



## Citizen Science to promote creativity, scientific literacy, and innovation throughout Europe (CA15212)

### Tartu, October 17 2017 Minutes of the SC- and MC-meeting

<b>Steering committee meeting (SC-meeting)</b> .....	<b>2</b>
<b>Management committee meeting (MC-meeting)</b> .....	<b>3</b>
1) Greetings from director of University of Tartu Natural History Museum, Professor Urmas Kõljalg .....	3
2) Welcome from the Chairs (Katrin Vohland & Marisa Ponti) .....	3
3) Formalia .....	3
4) Updates with regard to outputs, budget etc. ....	3
5) Working Group reports .....	3
WG 1: Scientific Quality .....	3
WG2: Learning and education .....	4
WG 3: Society-science-policy-interface .....	4
WG 4: Civil Society .....	4
WG5: Improve data standardization and interoperability .....	5
WG 6: Overall and Synthesis .....	5
6) STSMs.....	5
7) Communication.....	6
8) Special issue “Journal of Science Communication” .....	6
9) Budget adaptation Grant Period 2 .....	6
10) Hackathon-intro .....	6
11) Planning third grant period .....	7
12. Any other business (AOB) .....	7
<b>Appendices: Tables and Working Group Reports</b> .....	<b>8</b>
Table 1: Attendees.....	8
Table 2: Current budget and suggested changes (18.11.2017).....	9
Table 3: Overall Planning .....	13
Table 4: First overall planning of Grant Period 3 (May 2018-April 2019) .....	14
Working Group Report   WG4 - Seminar on “Degrees of Participation, Outputs and Outcomes” .....	15
Working Group Report   WG 3 – Discussion on Action Lines .....	16
Working Group Report   WG5 meeting .....	19



## **Steering committee meeting (SC-meeting)**

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During the SC-meeting preceding the management committee meeting (MC-meeting) the role of the chairs and vice-chairs was discussed, as it seems they consider themselves to be responsible for all ongoing issues in their working group. However, chairs and vice-chairs should not do everything by themselves. Rather, they should motivate, coordinate and give feedback to the members of their working group.

The first workshops have been cheaper than planned; the resources should be reallocated based on MC decisions and the approval of the COST Officer; following the first considerations, an open call for activities is considered.

The idea is launched to organise in 2020 the final conference of this action in Trieste (Italy) which is at that moment the 'European City of Science'.



## Management committee meeting (MC-meeting)

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### 1) Greetings from director of University of Tartu Natural History Museum, Professor Urmas Kõljalg

### 2) Welcome from the Chairs (Katrin Vohland & Marisa Ponti)

### 3) Formalia

- The action currently comprises 35 countries. Last year also Cyprus, Montenegro and Luxembourg joined the action.
- The quorum (2/3) therefore lies at 26 countries. 21 countries were present (Table 1 for participants). Therefore, all decisions taken during this meeting will need to be officially approved by the MC-members via an on-line voting procedure (Loomio).
- The minutes of the last MC-meeting in Berlin (December 2016) were approved.
- Albania was added as a COST Near Neighbour Country, with the participation of Epok University (Diturije Ismaili) and the Ministry of Urban Development (Kalterina Shulla).
- Henry Sauermann is no longer observer but WG member.
- Cornell Lab of Ornithology (Jennifer Shirk) joined for the US as COST International Partner Country.
- As specific Organisation, the Joint Research Centre of the European Commission stepped into the action (Sven Schade).
- The first report was delivered to COST. We score on average better, compared to other COST Actions, on the participation of Inclusiveness Target Countries and Early Career Investigators. Regarding the gender balance, the majority of the participants are women.
- For Working Group (WG) 2 on education Laure Kloetzer is approved as new chair. She leads a similar WG in ECSA. WG3 is still looking for chair.

### 4) Updates with regard to outputs, budget etc.

- Grant Period 1 (GP1) Budget ended with an underspending of 5684.09 Euro.
- This Grant Period (GP2), additional resources of 17.500 Euro are provided within the framework of the new tool, Inclusive Target Countries Conference Grants (ITC CG) with a parallel adoption of the current budget (see Table 2 and 3 for the budget). The rules on how to spend the money are not always easy to reach in short term; so money can be re-allocated according to other activities. It is suggested to really announce the new tool, to enhance the number of STSMs, and to use the money for additional workshops in agreement with MC members and the COST Officer.

