Showcases reuse of data

- Trend towards open access data
- The Library supports this: re-use is made easier
- Many pro's and con's
- We show cases of what could happen with your data when you share it

Tessa Pronk,
Data- and informationspecialist,
Utrecht University Library

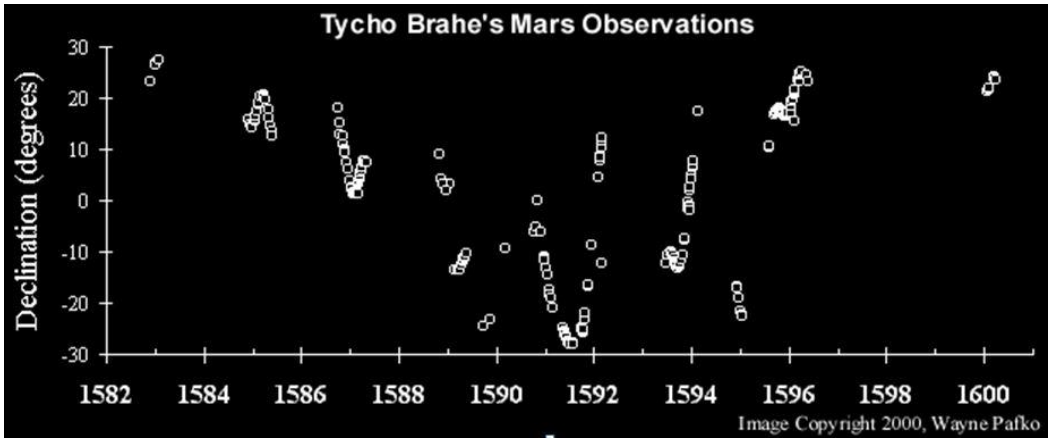
Ways to share your data

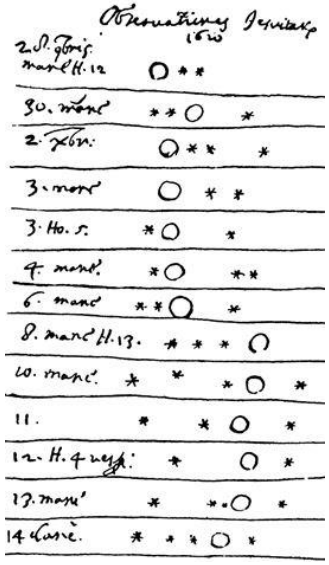
- Sending a file to a colleague
- Online file sharing services with peers (DropBox, SharePoint, …)
- Put your files on your (institutional) web page
- Submit your data to the journal, along with an associated publication
- Preserving the data in data centers or repositories
- Publish your data in a data journal

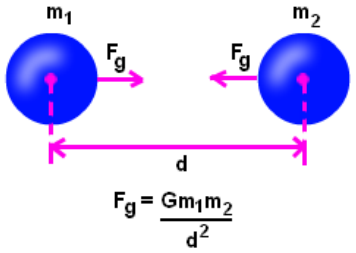
Benefits of data sharing

- Benefits for Society: Revolutionary findings
- Benefits for YOU: co-authorship
- Benefits for YOU: extra citations
- Benefits for YOU: increased impact in more scholarly domains
- Benefits for YOU: openness can give you new information back
- Benefits for fellow researchers: combine data for new insights
- Benefits for fellow researchers: reduce time for fact-finding
- Benefits for fellow researchers: reduce costs for data gathering

Share your data: it could have a revolutionary impact on society





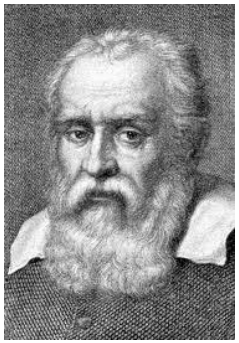


1582–1600: Tycho Brahe collects extensive data on the position of planet Mars.

1605: based on Brahe's data, Johannes Kepler infers three laws of planetary motion.

1610: Galileo publishes observations of the moons of Jupiter: earth may not be the center of the universe.

1687: Newton publishes the law of universal gravitation, based partly on above observations.



Share data on invitation: gain co-authorship

“Our discovery sample comprised 17 cohorts of European ancestry from whom genome-wide SNPs and structural MRI data were collected”

