BIP! Scholar: Going Beyond Researcher Profiles

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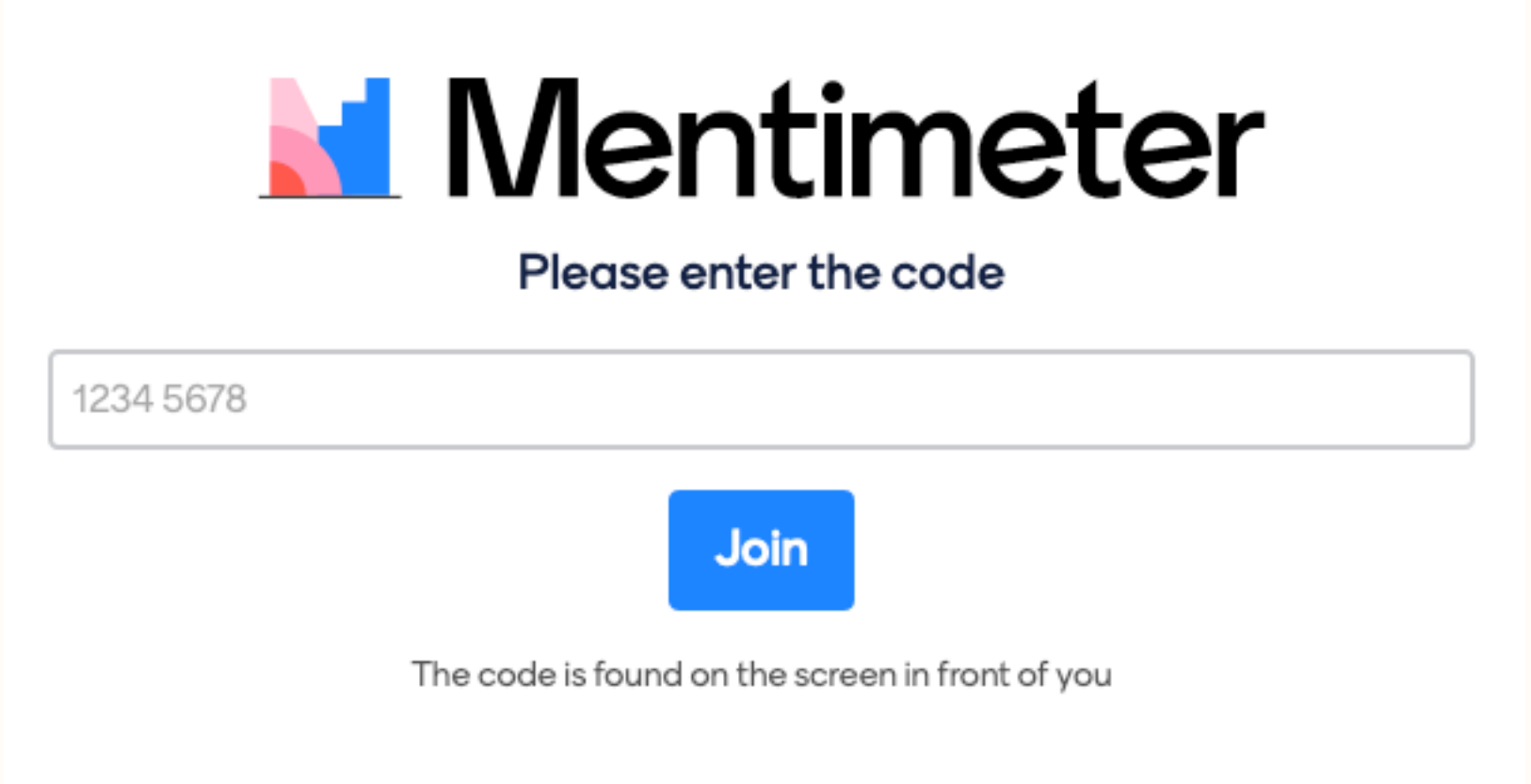
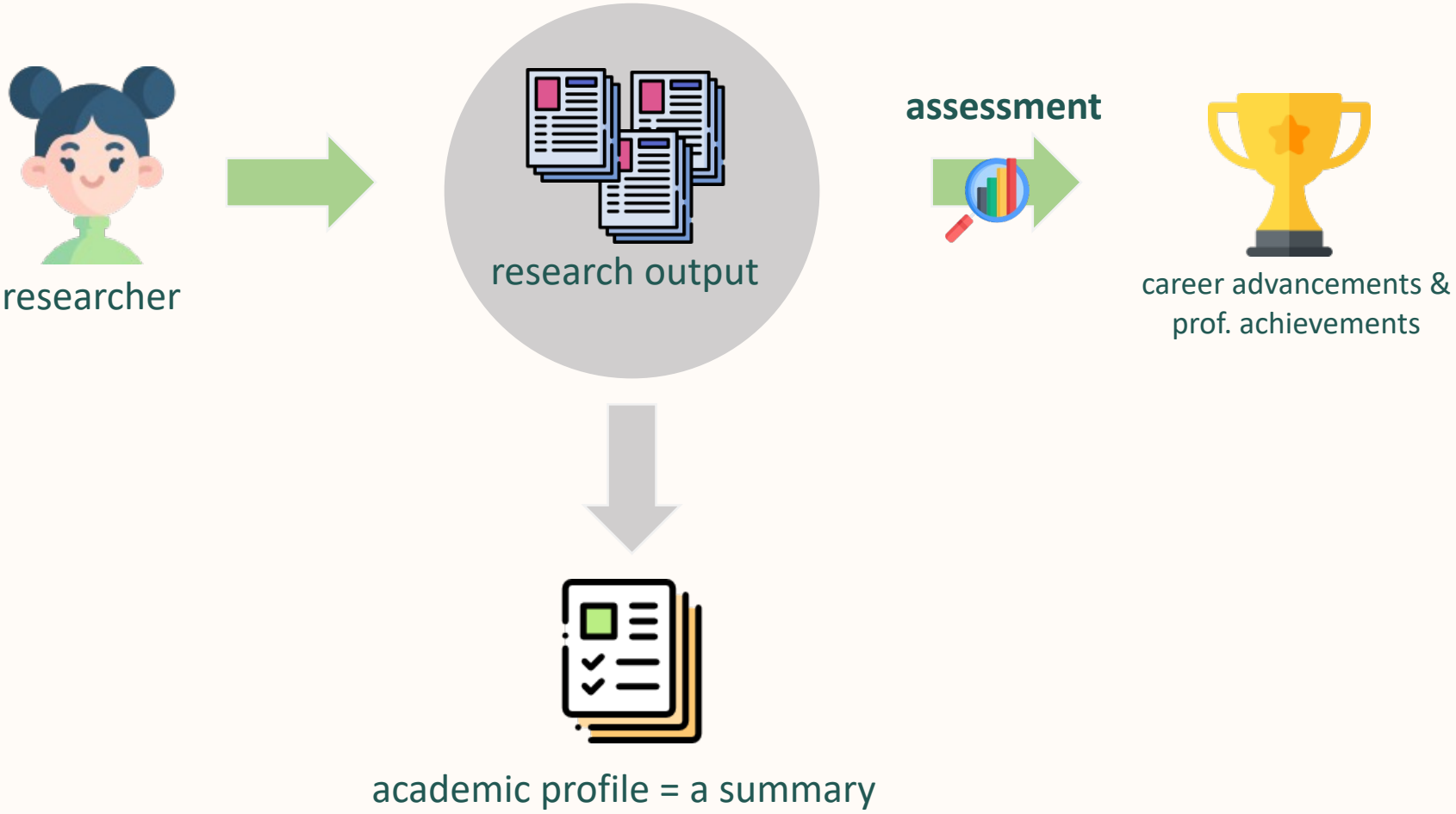
be ready!
menti.com will be used in two slides
☺



