



F0509

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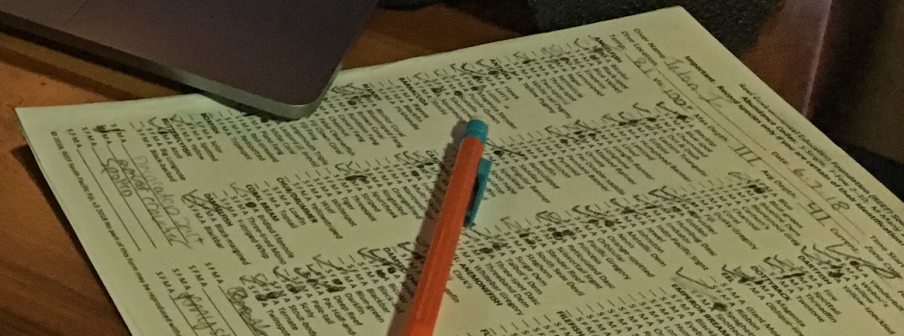
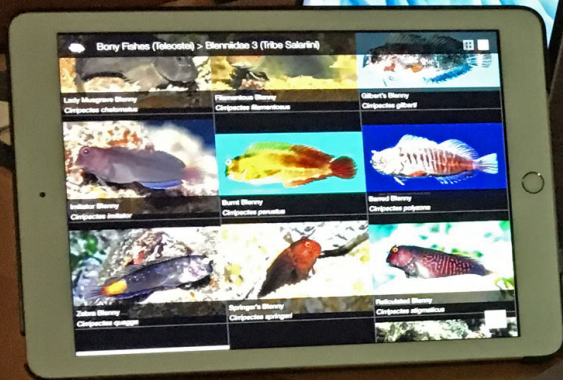
<https://www.digital-science.com/resources/digital-research-reports/the-ascent-of-open-access/>



Citizen Science

Why should we bother?





European Commission - Statement



Circular Economy: Commission welcomes European Parliament adoption of new rules on single-use plastics to reduce marine litter

Brussels, 27 March 2019

The European Parliament today agreed on the ambitious measures proposed by the Commission to tackle marine litter coming from the 10 single-use plastic products most often found on European beaches, as well as abandoned fishing gear and oxo-degradable plastics.

The rules on [Single-Use Plastics](#) items and fishing gear, addressing the ten most found items on EU beaches place the EU at the forefront of the global fight against marine litter. They are part of the [EU Plastics Strategy](#) - the most comprehensive strategy in the world adopting a material-specific lifecycle approach with the vision and objectives to have all plastic packaging placed on the EU market as reusable or recyclable by 2030. The Single-Use Plastics Directive adopted by the European Parliament today is an essential element of the Commission's [Circular Economy Action Plan](#) as it stimulates the production and use of sustainable alternatives that avoid marine litter.

First Vice-President Frans **Timmermans**, responsible for sustainable development said: "Today we have taken an important step to reduce littering and plastic pollution in our oceans and seas. We got this, we can do this. Europe is setting new and ambitious standards, paving the way for the rest of the world."

Vice-President Jyrki **Katainen**, responsible for jobs, growth, investment and competitiveness, added: "Once implemented, the new rules will not only prevent plastic pollution, but also make the European Union the world leader in a more sustainable plastic policy. The European Parliament has played an essential role in laying the foundation for this transformation and in giving a chance to the industry to innovate, thus driving forward our circular economy."

Commissioner for environment, maritime affairs and fisheries, Karmenu **Vella** concluded: "We should all be very proud of these new rules because they tackle marine plastic pollution at its source - one of the most called for and supported EU initiatives among European citizens. After the favourable vote by the Parliament today, our main task will be to ensure that these ambitious measures are quickly implemented in practice, which will be common work for public authorities, producers and consumers alike."

