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Unlocking Science: Bridging the Gap with Open Access and Lay Summaries

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Session overview

WORKSHOP

What is the Collaborative Library?

What a good lay summary should include?

Why publish a lay summary on the Collaborative library?

Who are we?

Jacob Maspero Bottaio, GMBPsS, Expert by Experience & Research-Informed Trauma Advocate, WM of The Collaborative Library

Dr Anthony Harrison, Principal Clinical Psychologist, Bradford District Care NHS Foundation Trust, Director of The Collaborative Library

Dr Anja Harrison, Lecturer, King's College London, CEO The Collaborative Library

What is open access?

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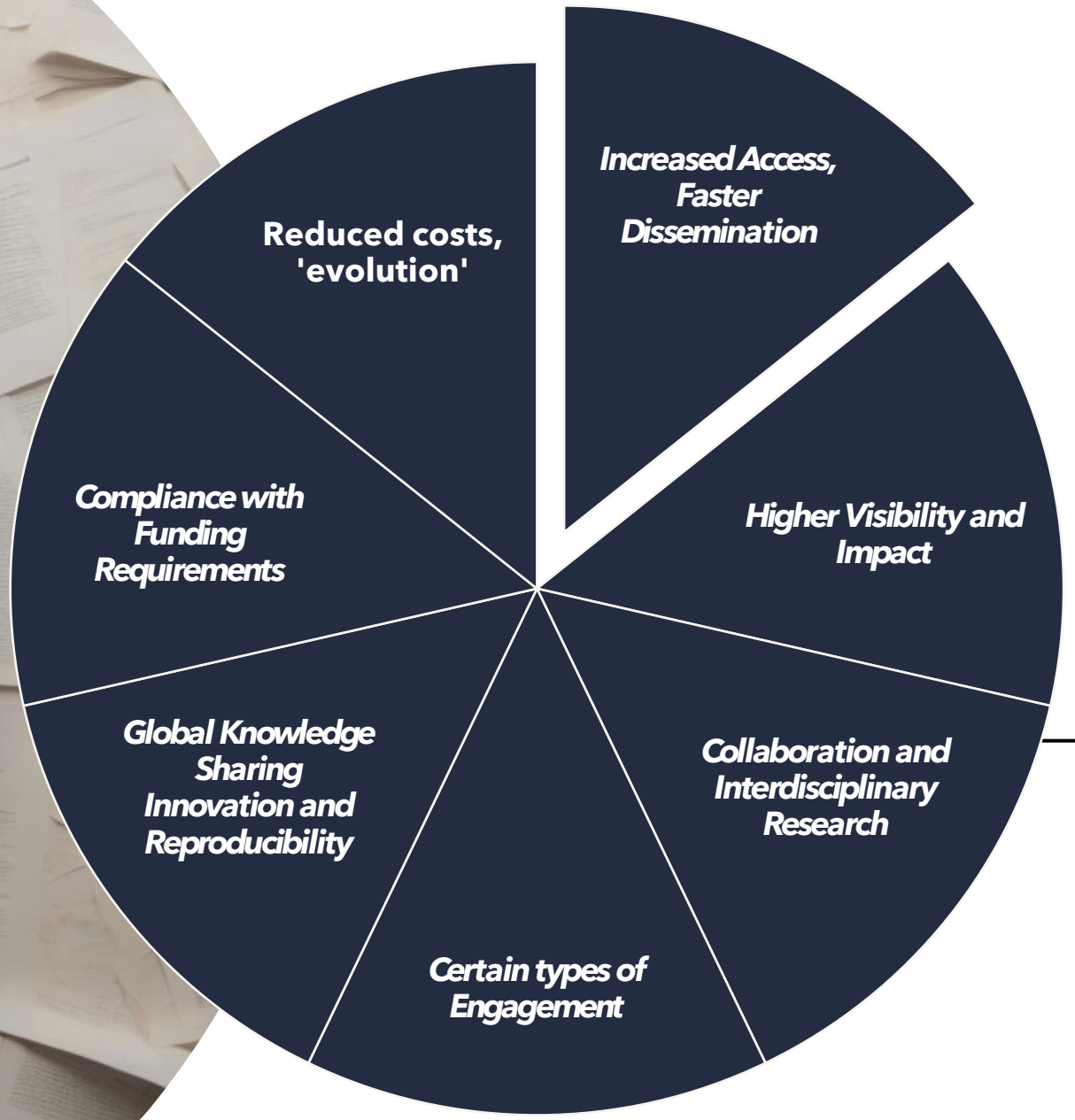
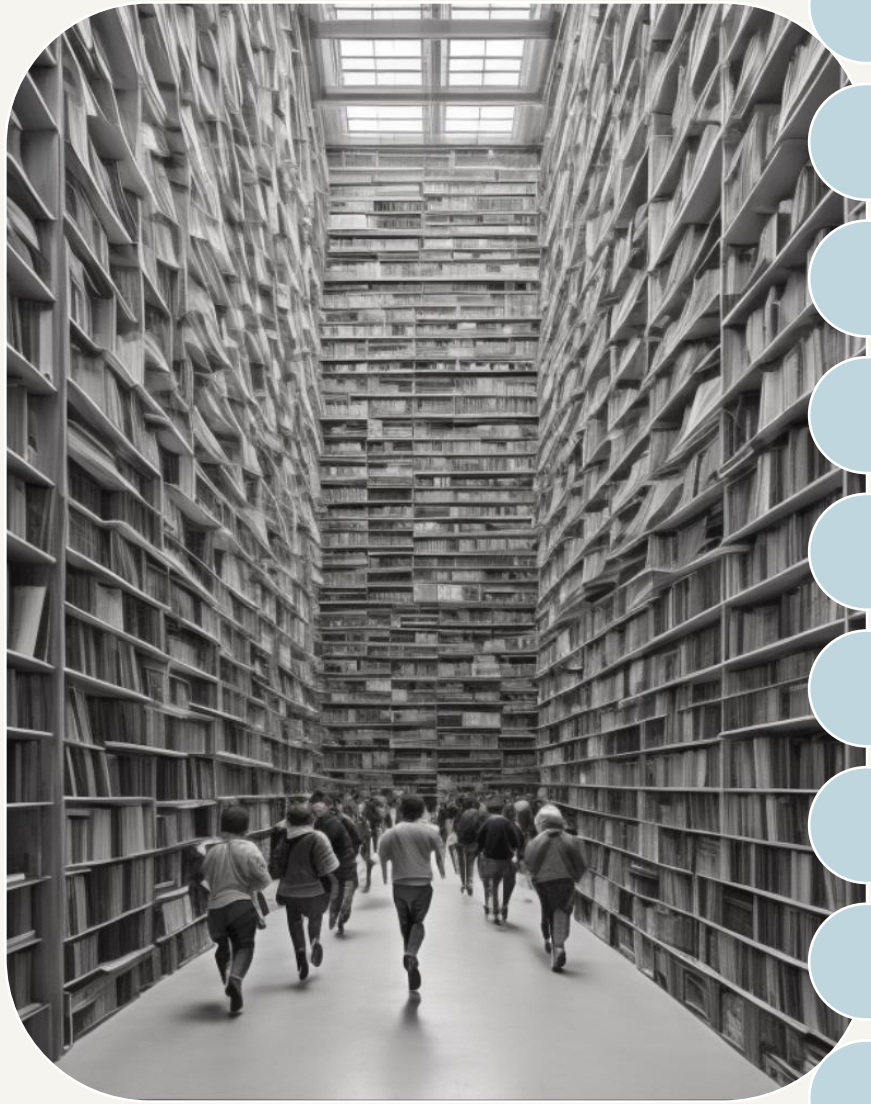


Why is open access so important?