### 5) Working Group reports

#### WG 1: Scientific Quality

WG1 focussed on a multidisciplinary examination of data quality practices in Citizen Science:

- Berlin - Dec 2016 - WG1 have two meetings to discuss the general topics of Data Quality in citizen science. Many voices, many opinions, many directions.
- April 2017: Call for Contributions published for first WG1 workshop
- June 2017: Call for Contributions ends. WG1 participants chosen.
- Sept 2017: WG1 A 2-day workshop in Budapest Hungary with 14 Participants – ‘getting to work’.



As a first deliverable excellent progress was made on writing a systematic review on data quality in Citizen Science (CS). It will be developed as a 'white paper' type report and then refined to a peer-reviewed journal paper.

The second deliverable will be in the form of a policy brief leaflet or brochure.

## **WG2: Learning and education**

- Workshop in Lisbon in June with 14 participants (10 ♀, 6 early stage researchers, 3 from ICT countries)

The WG prepares a paper on 'CS meets education and learning: converting tensions into synergies' to be submitted in the journal 'Citizen Science: Theory and Practice' in November.

WG2 will publish a call for STSM which contributes to the second and third deliverable and therefore can be used as a preparation of the workshop in Leysin. The text for the call, the estimated length of the STSM and host institutions will be published soon.

In March 2018 a workshop will be organised in Leysin/Switzerland (16.-17.03.2018): Citizen Science for education: connecting CS to schools; workgroup with teachers and students. This workshop is connected to 4th annual student conference at the American School in Leysin and GLOBE day. We plan to contact to Scientix to get in contact to teachers involved in CS and to allocate additional funding for inviting teachers (<http://www.scientix.eu/>)

The third deliverable, a paper on training requirements, will be discussed in the course of the next workshop at the ECSA conference in Geneva. WG 2 plans to publish a call for an STSM contributing to deliverable 3 and to organize a workshop in September 2018.

## **WG 3: Society-science-policy-interface**

Several activities were ongoing, and during the afternoon session ideas for workshops were developed, but nobody of the working group was present to report on the past activities.

## **WG 4: Civil Society**

The WG works with 4 subgroups (stakeholder mapping; meta-analysis approach for identification of volunteers motivations; volunteers aims and needs from CS technologies; degrees of public participation in scientific research (PPSR), Outputs and Outcomes).

For the subgroup on Stakeholder Mapping of Co-creation CS Activities a workshop was organised collaboration with EU H2020 Doing It Together Science (DITOs) project in London in March 20-21 2017, and a paper will be submitted in 'Citizen Science: Theory and Practice'.

Subgroup on Meta-analysis approach for identification of volunteers' motivations: An STSM was organised on motivations for participation to citizen science program: a meta-analysis in Israel. The outcome is a systematic qualitative review to enable the creation of a database for volunteers' aims and needs with respect to their engagement in citizen science projects.

Subgroup on volunteers aims and needs from CS technologies: The subgroup aims at producing (i) a systematic literature review of volunteers' aims and needs from CS technologies (in the environmental



domain) with expected outcome guidelines to be published in a journal paper, (ii) a special issue with JCOM on "User Experience of Digital Technologies in Citizen Science".

Subgroup 4 on degrees of public participation in scientific research (PPSR), outputs and outcomes will collect data from literature articles about citizen science projects across disciplinary areas in the COST Member States by using a case survey method to examine the different degrees and quality of participation of volunteers and the relationships between participation, outputs and outcomes.

Planned activities (in 2018 before the end of the budget period):

- 3 STSMs
- a workshop on volunteers' motivations in 14-15 March 2018 in Vilnius, Lithuania.
- a workshop on the aims and needs of volunteers from CS technologies (20 April 2018, London, UK).

### **WG5: Improve data standardization and interoperability**

The objective of WG5 is to develop metadata-concepts vocabulary and an ontology to support data sharing among CS projects. WG5 will coordinate with activities on data and service interoperability carried out in Europe, the USA and Australia, and will take into account existing standards, namely Open Geospatial Consortium (OGC) standards, ISO/TC 211, W3C standards (semantic sensor network/Linked Data), and existing GEO/GEOSS semantic interoperability.