The Single-Use Plastics Directive voted on by the European Parliament today tackles directly marine litter thanks to a set of ambitious measures:

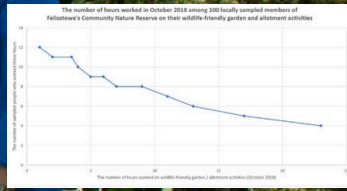
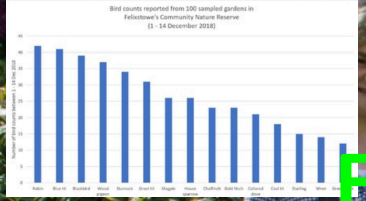
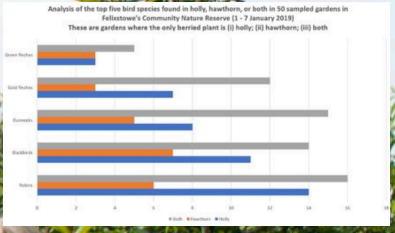
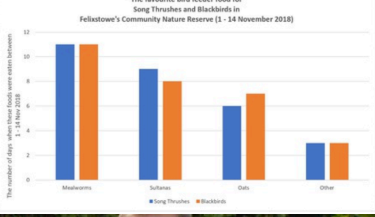
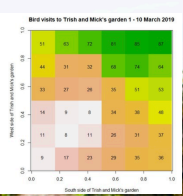
- A **ban on selected single-use products** made of plastic for which alternatives exist on the market: cotton bud sticks, cutlery, plates, straws, stirrers, sticks for balloons, as well as cups, food and beverage containers made of expanded polystyrene and on all products made of oxo-degradable plastic.
 - **Measures to reduce consumption** of food containers and beverage cups made of plastic and specific marking and labelling of certain products.
 - **Extended Producer Responsibility schemes** covering the cost to clean-up litter, applied to products such as tobacco filters and fishing gear.
 - A 90% separate **collection target for plastic bottles** by 2029 (77% by 2025) and the introduction of design requirements to connect caps to bottles, as well as target to incorporate 25% of recycled plastic in PET bottles as from 2025 and 30% in all plastic bottles as from 2030.
- The proposed Directive follows a similar approach to the successful 2015 Plastic Bags Directive, which brought about a rapid shift in consumer behavior. When implemented the new measures will bring about both environmental and economic benefits, such as for example:
- avoid the emission of 3.4 million tons of CO₂ equivalent;
 - avoid environmental damages which would cost the equivalent of €22 billion by 2030;
 - save consumers a projected €6.5 billion.

Next steps

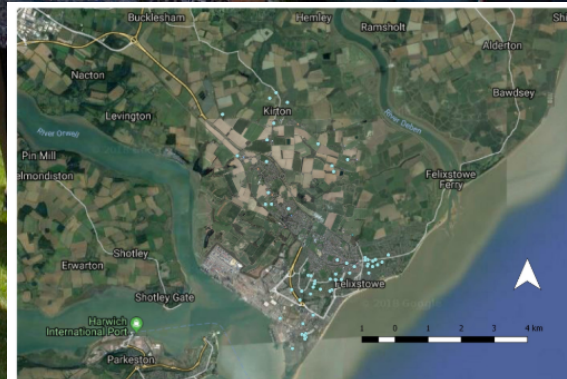
Following this approval by the European Parliament, the Council of Ministers will finalise the formal adoption. This endorsement will be followed by the publication of the texts in the Official Journal of the European Union. The Member States will then have two years to transpose the legislation into their national law.

