www.sli.do

#F0917

#OS19BUD
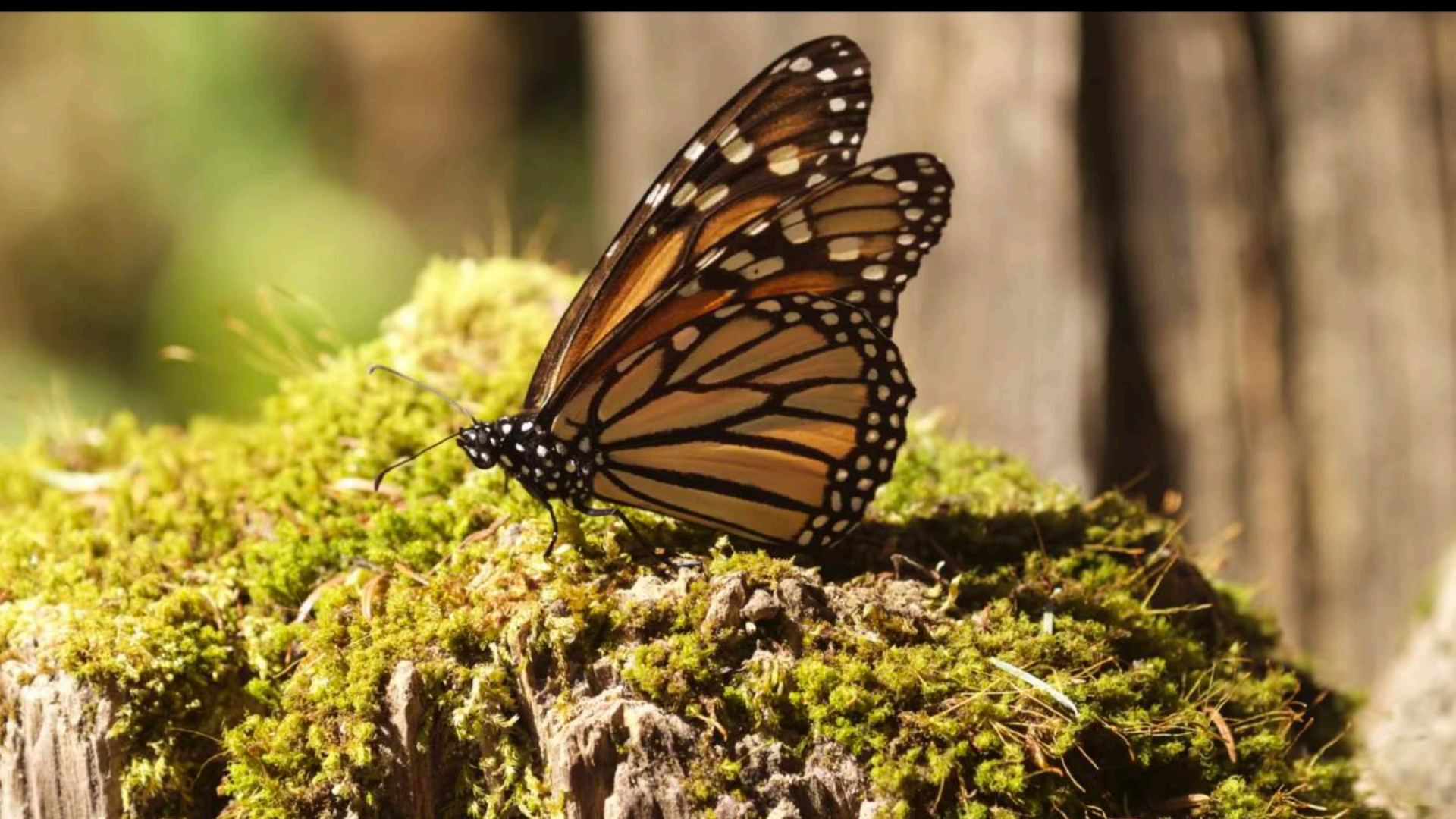
Citizen Science

Why should we bother?

