



Federation of Finnish
Learned Societies

An update on the Nordic List, the Helsinki Initiative and the CoARA framework for research evaluation

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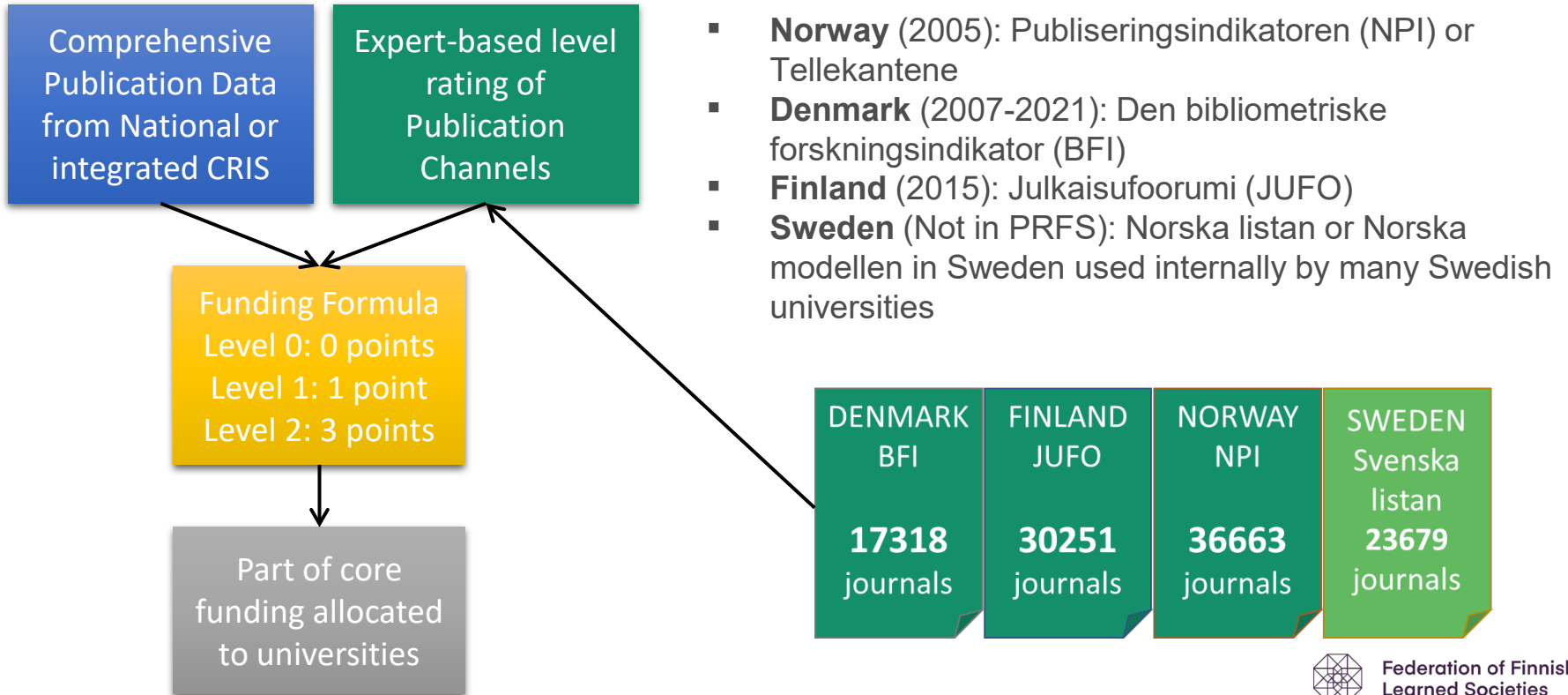
Autumn 2022 euroCRIS Strategic Membership Meeting
Nijmegen 2 December 2022