Outlining the Citizen Science Group - 8 August 2018

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12
How much has the Citizen Science Group helped you to be actively involved with research endeavours that produces new knowledge / understanding?	5	5	5	5	5	5	5	5	5	5	5
How much do you think the work of this group has genuine scientific outcome?	5	5	5	5	5	5	5	5	5	5	5
How much do you think you have benefited from taking part in this group?	5	5	5	5	5	5	5	5	5	5	5
How much have you been able to participate in multiple areas of the country process or have differing questions, data gathering, data analysis, data visualisation and review?	5	5	5	5	5	5	5	5	5	5	5
How much feedback have you received from your participation on the Citizen Science Group?	5	5	5	5	5	5	5	5	5	5	5
How much do you think this Citizen Science Group tries to recognise best and bad practices in its work?	5	5	5	5	5	5	5	5	5	5	5
How much do you think our data and results are published in open or accessible?	5	5	5	5	5	5	5	5	5	5	5
How much do you feel acknowledged in project work and results?	5	5	5	5	5	5	5	5	5	5	5
How much would you rate the scientific output, data quality, participant experience, and other critical and positive aspects of this group?	5	5	5	5	5	5	5	5	5	5	5
How much would you rate the way this Group's leaders have involved you in their work and in their decision making, surrounding copyright, intellectual property, data sharing, governance, confidentiality, membership, and the environmental context of our activities?	5	5	5	5	5	5	5	5	5	5	5



Felixstowe's Community Nature Reserve



- > H.L. Ballard, C.G.H. Dixon, E.M. Harris **Youth-focused citizen science: examining the role of environmental science learning and agency for conservation** *Biol. Conserv.*, 208 (2017), pp. 65-75
- > R. Bonney, J.L. Shirk, T.B. Phillips, A. Wiggins, H.L. Ballard, A.J. Miller-Rushing, J.K. Parrish **Next steps for citizen science** *Science*, 343 (2014), pp. 1436-1437
- > J.L. Shirk, H.L. Ballard, C.C. Wilderman, T. Phillips, A. Wiggins, R. Jordan, E. McCallie, M. Minarchek, B.V. Lewenstein, M.E. Krasny **Public participation in scientific research: a framework for deliberate design** *Ecol. Soc.* 17(2012): 23

(2019) Collaborative Mapping in Felixstowe's Community Nature Reserve, in *Communities*, Spring edition, pages 54 - 56

(2018) Pond Skater Survey in Felixstowe, published in the Autumn 2018 News Letter of the Suffolk Biodiversity Information Service, page 5
https://issuu.com/suffolknaturalistsociety/docs/sbsis_newsletter_autumn_2018_final

(2018) Web-Based GIS in Felixstowe's Community Nature Reserve
<https://www.sustainabilitytelevision.com/blog/web-based-gis-felixstowe%E2%80%99s-community-nature-reserve>

(2018) Citizen Science Project - Hedgehogs, published in the Summer 2018 News Letter of the Suffolk Biodiversity Information Service, page 6
https://issuu.com/suffolknaturalistsociety/docs/sbsis_newsletter_summer_2018





Curieuze Neuzen

20,000 participants.

90% of measurements passed the quality control

Unique results. Maps that identify the pollution canyons

CoCoast

3000 trained volunteers across the UK

Citizen Science: Why Should We bother? | Tiberius Ignat [\[linkedin.com/in/tiberiusignat\]](https://www.linkedin.com/in/tiberiusignat)



Corr Librarian step-by-step guide for megathon

Joining the MEGATHON on Citizen Science Day 2019? Here's everything you need to know!

- [Planning checklist](#)
- [Social media](#)
- [Running the meet-up on the day](#)

- [Additional materials](#)
- [Stall Catchers fact sheet](#)
- [Stall Catchers science](#)

1 MONTH CITASCI-WORK

- ❑ **Consider getting a volunteer(s) on board** to help organize and facilitate the event. You can use the SciStarter's People Finder tool to find and invite local volunteers.
- ❑ **Decide on the space in your library for the Megathon meetup, and book it for April 13, 1:30 to 3:30pm EST** (timezone converter [here](#)). Any space works if it can be set up with desktop computers and/or comfortable for participants who bring their own laptops and other devices. Find out more about the details of setting up the event space in [the FAQ](#).
- ❑ **Create a team on [Stall Catchers](#)**. [Here's](#) the instructions.
- ❑ **Invite EVERYONE** - the more the merrier! Use resources on [SciStarter.org/citizen-science-day](#) to send out a newsletter, social media post, poster, or flyer to spread the word to patrons.
Tip: use the invite link from your team page to recruit patrons directly to your library team. [Here's](#) the instructions how.