WWW.SLI.do
#OS19BUD

9:10 – 9:40

Examples of Citizen Science

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Scientific|Knowledge|Services

9:10 – 9:20

abc nightline

TAG@KU.EDU
MONARCH WATCH
1-888-TAGGING
GHS 831

80,000
TAGGED IN
2017

abc nightline

Subscribe
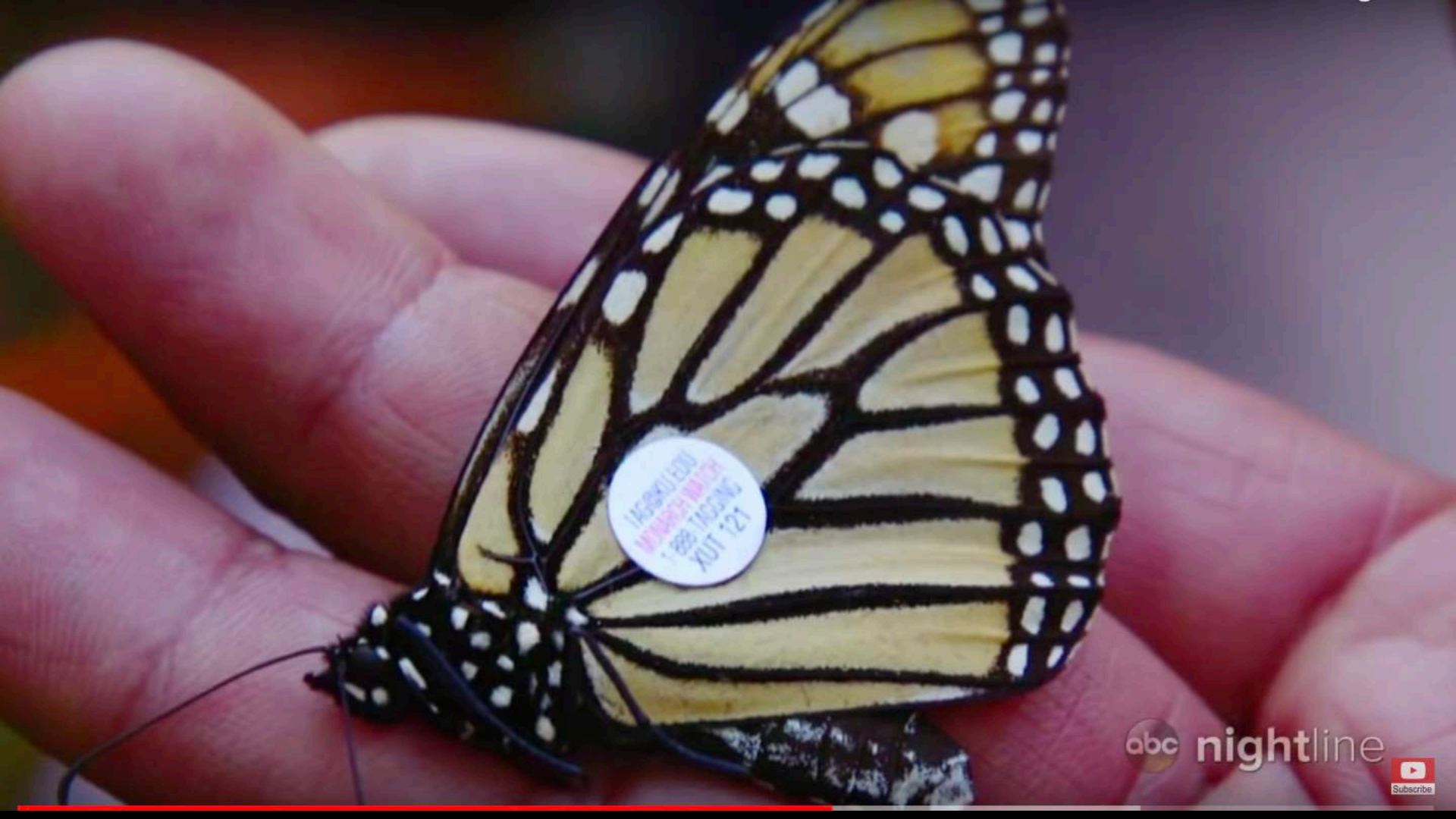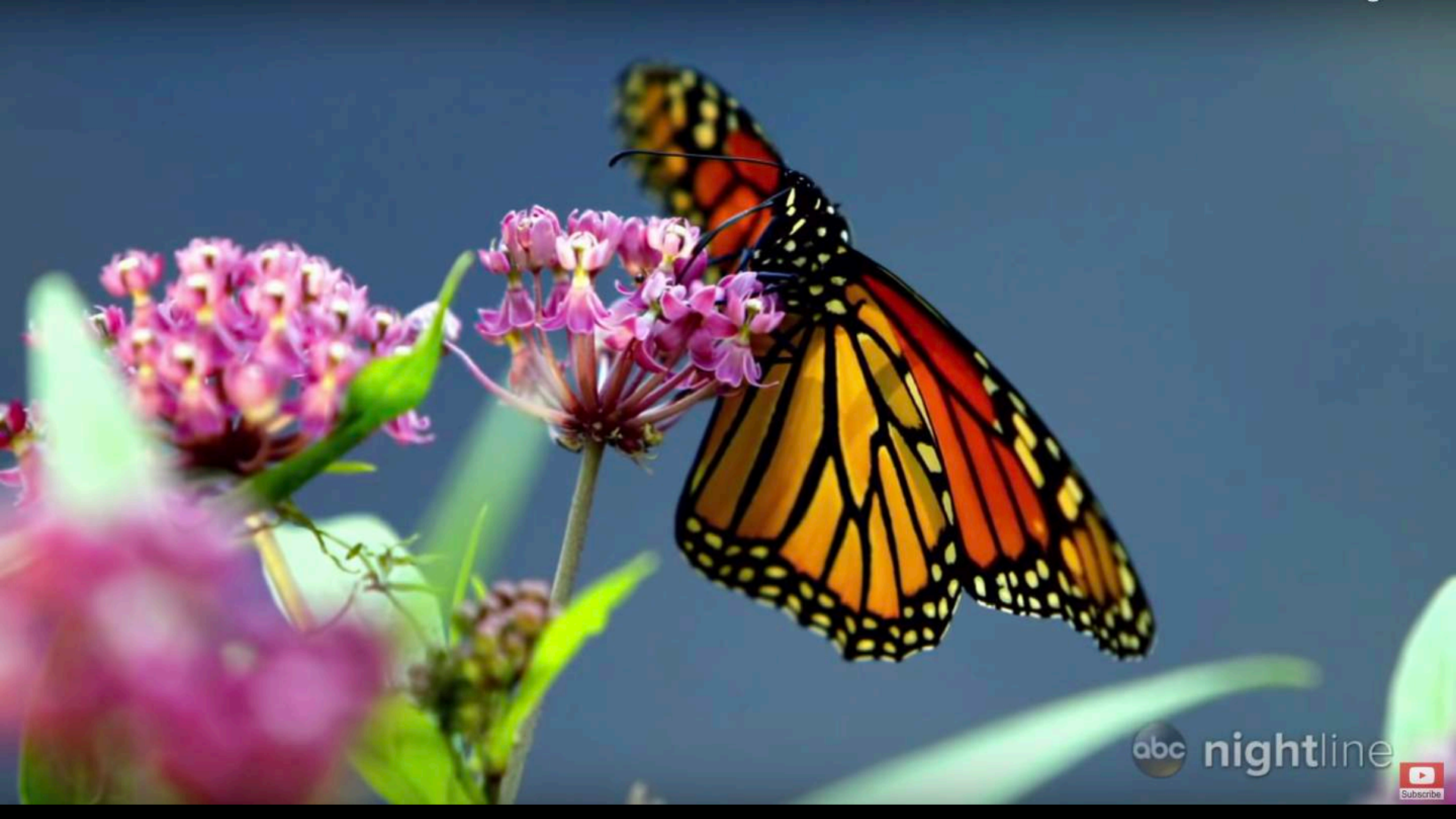
Farmers for Monarchs

Identifying and implementing solutions on agricultural and ranching lands to achieve a sustainable monarch butterfly population

