Contributions and Challenges for Peace and Development for Participatory Research, Citizen Sciences and Fab Labs

Pia Viviani
deputy director citizen science, Foundation Science et Cité
Representative of Tous Scientifiques
Speaker as representative of ECSA for OSI 2016 in Geneva

Heiner Benking
Independent Journalist and Facilitator, ECSA Advisory Board Member
ECSA Technology and Policy Board Member
Delegate of OSI as member to ECSA
in the founding boards of Open-Forum, Youth-Leader, Positive-Nett-Works, CGI, …
Advisory Board of ECOSOC - IHTEC – and member of the UN-ECOSOC Global Commons Alliance
1. Promoting Sustainability through CS
   Implementing EU-wide CS programs
   Linking CS to politics

2. Building a Think Tank for Citizen Science
   Sharing knowledge & skills
   Providing expertise & fostering excellence
   Linking to international CS community

3. Developing Participatory Methods for Cooperation, Empowerment and Impact
   Carrying out synthesis & research on CS

http://ecsa.citizen-science.net

1. Increase the recognition of CS in Switzerland
   • Website with overview over Swiss CS projects
   • Second International ECSA Conference 2018 in Geneva
   • Lobbying for CS

2. Promote exchange between Swiss CS providers, new initiatives and interested parties
   • Swiss contact point for CS
   • CS Network Switzerland

3. CS Monitoring

http://www.schweiz-forscht.ch
http://www.tous-scientifiques.ch
MassAction
Commons Cluster for the United Nations

Commons eJournal | November 2015

Viewing Trees and Woods: Connecting Dots, Links, Sectors, and Frames
Heiner Benking and Rob Wheeler
Published October 2015 Edition of the Mother Pelican ~ A Journal of Solidarity and Sustainability

This article is about ways to outline and represent the SDG goals and ways to communicate and achieve them. Links to more information: 2000-2015 MDGs, 2015-2030 SDGs, FOCUS AREAS

Commons at Work - Harmony with Nature
During July’s HLPF meetings at UN Headquarters NYC, the team met with key representatives of the Harmony with Nature team. The Common Cluster was asked to contribute ideas for 2016 Harmony with Nature document. The team is focused on crafting that language. The final verbiage will be posted on the Harmony with Nature page as soon as it becomes available.
Contributions and Challenges for Peace and Development for Participatory Research: Citizen Science and Policy Labs

EUROPEAN CITIZEN SCIENCE ASSOCIATION

Our Mission
Connecting citizens and science through fostering active participation

Our Visitors
In 2020, citizens in Europe were valued and empowered as key players in advancing knowledge and innovation and thus supporting a sustainable development of our world.

ECSA Strategy
- Promoting Sustainability through CS
  - Implementing EU-funded CS programs
  - Linking CS to politics
- Building a Think Tank for Citizen Science
  - Sharing knowledge and skills
  - Providing expertise and focusing excellence
  - Linking to international CS community
- Developing Participatory Methods for Cooperation, Empowerment, and Impact
  - Carrying out synthesis & research CS

ECSA Working Groups
- Best Practice & Capacity Building
- Policy, Strategy, Governance & Partnerships
- Communication & Events
- Projects, Data, Tools & Technology
- CS & Responsible Research and Innovation
- Education & Learning in CS
- Citizen Science Standards

Ten Principles of Citizen Science
23 languages in September 2016

ECSA Policy Work
- Open Science
- Environmental Policy

Internet of People: topics to address
- Interoperability
- Privacy/Security
- Data reliability & usability, e.g., in governmental contexts
- Intellectual property rights

Partnerships
- Memoranda of Understanding
- EUBON
- Australian Science Communication
- Common Sense
- Citizen Science
- Open Science

Acknowledgments
- EUBON
- Australian Science Communication
Our Mission:
Connecting citizens and science through fostering active participation

Our Vision:
In 2020, citizens in Europe are valued and empowered as key actors in advancing knowledge and innovation and thus supporting a sustainable development of our world.
~200 Members
27 Countries
ECSA Strategy

• Promoting Sustainability through CS
  – Implementing EU-wide CS programs
  – Linking CS to politics

• Building a Think Tank for Citizen Science
  – Sharing knowledge & skills
  – Providing expertise & fostering excellence
  – Linking to international CS community

• Developing Participatory Methods for Cooperation, Empowerment and Impact
  – Carrying out synthesis & research on CS
ECSA Working Groups

Best Practice & Capacity Building

Policy, Strategy, Governance & Partnerships

Fundraising & Marketing

Communication & Events

Projects, Data, Tools & Technology

Education & Learning in CS

CS & Responsible Research and Innovation

Coming soon: BioBlitzers
Ten Principles of Citizen Science

23 languages in September 2016
Ten Principles of Citizen Science

- Citizen science is a **flexible concept** which can be adapted and applied within diverse situations and disciplines.

- These statements set out some of the **key principles** which as a community we believe underlie **good practice** in citizen science.

- Developed by the ECSA working group ‘Sharing best practice and building capacity in citizen science’ with input from many ECSA members.

---

**Ten principles of citizen science**

Citizen science is a flexible concept which can be adapted and applied within diverse situations and disciplines. The statements below were developed by the ‘Sharing best practice and building capacity’ working group of the European Citizen Science Association, led by the Natural History Museum London with input from many members of the Association, to set out some of the key principles which as a community we believe underlie good practice in citizen science.

1. **Citizen science projects actively involve citizens in scientific endeavour that generates new knowledge or understanding.**
   - Citizens may act as contributors, collaborators, or as project leader and have a meaningful role in the project.

2. **Citizen science projects have a genuine science outcome.**
   - For example, answering a research question or informing conservation action, management decisions or environmental policy.

3. **Both the professional scientists and the citizen scientists benefit from taking part.**
   - Benefits may include the publication of research outputs, learning opportunities, personal enjoyment, social benefits, satisfaction through contributing to scientific evidence e.g. to address local, national and international issues, and through that, the potential to influence policy.

4. **Citizen scientists may, if they wish, participate in multiple stages of the scientific process.**
   - This may include developing the research question, designing the method, gathering and analysing data, and communicating the results.

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.

6. **Citizen science is considered a research approach like any other, with limitations and biases that should be considered and controlled for.**
   - However, unlike traditional research approaches, citizen science provides opportunities for greater public engagement and democratization of science.

7. **Citizen science project 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.

8. **Citizen scientists are acknowledged in project reports and publications.**

9. **Citizen science programmes are evaluated for their scientific input, data quality, participant experience and wider societal or policy impact.**

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.**
ECSA Policy Work

Open Science

RRI

Environmental Policy

Federal Community of Practice for Crowdsourcing and Citizen Science

EUROPEAN CITIZEN SCIENCE ASSOCIATION

Endorsing the White Paper on Citizen Science for Europe

ECSA Policy Work

13

science site
Internet of People: topics to address

• Interoperability

• Privacy/Security

• Data reliability & usability, e.g. in governmental contexts

• Intellectual property rights
Partnerships

• Memoranda of Understanding

EU BON

RRI Tools

EUPRIO

Australian
Citizen Science
Association

CITIZEN
SCIENCE
ASSOCIATION

China Citizen Science

Commons Lab
#TOGETHERSCIENCE
AN EU CITIZEN SCIENCE PROJECT
togetherscience.eu