



Science Communication for Agricultural Economists

Webinar: The relevance and essence of Communication

May 22, 2025, 11.00-12.00

Robert Finger (ETH Zürich, Switzerland)

In the context of your work, with whom do you think it is crucial to communicate?



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Communication – what, why, to whom, how?

- In the context of your work, with **whom** do you think it is crucial to communicate?
- **Why** is communication important to you?
- **What** do you want to convey?
- **How?** Which communication channels do you think are relevant for communicating in the context of your scientific work?

what, why, to whom, how – my own perception

Whom: other researchers (also outside ag econ), experts outside academia (administration, ministry, interest representation etc.), farmers, farmer associations, policy makers, industry, general public

What: research findings, research agendas (e.g. projects started), general science findings of interest, receive inputs for research questions (communication in both directions)

Why: translation, real-world impact, applicability, influence societal and policy debates and decision making, create awareness for problems, developments, complexities and solutions, receive input

How: different channels, tailored to target audience and topic. Social media crucial

“We asked young scientists to answer this question in the form of a tweet: Is social media good or evil when it comes to science communication? Read a selection of their thoughts below. “*

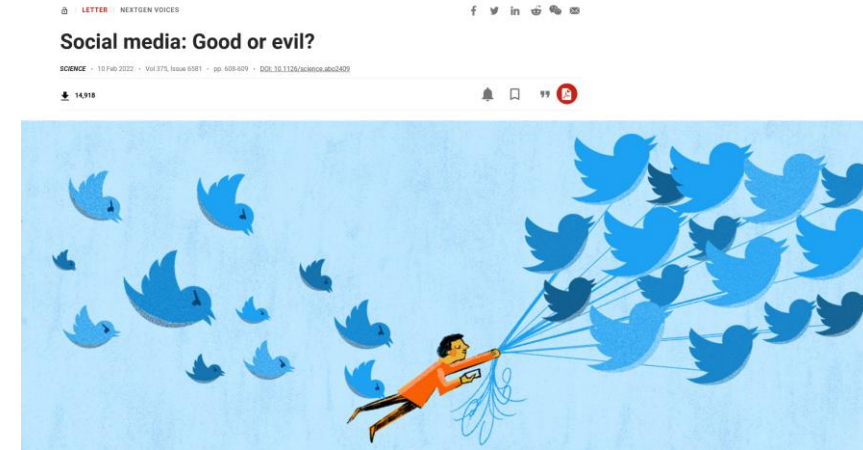
Social media has enabled delivery of information in an economically solvent manner to scientists and the general populace in all parts of the world, **making science more accessible and equitable.**

On social media, scientists have to be **clear and succinct**, an incentive to eliminate jargon and **streamline the message.**

Social media is becoming the go-to venue for science communication. Sharing science on social media means dealing with naysayers, but it also provides the **opportunity to engage** such people in thoughtful and productive science discussion.

Social media is a force for good. It **levels the playing field** (you don't need to be a senior scientist to spread the message); you can reach a **broad audience quickly and effectively**; and it's free to everyone (the writer and the readers).

Science relies on the public as much as the public relies on science. Social media **empowers scientists** with the tools to provide objective scientific discoveries **directly to the public**, without intermediaries (such as the media) that may be prone to modify the information.



Social media coverage can boost visibility and citation

Twitter promotion predicts citation rates of cardiovascular articles: a preliminary analysis from the ESC Journals Randomized Study

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Aims	The association between the dissemination of scientific articles on Twitter and online visibility (including Altmetric score) is still controversial and the impact on citation rates has never been addressed for cardiovascular medicine journals.
Methods and Results	The ESC Journals Study randomized 696 papers published in the ESC Journals family (March 2018–May 2019) for promotion on Twitter or to a control arm (with no active tweeting from ESC channels) and aimed to assess if Twitter promotion was associated with an increase in citation rate (primary endpoint) and Altmetric score. This is a preliminary analysis of 536 articles (77% of total) published until December 2018 (therefore, papers published at least 6 months before collecting citation and Altmetrics data). In the analysis of the primary endpoint, Twitter promotion of articles was associated with a 1.43 (95% confidence interval 1.29–1.58) higher rate of citations, and this effect was independent of the type of article. Both Altmetric score and number of users tweeting were positively associated with the number of citations in both arms, with evidence of a stronger association (interaction) in the Twitter arm.
Conclusion	Therefore, a social media strategy of Twitter promotion for cardiovascular medicine papers seems to be associated with increased online visibility and higher number of citations. The final analysis will include 696 papers and 2-year scientific citation rate and is estimated to be concluded in March 2021.
Keywords	Social media • Twitter • Altmetrics • Citations • Cardiovascular articles • Randomized study