Open access movements



- ***Budapest Open Access Initiative***
- ***Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities***
- ***Public Library of Science (PLOS)***
- ***Creative Commons (CC)***
- ***Directory of Open Access Journals (DOAJ)***
- ***Plan S***
- ***SCOAP3 (Sponsoring Consortium for Open Access Publishing in Particle Physics)***
- ***OpenAIRE.***
- ***Unpaywall***

Open access movements

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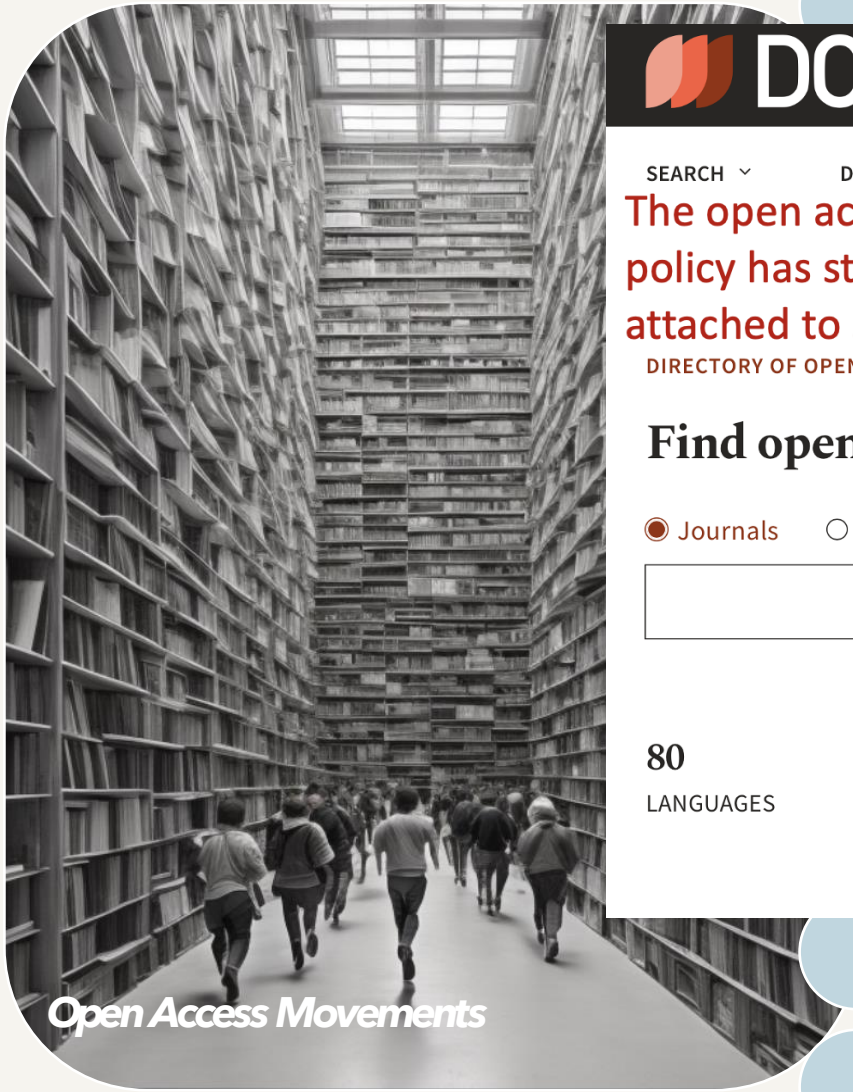


Budapest Open Access Initiative

DOAJ OPEN GLOBAL TRUSTED

SUPPORT APPLY SEARCH

SEARCH DOCUMENTATION ABOUT LOGIN

The open access movement is thriving since the UKRI open access policy has started requesting for creative commons licenses to be attached to scientific publications.

DIRECTORY OF OPEN ACCESS JOURNALS

Find open access journals & articles.

Journals Articles

In all fields SEARCH

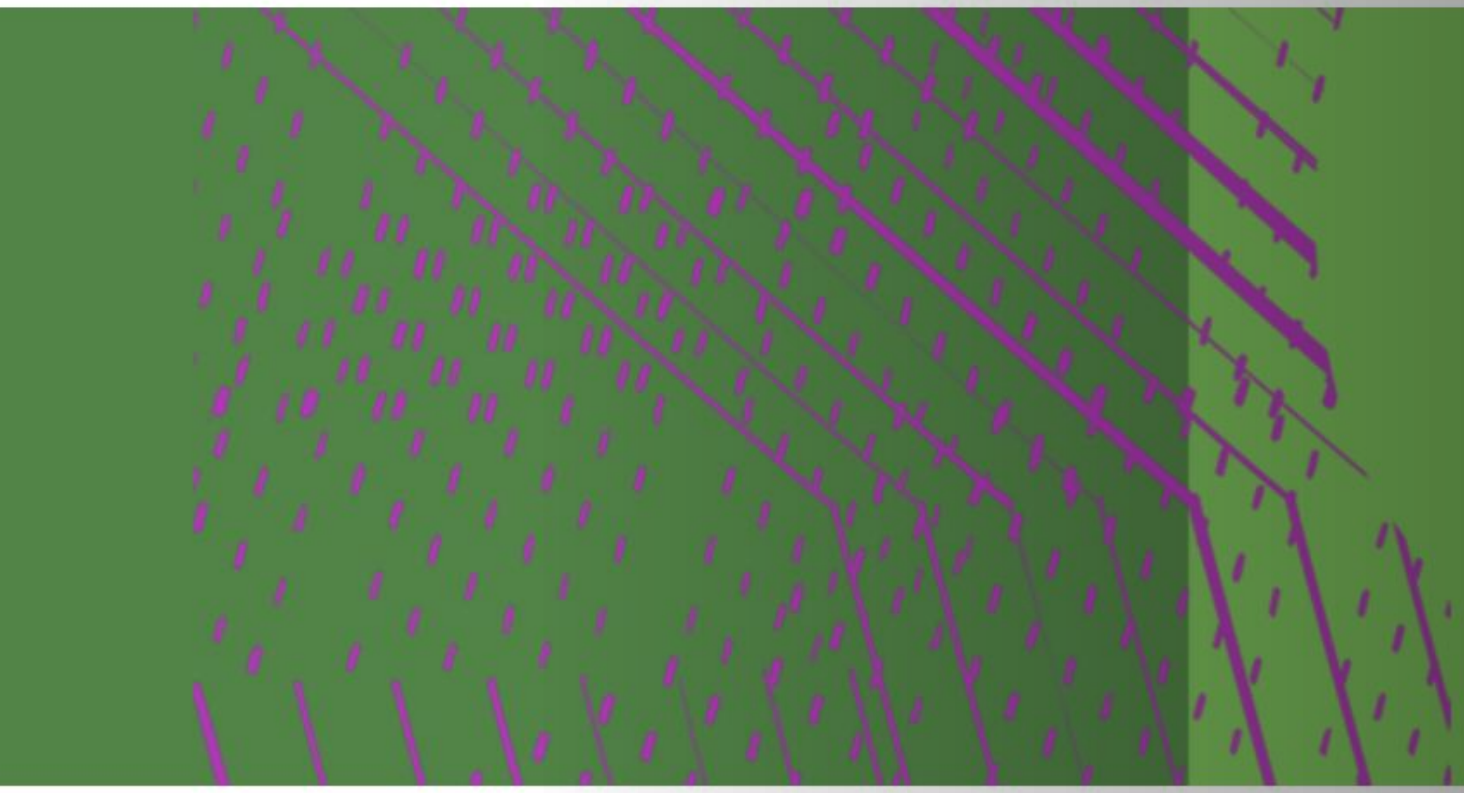
80	132	13,016	18,945	8,569,083
LANGUAGES	COUNTRIES REPRESENTED	JOURNALS WITHOUT APCs	JOURNALS	ARTICLE RECORDS