Why do we need academic profiles?



The problem with scientific output growth

the number of researchers is growing

UNESCO: ^20% between 2007-2014[1]

publish or perish culture

pressure on researchers to publish more

predatory publishers

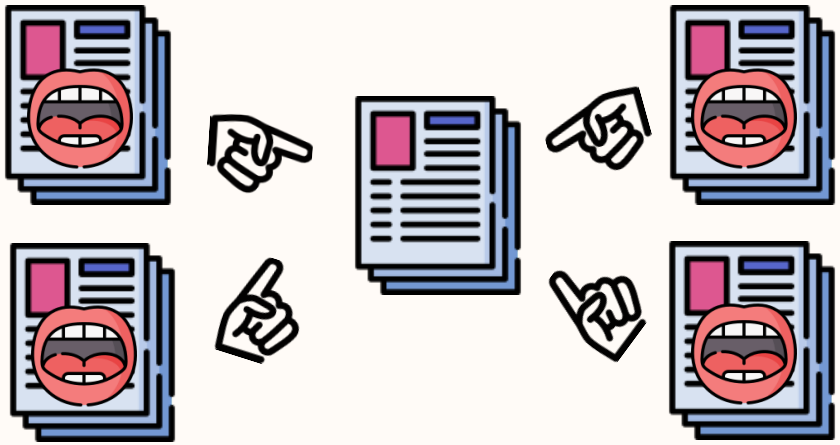
offering quick & easy publication

exponential growth of scientific output

hindering tasks related to **research assessment** and **scientific knowledge discovery**