Participants

Meet-ups

Retirees

Librarians

Teachers

FAQ

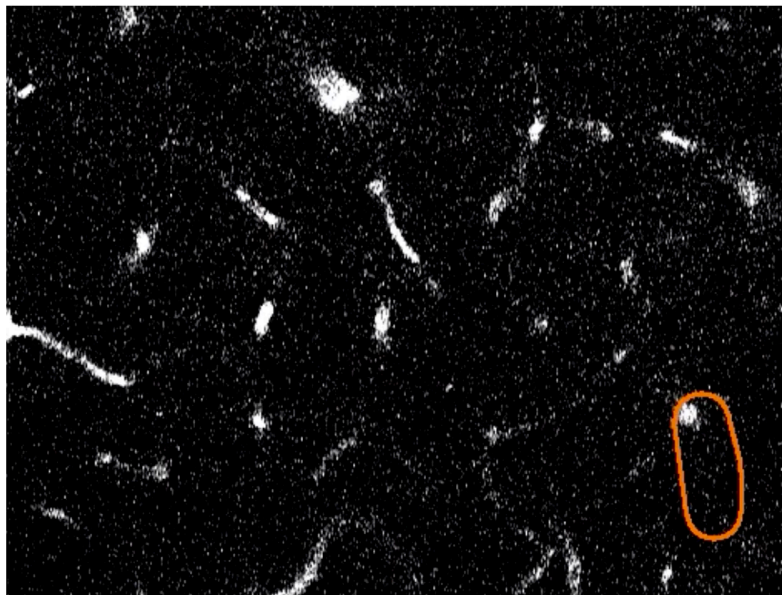
My team is:

Team Humanity

(choose team)

Catchers 39 Today ▾

- 1. caprarom 390,920
- 2. Carol aka Mema 389,337
- 3. Badstallsbadbad 143,028
- 4. glol 134,676
- 5. Hanea11 52,752
- 6. ababbie 40,595
- 7. annettei 30,740
- 8. katherinehebert 21,770
- 9. Batgirl 21,383
- 10. Michael_Landau 15,731



Get ready for.. the MEGATHON: April 13, CitSciDay2019!

- Autoscroll
- Show answer

Score	101
Level	0
Next	566
Rank	7789
Movies	6
Stalls	2
Lab time	0

No points yet. Check back!

▶
●
5
Flowing
🚩
Stalled

Serious-ification: Citizen Science for Serious Gamers

THE HUMAN PROTEIN ATLAS

MMOS



300.000 citizen scientists generated more that 33 million image classifications

1998: UK Signs Kyoto Protocol and refers to

57
years

120
species

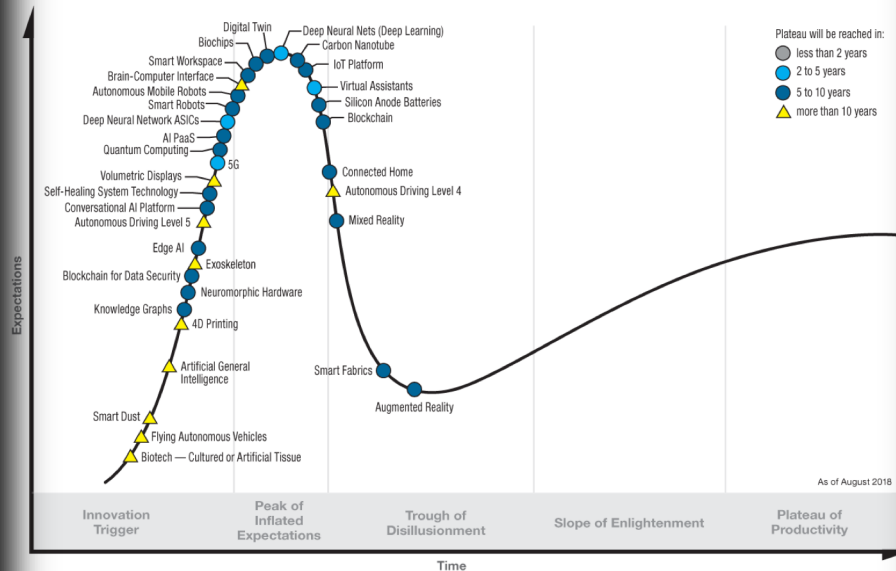
30.000
observations
p.a.