Deliverables:

- Deliverable 1: Downloadable version of the ontology code via Action website (Task 1)
- Deliverable 2: Standardization of the ontology as sensor web enablement profile for CS by OGC (Task 2)

Progress in December 2016 – October 2017:

- Refinement of the identification of core ontology classes and associated relations by drawing on previous research, existing vocabularies and instantiations (not only in biodiversity).

Plan for October 2017 – March 2018:

- Development of a plan for further refining core requirements, ontology classes and associated relations with input from the larger citizen science community (not only in biodiversity).
- Mapping and documentation of meetings/workshops/conferences on standardization and interoperability in citizen science to be able to build on previous work, to synchronize efforts, and not to repeat efforts.
- Definition of a plan on how to disseminate/standardize results, beyond papers.

### **WG 6: Overall and Synthesis**

A logo competition was organised and a winning logo was selected which is widely used in the communication of the action. Moreover, thoughts on the overall communication strategy was developed.

A position paper on 'How can Citizen Science help the transformation towards more sustainability - some evidence and more hope' was submitted to 'Research Policy', as first paper of this action.

The form and strategy of the final publication of this Cost-action, most probably a book, will be discussed in the afternoon session of this meeting, after the MC-meeting.

### **6) STSMs**

The latest call had a deadline on October 7<sup>th</sup> 2017. Eight applications were received and all were approved. STSMs are rather well distributed over the considered WGs; all information on STSMs, topics



and hosts are online (<https://www.cs-eu.net/stsm>). Host (institutes) are stimulated to advertise suited topics on the website.

## 7) Communication

- e-mails: will be sparsely sent around, only when necessary;
- Webpage: chairs and vice-chairs of the working groups, please upload your picture (chairs and vice-chairs); STSM section planned (bio, plans, report,...);
- the COST-Action has no specific newsletter as there is the ECSA-newsletter which is sent around to about 1375 persons;
- a flyer is available (<https://www.cs-eu.net/resources/info-material>)
- talks given under the flag, or with collaboration, of this Cost-Action have to be listed, therefore a spreadsheet is be created in Google Docs; please fill it ([https://docs.google.com/spreadsheets/d/1mVLlIme3Nrrxtm\\_RtOsU4vd5bHUW\\_4YFxToj10bc3zE/edit#gid=0](https://docs.google.com/spreadsheets/d/1mVLlIme3Nrrxtm_RtOsU4vd5bHUW_4YFxToj10bc3zE/edit#gid=0))
- Action-related issues will be communicated via our communications representative Karel De Pourcq. He studied science communication. His aim is to maximise the impact of what we are doing in the framework of the action. *Addition: Karel is approved via online MC decision.*

## 8) Special issue “Journal of Science Communication”

On the day of the meeting a call was opened for a special issue in ‘Journal of Science Communication’ on ‘User experience of digital technologies in CS’ (<https://jcom.sissa.it/call-papers-0>). This special issue has 7 Guest editors, including Marisa Ponti, and will be published in February 2019, first abstract pre-submission will run till January 10 2018. From the Cost perspective contributions with authors from various countries are most welcomed.

## 9) Budget adaptation Grant Period 2

Total 108.260 Euro, about 5000 Euro underspending due to cheaper workshops. Moreover, it is expected that there might not be enough candidates for the ITC-Grants.

Suggestions to overcome this underspending might be to organise more STSMs (e.g. another 10 ones) together with extended deadlines; offer another summer school and mobilize the community for more workshops (e.g. topic arising in German CS Network: citizen science in the humanities and social sciences).

The debate favoured promoting ITCs, mobilizing the community and offering more STSMs. In Table 2 an overview is given; comments are welcome in order to prepare the necessary updates and MC decisions.

## 10) Hackathon-intro

A hackathon initiative was proposed by Rob Lemmens & Vyron Antoniou based on ideas of the available MC members. Today: first ideas on challenges and discussion on mode of operation should be worked out, while in October till December there will be challenges launched, based on these proposals. In February 2018 there will be a call for a Hackathon, in May 2018 there is the submission by the teams and selection of the winning teams. In the summer of 2018: presentation of results by winning teams at COST CS Summer School.