OpenAIRE.

Unpaywall

Quick poll- How many would you have been able to lists?

all
a handful
a couple
one
none



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Policy

UKRI open access policy

What different routes of open access are there?

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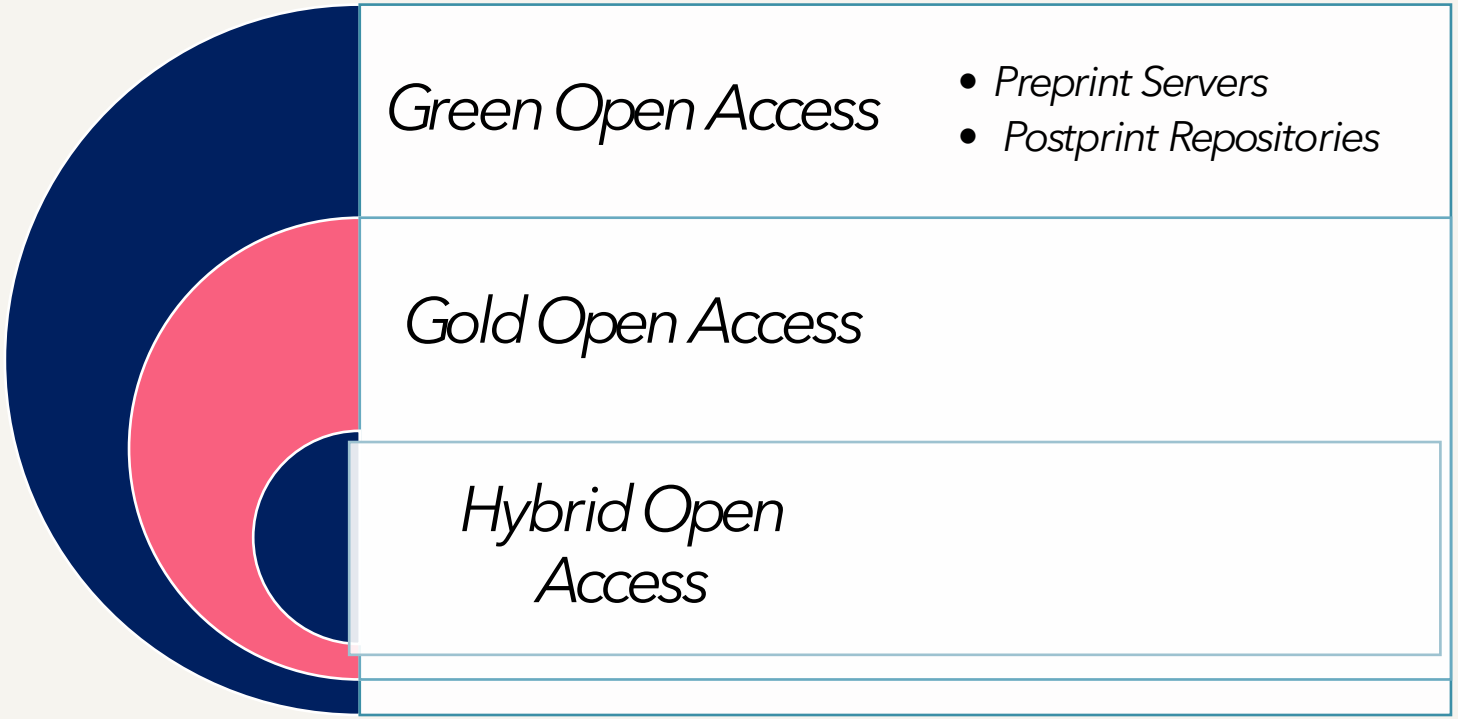