Climate change related to egg-laying trends
Humphrey Q. P. Crick & Timothy H. Sparks
Nature volume 399, page 423 (03 June 1999)
doi:10.1038/20839

The impact of climate change on birds
Humphrey Q. P. Crick
<https://doi.org/10.1111/j.1474-919X.2004.00327.x> (Wiley)
International Journal of Avian Science (23 September 2004)

Citizen Science? Artificial Intelligence? Both!

Hype Cycle for Emerging Technologies, 2018



gartner.com/SmarterWithGartner

Source: Gartner (August 2018)
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Gartner



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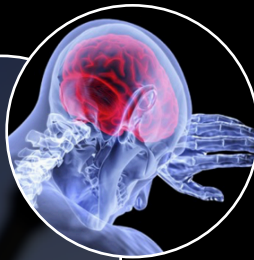
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Network:

Pass:

non-scientists
active contribution to science
intellectual effort
knowledge
tools
resources

Citizen Science - Areas of Competence



Enhance Scientific
Research



Address Societal
Needs

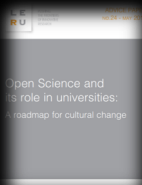


Education and
networking

Emerging policies and recommendations



- Citizen Science receives the well deserved recognition
- Strong support at European level
- Research organisations, libraries are expected to act together towards existing and new citizen science initiatives
- Guidelines for next steps: building skills, methodologies, toolkits.
- Time to act: now!

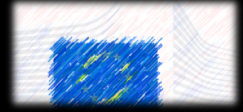




Explore Citizen Science: Join LIBER's Newest Working Group

<https://libereurope.eu/blog/2019/03/28/explore-citizen-science-join-libers-newest-working-group/>

The view of European Commission:



Citizen Science can:

accelerate and sometimes even make possible the production of **new scientific knowledge**;

help **policy-makers monitor implementation and compliance** with regulations;

increase **public awareness** about science and feeling of **ownership of policies**

enable faster and evidence-informed reactions to events and **better territorial coverage**.



The Librarian's Guide to Citizen Science

Understanding, planning, and sustaining ongoing engagement in citizen science at your library.

scistarter[™]
Science we can do together.