## 11) Planning third grant period

Next MC meeting and working group is planned to take place during the International Citizen Science Conference which is organised together by the European Citizen Science Association (ECSA) and Science et Cité in Geneva from June 3<sup>rd</sup> till June 6<sup>th</sup> 2018.

From the proposed budget it is suggested to increase the budget for the summer school in Firenze to 15000-20000 Euro, and consequently reduce the budget for workshops. Moreover, it is suggested to increase the number of budget for open access. See this adapted final rough planning in Table 3.

## 12. Any other business (AOB)

The action should, besides a scientific output, aim to reach our target public, the citizens, by means of laymen publications.

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Minutes: Roeland Samson with additions from Katrin Vohland, Marisa Ponti, Sven Schade, Luigi Ceccaroni, Loreta Tauginiene, Silvia Winter, Rob Lemmons

## Appendices: Tables and Working Group Reports

**Table 1: Attendees**

Name	Category	Country
Dr Silvia Winter	MC Member	Austria
Prof Roeland Samson	MC Member	Belgium
Prof Rahman Nurkovic	MC Member	Bosnia and Herzegovina
Prof Kiril Barzev	MC Member	Bulgaria
Prof Albena Vutsova	MC Member	Bulgaria
Ms Eva Novakova	MC Member	Czech Republic
Dr Jakub Trojan	MC Member	Czech Republic
Prof Mart Kulvik	MC Member	Estonia
Dr Monika Suskevics	MC Substitute	Estonia
Mr Veljo Runnel	MC Member	Estonia
Karin Pai	local organizer	Estonia
Dr Juhani Kettunen	MC Member	Finland
Dr Taru Peltola	MC Substitute	Finland
Prof Romain Julliard	MC Member	France
Mr Aleksandar Karadimce	MC Substitute	fYR Macedonia
Dr Katrin Vohland	MC Chair	Germany
Dr Vyron Antoniou	MC Member	Greece
Dr Liat Levontin	MC Member	Israel
Dr Assaf Shwartz	MC Member	Israel
Dr Lucy Bastin	WG Member [WG5]	Italy
Dr Luciano Massetti	WG Member [WG2]	Italy
Dr Sven Schade	WG Member [WG5]	European Commission – Joint Research Center
Dr Egle Butkeviciene	MC Member	Lithuania
Dr Loreta Tauginiene	MC Member	Lithuania
Dr Rob Lemmens	WG Member [WG5]	Netherlands
Mr Pawel Wyszomirski	MC Member	Poland
Dr Brigida Riso	WG Member [WG2]	Portugal
Prof Cidalia Fonte	MC Substitute	Portugal
Dr Bogomil Breznik	MC Member	Slovenia
Dr Veljko Pejovic	MC Member	Slovenia
Dr Luigi Ceccaroni	MC Substitute	Spain
Dr Marisa Ponti	MC Vice-Chair	Sweden
Johanna Witzel	MC Substitute	Sweden
Dr Dana Mahr	MC Member	Switzerland
Ms Lucy Robinson	MC Member	United Kingdom



**Table 2: Current budget and suggested changes (18.11.2017).**

The budget was revised by COST according to current spending and an additional 17.500 are added for ICT. There are some changes suggested; the MC meeting may become cheaper, the WG 2 and WG 4 meetings more expensive, the WG 3 workshop may split up into several ones which are currently debated, more STSMs may be offered. The final decision will be done online via Loomio and in accordance with the COST Office.

Type	What	Agreed Budget Plan GP2 - Revised Oct 2017	Sums + new suggestions	Spent (23.10.2017)	Accruals	Difference	SUGGESTED CHANGES
Meeting	Presentation Ontologies CSA 2017	2.007,51 €		2.007,51 €		- €	
Meeting	WG 2 Meeting Lisboa, June 17	6.233,00 €		6.232,95 €		- 0,05 €	
Meeting	WG 6 Meeting Brussels, July 17	2.393,48 €		2.393,47 €		- 0,01 €	
Meeting	WG 1 Meeting Budapest, September 17	8.300,00 €			7.058,23 €	1.241,77 €	-1241,77
Meeting	MC Meeting Tartu, October 17	36.500,00 €			17.334,29 €	19.165,71 €	-19165,71
Meeting	WG 4 Meeting London, November 17	10.100,00 €	▶ 20.April 18				0
Meeting	WG 4 Meeting Vilnius	8.600,00 €	▶ 14.+15. March 18 Vilnius				3.000,00 €
Meeting	WG 3 Meeting Budapest, March 18	<b>11.600,00 €</b>	▶ WG 3 developed some great ideas:				- 11.600,00 €