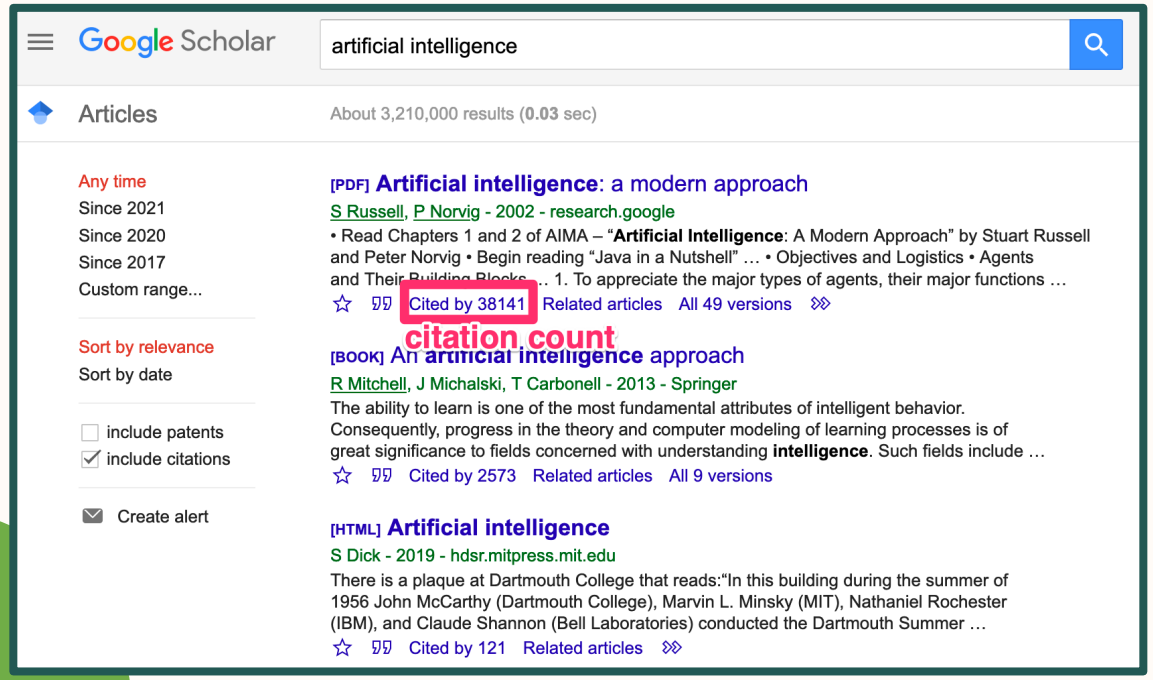
[1] UNESCO Science Report: towards 2030. UNESCO Publishing, 2015

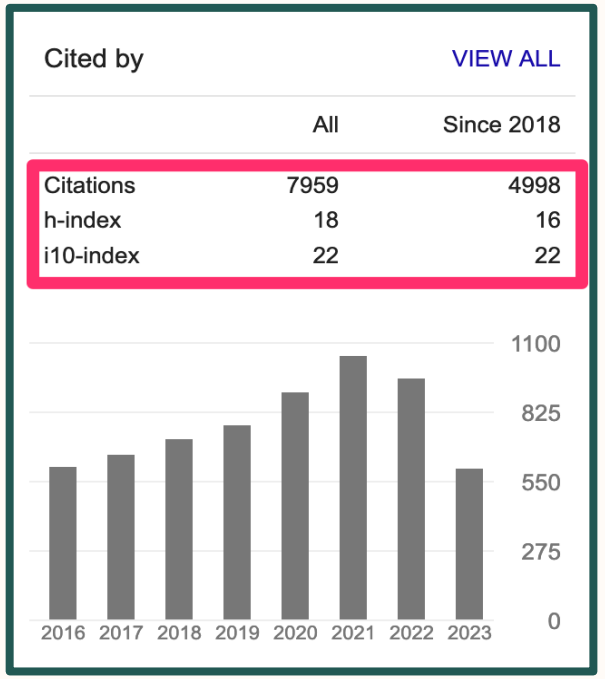
Using impact indicators to alleviate the issue



estimate the **scientific impact** of an article by analyzing how many other articles are "talking" about it

the more they talk, the most the impact





citation count: a simple, popular scientific impact **indicator** used to order publications to help with reading prioritization

citation-count-based **author-level indicators** used as a "shortcut" for researcher assessment

