > **14.1.1b** - Plastic debris density
- > **15.4.2** - Mountain Green Cover Index
- > **6.6.1** - Change in the extent of water-related ecosystems over time

Steps: Establishing need; identifying tools; convening a local data ecosystem and training in methodology



International Institute for
Applied Systems Analysis

Contribution of Citizen Science Data to Monitoring the SDGs

Moderator:

Dilek Fraisl International Institute for Applied Systems Analysis (IIASA), Research Scholar (fraisl@iiasa.ac.at)

Speakers:

Steffen Fritz International Institute for Applied Systems Analysis (IIASA), Head of the Center for Earth Observation and Citizen Science (fritz@iiasa.ac.at)

Jillian Campbell UN Convention on Biological Diversity, Head of Monitoring, Review and Reporting (campbell7@un.org)

Camden Howitt Sustainable Coastlines, Co-Founder and Coastlines Lead (camden@sustainablecoastlines.org)

Anne Bowser Woodrow Wilson International Center for Scholars, Director of Innovation (Anne.Bowser@wilsoncenter.org)

Omar Seidu Ghana Statistical Service, Head of Demographic Statistics & SDGs Coordinator (omar.seidu@statsghana.gov.gh)

<https://www.weobserve.eu/weobserve-cop4-sdgs/>



Subscribe to the Newsletter Get in touch



HOME ABOUT ▾ NEWSROOM ▾ EVENTS CONFERENCE COMMUNITIES ▾ KNOWLEDGE BASE ▾ MARKETPLACE

SDG CoP: UN Sustainable Development Goals and Citizen Observatories

Home » SDG CoP: UN Sustainable Development Goals and Citizen Observatories

The WeObserve SDGs and Citizen Science Community of Practice (SDGs CoP) is an open platform for citizen science/citizen observatories and the SDGs.

Our aim is to connect citizen science practitioners, National Science Centres (NSCs), National Science Offices (NSOs) and government officials; UN and other international organizations; academia; and the broader data and stats communities to share and exchange knowledge, ideas and resources on how to demonstrate the value of citizen science data and impact for SDG achievement.

SDGs are a roadmap to achieve a healthy, prosperous and fair future for all. Achieving the SDGs requires informed decisions that are based on accurate, timely and comprehensive data. Even though data availability has improved over the last decade, there are still major gaps in information and knowledge for guiding policy formulation and implementation. New innovative approaches to data collection, such as citizen science/citizen observatories, which is very broadly defined as public participation in scientific research, can contribute to SDG monitoring. In addition, citizen science could also help mobilize citizen action and

REGISTER HERE

for the WeObserve
Communities of Practice

Recources

- Glossary
- Inception report
- Citizen science and the United Nations Sustainable Development Goals, Nature Sustainability

Session 11

CITIZEN SCIENCE SDG CONFERENCE 14.–15.10.2020

Knowledge for Change: A decade
of Citizen Science (2020–2030)
in support of the Sustainable
Development Goals

Contribution of Citizen Science Data to Monitoring the SDGs

Dilek Fraisl

Email: fraisl@iiasa.ac.at

Twitter: [@dilekfraisl1](https://twitter.com/dilekfraisl1)



International Institute for
Applied Systems Analysis

IIASA www.iiasa.ac.at