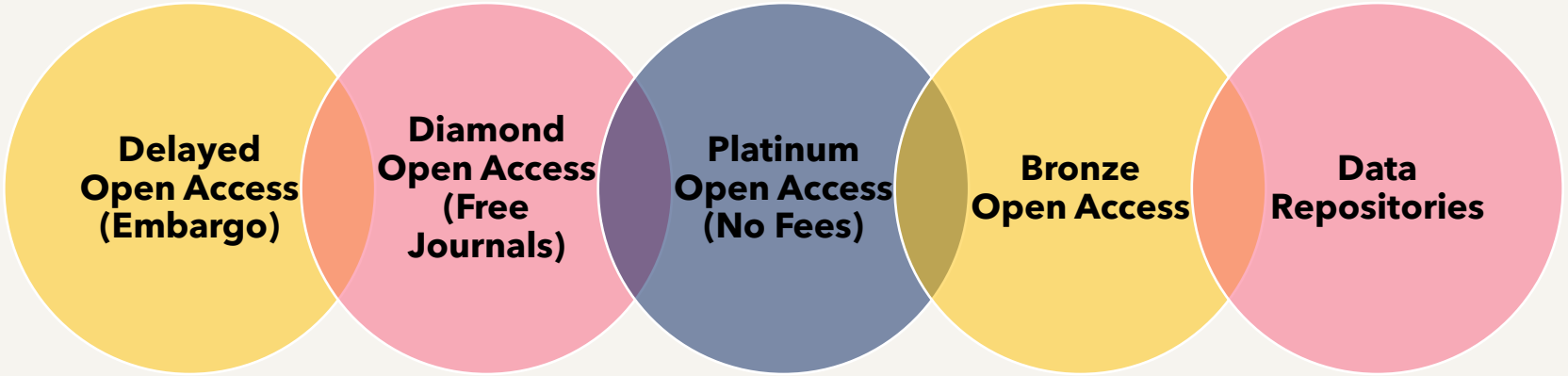

Good publishing practices

- Institutional Repositories
- Kudos
- Social Media and Online Science Communication
- Public Engagement and Citizen Science
- Altmetrics and Impact Tracking
- Open Peer Review and Preprints
- Collaboration with Libraries and Information Professionals
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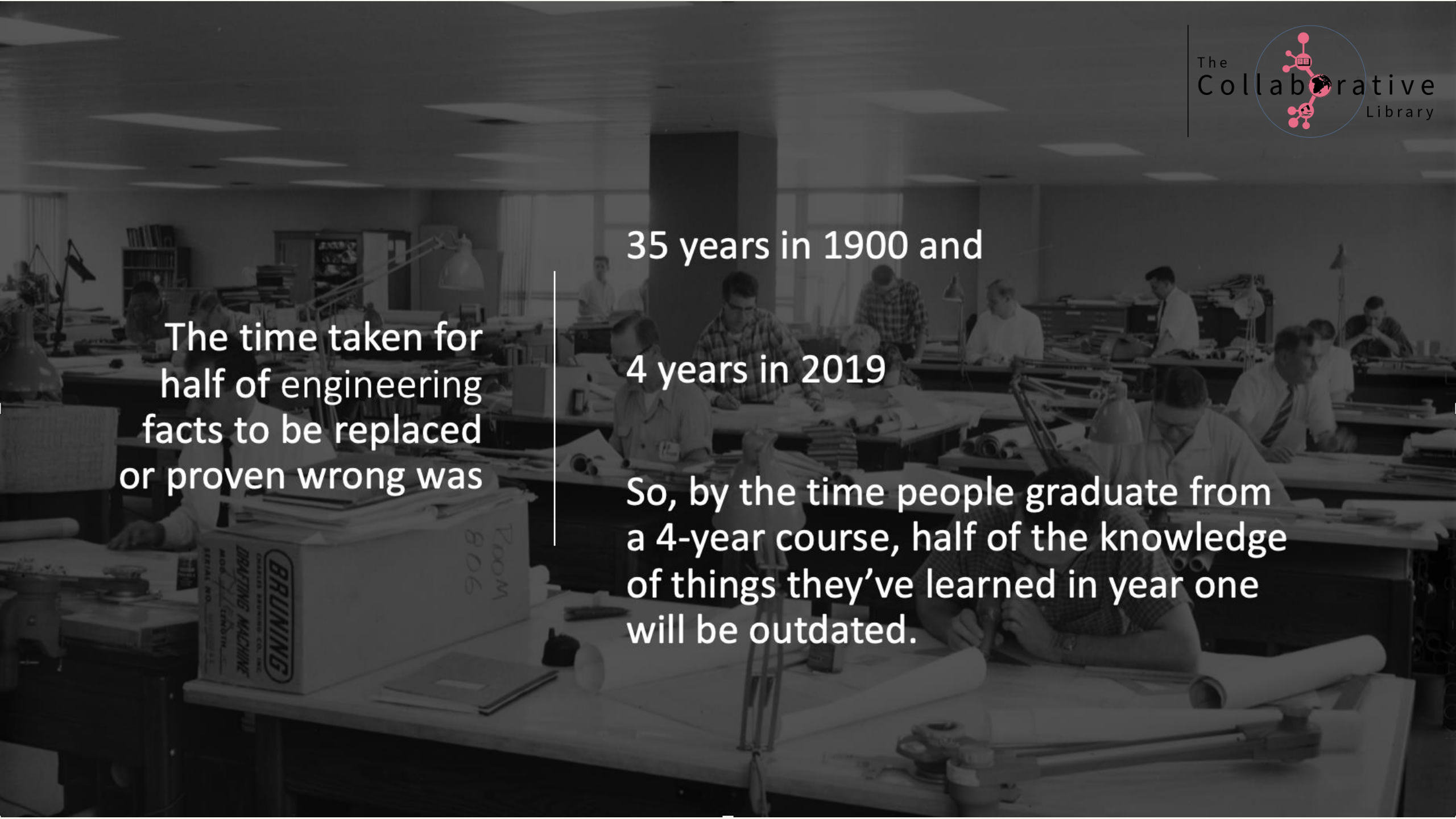
Research shows it would take an individual general practitioner (GP) doctor around 628 hours a month (!) to keep up to date with general practice research articles alone.

The burden of science



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The time taken for half of engineering facts to be replaced or proven wrong was

35 years in 1900 and

4 years in 2019

So, by the time people graduate from a 4-year course, half of the knowledge of things they've learned in year one will be outdated.

Quick poll- How many articles do you read per week?

7+

5

1

I have no time for reading

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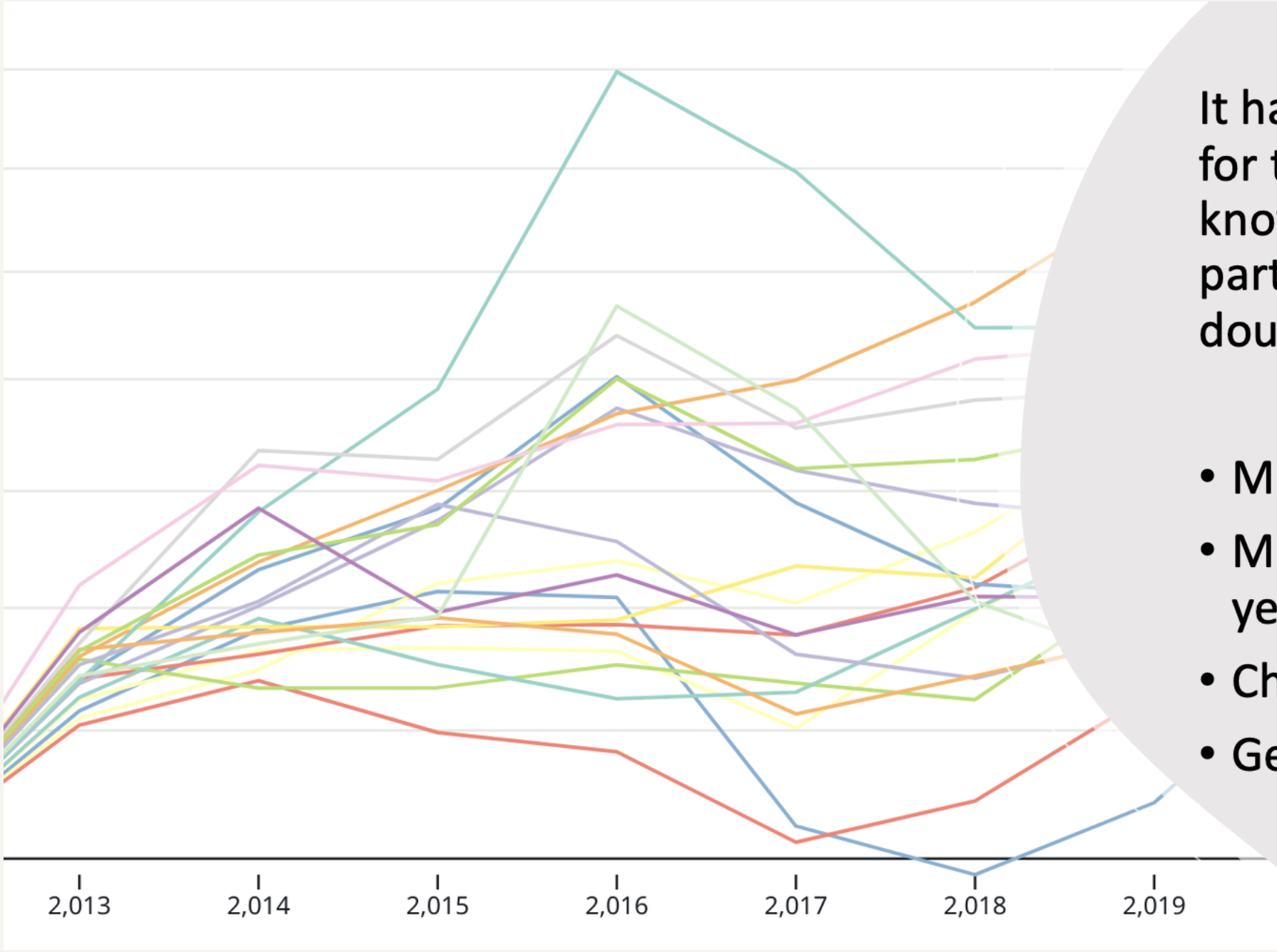