LEARN MORE ABOUT MONARCHS

HOW FARMERS CAN HELP

CONNECT TO RESOURCES IN YOUR STATE

FARMERS FOR MONARCHS

Tracking multi-generational colonization of the breeding grounds by monarch butterflies in eastern North America

D. T. Tyler Flockhart[1], Leonard I. Wassenaar[2,†], Tara G. Martin[3], Keith A. Hobson[2], Michael B. Wunder[4] and D. Ryan Norris[1]

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[2] Environment Canada, Saskatoon, Saskatchewan, Canada S7N 3H5
[3] Ecosystem Sciences, CSIRO, GPO 2583, Brisbane, Queensland 4001, Australia
[4] Department of Integrative Biology, University of Colorado Denver, PO Box 173364, Denver, CO 80217, USA

Insect migration may involve movements over multiple breeding generations at continental scales, resulting in formidable challenges to their conservation and management. Using distribution models generated from citizen scientist occurrence data and stable-carbon and -hydrogen isotope measurements, we tracked multi-generational colonization of the breeding grounds of monarch butterflies (*Danaus plexippus*) in eastern North America. We found that monarch breeding occurrence was best modelled with geographical and climatic variables resulting in an annual breeding distribution of greater than 12 million km^2 that encompassed 99% occurrence probability. Combining occurrence models with stable isotope measurements to estimate natal origin, we show that butterflies which overwintered in Mexico came from a wide breeding distribution, including southern portions of the range. There was a clear northward progression of monarchs over successive generations from May until August when reproductive butterflies began to change direction and moved south. Fifth-generation individuals breeding in Texas in the late summer/autumn tended to originate from northern breeding areas rather than regions further south. Although the Midwest was the most productive area during the breeding season, monarchs that re-colonized the Midwest were produced largely in Texas, suggesting that conserving breeding habitat in the Midwest alone is insufficient to ensure long-term persistence of the monarch butterfly population in eastern North America.
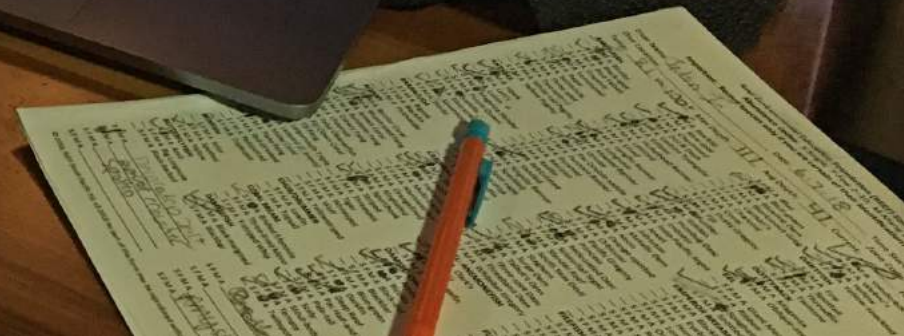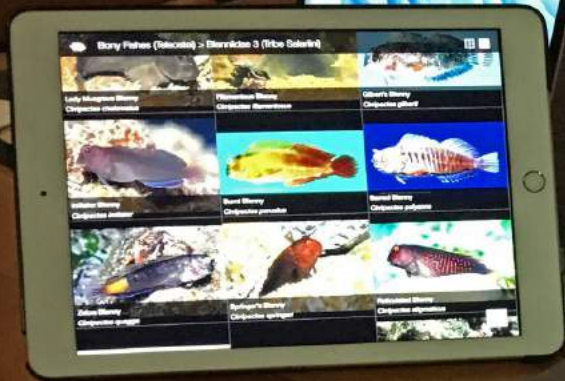
Curieuze Neuzen

20,000 participants.