Meeting	March 1st, Brussels		<b>WG 3 - CS and Open Science Brussel March 1st</b>				2.607,48 €
Meeting	March 18; Portugal		<b>WG 3 Implementation Policies ? Portugal</b>				6.000,00 €
Meeting	WG 2 Meeting Leysin, March 16.-17.3.2018	9.100,00 €					4.000,00 €
Meeting	WG 5 Meeting Novi Sad, March 18	9.000,00 €					0
Meeting	WG 6; Feb/March in Kaune,		<b>WG 6 : Mapping opportunities and challenges for Citizen Science in Social Sciences and Humanities</b>				6.000,00 €

**MEETINGS**

**103.833,99 €**

Training School	Barcelona, November 17	10.680,00 €					0
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**Training Schools**

**10.680,00 €**

STSM 1	Education	2.000,00 €			1.300,00 €		0
STSM 2	Urban Cycling	2.000,00 €			1.485,00 €		0
STSM 3	Phytophthora	2.000,00 €			2.500,00 €		0
STSM 4	PlasticWatch	2.000,00 €			996,00 €		0
STSM 5	Human-Computer	2.000,00 €			1.900,00 €		0
STSM 6	historical language	2.000,00 €			2.000,00 €		0
STSM 7	policy engagement	2.000,00 €			1.200,00 €		0
STSM 8	air quality monit	2.000,00 €			2.500,00 €		0
STSM 9	SAPELLI TREE	2.000,00 €			2.500,00 €		0



STSM 10	user	2.000,00 €			1.810,00 €		0
STSM 11	participation policy				1.000,00 €		0
STSM 12							2.000,00 €
STSM 13							2.000,00 €
STSM 14							2.000,00 €
STSM 15							2.000,00 €
STSM 16							2.000,00 €
STSM 17							2.000,00 €
STSM 18							2.000,00 €
STSM 19							2.000,00 €
STSM 20							2.000,00 €
STSM 21							2.000,00 €
STSM 22							
STSM 23							
STSM 24							
STSM 25							
<b>STSMs</b>			<b>20.000,00 €</b>		<b>19.191,00 €</b>		
Dissemination		1000					0
<b>Dissemination</b>			<b>1.000,00 €</b>				
<b>ICT GC</b>		<b>17.500,00 €</b>					- 17.500,00 €
	Karadicme, WG 5				1.050,00 €		1.050,00 €



	NN - Citizen Science Lab: Air Pollution. Interactive workshop Jan 22-26 2018						1.500,00 €
	NN - Citizen Science Lab: Air Pollution. Interactive workshop Jan 22-26 2018						1.500,00 €
	NN						1.500,00 €
	NN						1.500,00 €
	NN						850,00 €
	NN						
<b>15% FASC</b>		22.952,10 €					
<b>Total</b>		<b>175.966,09 €</b>					0

**Table 3: Overall Planning**

Grant Period	I	II	III	IV	V
Duration	6 month	1 year	1 year	1 year	6 month
Time	1.11.16- 30.4.17	1.5.17- 30.4.18	1.5.18- 30.4.19	1.5.19- 30.4.20	1.5.20- 20.9.20
Resources	70.500 €	160.000 € <b>+ 17.500 ITC CG</b>	?	?	?
Activities					
	MC Meeting <i>Dezember 16 Berlin</i>	MC Meeting <i>October 17 Tartu</i>	MC Meeting <i>June 18 Geneva (tbc)</i>	MC Meeting	MC Meeting
	WG Meetings	Workshops, Summer schools, Conferences, STMS,.... Publications, MOOCs, Guidelines,...			Final Conference (Trieste (tbc))