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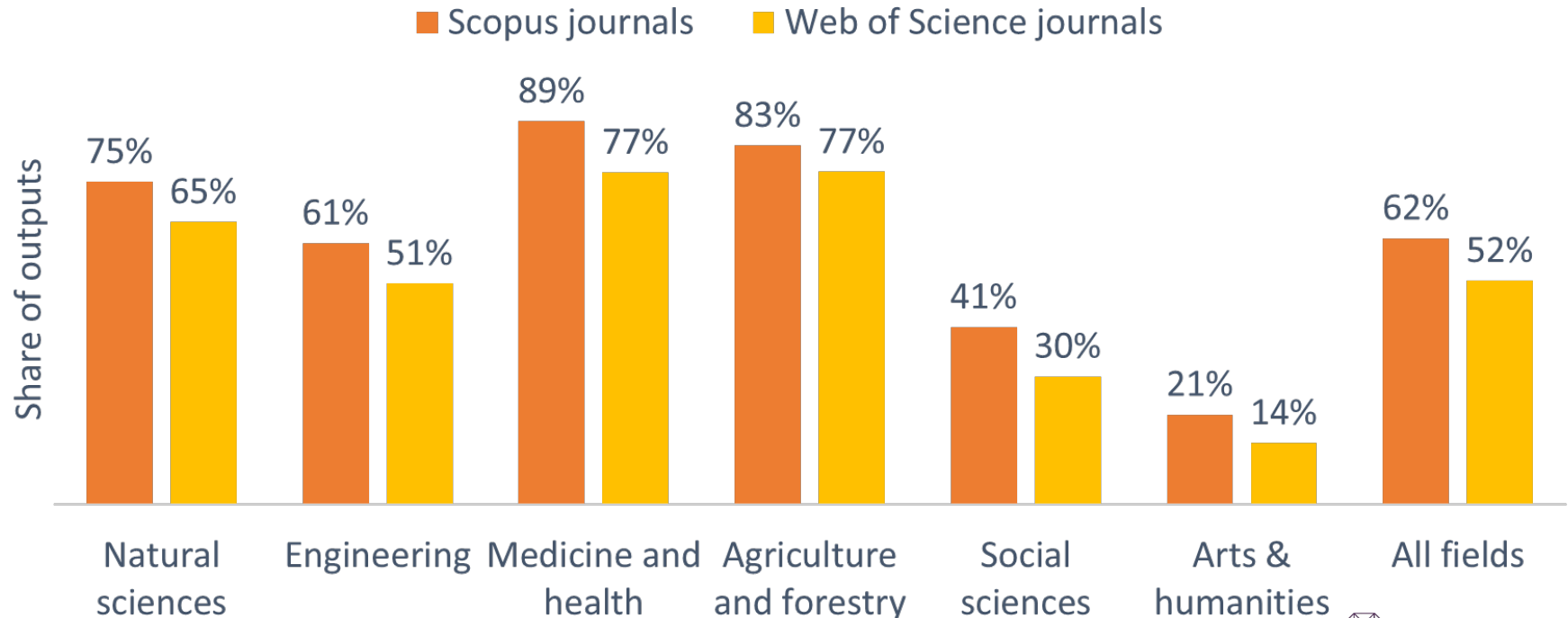


National lists of publication channels supporting performance-based research funding systems (PRFS)



CRIS based publication data provides more complete coverage than Web of Science and Scopus

Finnish peer-reviewed output 2016-17 (N=48,177)



Nordic expert-based level ratings are more inclusive than JIF-based rankings of journals

- Nordic level ratings for journals and book publishers are based on expert-evaluation
- “Top-tier” includes journals from all JIF percentiles and 1/4 do not have JIF
- “Top-tier” includes SSH journals publishing in the national languages

Country/ Region	Share of top-tier journals with Journal Impact Factor
China	99.9%
Denmark	77.5%
Finland	76.1%
Flanders	99.0%
Norway	76.4%
Poland	89.2%
Turkey	100,0%