90% of measurements passed the quality control

Unique results. Maps that identify the polution canyons

SKS.
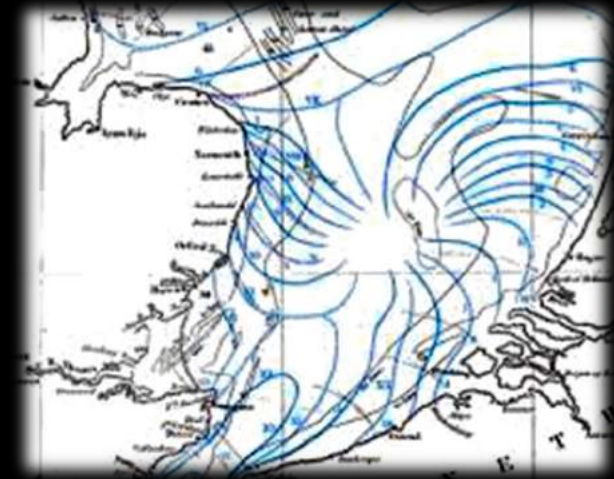Scientific | Knowledge | Services

CoCoast

3000 trained volunteers across the UK

SKS

Citizen Science: Where to use it?

PHYSICS
MATHEMATICS
NEUROSCIENCE
GOVERNANCE
ENVIRONMENTAL STUDIES
DIGITAL HUMANITIES
... all fields

Join now!

IF WE COU

REMOVE ST

FIND THE

ALZHEIMER

BUT WE NE

ers help find a cure
isease?

nd Stall Catchers here.

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

Email us at megathon@eyesonalz.com if you need any additional guidance or support!

Planning checklist
- ❑ Sign up here: megathon.us.
- ❑ Add your event to SciStarter (SciStarter.org/citizen-science-day). You can then use SciStarter's People Finder tool to find and invite local citizen scientists.
- ❑ 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.
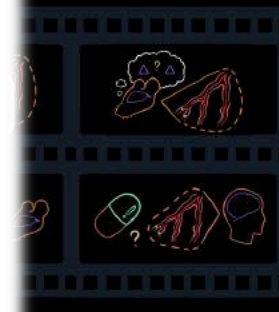
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Deutscher Sprachatlas

Forschungszentrum Deutscher Sprachatlas, Marburg

RESEARCH ARTICLE

Crowdsourcing Language Change with Smartphone Applications

Adrian Leemann[1]*, Marie-José Kolly[2,3], Ross Purves[4], David Britain[5], Elvira Glaser[6]

1 Phonetics Laboratory, Department of Theoretical and Applied Linguistics, University of Cambridge, Cambridge, United Kingdom, 2 Laboratoire d'Informatique pour la Mécanique et les Sciences de l'Ingénieur, CNRS, Orsay, France, 3 Department of Comparative Linguistics, University of Zurich, Zurich, Switzerland, 4 Department of Geography, University of Zurich, Zurich, Switzerland, 5 Department of English, University of Bern, Bern, Switzerland, 6 German Department, University of Zurich, Zurich, Switzerland

* al764@cam.ac.uk

Abstract

Crowdsourcing linguistic phenomena with smartphone applications is relatively new. In linguistics, apps have predominantly been developed to create pronunciation dictionaries, to train acoustic models, and to archive endangered languages. This paper presents the first account of how apps can be used to collect data suitable for documenting language change: we created an app, Dialäkt Äpp (DÄ), which predicts users' dialects. For 16 linguistic variables, users select a dialectal variant from a drop-down menu. DÄ then geographically locates the user's dialect by suggesting a list of communes where dialect variants most similar to their choices are used. Underlying this prediction are 16 maps from the historical Linguistic Atlas of German-speaking Switzerland, which documents the linguistic situation around 1950. Where users disagree with the prediction, they can indicate what they consider to be their dialect's location. With this information, the 16 variables can be assessed

Ask for Evidence on
advertising c

Ask For Evidence　　　　**Understand Evidence**

New ways for Citizen Science

9:20 – 9:25

Serious-ification:
Citizen Science for Serious Gamers

300.000 citizen scientists generated more than 33 million image classifications

Zoom out: the place of Citizen Science

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9:25 – 9:30

Science and Society: Culture & Relationship

[SOCIETY]

[SCIENCE]

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)

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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 innovate, thus driving forward our circular economy." role to the industry to