nature genetics

560 VOLUME 44 | NUMBER 5 | MAY 2012 Nature Genetics

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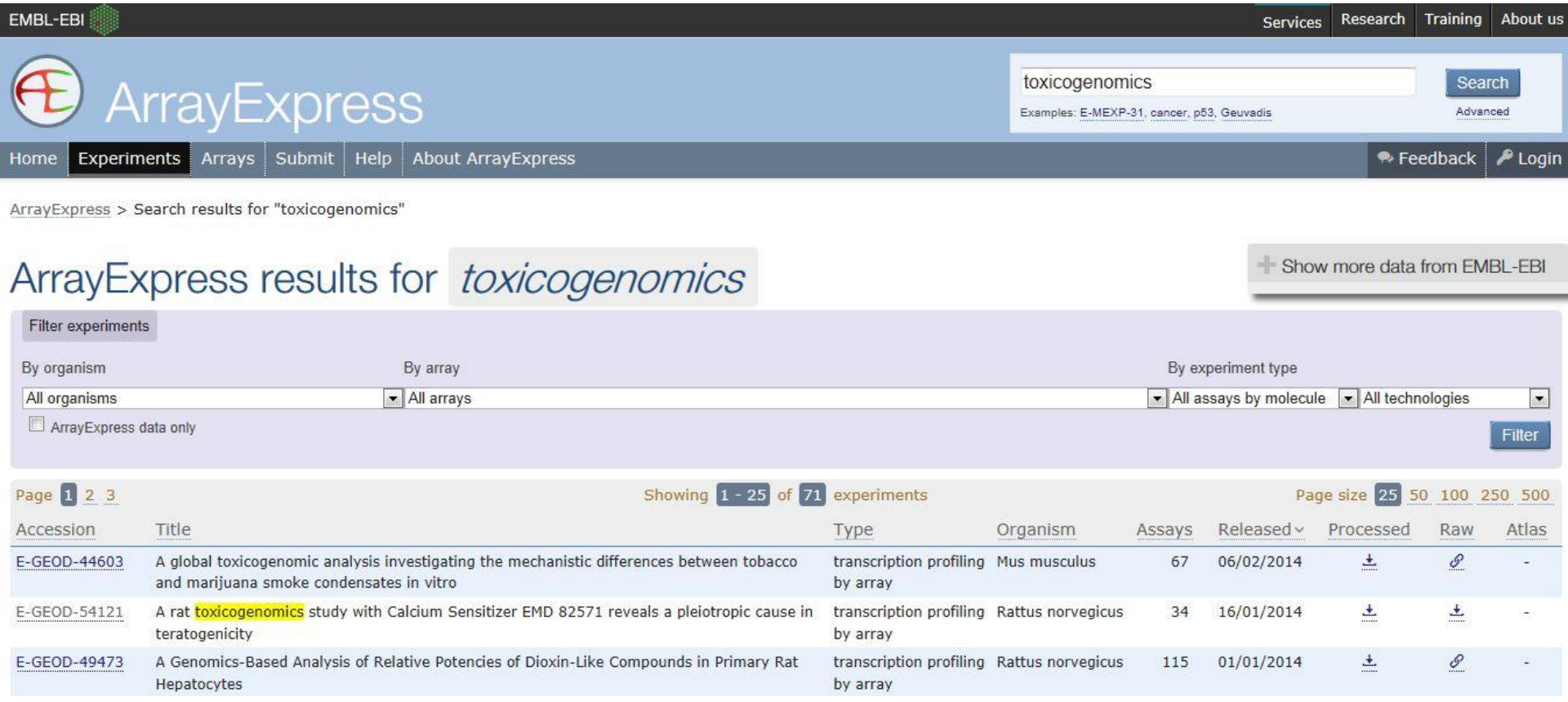
Share your data: get a citation benefit

- Piwowar and Vision (2013) collected citation information on 10,555 studies that described wet-lab methods related to microarray gene expression data collection either
  - With data deposited in GEO or ArrayExpress
  - Without data deposited there
- Correct for factors of known citation predictors

Citations were 9% higher for papers with available data, independent of other variables

Piwowar and Vision (2013): Data reuse and the open data citation advantage, PeerJ 1:e175; DOI 10.7717/peerj.175



Piwowar & Vision, Peer J. 2013

An estimated 20% of datasets deposited (2003-2007) in GEO or ArrayExpress were reused at least once by others.