**Table 4: First overall planning of Grant Period 3 (May 2018-April 2019)**

<b>Period II</b>	<b>1.5.17- 30.4.18</b>	<b>Location</b>	<b>Responsible Person</b>	<b>Amount 180 000 € guesses</b>
MC Meeting		Geneva at Int. CS Conference	Co-ordination Vohland & Ponti; local organiser Mahr	Ca. 50.000
Summer school			Capineri et al;	Ca. 20.000
Workshops; including travel costs for Hackathon winner Conference	8 x 8.000		Co-ordination WG Chairs	Ca. 50.000
STMs			Co-ordination Maria Attard	Ca. 20.000
MOOCs				-
ITC-Grants		e.g. Geneva	Co-ordination Vohland & Ponti	Ca. 10.000
Publications		Open access		Ca. 4.000
Outreach				Ca. 1.000
15% GHI				Ca. 23.500



### Working Group Report | WG4 - Seminar on “Degrees of Participation, Outputs and Outcomes”

- Marisa Ponti presented the web site for the task called “Mapping Public Participation, Outputs and Outcomes in Citizen Science” planned to start in November 2017. The aim is to collect data from the literature (both academic literature and grey literature) on projects involving Public Participation in Scientific Research (PPSR).
- The purpose is not to conduct a systematic review, but to map and synthesize documents about citizen science projects in the COST Member States. The goal is to pull together a breadth of examples from across the COST Member States to examine the different degrees and quality of participation of citizens and the relationships between public participation, outputs and outcomes. The goal is to summarize and disseminate findings from these documents.
- A structured survey protocol has been developed to ensure uniformity of data extraction from each article and capture relevant data. See the [survey](#).
- The survey was presented and several participants suggested changes to the questions. Marisa Ponti will incorporate some of those changes.



## Working Group Report | WG 3 – Discussion on Action Lines

18.10.2017

Minutes Meeting WG 3 with Sven Schade, Brigida Riso, Romain Julliard & Katrin Vohland

Many activities delineated in the Citizen Science (CS) COST Action proposal for WG 3 take place, together with members of the COST Community, but partly without reference to COST and without resources from it. Examples are the collection of policy guidelines within the framework of the Horizon 2020 Project DITOs (Doing it together Science, available via ECSA; a stakeholder round table in Brussels to discuss the next EU Framework programme or the development of policy briefs within DITOs. The first ideas and especially the WG 3 Workshop at the MC meeting in Berlin on invisible Citizen Science shows the large potential of the Citizen Science COST Action Community. COST offers many opportunities to strengthen these activities at the interface between science, society and policy, but the opportunities within the CS COST Action are not fully explored.

One important point is to re-activate the working group after the demission of Estzer Berenyi for private reasons (change of job position). Sven Schade, JRC, would be a great chair of this working group as he is connected to actors from policy as well as to the relevant EU research projects. Addition: COST Officer informed us that as observer Sven Schade can be co-Chair but not chair.

During the meeting, different lines of activities have been identified.

### 1) Citizen Science and Sustainability: Research Infrastructure

A key insight from the DITOs Stakeholder Round Table in Brussels was that in order to increase sustainability of citizen science approaches, a pure project oriented funding scheme is inappropriate. Considering the long-term engagement of many citizens and the structure of the community of practitioners, more emphasis on infrastructure is needed. Infrastructure refers to databases, online tools and coordinators, but also to capacity building and soft skills.

In order to explore more on the requirements, a working group meeting is suggested.

Place:	Luxemburg (ITC; to reach DG Connect) or Brussels
Time:	Early 2018
Responsible Person:	NN
Local Organiser:	NN
Input:	<ul style="list-style-type: none"> <li>▪ WG 4 on user requirements</li> <li>▪ EC on perspectives for FP9 and the European Open Science Cloud</li> <li>▪ DITOs on results from Brussels Stakeholder Round Table</li> <li>▪ Citizen Science experts from the CS COST Action Community</li> <li>▪ Social Scientist who gives insight in professionalization of CS (Lit: Göbel et al. 2017)</li> <li>▪ ##</li> </ul>

### 2) Citizen Science and Open Science

Citizen Science and Open Science share some targets with regard to openness and transparency, but employ different communities, have different histories and divergent priorities (cf Vohland & Göbel, 2017). Within the advisory board of the EC, OSPP (Open Science Policy Panel), a working group for citizen science exists which is meant to prepare an informing document for the EU. However, interlinkages, targets and tools are not clearly defined. A workshop is proposed in order to bring together the two





communities and explore on synergies. This workshop might also take up the discussions about a Citizen Science and Open Science roadmap towards 2027 (possibly the final year of FP9) from the DITOOS policy round table of 5 October 2017.