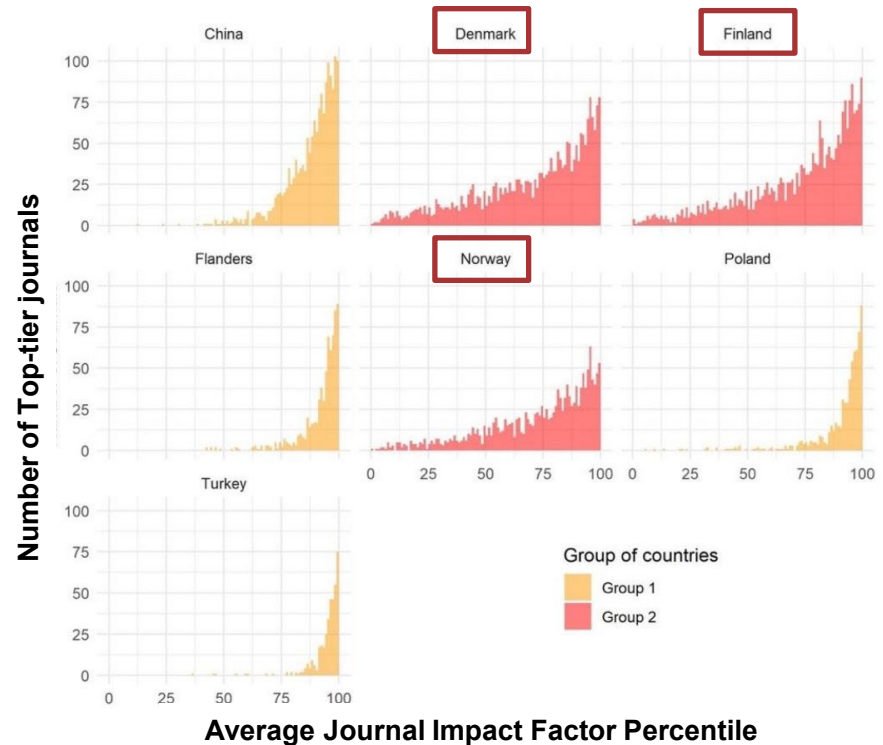
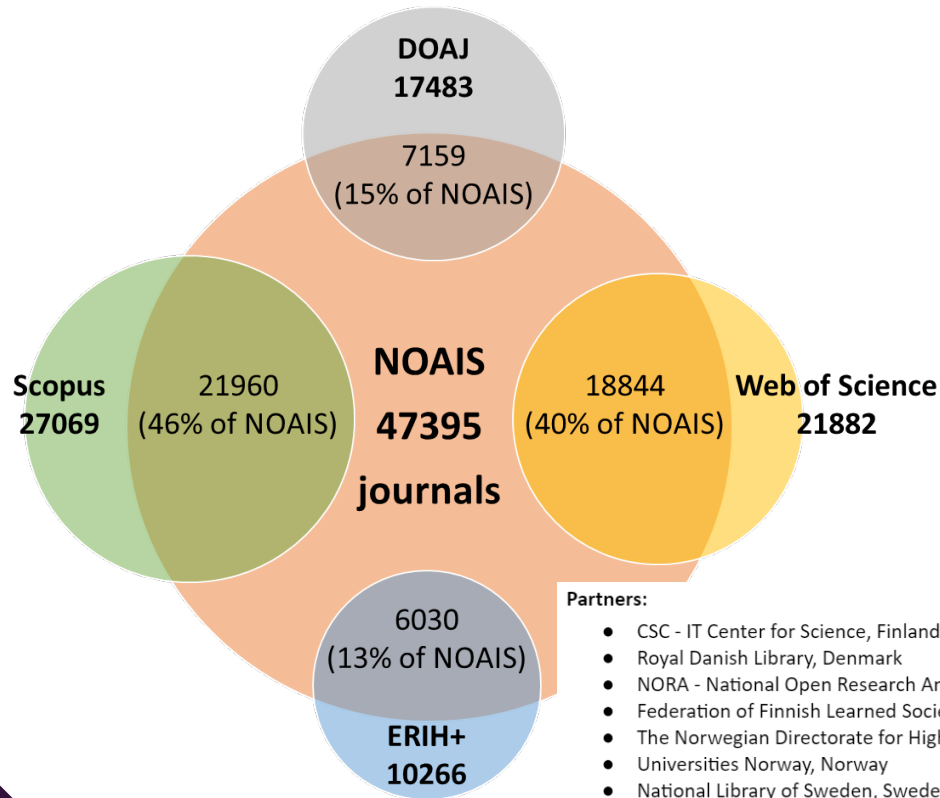


Fig 1. Distribution of the Average Journal Impact Factor Percentile for top-tier journals with a Journal Impact Factor across countries

Nordic list: from integrated register toward Nordic Open Access Information Service (NOAIS)