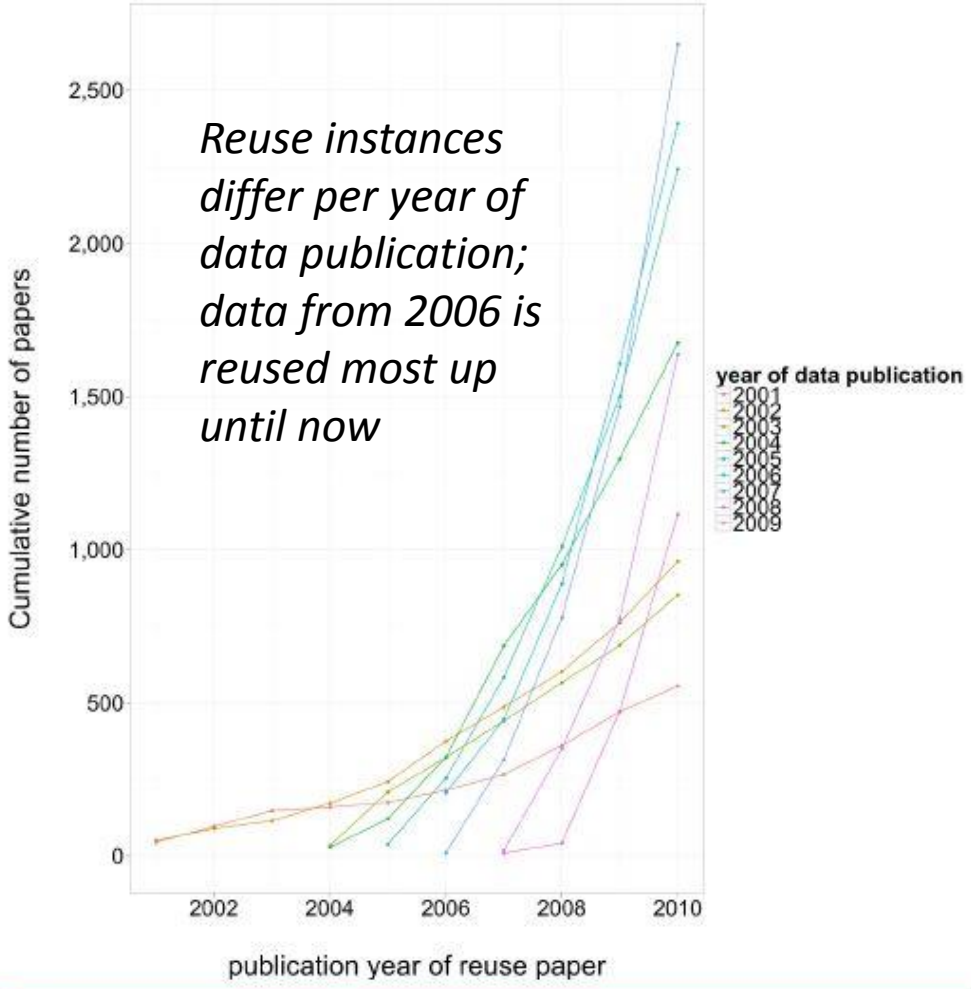


Figure 5 **Cumulative number of third-party reuse papers, by date of reuse paper publication.** Separate lines are displayed for different dataset submission years.

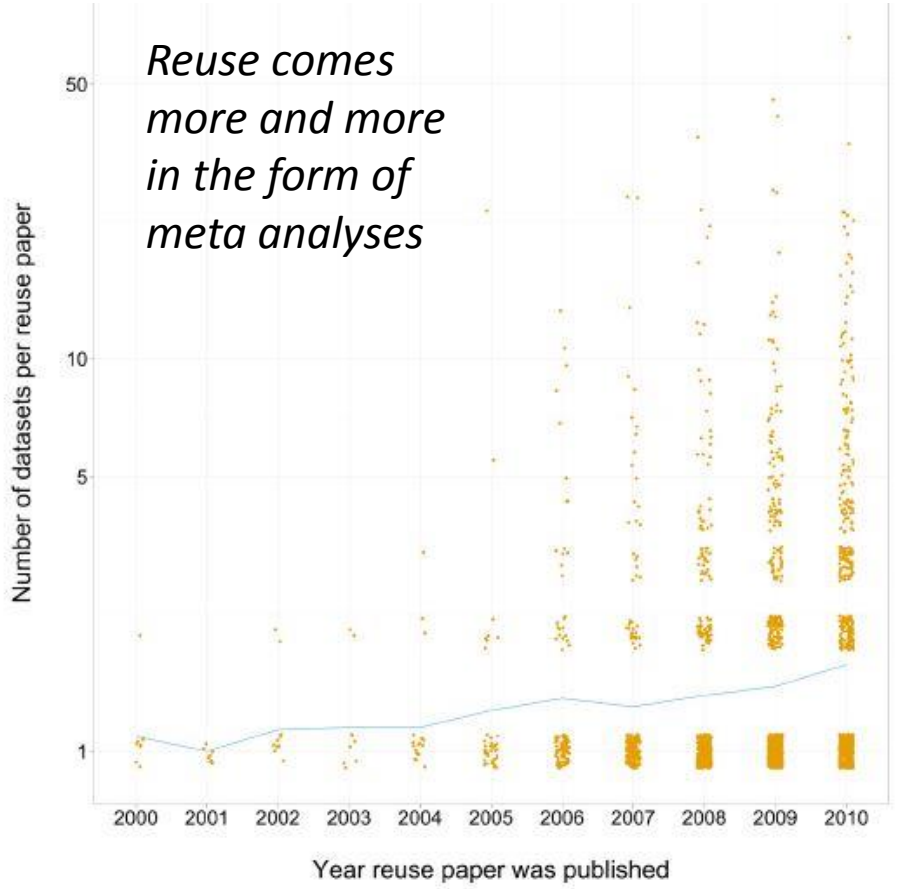


Figure 6 **Scatterplot of year of publication of third-party reuse paper (with jitter) vs number of GEO datasets mentioned in the paper (log scale).** The line connects the mean number of datasets attributed in reuse papers vs publication year.

Share your data: get information back

Astronomy: Sloan Digital Sky Survey data used by citizens (crowd sourcing)

Beyond the community of several thousand professional astronomers, many thousand more of inquiring minds in the public will be able to troll the databases too.

A prototype for this is the Galaxy Zoo project where people do galaxy classification from the Sloan Digital Sky Survey.

