

Citizen Science and the SDGs: Examples, Opportunities and Challenges

Linda See

Novel Data Ecosystems for Sustainability (NoDES) Research Group

Advancing Systems Analysis (ASA) Program

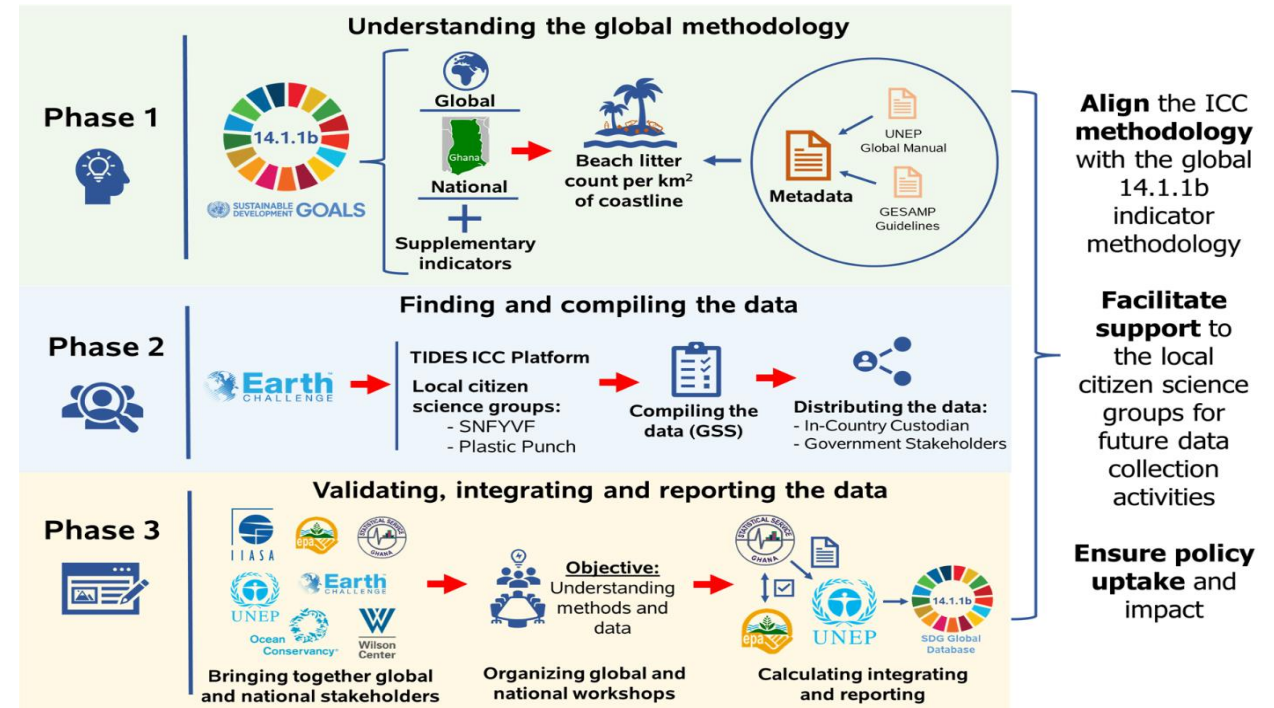
Systematic Review of Citizen Science and SDG Indicators

- Green = where citizen science is already contributing
- Yellow = where citizen science has the potential to contribute
- Black boxes indicate both citizen science and EO can contribute together
- Citizen science already contributing to 5 indicators with the potential to contribute to 76 more
- Potential in both environmental and social indicators



Reporting on Indicator 14.1.1b with Citizen Science

- Citizen science data (monitoring beach litter) have been integrated into the official SDG monitoring and reporting mechanisms of Ghana
= first country to do so
- Legal framework was in place
- Inputs to Ghana's Ocean Plan and other relevant policies
- Bridging local data collection efforts with global monitoring processes by leveraging the SDG framework



Also of Relevance for Social Indicators

- SDG 3 (Health and Wellbeing) and SDG6 (Clean Water and Sanitation) were identified in the systematic review as having a high potential to benefit from citizen science
- Undertook a review of health-related indicators (SDGs and WHO's Triple Billion Targets)
- Found that citizen science can contribute to at least 42 indicators (out of 58 health-related ones): 9 in a direct way and the rest in a supplementary way
- Ongoing project looking into citizen science for indicator 16.6.2 (UNDPOGC):
 - Satisfaction with healthcare, education and government services
 - Access, affordability, quality of facilities, equal treatment for everyone, overall satisfaction
 - Courtesy and treatment (healthcare), effective delivery (education), timeliness (government services)
 - Talking to NSOs, designing a citizen science strategy, identifying challenges

Citizen Science for SDG Monitoring

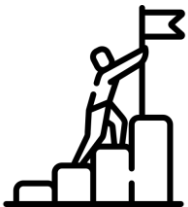
Opportunities

- More frequent data collection
- Higher spatial resolution/remote places
- Filling gaps in cases where no data exist
- Local knowledge/thematic richness
- Raising awareness of global and local issues related to sustainable development
- Transformative behaviors



Challenges

- Data quality and trust in the data
- Alignment with official protocols and data requirements, and legal environment
- Representativeness of the data/other biases
- Digital divide
- Inclusivity
- Engagement (recruitment, sustained participation, aligning motivations with purpose)



Thank you for your time

Any questions?

Linda See
NoDES Research Group, ASA Program
see@iiasa.ac.at