A common structure for an academic profile

Yoyota Vuvuli

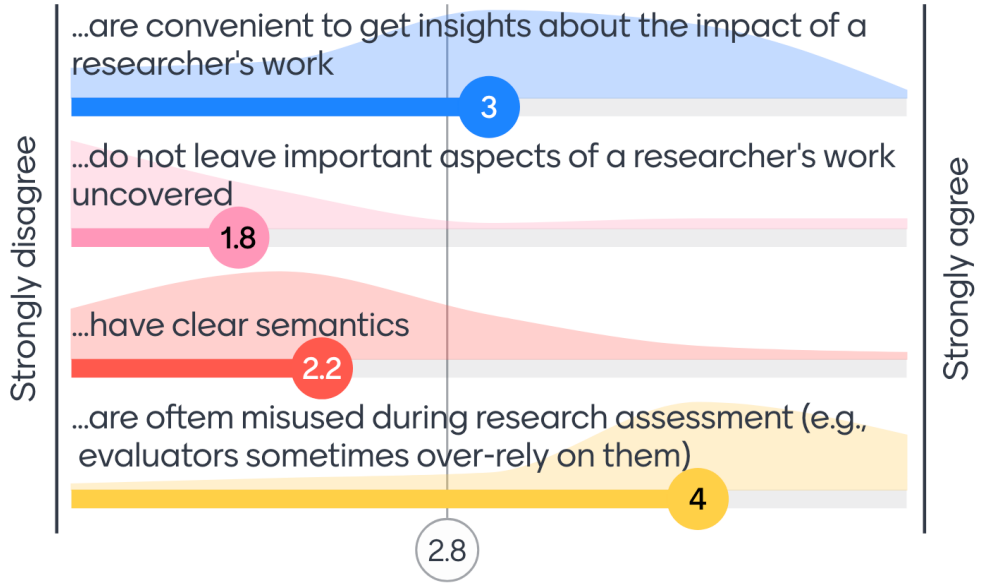
contact details
affiliations

(citation-based) indicators

Publications

menti.com: audience feedback

Citation-count-based indicators...



Some problems…

Yoyota Vuvuli

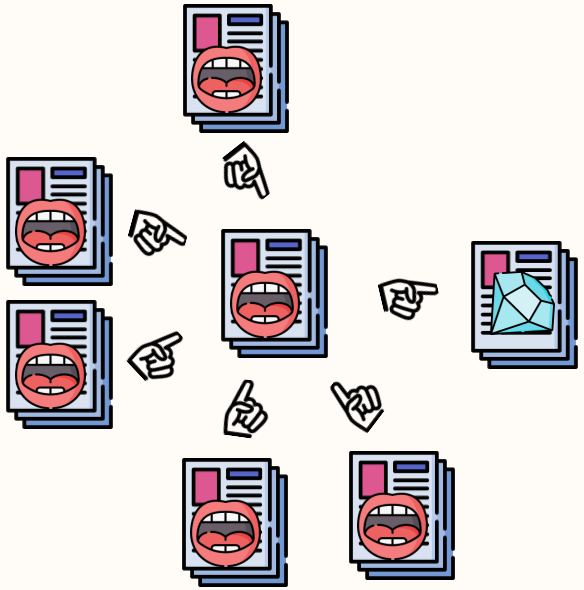
contact details
affiliations

(citation-based) indicators

Publications

citation count has known issues...

...that can affect our ability to discover valuable research

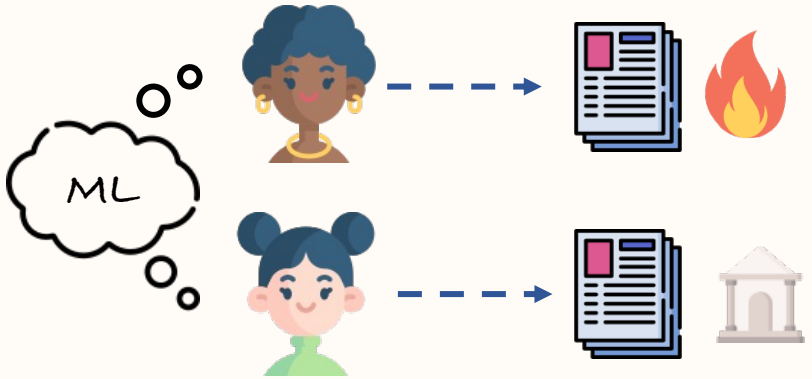


"hidden gem"

impact has multiple aspects...