In 2007 by Dutch high-school teacher Hanny van Arkel, while participating in the online **Galaxy Zoo** project discovered an uncanny green blob near an active galaxy. Called **Hanny's Voorwerp** ("Hanny's Object" in Dutch) it appears to have been caught in **a black hole beam and energized to glow in oxygen**.

http://news.discovery.com

Image credits: ESO, NSF, NASA

Share your data: get more impact and increase your reach

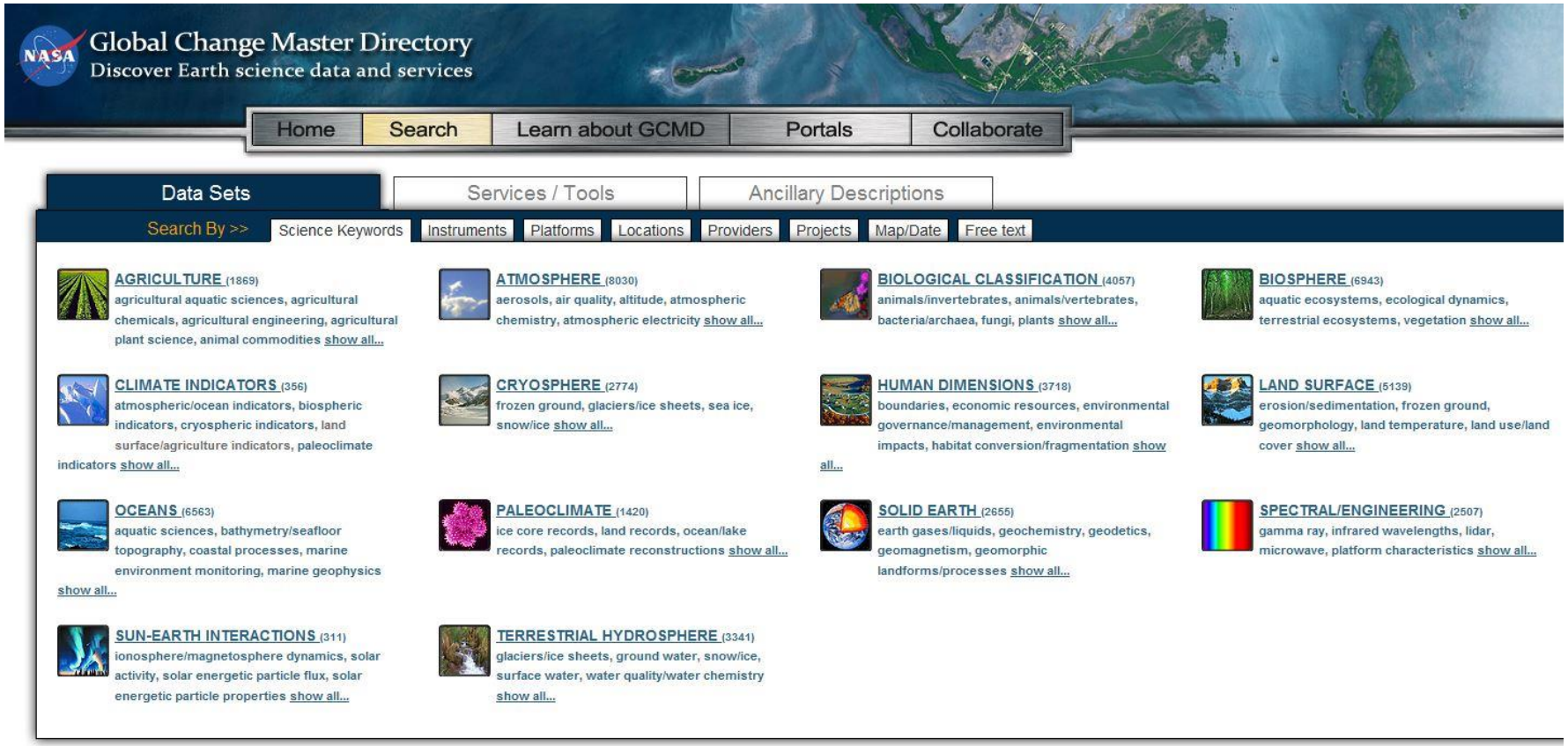
Datasets might have a reach or impact across several scholarly domains

- Chao (2011) derived 6402 datasets from the 'Atmosphere' dataset collection at NASA's Global Change Master Directory (GCMD).
- Followed the citation of directly associated papers and their secondary papers, correcting for citing bias by H-index
- Administrated the scholarly domain of citing papers.

Approximately 59% of datasets had an H-index > '1'.

There was a diversification in scholarly domains in citations of secondary papers.

Chao (2011): ASIST 2011, October 9–13, 2011, New Orleans, LA, USA.