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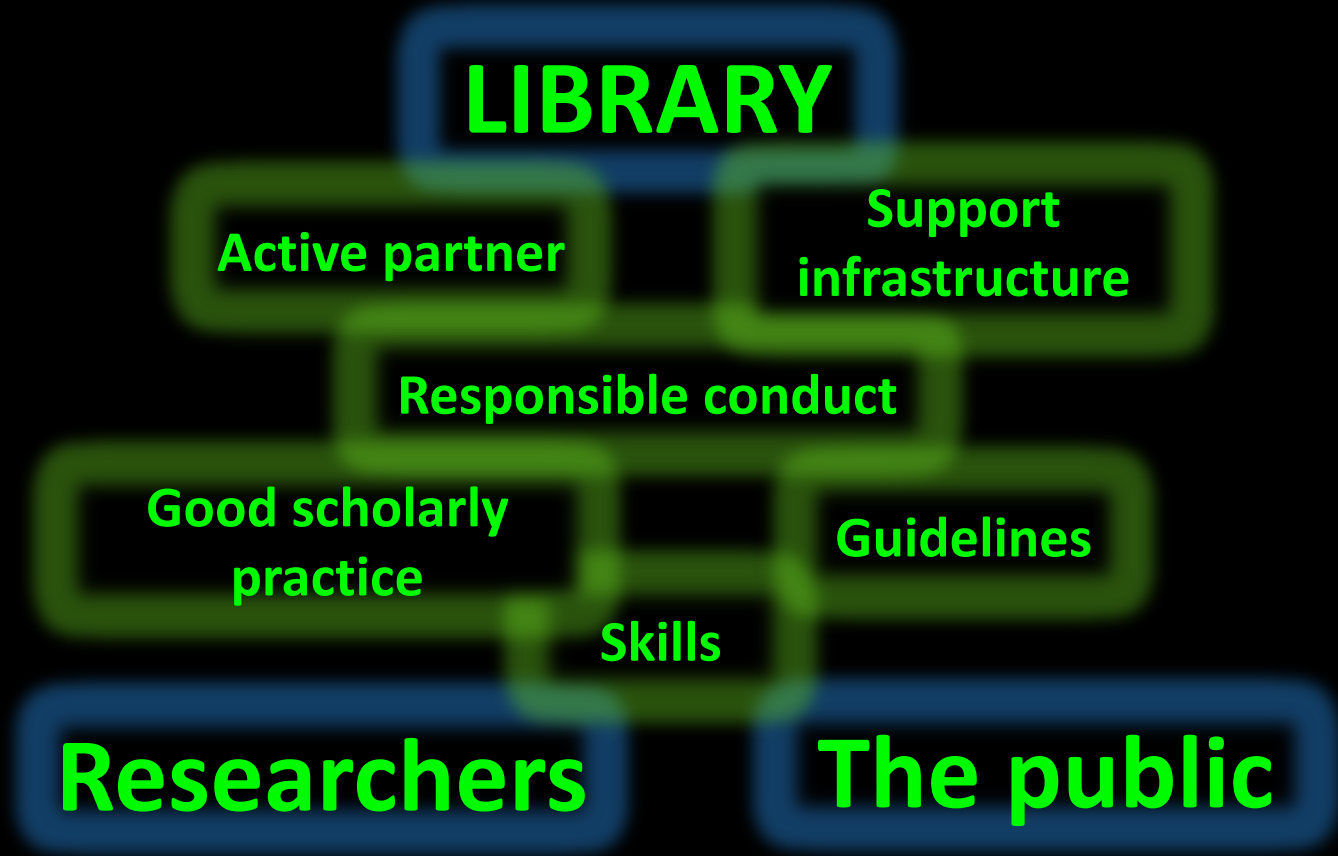
The Single-Use Plastics Directive voted on by the European Parliament today tackles directly marine litter thanks to a set of ambitious measures:

- 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 Union. The Member States will then have two years to transpose the legislation into their national law.