Tweet success? Scientific communication correlates with increased citations in Ecology and Conservation

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ABSTRACT

Science communication is seen as critical for the disciplines of ecology and conservation, where research products are often used to shape policy and decision making. Scientists are increasing their online media communication, via social media and news. Such media engagement has been thought to influence or predict traditional metrics of scholarship, such as citation rates. Here, we measure the association between citation rates and the Altmetric Attention Score—an indicator of the amount and reach of the attention an article has received—along with other forms of bibliometric performance (year published, journal impact factor, and article type). We found that Attention Score was positively correlated with citation rates. However, in recent years, we detected increasing media exposure did not relate to the equivalent citations as in earlier years; signalling a diminishing return on investment. Citations correlated with journal impact factors up to ~13, but then plateaued, demonstrating that maximizing citations does not require publishing in the highest-impact journals. We conclude that ecology and conservation researchers can increase exposure of their research through social media engagement and, simultaneously, enhance their performance under traditional measures of scholarly activity.

Scientific Communication – my personal experience

- Science basis is key: papers, presentations etc.
- Direct dialogue with stakeholders (politicians, NGOs, farmers organizations, industry)
- Interviews for newspaper, TV, radio, Podcasts
- Blog for specialized audience in German or French, <https://agrarpolitik-blog.com> (awarded GEWISOLA Price)
- Contribution general public outreach (general blogs, podcasts, talks, ...)
- Social media: LinkedIn, Bluesky, (less on: Mastodon, X) (English and German)

Agrarpolitik Blog

APRIL 17, 2025

Künstliche Intelligenz in der Land- und Ernährungswirtschaft: Hoffnungsträger oder Risiko?

Robert Finger, Mehran Ghasemlou, Ghazanfar Abbas Khan, Benu Adhikari, Colin J. Barrow* Die globalen Agrar- und Ernährungssysteme stehen vor einer Reihe von miteinander verknüpften Herausforderungen, wie der steigenden Nachfrage nach Nahrungsmitteln und Ökosystemleistungen, den Herausforderungen des Klimawandels und der oft mangelnden Nachhaltigkeit in vielen Bereichen. Neue Technologien im Bereich der Digitalisierung und insbesondere der künstlichen [...] 

MÄRZ 21, 2025

Ergebnisorientierte Agrarumweltzahlungen: Wie sie designt sind, wirkt sich auf die Biodiversität aus

Sergei Schaub, und Petyo Bonev Zur Förderung der Biodiversität auf Landwirtschaftsflächen setzen Regierungen weltweit Agrarumweltzahlungen als zentrales Instrument ein – so auch in der Schweiz. Eine Form dieser Zahlungen sind ergebnisorientierte Agrarumweltzahlungen, die nicht die Umsetzung einer Massnahme, sondern das erzielte Resultat entschädigen. Dies soll die Effektivität agrarpolitischer Massnahmen steigern. Landwirtinnen und Landwirte erhalten dabei [...] 

MÄRZ 13, 2025

Der Einfluss von geografischen Herkunftsbezeichnungen auf die Verwendung von pilzwiderstandsfähigen Rebsorten

Von Lucca Zachmann, Chloe McCallum, Robert Finger* Der landwirtschaftliche Sektor steht vor der Herausforderung, den Einsatz von Pflanzenschutzmitteln zu reduzieren, um Umwelt und menschliche Gesundheit zu schützen. Der Anbau von Weinreben könnte dabei eine zentrale Rolle spielen, da rund ein Drittel aller in der Schweizer Landwirtschaft ausgebrachten Pflanzenschutzmittel Fungizide sind, die in Rebbergen eingesetzt werden [...] 



Robert Finger

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6249 Follower 2524 Folge ich 470 Posts

Professor of Agricultural Economics and Policy & Chair of the World Food System Center at ETH Zürich. Open Science.

Website sites.google.com/view/fingerr...

Bringing science across needs targeting

Very few people come across your research by accident

- about 3 million papers were published in 2022*
- communication and targeted approaches can make a difference!

Most of our target audience...

- will not read a paper, even if topic is of interest and open access
- does not care about full details of the methods
- does not like reading in English

Becoming good in writing for non-scientific audience (and social media)
can make you a better writer, researcher and teacher

Communication in both ways: opportunity for inputs from stakeholders



Science communications that fulfill this mission must perform four interrelated tasks:

Task 1: Identify the science most relevant to the decisions that people face.