ASU School for the Future of Innovation in Society
Arizona State University



Resources

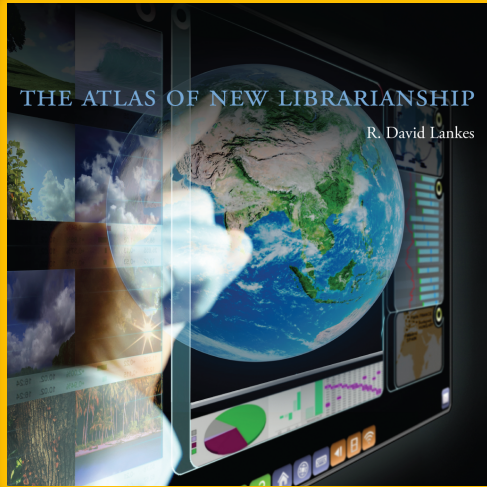
FOR LIBRARIES

Librarian's Guide To Citizen Science

Name	Owner	Last modifi...	File size
 Citizen Science Day Assets			
 The MEGATHON	Caroline Nickerson	Mar 20, 2019	Claire ...
 Recordings of Wednesday Calls	Egle Marija Ramana...	Mar 14, 2019	Egle M...
 FAQ's about Citizen Science Day 	Caroline Nickerson	Jan 11, 2019	Carolin...
 Weekly Call Agenda and Notes 	Caroline Nickerson	1:18 AM	
 Event examples 	Caroline Nickerson	Mar 21, 2019	Carolin...
 1. Read me first! 	Caroline Nickerson	Mar 20, 2019	
 CitSciDay timeline -- for librarians .png 	Caroline Nickerson	Mar 20, 2019	
	Caroline Nickerson	Jan 15, 2019	Carolin... 1 MB

<https://scistarter.org/citizen-science-day>

Is Citizen Science a new role for libraries?



Libraries to enrich, capture, store, and disseminate the conversations of their communities

R. David Lankes, *The Atlas of New Librarianship*, 2012

Is Citizen Science a new role for libraries?

A cultural change to

Libraries of Knowledge, Meanings and Learning.

Knowledge and meaning through conversation.

Learning through participation.

338 citizen science biodiversity projects (1930-2012)

Estimated in-kind contributions

(1.3-2.3 million citizen science volunteers) up to

**Citizen Science: why
\$2.5 billion per year
should we bother?**

Citizen Science Method:

MATURITY CHECK

- ✓ Relevant experiences
- ✓ Well defined
- ✓ Policies and recommendations
- ✓ Awareness and Needs
- ✓ Partnership opportunities
- ✓ Enthusiasm

Citizen Science Support

SERVICE READINESS



People



Knowledge and methods



Skills



Competences



Tools



Service design

Citizen Science

Why should we bother?

We need data and collective intelligence that is orders of magnitude larger than what scientists could do alone.

Citizen science is making scientists better citizens

The underuse of citizen science is a missed opportunity for science and society!

Merry work: libraries and citizen science

This article highlights important new opportunities for libraries by analysing the roles they could potentially play in citizen science projects. Citizen science is one of the eight pillars of open science identified by the Open Science Policy Platform, an EC Working Group. The authors of the article suggest that roles for libraries wishing to support or engage in citizen science could include contributing to specific skills development, building and maintaining collections of protocols, data forms and educational material; contributing to making data FAIR; supporting new communication roles; participating in recruitment and helping volunteers to participate in projects; participating in marketing activities; further advocacy and developing authors. In case studies from their institutions, where citizen science has already been embraced: University College London, the University of Barcelona, the University of Southern Denmark and Qatar National Library. This article thus presents a snapshot of what libraries have so far achieved in this sphere and the challenges and opportunities which remain.

Keywords

Citizen science; University College London; University of Barcelona; Qatar National Library; University of Southern Denmark; research libraries; open science



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Director, Digital Content
& Engagement
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BERTIL DORCH
Library Director
University of Southern
Denmark



THOMAS KAARSTED
Deputy Library
Director
University of Southern
Denmark



**ANNI KATHRINE
OVERGAARD**
Head of External
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Health Sciences
University of Southern
Denmark

DE GRUYTER

Review Article

Paul Ayris*, Tiberius Ignat

Defining the role of libraries in the Open Science landscape: a reflection on current European practice

<https://doi.org/10.1515/opis-2018-0001>
Received October 27, 2017; accepted December 23, 2017

Abstract: This collaborative paper looks at how libraries can engage with and offer leadership in the Open Science movement. It is based on case studies and the results of an EU-funded research project on Research Data Management taken from European research-led universities and their libraries. It begins by analysing three recent trends in Science, and then links component parts of the research process to aspects of Open Science. The paper then looks in detail at four areas and identifies roles for libraries: Open Access and Open Access publishing, Research Data Management, E-Infrastructures (especially the European Open Science Cloud), and Citizen Science. The paper ends in suggesting a model for how libraries, by using a 4-step test,

doi.org/10.1629/uksg.431

doi.org/10.1515/opis-2018-0001.pdf

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Science and Society: Culture & Relationship