Emerging policies and recommendations

OSPP-REC

Open Science Policy Platform Recommendations

EUROPE'S RESEARCH LIBRARY NETWORK

LIBER Open Science Roadmap

ADVICE PAPER
NO.24 – MAY 2018

Open Science and its role in universities:

A roadmap for cultural change

LEAGUE OF EUROPEAN RESEARCH UNIVERSITIES

LIBER Recommendations for Citizen Science

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 Librarian's Guide to Citizen Science

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

338 citizen science biodiversity projects (1930-2012)
Estimated in-kind contributions
(1.3-2.3 million citizen science volunteers) up to

How much it worth?

$2.5 billion per year

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Zoom in: Citizen Science in Hungary

9:30 – 9:35

Hungary

Year Joined: 1999

Contact Us

Hungary

About & Contacts

Schools

Trainers

GLOBE Teams

News

Events

Resources

School Locations
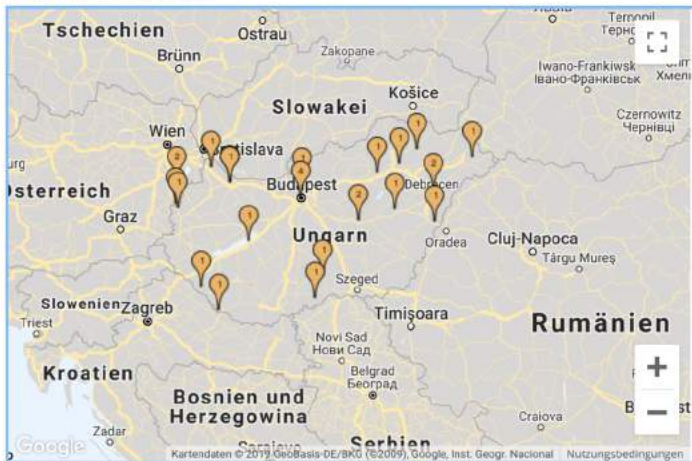
School Search...

29 Schools

Bibó István Gimnázium

Bocskai Istvan Gimnazium, Szakkepz? Iskola es Kollegium

Budai Középiskola Kossuth Lajos Közgazdasági Szakközépiskola

Budai Középiskola Táncsics Mihály Gimnázium

Csokonai Vitéz Mihály Gimnázium

* Not on map, no lat/long

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More >

See GLOBE

Go

Kartendaten © 2019 GeoBasis-DE/BKG (©2009), Google, Inst. Geogr. Nacional   Nutzungsbedingungen

GLOBE

Citizen Science Measurements for Hungary

Total Number of Citizen Scientist Sites: **869**
Total Number of Measurements: **2079**

Click here to view the
most recent data

ONGOING PROJECTS

EU-Citizen.Science

Citizen Science is a rapidly expanding and diversifying field of innovation with significant implications for, and potential benefits too, society, policy,

MORE...

FIT4FOOD2030

Future-proofing the European food systems through Research & Innovation toward #FOOD2030EU.

DYNAVERSITY

DYNAmic seed networks for managing European diVERSITY

MORE...

EKLIPSE

EKLIPSE aims to bring stakeholders together to ensure that decisions that affect the environment are made with the best available knowledge.

MORE...

Definition?

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

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Citizen Science - Areas of Competence

Enhance Scientific Research

Address Societal Needs

Education and networking

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Are you ready?

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9:37 – 9:39

Citizen Science Support

SERVICE READINESS

? People

? Knowledge and methods

? Skills

? Competences

? Tools

? Service design

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Merry work: libraries and citizen science

doi.org/10.1629/uksg.431

CITIZEN SCIENCE AND LIBRARIES: WALTZING TOWARDS A COLLABORATION

by Tiberius Ignat, Darlene Cavalier and Caroline Nickerson

Abstract: The authors of this paper present context and case studies to illuminate several current policies, recommendations, and practices from the United States and Europe in support of libraries seeking to engage with citizen science resources and take encouraging librarians in Europe to leverage existing citizen science resources and take inspiration from successful international examples to make their libraries hubs for citizen science.