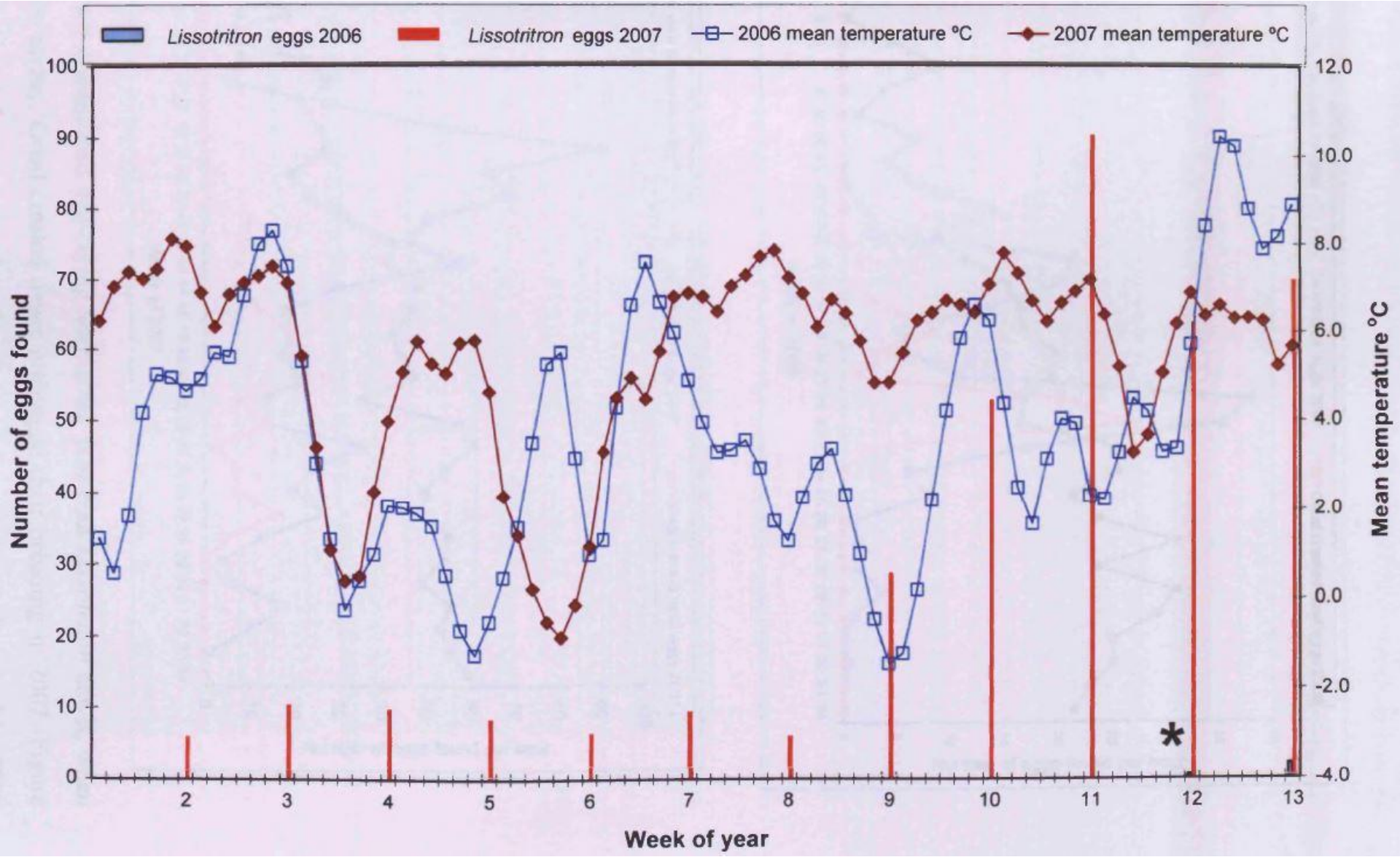


Share data: enable combining data for new insights

BADC weather data for Biologist studying newts

A scientist studying amphibians Kerry Murton from Cardiff University's Llysdinam Field Centre has been investigating the **affect of climate change** on **the timing of events in the lifecycle of newts**.

Kerry is using data from the British Atmospheric Data Centre (BADC) to get the UK's Meteorological Office rainfall and temperature data for her local weather station which was established at Llysdinam, mid Wales, in 1988. The weather data will be matched to the records of newly metamorphosed juvenile newts.



"It was likely the higher temperatures in late 2006 and early 2007 led to significantly earlier egg-laying by Lissotriton newts in 2007 breeding season."