...and different of them can be important in different use cases

experienced researcher revisiting the field



currently popular articles

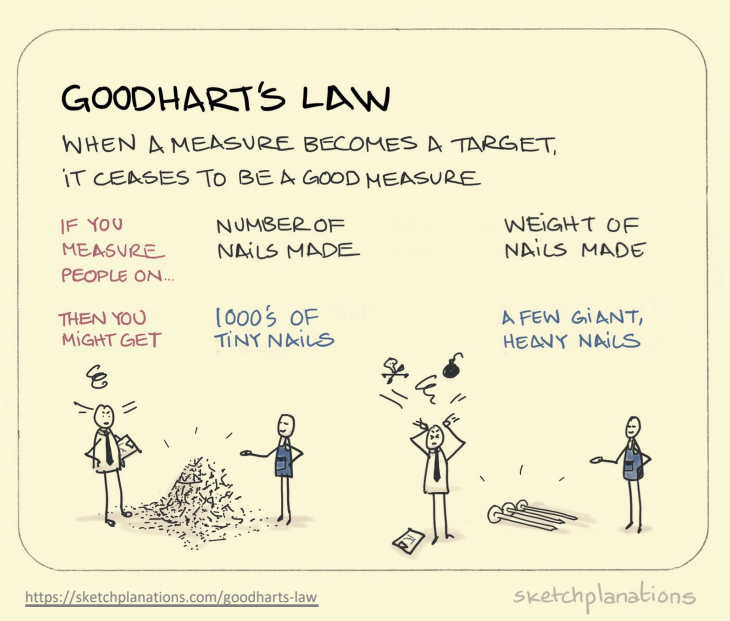
citation count is biased against recent articles

foundational/established articles

student making a survey

indicators can be gamed…

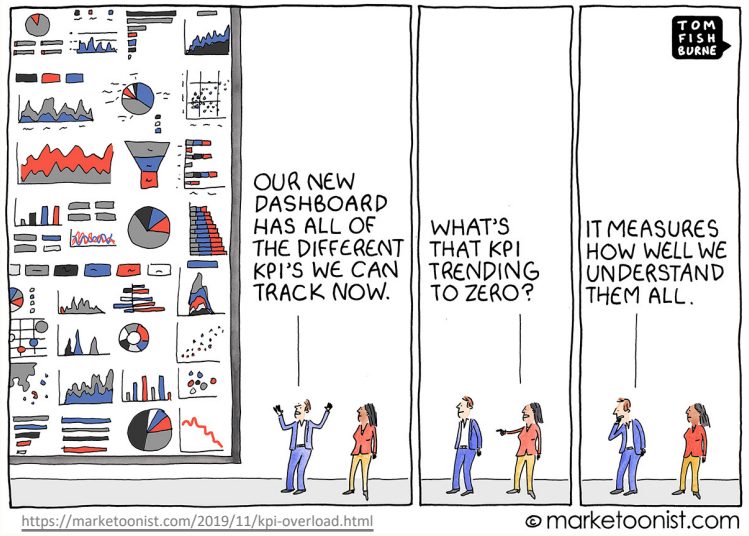
…using indicators capturing a wide range of impact aspects can help (make attacks more difficult)



Goodhart's/Campell's law
&
"Cobra effect"

indicator semantics & provenance are important…

…to protect from improper use, misconceptions & indicators cherry-picking



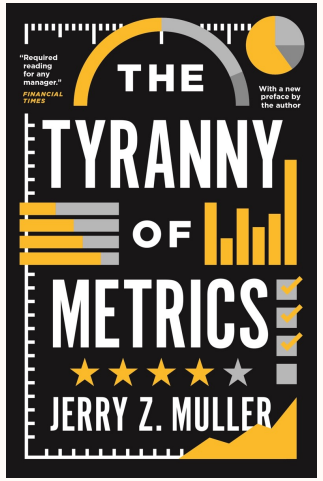
impact is not everything / publications is not everything…

…impact is not 100% correlated to scientific merit or others aspects of “academic performance” that may be difficult to quantify

…there are a lot of important research activities (e.g., software development, dataset production, peer review, teaching) that are not properly acknowledged

indicators should only be used to support the respective tasks…

…over-relying on them creates problems



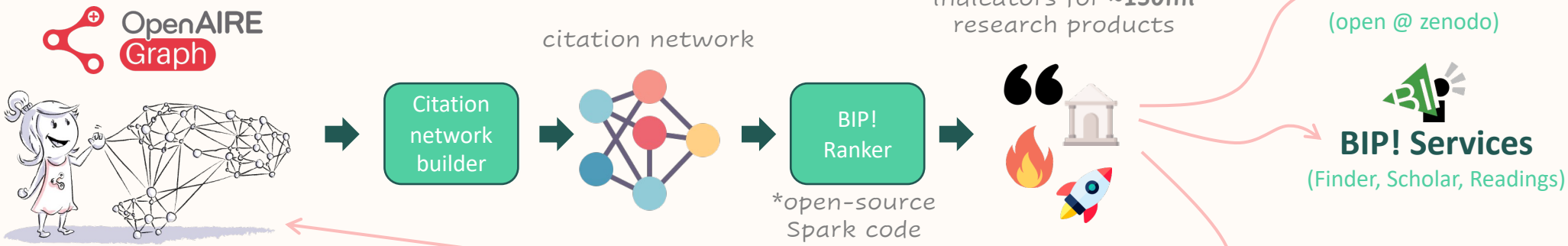
generic profiles are not easy to use for all use cases

how it started...