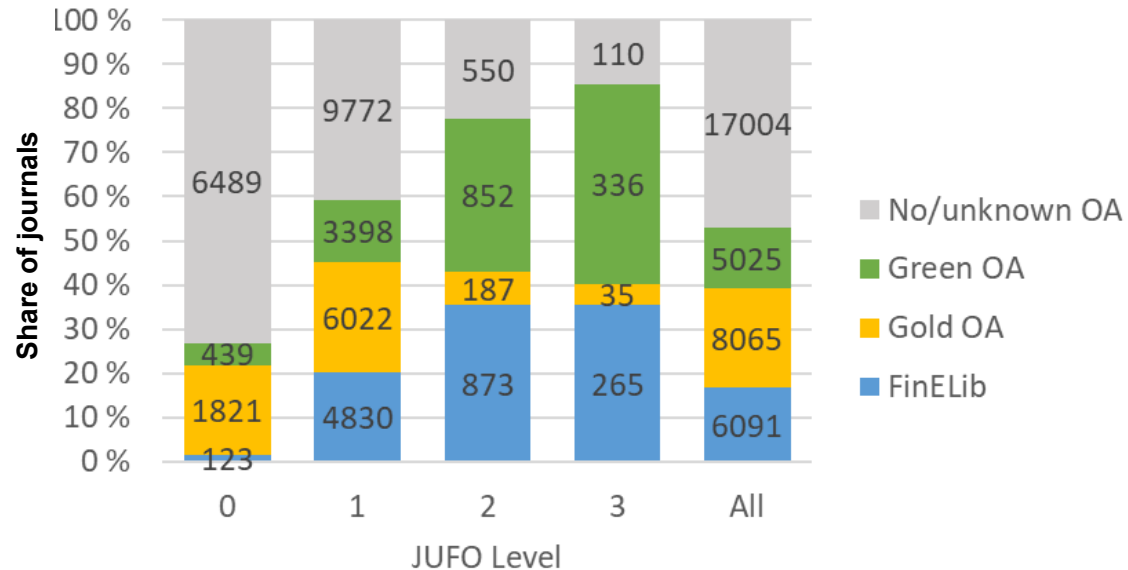
- The Nordic list is a database integrating over 47000 journals from the national lists of Denmark, Finland, Norway and Sweden
- Closed administrative tool to help share and manage publication channel information between the national lists.
- Planned project aims to develop open tool for informing researchers on evaluated publication channels and their open access status (NOAIS)
- The tools and services include
 - an open and public web tool
 - a comprehensive and good-quality database available through an open API for any external systems and services



NOAIS aims to provide information on OA options and quality of the publication channels

- Information on Open Access publishing options compiled (automated/manual) from various sources
 - Open Access status
 - Self-archiving
 - OA benefits of transformative agreements
- Ratings of journals and book publishers by Nordic experts
 - Level 3 = Top
 - Level 2 = Leading
 - Level 1 = Basic
 - Level 0 = Not peer-reviewed

Immediate OA for journals in JUFO-portal (N=31603)



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Value of multilingualism and language diversity is increasingly recognized



■ UNESCO recommendation on open science

- Open science is defined as an inclusive construct that combines various movements and practices aiming **to make multilingual scientific knowledge openly available, accessible and reusable for everyone...**
- Member-state actions: **Encouraging multilingualism in the practice of science, in scientific publications and in academic communications.**

■ European Council Conclusions on research assessment and implementation of open science

- ACKNOWLEDGES that in order to accelerate the implementation and the impact of Open Science policies and practices across Europe, action has to be taken to... **encourage where appropriate, the use of multilingualism for the purpose of wider communication of European research results.**
- WELCOMES initiatives to promote multilingualism, such as the **Helsinki initiative on multilingualism in scholarly communication"**



RECOMMENDATIONS

Helsinki Initiative on Multilingualism

Hi!

1. Support dissemination of research results for the full benefit of the society.

- Make sure researchers are merited for disseminating research results beyond academia and for interacting with heritage, culture, and society.
- Make sure equal access to researched knowledge is provided in a variety of languages.

2. Protect national infrastructures for publishing locally relevant research.

- Make sure not-for-profit journals and book publishers have both sufficient resources and the support needed to maintain high standards of quality control and research integrity.
- Make sure national journals and book publishers are safeguarded in their transition to open access.