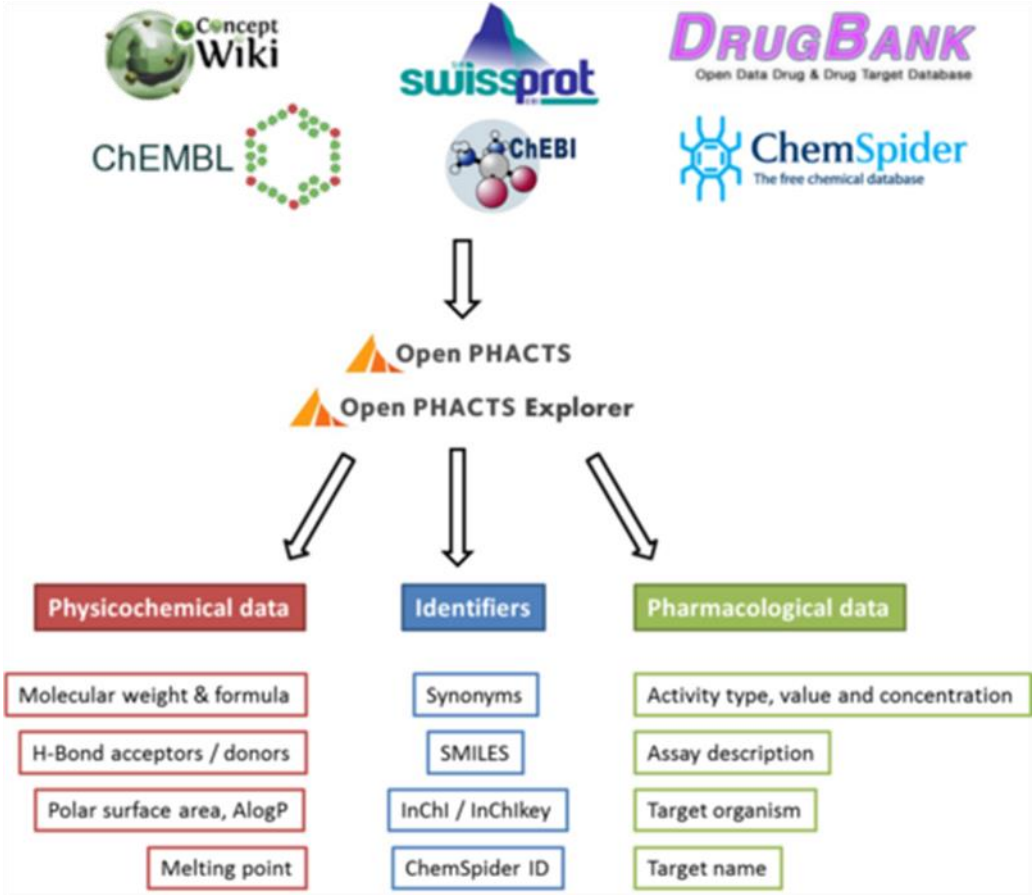
Share data and enable your colleagues

Data is more and more available, but it is distributed.

Year	Molecular biology databases in NAR
2014	1552
2011	1330
2007	968

Example question for pharmacologists:

Give all oxidoreductase inhibitors with an activity < 100nM in both human and mouse



Platform **draws together** and **generates links** between **variably-sourced data** so that industry, academia and small businesses can concentrate on drug discovery.

Politicology

http://politicalmashup.nl/

PoliticalMashup

- **Goal :** Enabling digital searches of large amounts of political data: programs, newspapers, activities in the parliament, weblogs of politicians or politically interested persons → semantic searching
- **By** : Politicologists, historians, computer linguists.
- **Products** :
  - Format to code reports from parliament;
  - General 'linked dataset';
  - Tools to facilitate longitudinal studies of parliamentary data;
  - Case studies

Nederlandse dataprijs 2012
Digging into data prijs

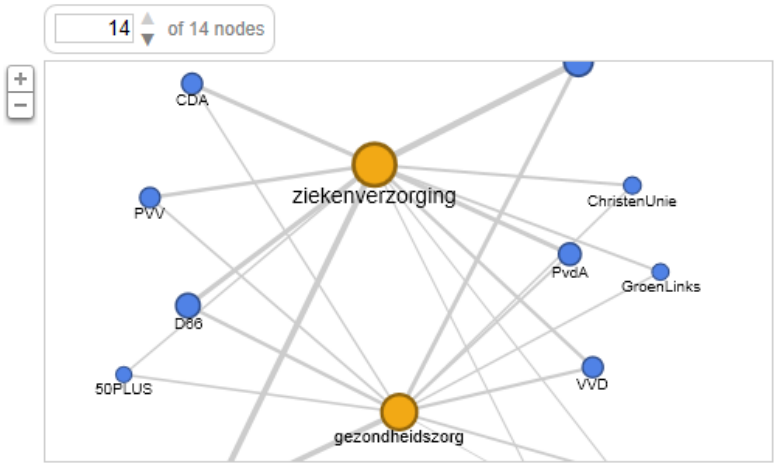
Case 1 : Themes in de parliament

Plus Magazine wanted to know ‘who says what’ in the parliament on the subjects that are important for senior citizens. (parliamentary year 2012 – 2013)

Resultaten

De ranglijstjes voor de bewindslieden en de parlementariers. (Worden openbaar gemaakt in December 2013).

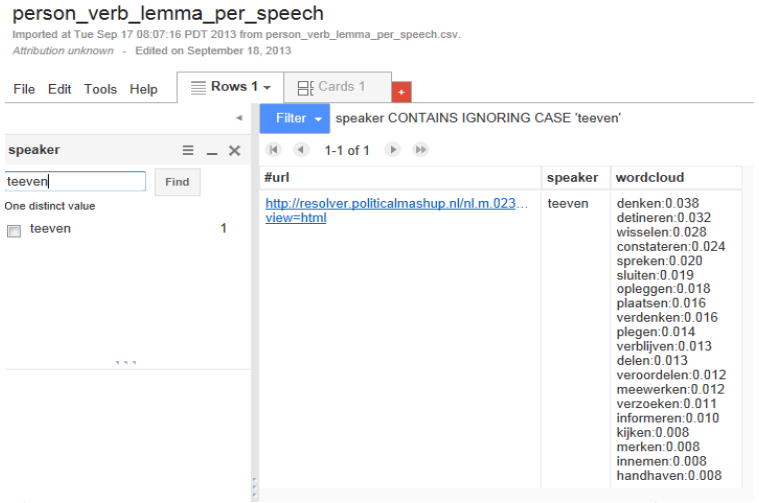
In onderstaand netwerk laten we het verband tussen de partijen en 2 gezondheidsthemas zien: hoe dikker een verbinding , hoe meer die partij met dat thema heeft. Ook de grootte van partij-knoop is proportioneel aan het aantal “hits” over de twee onderwerpen. De knoop zonder label bevat de kabinetsleden.



Data: from 4523 speaches 1000 were on relevant subjects. Texts are available for anyone to download and analyse.

Case 2 : Typical vocabulary

Together with ‘Vrij Nederland’, PoliticalMashup determined for each member from the parliament of Rutte II the most characteristic words.