- **"traditional" impact** (citation count)
- **influence** (PageRank)
- **popularity** (AttRank)
- **impulse** (3y citation count)

Our approach for indicators

how it's going...



*worth mentioning:
- we also **classify** all research products based on their ranking (e.g., in top 1%)
- we **do not double-count** citations from different versions of the same article
- we offer **detailed explanations** for proper uses & misuses and documentation for **transparency on calculations**

Our approach

for considering other types of contributions

Currently the system supports **publications & datasets**

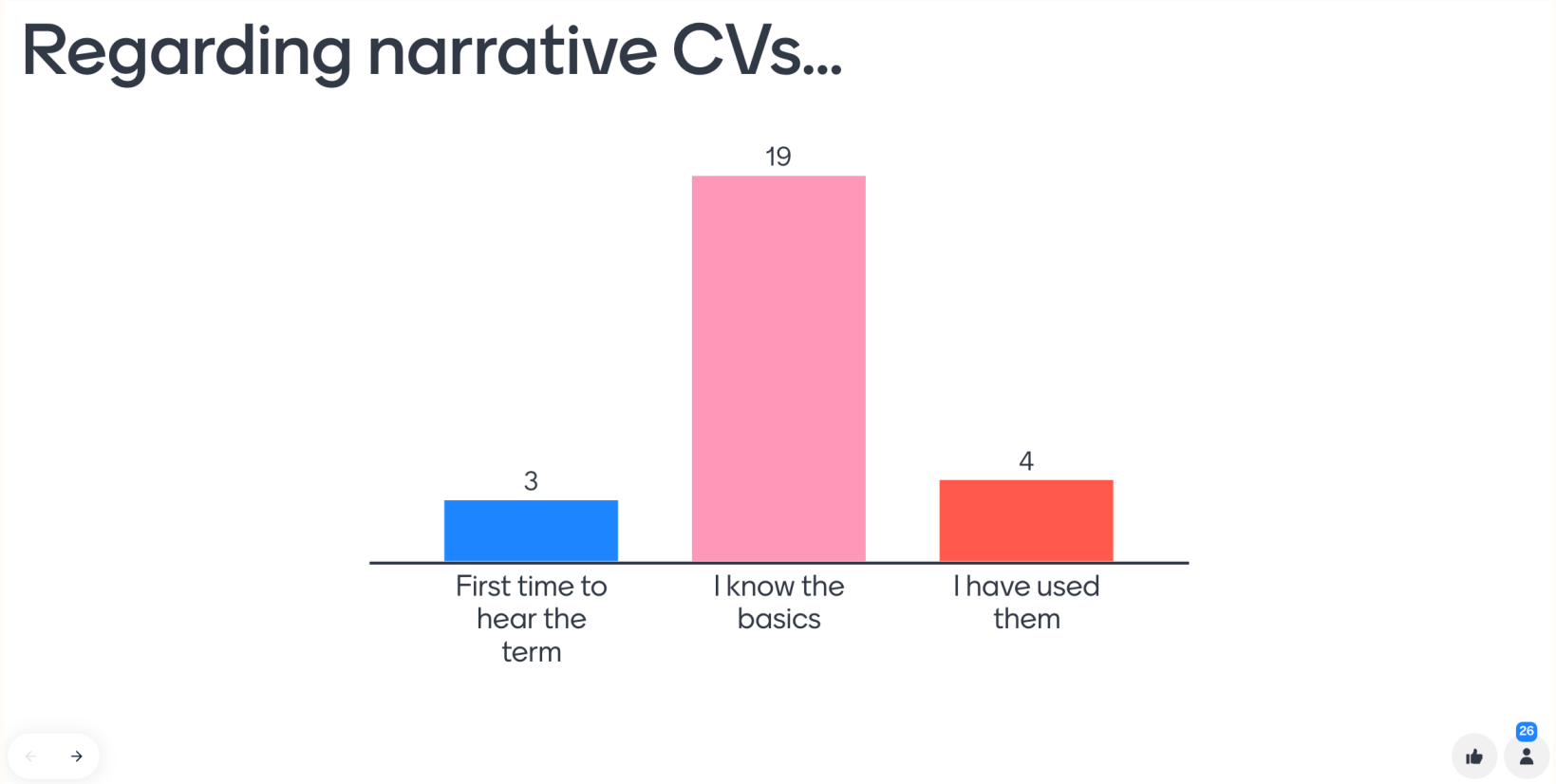
Soon to add:

- Software
- Reviews
- Projects
- Teaching

The system identifies the **topics** of the works and supports the declaration of the **contribution roles** in each of them (based on CRediT).