It has been estimated for the available knowledge in a particular field to double in

- Medicine: 87 years
- Mathematics: 63 years
- Chemistry: 35 years
- Genetics: 32 years

How to tackle this problem?

- Set Clear Goals and Priorities
- Use Online Databases and Alerts
- Follow Key Journals and Researchers
- Use RSS Feeds
- Join Research Networks and Forums
- Utilize Reference Management Software
- Attend Conferences and Workshops
- Read Review Articles and Meta-Analyses
- Use Social Media and Science Blogs
- Allocate Regular Time Slots for Reading
- Collaborate and Share with Colleagues
- Practice Critical Reading

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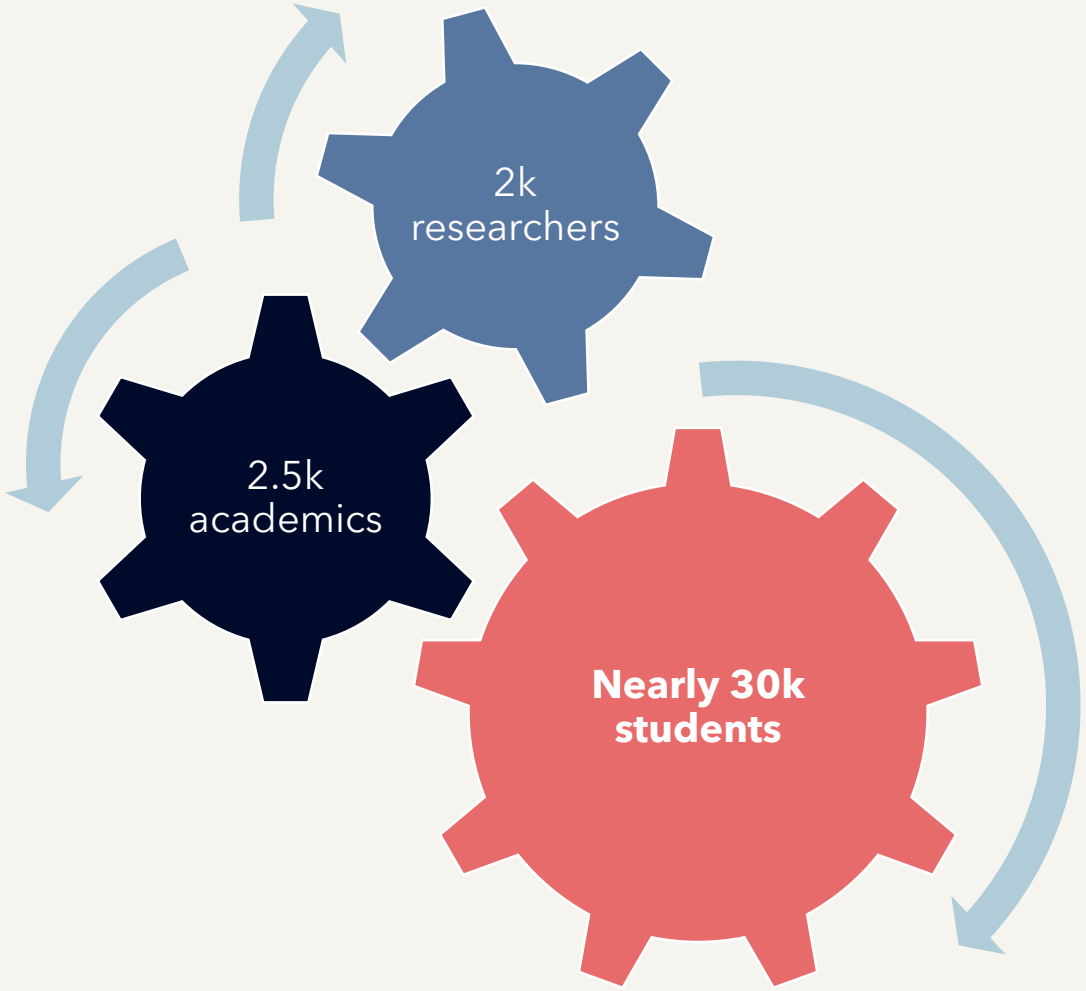
Still feels unmanageable?