Place: Brussel or Berlin  
(3.g. on March 1<sup>st</sup> 2018, attached to the Open Science Conference in 2018)

Time: Early 2018

Responsible Person: Katrin Vohland, Sven Schade, Claudia Göbel

Local Organiser: NN (at COST Office)

Input:
 

- Members of CS working group of OSPP; Meike Weisspflug
- Open Science social scientist
- Input from WG 5 on tools and standards
- Participants of the DITOS policy round table
- ##

### 3) Environmental Citizen Science

Citizen Science is increasingly acknowledged for contributing to the implementation of environmental policy, i.e. by the European Commission (see [http://ec.europa.eu/environment/integration/research/newsalert/pdf/IR9\\_en.pdf](http://ec.europa.eu/environment/integration/research/newsalert/pdf/IR9_en.pdf)), the European Environmental Agency (EEA) and the European Network of Environmental Protection Agencies (EPAs), as expressed by their Task Force on Citizen Science. Currently, a series of activities are in the room to streamline environmental reporting. What role citizen science can play in that area? And what ethical issues (e.g. with regard to the use of data, payment for voluntary work etc.) have to be considered?

Place: Copenhagen or Ispra or ##

Time: ?

Responsible Person: Sven Schade

Local Organiser: NN

Input:
 

- Current reviews (e.g. Hecker et al,....)
- CS task force
- ECSA / DITOs BioBlitz Group
- ECSA efforts for biodiversity monitoring
- Members if the EKC - Environmental Knowledge Community (EC and EEA)
- Outcomes and requirements of the EKC
- Work program of the EPA Network's CS Task Force
- ##

### 4) A pan-European Comparison of the development and implementation of CS Strategies / Policies

At European level, the Green/White paper rolls out a strategy for a substantial increase of citizen science. Some countries, e.g. Germany, ##, also developed citizen science strategies which partly were accompanied by public funding. How is the situation in the different COST countries? What are learning points? In a first meeting, some kind of mapping exercise is foreseen which may inform governments at national scales.

Place: ? Lisboa

Time: ? March / April 2018



Responsible Person: ? Brigida Riso

Local Organiser: ? Brigida Riso

Input:

- ? Fermin Serrano as lead author of the European CS strategy?
- COST members from different European Countries
- References at European-level (to serve as examples) – Sven Schade will provide these
- ##

## 5) Perception of the CS Community of political attention of CS

On one hand, citizen science is a bottom up approach. There is a long tradition as well as projects arising by personal interests or to improve personal or environmental conditions. On the other hand, citizen science is increasingly seen as an instrument by politicians to reach various targets – close the gap between science and society, increase scientific literacy, enhance innovative potential etc. How is this kind of instrumentalisation perceived by the – or by the different – citizen science communities? Can they profit from the increasing professionalization, or feel they abused? In this line, we would first like to search for evidence in policy papers and the media reporting how citizen science is described and perceived by the different communities. Based on the results, a research study will be designed including asking the citizen science participants (via questionnaire, focus group or other forms t.b.d.).

Place: ?

Time: ?

Responsible Person: ?

Local Organiser: ?

Input:

- Some JRC media analysis (to be investigated)
- COST members from different European Countries
- ##



### **Working Group Report | WG5 meeting**

At Tartu, WG5 worked on the following topics:

- Consolidate the identification of core ontology classes and associated relations by drawing on previous research and existing vocabularies.
- Develop a plan for further refining core requirements, ontology classes and associated relations with input from the larger citizen science community.
- Map and document meetings/workshops/conferences on standardization and interoperability in citizen science to be able to build on previous work, to synchronize efforts, and not to repeat efforts.
- Define a plan on how to disseminate/standardize results, beyond papers

## COST Action CA15212

Citizen Science to promote creativity,  
scientific literacy, and innovation throughout Europe

Tartu, October 17 2017 | Minutes of the SC- and MC-meeting