3. Promote language diversity in research assessment, evaluation, and funding systems.

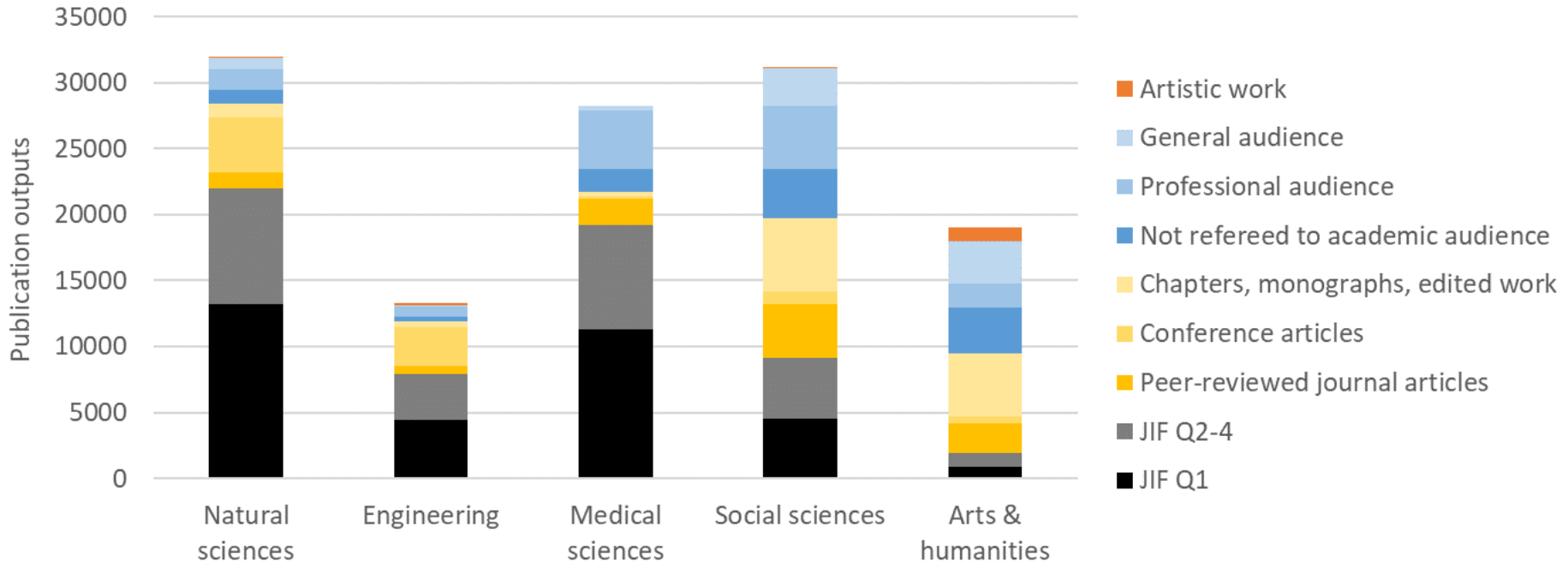
- Make sure that in the process of expert-based evaluation, high quality research is valued regardless of the publishing language or publication channel.
- Make sure that when metrics-based systems are utilized, journal and book publications in all languages are adequately taken into account.