Share data: Share to the community

Linguistics

DOBES
DOCUMENTATION OF ENDANGERED LANGUAGES

The DOBES Archive (part of The Language Archive, Max Planck Institute for Psycholinguistics, Nijmegen)

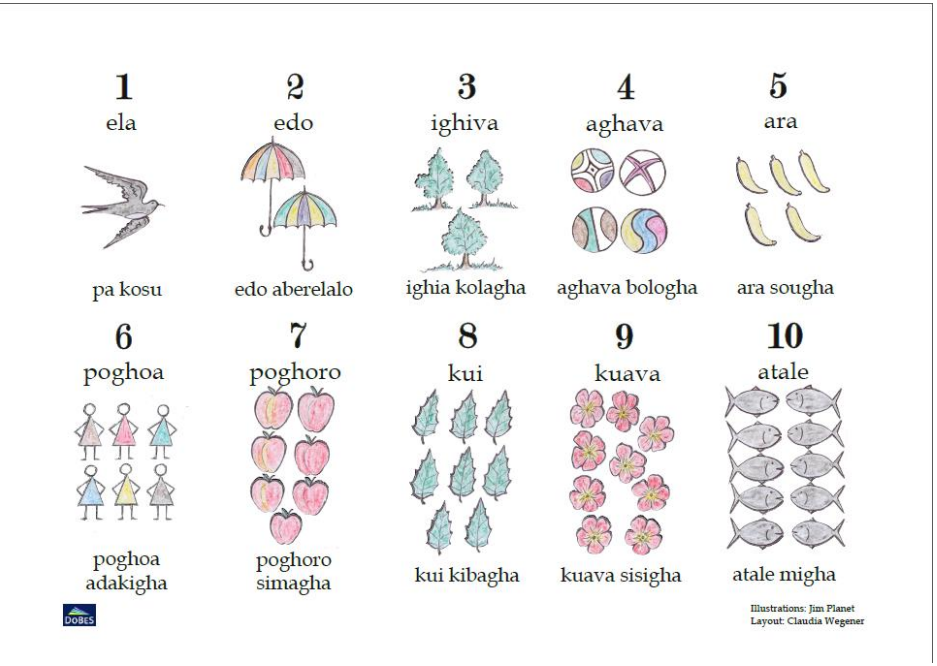
“language documentation data from a great variety of languages from around the world that are in danger of becoming extinct”

Utilization in education and community

Research Portal : overview of ‘studies’ on data, grammar, tools, and entry points for disciplines (anthropologists, language typologists, musicologists, etc.)

General Interest Portal :
- Information for journalists (press area)
- Teaching material (teachers’ portal)
- Community Members’ Portal

Recording for the community



NWO teaching package

Archeology

e-depot Nederlandse archeologie
EDNA

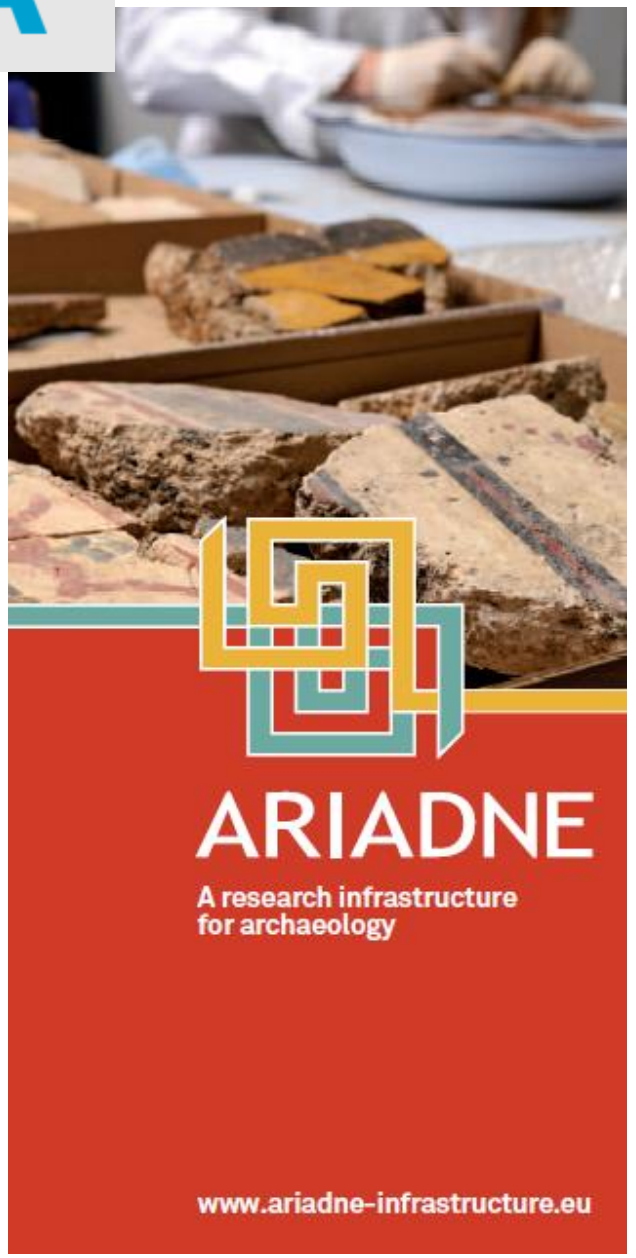
e-depot voor de Nederlandse archeologie

Longterm preservation of digital archaeological information
Make your data safe and reliable, so others can build on your knowledge.