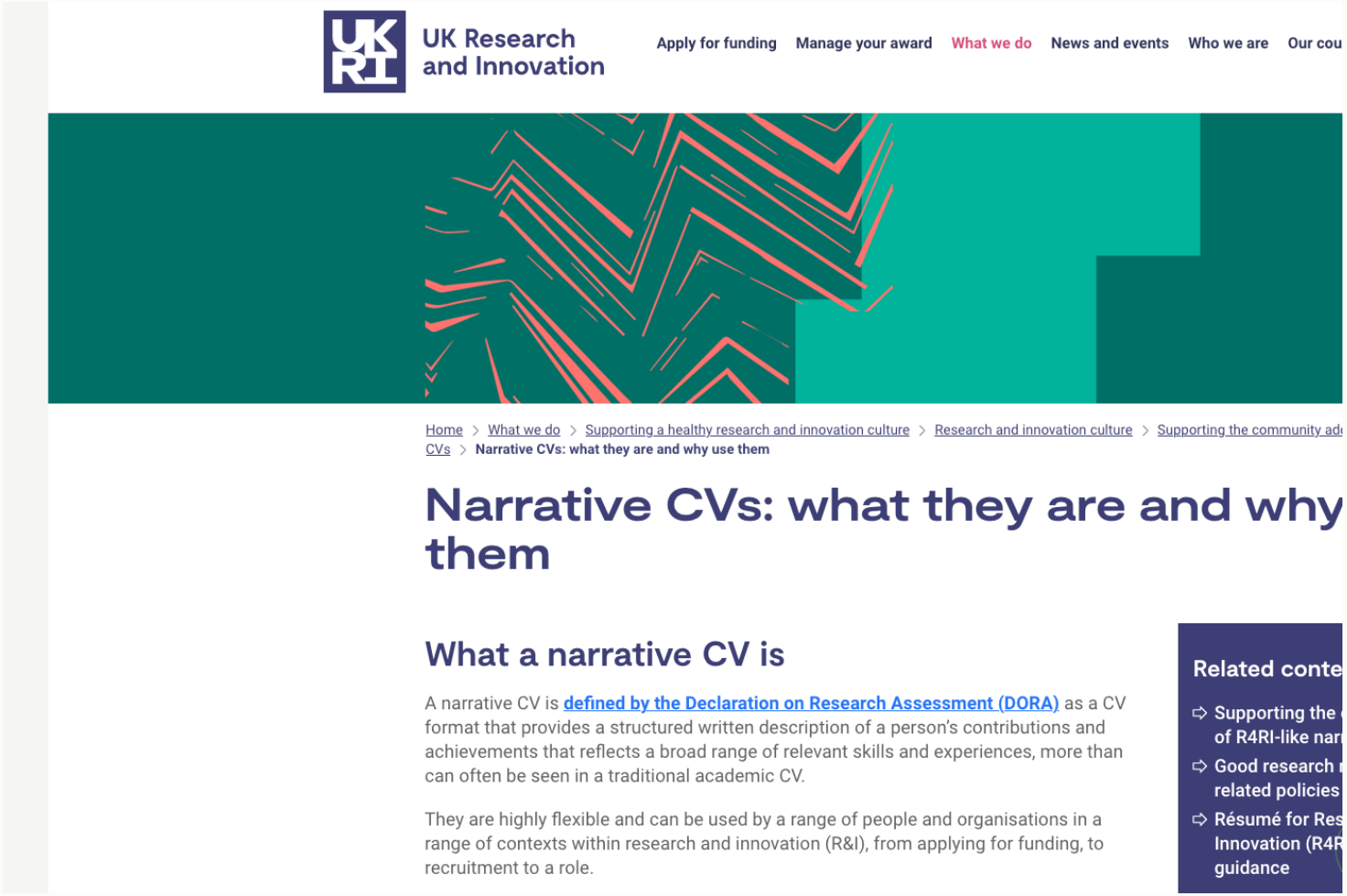
The system supports **profile “views”** to better explore the profiles from different perspectives (e.g., according to topics, roles)