Keywords: Citizen Science; Libraries; Collaboration

CITIZEN SCIENCE UND BIBLIOTHEKEN: WALZER TANZEN AUF DEM WEG ZUR ZUSAMMENARBEIT

Zusammenfassung: Die Autor*innen dieses Beitrags präsentieren Kontext- und Fall-studien, um verschiedene aktuelle Strategien, Empfehlungen und Praktiken aus den USA und Europa zur Unterstützung von Bibliotheken zu beleuchten, die sich mit Ci-tizen Science befassen, mit dem Ziel, Bibliothekar*innen in Europa zu ermutigen, die vorhandenen Citizen Science-Ressourcen zu nutzen und sich von erfolgreichen inter-nationalen Beispielen inspirieren zu lassen, um ihre Bibliotheken zu einem Drehkreuz für Citizen Science zu mach

https://doi.org/10.31263/voebm.v72i2.3047

Open Information Science 2018; 2: 1–22

DE GRUYTER

Review Article

Paul Ayris*, Tiberius Ignat

Defining the role of libraries in the Open Science landscape: a reflection on current European practice
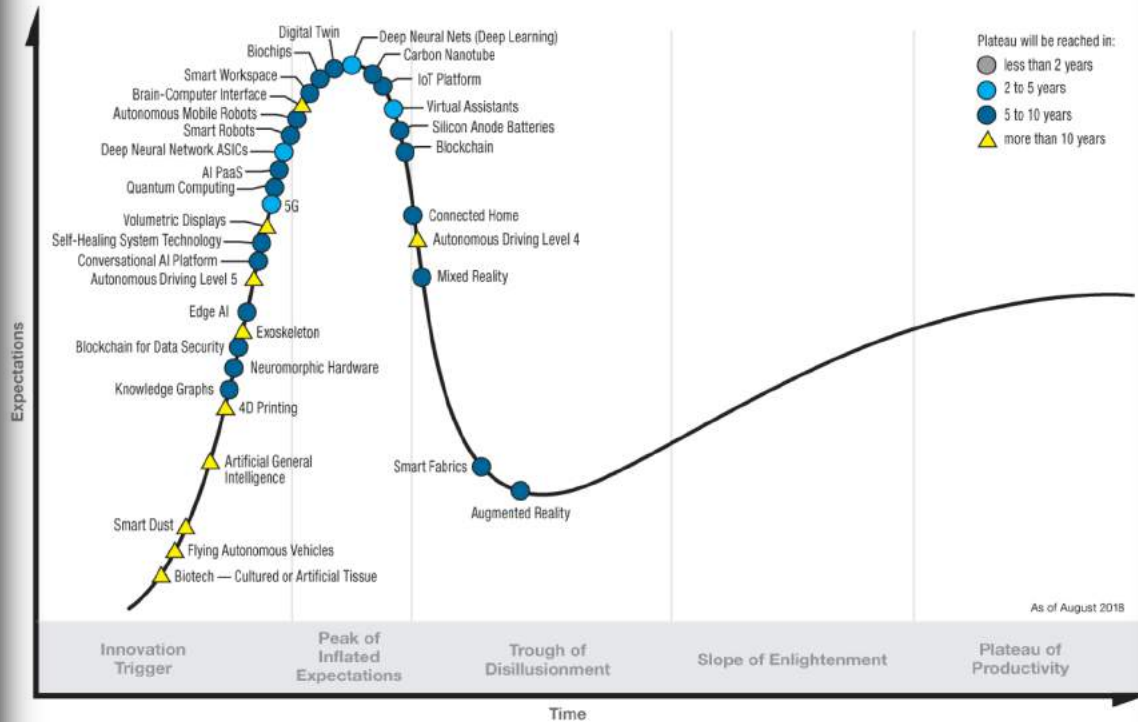
https://doi.org/10.1515/opis-2018-0001
Received October 27, 2017; accepted December 23, 2017

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 tool,

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

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Citizen Science
and
Artificial Intelligence

Hype Cycle for Emerging Technologies, 2018

Source: Gartner (August 2018)
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gartner.com/SmarterWithGartner

Citizen Science? Artificial Intelligence? Both!

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!

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Scientific Knowledge Services

Tiberius Ignat

Managing Director

Scientific Knowledge Services

www.knowledge.services

tiberius@scientificknowledgeservices.com

linkedin.com/in/tiberiusignat

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