Ga direct naar

Deze grotschilderingen zijn na 30.000 jaar nog toegankelijk en leesbaar. In de huidige digitale archeologie ligt dat een stuk moeilijker. De digitale gegevens die we nu massaal vastleggen, zijn nu wel leesbaar, maar dit geldt ook nog op de lange termijn? Is een database over vijftien jaar nog te openen, wie weet dan nog wat de variabelen of codes betekenen of kunnen we de foto's nog zichtbaar maken op een beeldscherm?

EDNA
Het elektronisch depot voor de Nederlandse archeologie (EDNA) houdt zich bezig met deze vragen en beheert de digitale onderzoeksbestanden van de Nederlandse archeologen. Dit zijn bestanden met primaire archeologische gegevens van opgravingen, regionale verkenningen en materiaalstudies. Het e-depot zorgt voor de duurzame archivering en toegankelijkheid, zodat toekomstige onderzoekers de gegevens niet opnieuw hoeven te verzamelen of digitaliseren.



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Thanks to:

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Measuring impact of a dataset through its associated publications

Via corresponding subject area based on categories (established by Scopus) Chao (2011) noticed a diversification of subjects of impact, when excluding the top 10 journals. This expansion suggests that the earth science datasets have a reach or impact across several scholarly domains.

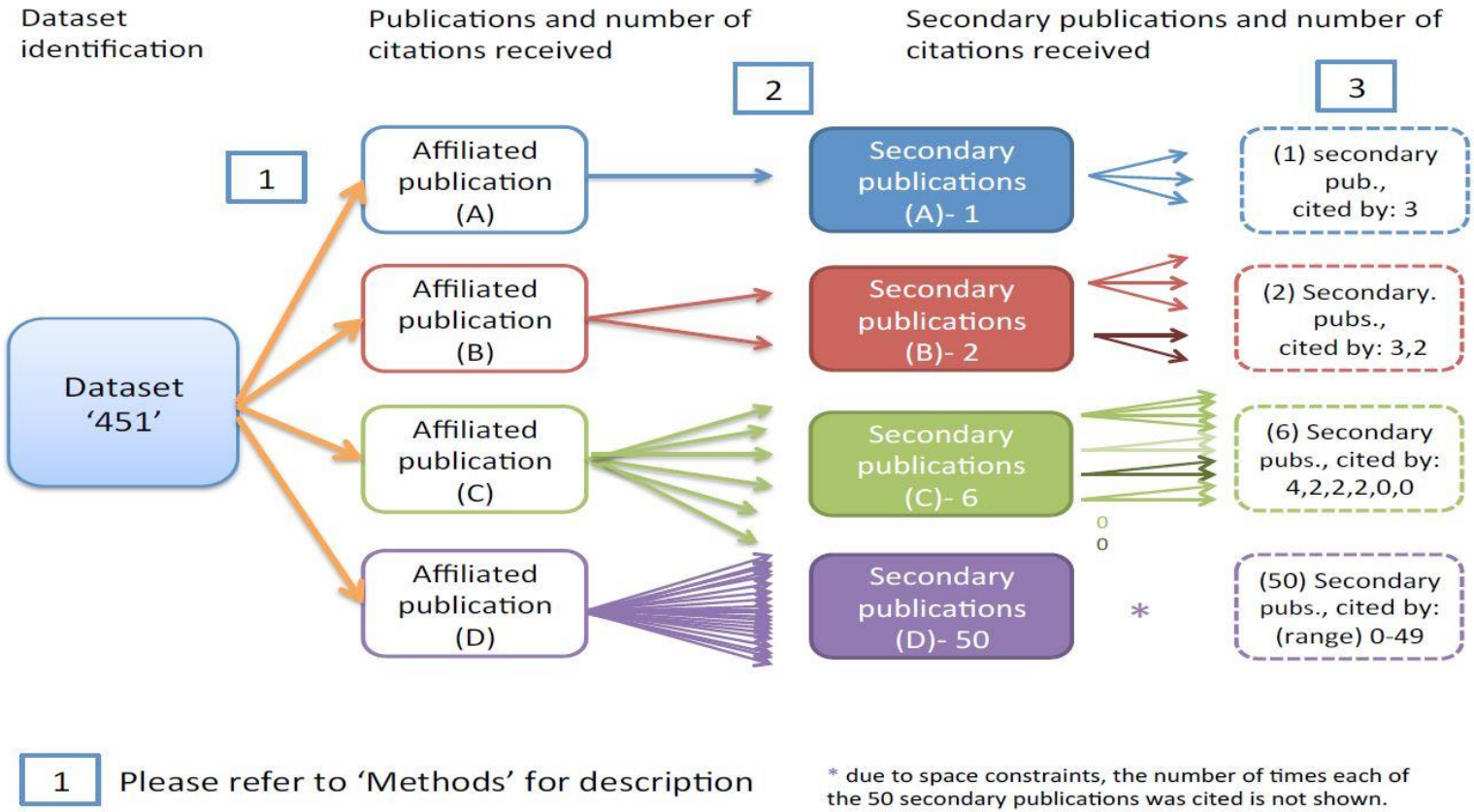

Figure 1. Overview of the data collection process through example dataset 451