LAY SUMMARIES

King's College London- an example



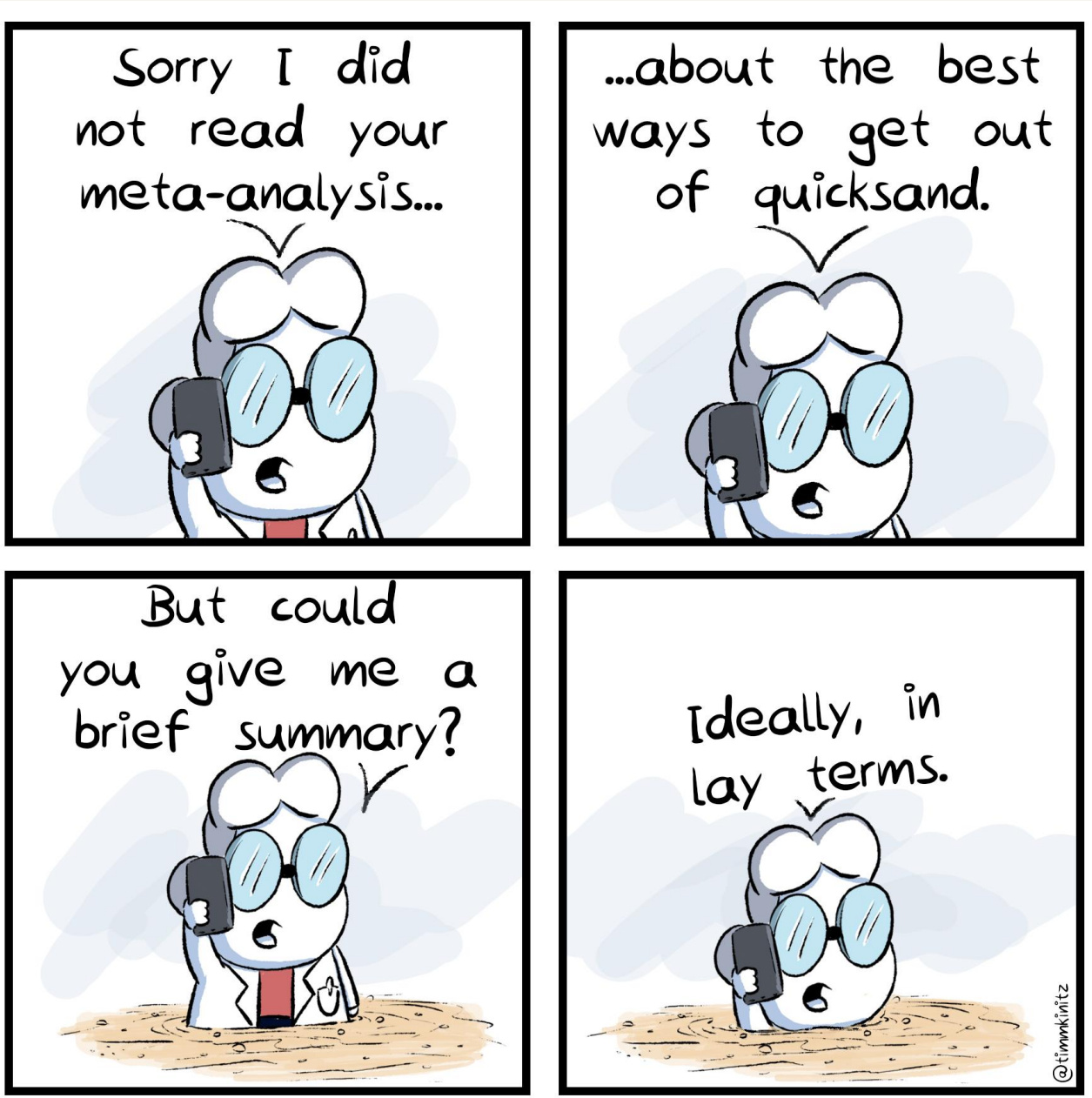
180k total amount of research outputs

- 5 years

TEAMING UP

- Universities
- Healthcare trusts
- Specialist societies
- Charities
- Industry

The significance of lay summaries

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Using lay summaries to influence policy

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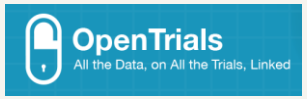
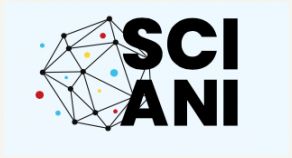
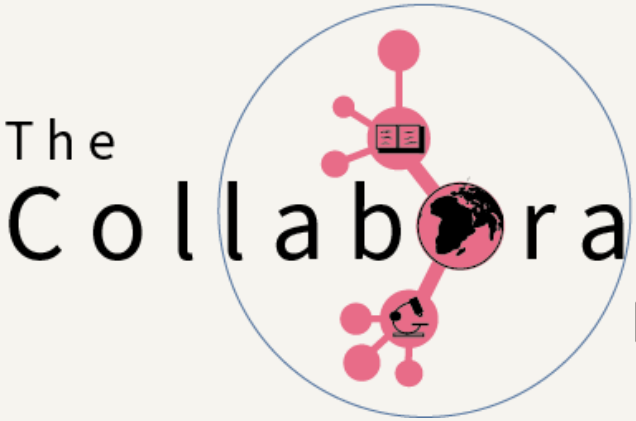
- ***Accessible Communication***
- ***Evidence-Based Insights***
- ***Highlighting Relevance to Real-World Issues.***
- ***Time Efficiency***
- ***Engagement and Interest***
- ***Advocacy Efforts***
- ***Informed Decision-Making***
- ***Broadening Public Support.***
- ***Catalyzing Dialogue***
- ***Facilitating Collaboration Bridge between Research and Action***

There are a few platforms already out there….







- We **share profits** at no cost
- Includes **free study quality guides and educational materials**
- **Inclusivity and diversity**, all disciplines

✓Enhance your practice
✓Signpost your service users to a reputable website your practice, and
✓Produce valuable research outputs
✓generate scholarships/ grants at the

*once profitable, see T&Cs

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Enable yourself and others to critically assess

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How to create a lay summary -a brief taster tutorial-

For more detail check www.thecollaborativelibrary.com

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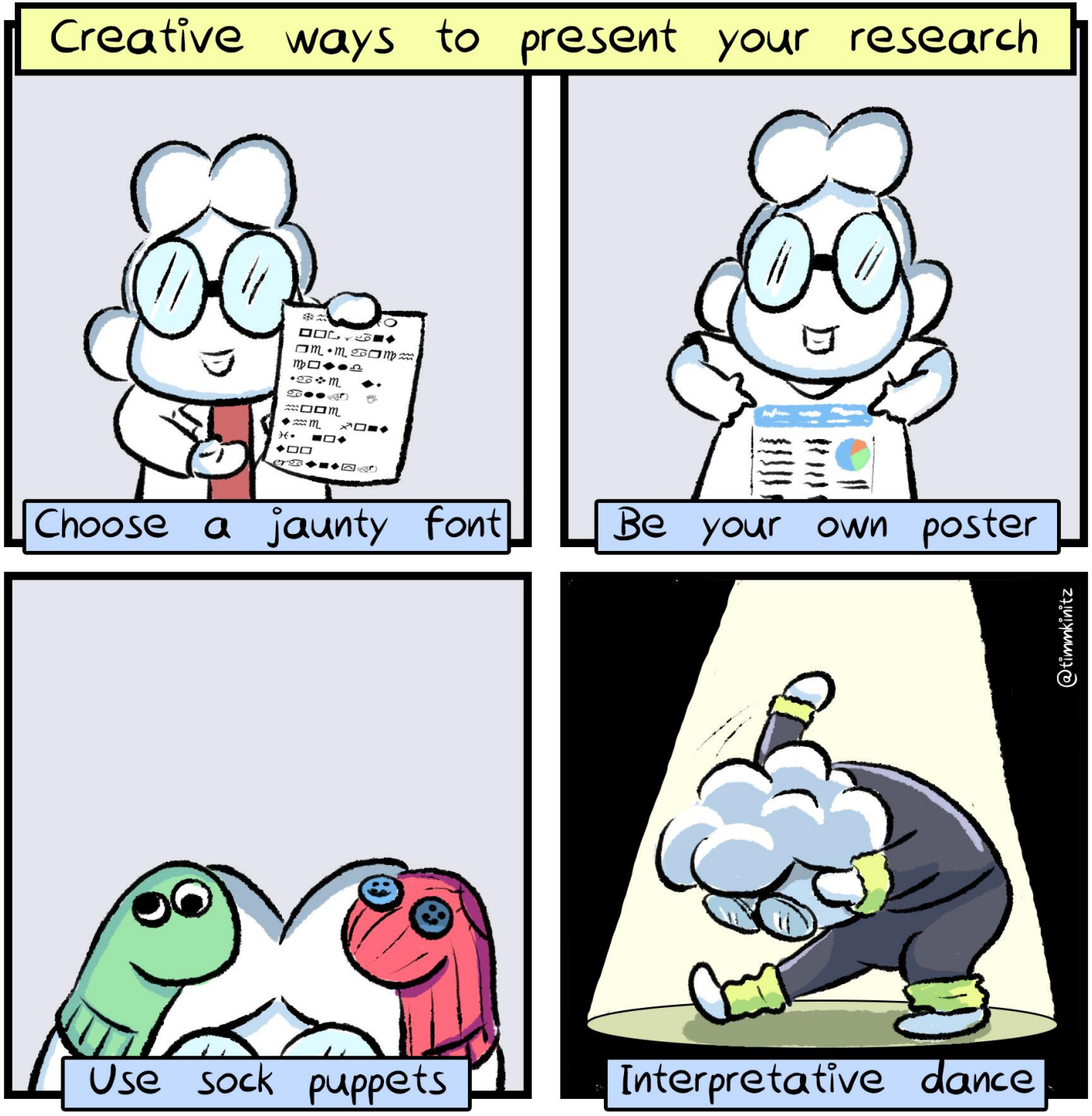
Step by step