Task 2: Determine what people already know.

Task 3: Design communications to fill the critical gaps (between what people know and need to know).

Task 4: Evaluate the adequacy of those communications.

Fischhoff (2013, PNAS)

Communication is great but also comes with obstacles (1/2)

Communication often not differentiates whether science is shaky

- make solid science a basis for communication

How is your evidence and communication used?

- (few) truth-seeking and sense-making actors, (many) utility-maximizing actors
- → risk of biased interpretation

There is no free lunch

- communication takes time (but you can start small)

Scientists are no media professionals and vice versa (and that's fine)

- determine, who does what

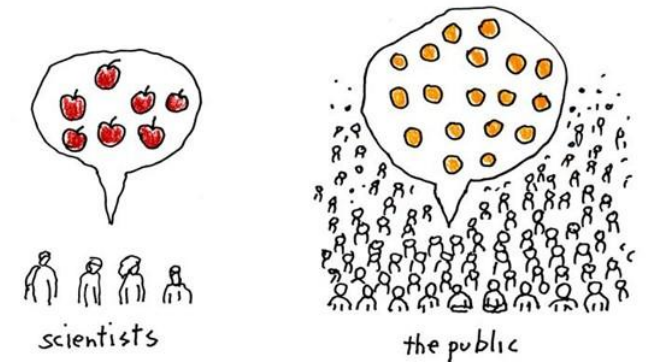
truth-seeking actors make decisions based on the best available scientific evidence

sense-making actors seek to integrate scientific evidence into their belief systems

utility-maximizing actors strategically employ scientific evidence to pursue predefined interests

Hoffmann et al. 2023

science communication



Communication is great but also comes with obstacles (2/2)

Communication and higher visibility will create feedback

- ...and this is not always positive
- simplification and shortening is a risk
- more exposure can make you impactful but also vulnerable

How to manage your professional communication channels?

- private versus professional content
- the internet (and people) do not forget 😊



Kardashian Index

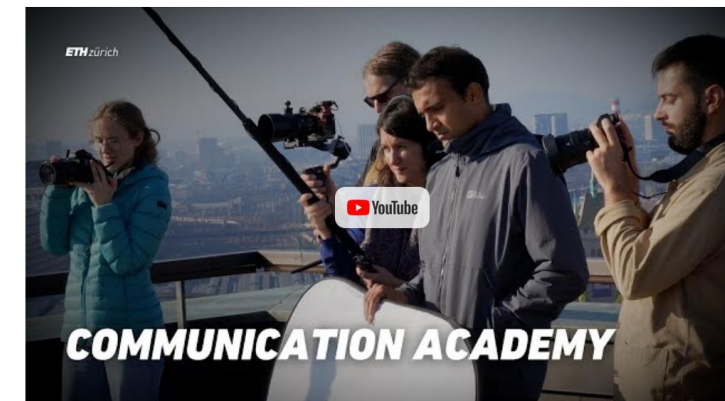
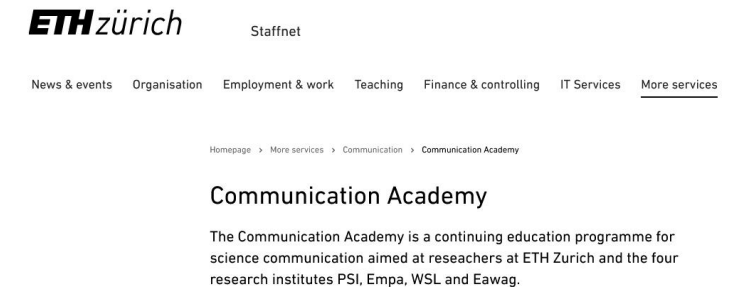
Article [Talk](#)

From Wikipedia, the free encyclopedia

The **Kardashian Index** (**K-Index**), named after media personality [Kim Kardashian](#), is a satirical measure of the discrepancy between a scientist's [social media](#) profile and [publication](#) record.^{[1][2]} Proposed by Neil Hall in 2014, the measure compares the number of followers a [research scientist](#) has on [Twitter](#) to the number of [citations](#) they have for their [peer-reviewed](#) work.

Conclusions

- To make a difference and have an impact, communication of science and by scientists is needed
- Based on strong research
- Targeting and translation needed
- Communication comes with obstacles and costs
- Get engaged and get support



Thank you!

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Bluesky