Finnish Universities' publication output 2019-2021

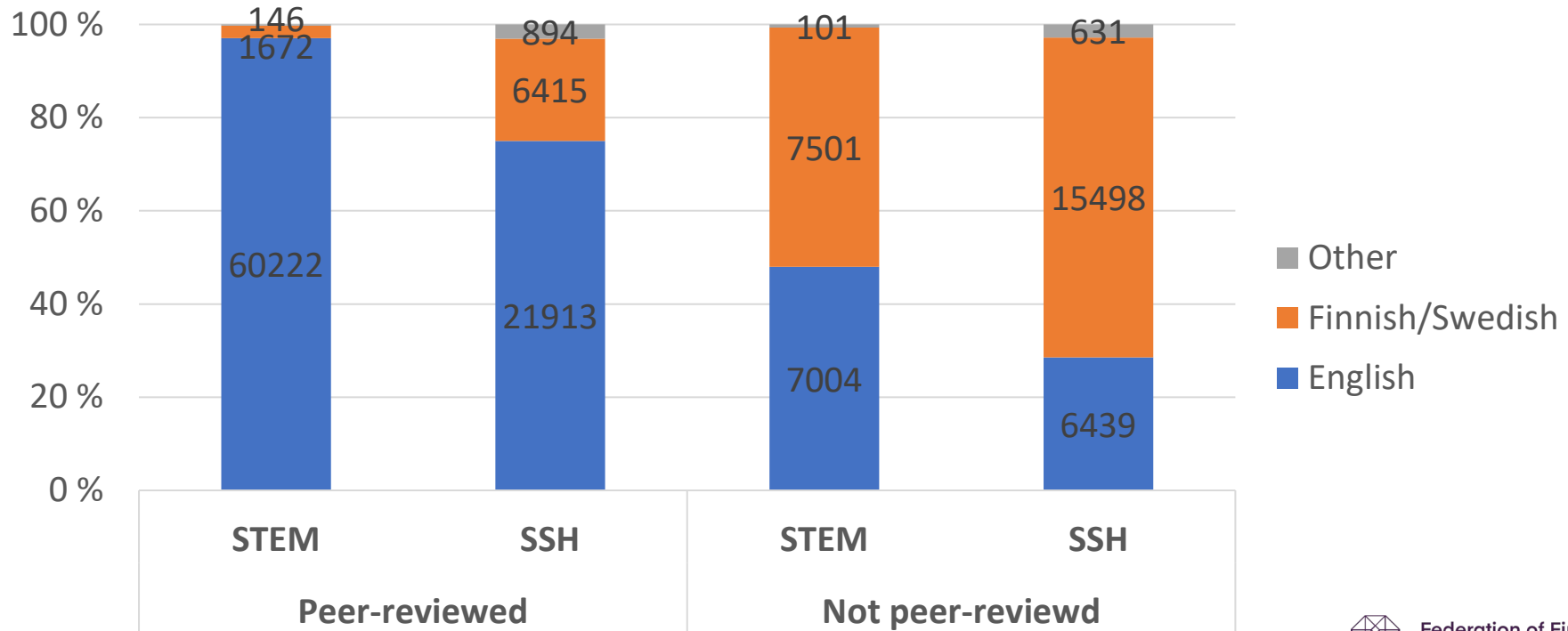
CRIS vs JIF based assessment

Finnish Universities' publication output 2019-2021



Multilingualism and language diversity in CRIS data

Finnish universities' output 2019-2021



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Agreement on Reforming Research Assessment

■ Agreement on Reforming Research Assessment

- Agreement published in July 2021 establishes a common direction for research assessment reform, while respecting organisations' autonomy.
- 400+ official signatories

■ CoARA (Coalition for Advancing Research Assessment)

- Review and development of criteria, tools and processes in line with the core Commitments
- Plan by the end of 2023 and one cycle of implementation by the end of 2027

— AGREEMENT ON REFORMING
RESEARCH ASSESSMENT

20 July 2022



Agreement on Reforming Research Assessment Principles

- Comply with ethics and integrity rules and practices
- Safeguard freedom of scientific research
- Respect the autonomy of research organisations
- Ensure **independence and transparency of the data, infrastructure and criteria** necessary for research assessment and for determining research impacts; in particular by clear and transparent data collection, algorithms and indicators, by ensuring control and **ownership by the research community over critical infrastructures and tools**, and by allowing those assessed to have access to the data, analyses and criteria used.
- Consider also the full range of research outputs, such as **scientific publications, data, software, models, methods, theories, algorithms, protocols, workflows, exhibitions, strategies, policy contributions**, etc., and reward research behaviour underpinning **open science practices** such as **early knowledge and data sharing** as well as **open collaboration within science** and collaboration **with societal actors** where appropriate
- Use assessment criteria and processes that **respect the variety of scientific disciplines**

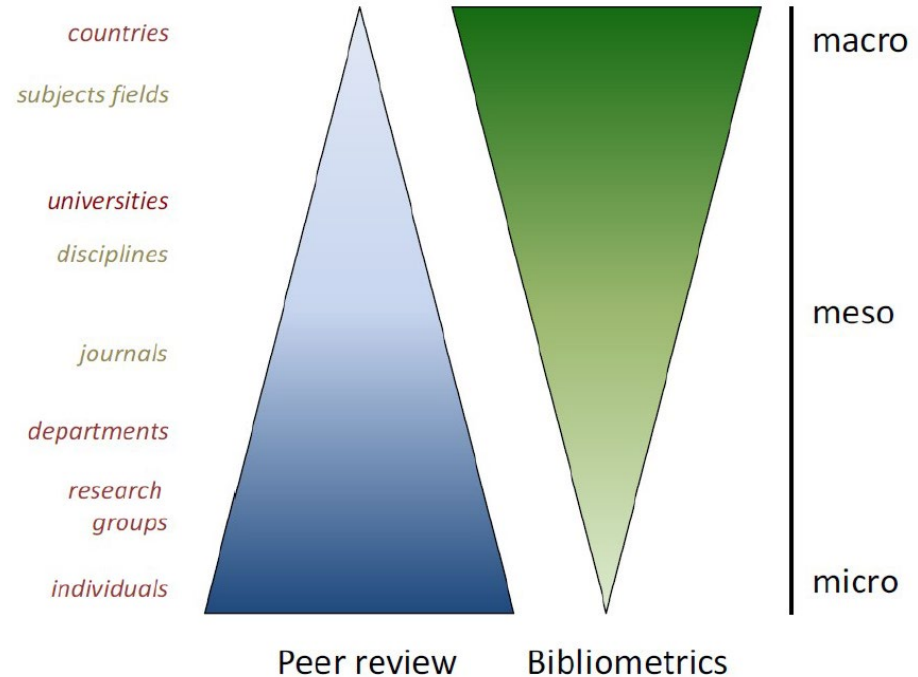
Agreement on Reforming Research Assessment