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Quick poll- Which of the following terms is 'lay language'?

Cognitive behavioural

Neuron

ketamine

Chemical

Quick poll- Which of the following terms is 'lay language'?

Placebo
Symptom
Analysis
Evaluation

frontiers in
BEHAVIORAL NEUROSCIENCE

REVIEW ARTICLE
published: 17 January 2014
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Identification and optogenetic manipulation of memory engrams in the hippocampus

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With the accumulation of our knowledge about how memories are formed, consolidated, retrieved, and updated, neuroscience is now reaching a point where discrete memories can be identified and manipulated at rapid timescales. Here, we start with historical studies that lead to the modern memory engram theory. Then, we will review recent advances in memory engram research that combine transgenic and optogenetic approaches to reveal the underlying neuronal substrates sufficient for activating mnemonic processes. We will focus on three concepts: (1) isolating memory engrams at the level of single cells to tag them for subsequent manipulation; (2) testing the sufficiency of these engrams for memory recall by artificially activating them; and (3) presenting new stimuli during the artificial activation of these engrams to induce an association between the two to form a false memory. We propose that hippocampal cells that show activity-dependent changes during learning construct a cellular basis for contextual memory engrams.

Keywords: optogenetics, memory engram, IEG, ChR2, false memory

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Quick poll- HOW RELEVANT/ EXCITING?

VERY
MODERATELY
NOT VERY

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Quick poll- HOW RELEVANT/ EXCITING?

VERY
MODERATELY
NOT VERY

5 elements

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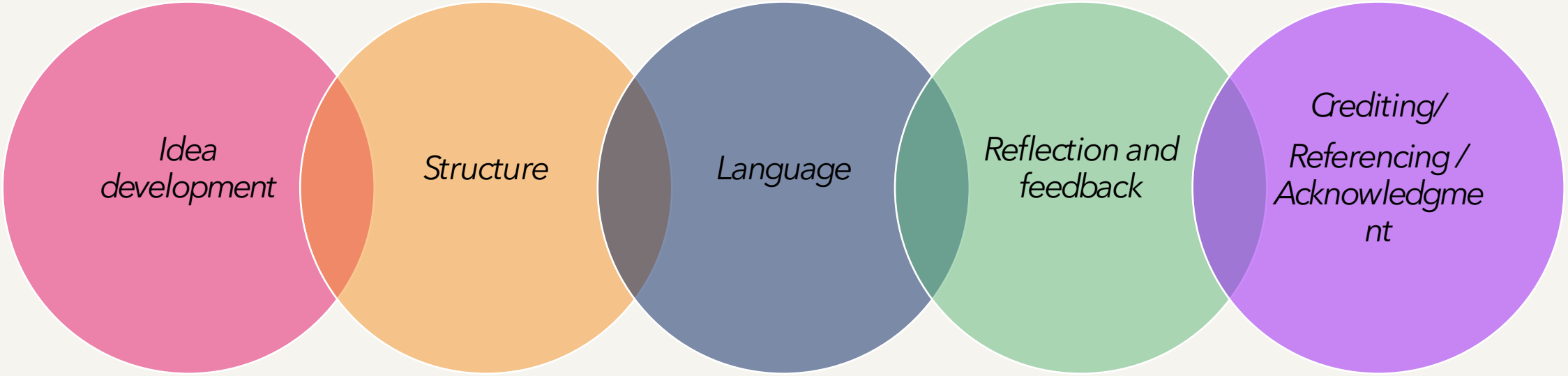

Idea development

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Co-create your lay

Begin with a blank sheet of paper

Explain the research in 25 words

Start with the basics

Structure

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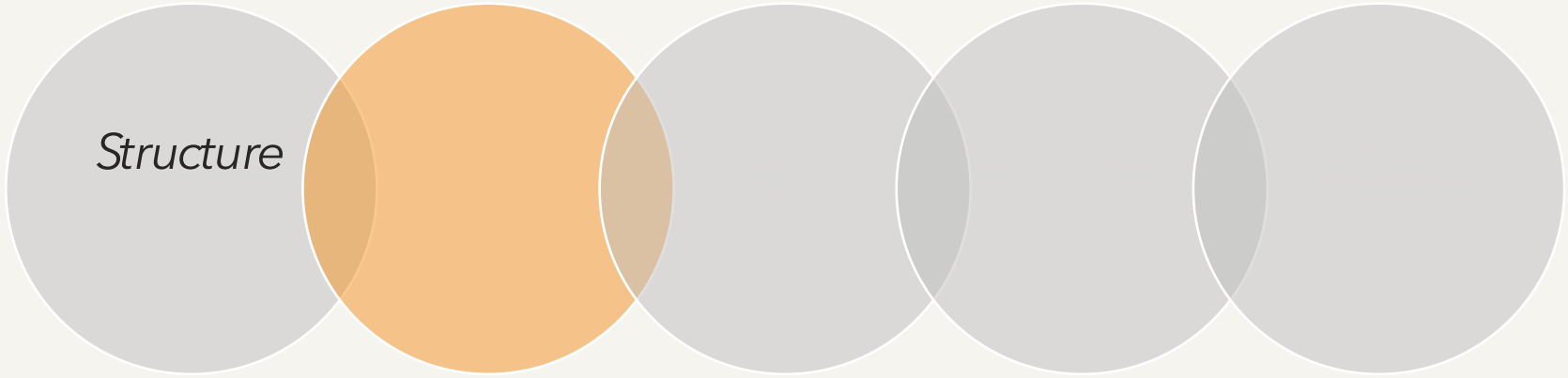
1. ***Respect length requirements for your lay summary content***
2. *Briefly* ***say who you are and what organisation you're affiliated with***
3. ***Provide a short, snappy, reader-friendly title, headline or question***
4. ***Identify an aspect of your research that almost anyone can relate to*** *(make it human!)*
5. ***Use powerful images / illustrations, or video***
6. ***Include a one-sentence 'top line'***