menti.com: audience feedback



Our approach for putting research into context

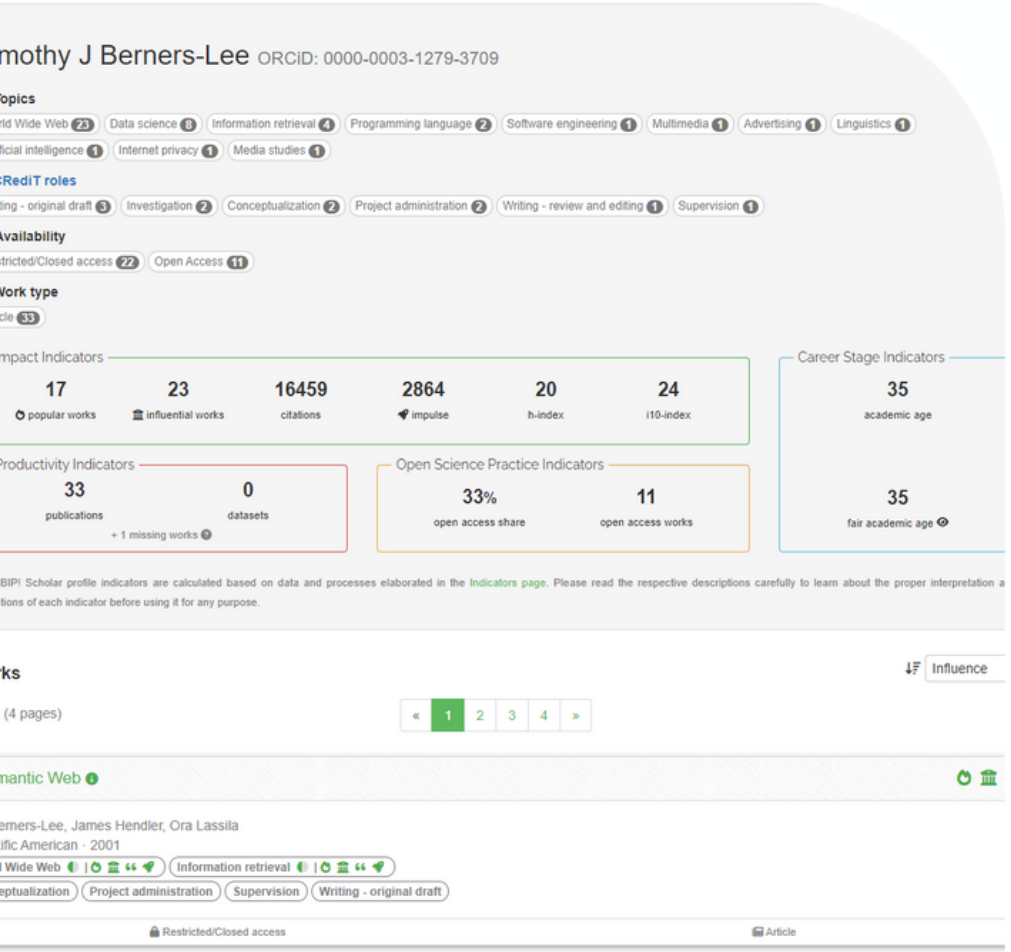
The system supports the creation of narratives that describe lines of works and explain their impact, skills used, etc.



Screenshot from: https://www.ukri.org/what-we-do/supporting-healthy-research-and-innovation-culture/research-and-innovation-culture/supporting-the-community-adoption-of-r4r-like-narrative-cvs/narrative-cvs-what-they-are-and-why-use-them/

BIP! Scholar profiles

Emphasize what matters in your research work and put it into context.



Enriched ORCID-based profiles

BIP! Scholar offers researchers the option to create ORCID-based academic profiles enriched with valuable additional information (e.g., CRediT roles, indicators, narratives).

Put your work into context with narratives

BIP! Scholar helps researchers in creating narratives that describe interesting lines of work providing valuable information about the respective impact and the related activities and skills.

Explore your work from different perspectives

BIP! Scholar can help the exploration of different perspectives of a researcher's career: tailored views of each profile can be dynamically produced according to particular topics, roles, work types, and so on.

Example profile: https://bip.imsi.athenarc.gr/scholar/profile/0000-0003-0555-4128

Important next steps…

Improvements in **data impact indicators**

Supporting **assessment protocols** from well-established frameworks (e.g., GraspOS' OSAF)

Functionalities to **facilitate the creation & analysis of narrative CVs** (e.g., support of widely-known templates)

Support multiple ways to **download & share profile views**

Create your own profile!

create your own profile:

Thank you!

email: vergoulis@athenarc.gr
twitter/X: **@vergoulis**
mastodon: **@vergoulis@scicomm.xyz**