4 Core Commitments

1. **Recognise the diversity of contributions to, and careers in, research in accordance with the needs and nature of the research**
 - Changes in assessment practices should enable recognition of the broad diversity of valuable contributions that researchers make to science and for the benefit of society, including diverse outputs beyond journal publications and **irrespective of the language in which they are communicated.**
 - **Toolkit: value diverse outputs... in different languages in accordance with the Helsinki initiative"**
2. Base research assessment **primarily on qualitative evaluation** for which peer review is central, **supported by responsible use of quantitative indicators**
3. **Abandon inappropriate uses in research assessment of journal- and publication-based metrics, in particular inappropriate uses of Journal Impact Factor (JIF) and h-index**
4. Avoid the use of rankings of research organisations in research assessment

Responsible use of metrics or quantitative information?

- Agreement encompasses the assessment of
 - research performing organisations and units
 - research projects
 - individual researchers and research teams
- Core Commitment 2: **“Responsible use of quantitative indicators can support assessment where meaningful and relevant, which is context dependent”**.



Glänzel, W. (2011). Thoughts and facts on bibliometric indicators in the light of new challenges in their applications:

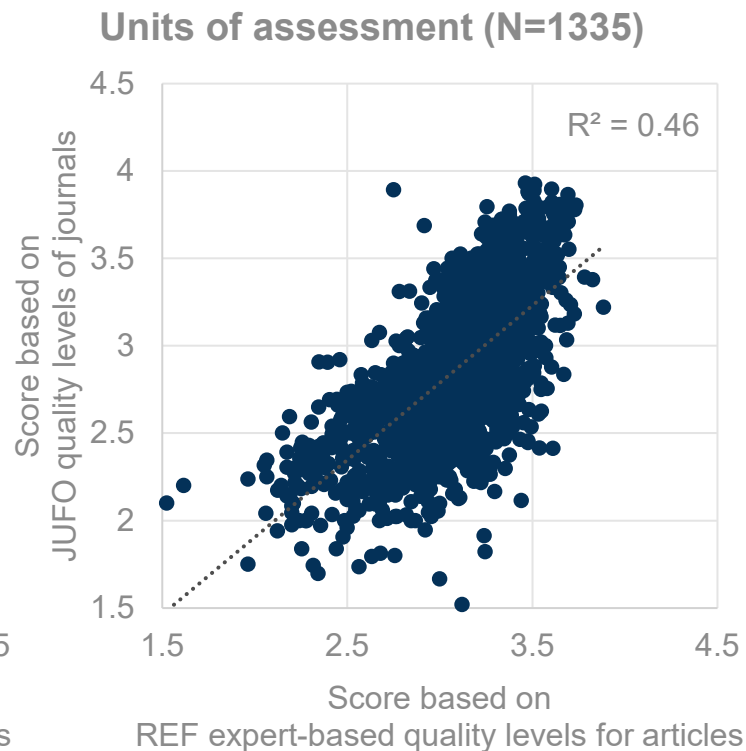
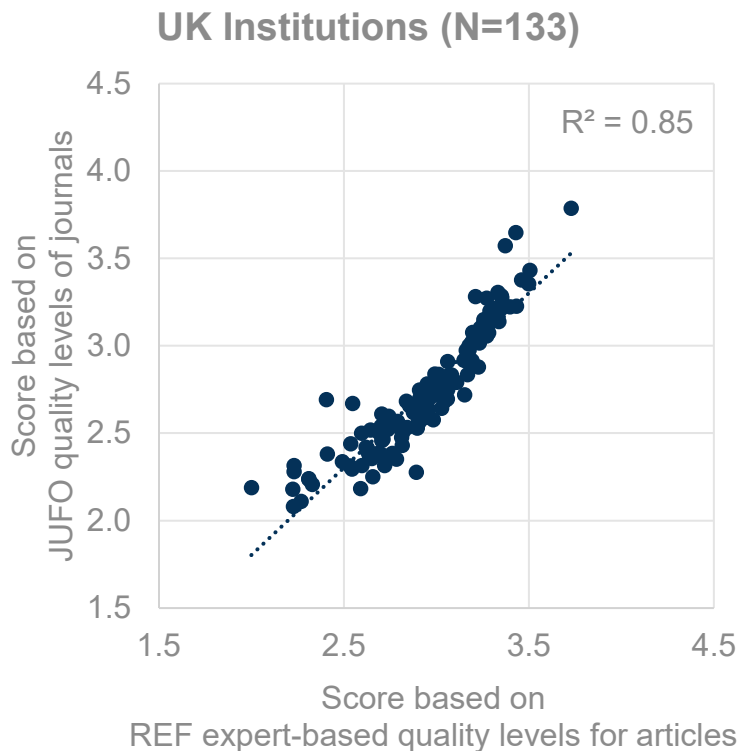
<https://psicologia.ucm.es/data/cont/media/www/807/02%20Glaenzel.pdf>