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*Place the research **in context***

*Address the "**So what**?" question.*

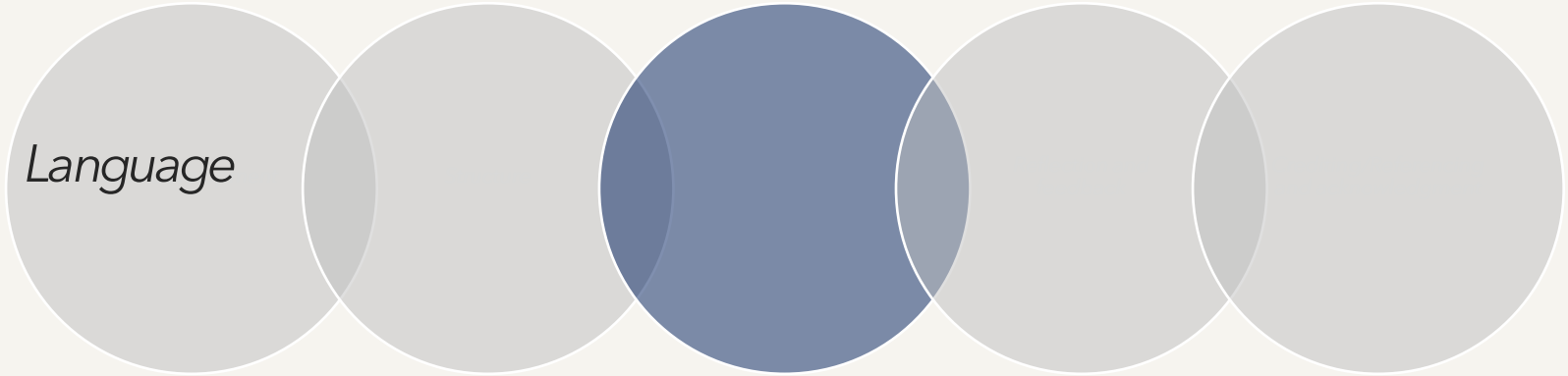
*Say it **simply, concisely and directly***

*Say **how** the research was carried out*

*Share if and how **service users or the public** have been involved*

*Describe the **outcomes, including risks and adverse events***

*Acknowledge any key **limitations***



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- Use short, clear sentences (15-20 words or less)
- Don't use a long word where a short one works.
- Minimise use of jargon
- Adopt a conversational style and entertaining tone
- Use active/positive phrases and sentences
- Cut out words you don't need
- Don't turn verbs into nouns
- Ensure you use lay person-centred language

Reflection & feedback

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Read aloud /re-watch or re-listen to your lay summary

Perhaps find someone who is not in your field

put to one side for a few days and review it later

Crediting/Referencing and acknowledgment

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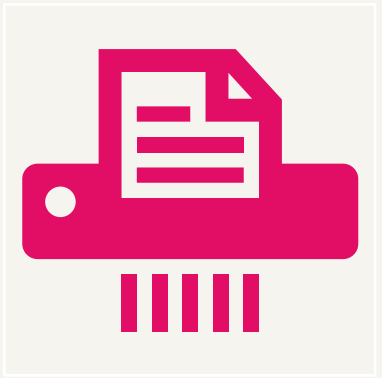

Give clear details of the e-print in the upload form

Acknowledge all contributors and funders, media

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Exercise

Explain the following picture in a few sentences each to

- A 10 year-old child
- A uni professor specialized on canine evolution
- A vet
- A person you have just met at a pub

A few quick reminders

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Science is built up with facts, as a house is with stones.

A few quick reminders

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Title	What did others find? (background)	How was the study carried out? (methods)	What did it find? (results)	What do you think that means?

Tell a story!

A few quick reminders

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Include what is ESSENTIAL for understanding

A few quick reminders

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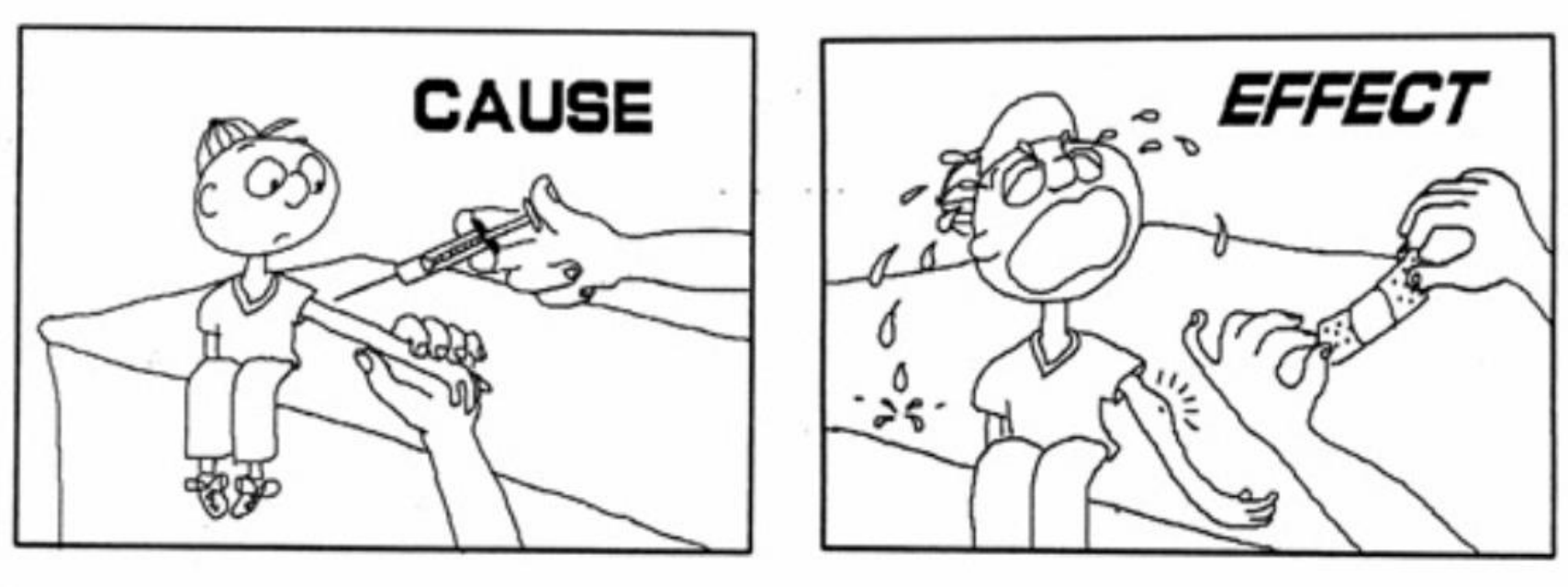
Include what is ESSENTIAL for understanding



Time for questions/ discussion

LEARN. CONNECT. CONTRIBUTE.

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