SOCIETY

SCIENCE

Drugs **Services**

Hopes **Meanings**

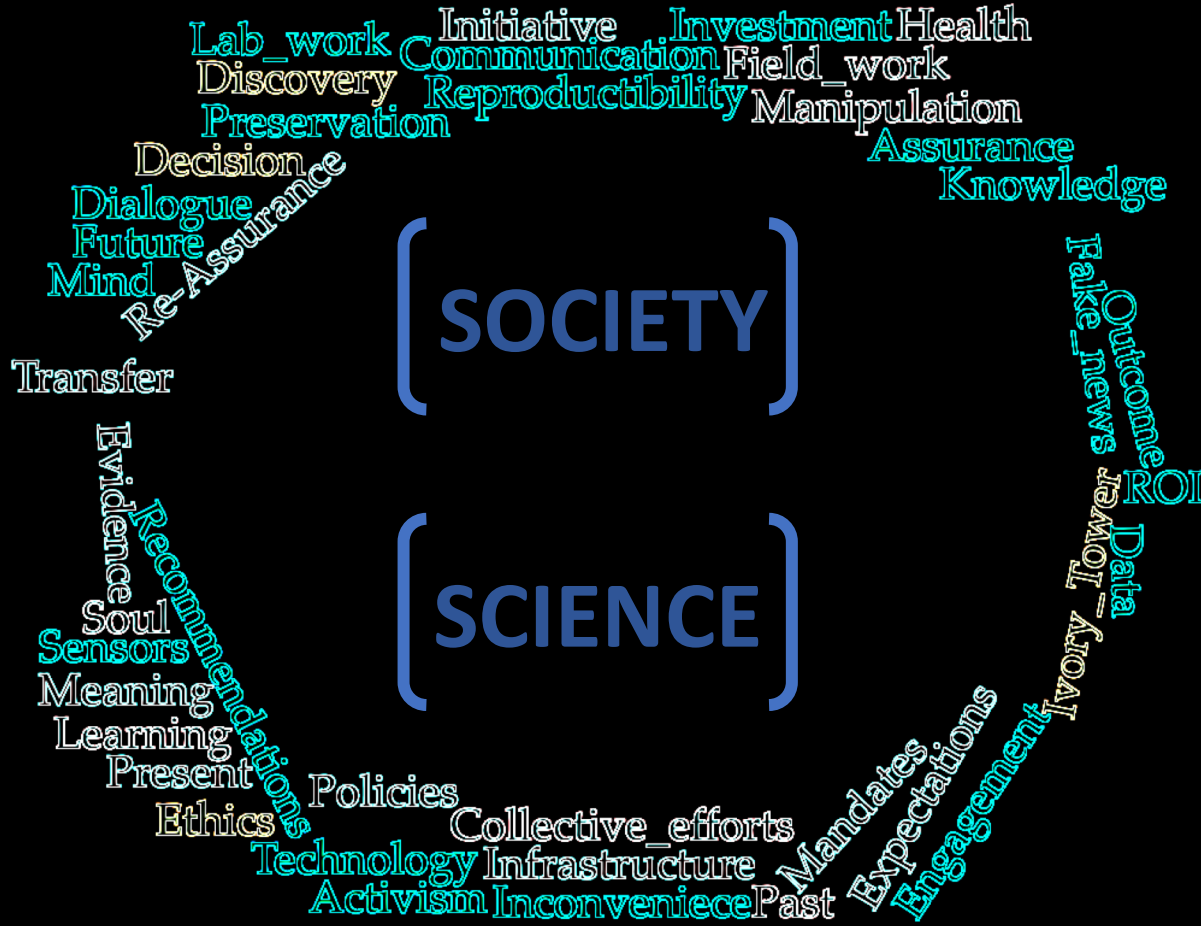
Innovation **Dreams** **Expectations**

Education **Knowledge** **Policies**

Products **Laws**

Infrastructure **Treatments**

Science and Society: Culture & Relationship





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