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Expert-based journal ranking vs peer-review: The case of UK REF 2021 (research in progress)

- 154,826 journal articles submitted to REF by 157 UK institutions in 34 subject-based units of assessment (UoA)
- All articles are evaluated by REF expert-panels to quality levels 4*, 3*, 2* and 1*
- 97% of articles are published in JUFO evaluated journals and can be assigned JUFO level 3, 2, 1 or 0.
- REF and JUFO produce consonant scores for universities and UoA's



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Lack of information on OS practices to support assessment?

- **Lack of reliable, comprehensive, well-structured and comparable qualitative and quantitative data** and metrics about most open science outputs, practices and impacts.
- Existing Information on research outputs, activities and impacts produced by researchers, institutions and infrastructures is **scattered across various platforms and difficult to use and reuse** systematically in assessments.
- Need to develop **interlinked non-profit open science infrastructures dedicated for supporting assessment** with a broad range of information about research and open science that is useful for assessments and evaluators.

MAKING
FAIRer
ASSESSMENTS
POSSIBLE

FINAL REPORT OF
EOSC CO-CREATION PROJECTS

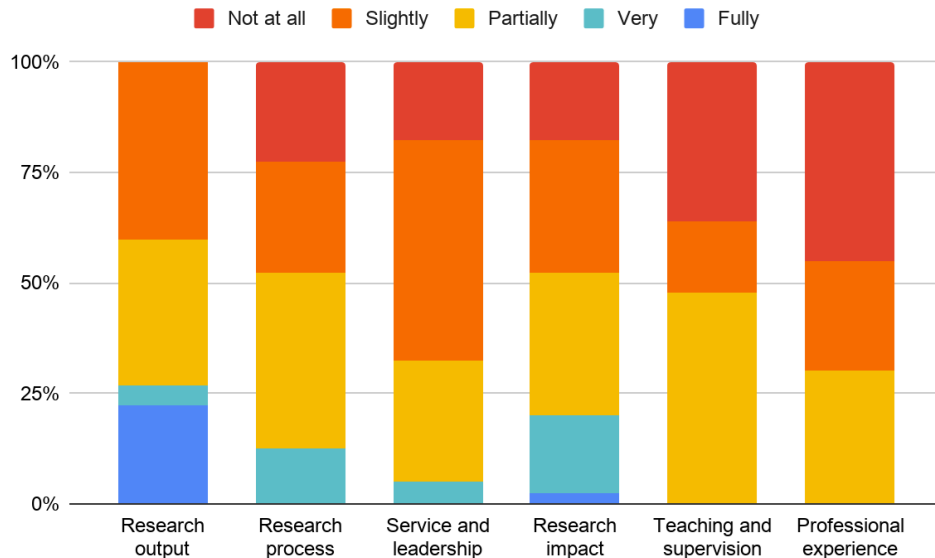
EUROPEAN OVERVIEW OF
CAREER MERIT SYSTEMS

AND

VISION FOR RESEARCH DATA
IN RESEARCH CAREERS

Full diversity of outputs and open science practices?

- Scientific publications yes, but limited representation of preprints, data, software, models, methods, theories, algorithms, protocols, workflows, exhibitions, strategies, policy contributions
- To what extent an OS-CAM* 42 criteria based academic career assessment could be built on top of five international and national research information platforms?



- CERIF (Common European Research Information Format)
- ORCID (Open Researchers and Contributor ID)
- Research.fi (Finland)
- NARCIS (The Netherlands)
- CRISTin (Norway)

*Open Science Career Assessment Matrix



EOSC Co-creation report (2021)

Making FAIReR assessments possible

- **FAIReR** = FAIR + Responsible
- **Responsible**: recognize diversity, differences between fields, based on robust data
- **FAIR**: findable, accessible, interoperable and reusable data for assessments



FAIReR ACADEMIC ASSESSMENTS





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Thank you for your attention!

Any questions?