Univerza v Ljubljani

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SENAT UL Številka: 031-11/2022 Datum: 25. 10. 2022

11. SEJA

3. TOČKA: Poročilo rektorja

I. Posodobitev sklepa Senata UL o imenovanju poročevalcev glede na spremembe zakonodaje

Predlagatelj gradiva: Komisija Senata UL za dodiplomski študij, Komisija Senata UL za magistrski študij in Komisija Senata UL za doktorski študij

Obrazložitev:

Senat UL je na 17. redni seji 19. 4. 2011 sprejel sklep o imenovanju poročevalcev pri akreditaciji študijskih programov in spremembah obveznih sestavin študijskih programov:

»SKLEP št. 6.2

Senat UL sprejema predlog, da bodo komisije Senata UL (Komisija za dodiplomski študij, Komisija za magistrski študij in Komisija za doktorski študij) zaradi zagotavljanja kakovosti študijskih programov UL zagotovile:

- ob prvi akreditaciji študijskega programa: tri poročevalce (dva strokovnjaka z ustreznega področja in enega člana komisije, v primeru doktorskih študijskih programov bo eden od poročevalcev iz tujine),
- ob podaljšanju akreditacije študijskega programa: vsaj enega poročevalca (praviloma člana komisije), če pa so ob podaljšanju akreditacije ugotovljene večje spremembe, ki bistveno vplivajo na študijski program, pa lahko poleg tega še enega strokovnjaka z ustreznega področja,
- ob večjih spremembah študijskih programov: poročevalca, kadar komisija oceni, da za sklepanje o večjih spremembah potrebuje še mnenje imenovanega člana komisije ali strokovnjaka z ustreznega področja. Ker podaljšanj akreditacij študijskih programov ZViS ne predvideva več (druga alineja zgornjega sklepa), je treba sklep posodobiti. Posodobitev sklepa so obravnavale vse tri študijske komisije Senata UL Komisija za dodiplomski študij, Komisija za magistrski študij in Komisija za doktorski študij.«

Predlog novega, posodobljenega sklepa:

SKLEP št. 3.1.:

Senat UL sprejema predlog, da bodo komisije Senata UL (Komisija za dodiplomski študij, Komisija za magistrski študij in Komisija za doktorski študij) zaradi zagotavljanja kakovosti študijskih programov UL imenovale:

- ob akreditaciji študijskega programa: tri poročevalce (dva strokovnjaka z ustreznega področja in enega člana komisije, v primeru doktorskih študijskih programov bo eden od poročevalcev iz tujine),

ob obsežnejših spremembah obveznih sestavin študijskega programa na prvi in drugi stopnji: enega poročevalca, člana pristojne študijske komisije oziroma strokovnjaka z ustreznega področja,
ob spremembah obveznih sestavin študijskega programa na tretji stopnji: enega poročevalca, člana pristojne študijske komisije, lahko pa dodatno tudi še strokovnjaka z ustreznega področja.
Sklep velja do preklica. Z dnem sprejetja tega sklepa preneha veljati sklep št. 6.2., ki je bil sprejet na 17. redni seji dne 19. 4. 2011.

II. Pristop k sporazumu o reformi ocenjevanja raziskovalnega dela

SKLEP št. 3.2.:

Senat UL se strinja, da UL pristopi k podpisu sporazuma o reformi ocenjevanja raziskovalnega dela, kot sledi iz priloge.

III. Poročilo rektorja

SEZNANITEV:

Senat UL se seznani s poročilom rektorja.

Univerza *v Ljubljani* Universitas *Labacensis*

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202-01/11 R, GT, MS

20. april 2011

ČLANICAM UNIVERZE V LJUBLJANI

Zadeva: Sklep Senata Univerze v Ljubljani z 19. aprila 2011

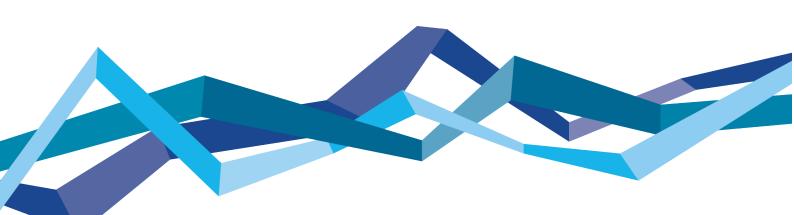
Senat Univerze v Ljubljani je 19. aprila 2011 sprejel **sklepe,** s katerimi bo Univerza v Ljubljani v postopkih akreditacije zagotavljala kakovost študijskih programov:

- 1. **Ob prvi akreditaciji študijskega programa** bo pristojna komisija Senata UL imenovala tri poročevalce (dva strokovnjaka z ustreznega področja in enega člana komisije), za doktorske študijske programe bo eden izmed treh poročevalcev iz tujine.
- 2. **Ob podaljšanju akreditacije študijskega programa** bo pristojna komisija Senata UL imenovala vsaj enega poročevalca (praviloma člana komisije), če pa so ob podaljšanju akreditacije ugotovljene večje spremembe, ki bistveno vplivajo na študijski program, pa lahko poleg tega še enega strokovnjaka z ustreznega področja,
- 3. **Ob večjih spremembah študijskih programov** bo pristojna komisija Senata UL imenovala poročevalca, kadar komisija oceni, da za sklepanje o večjih spremembah potrebuje še mnenje imenovanega člana komisije ali strokovnjaka z ustreznega področja.

GLÁVÍN TAJNÍK Andreja Kert, univ. dipl. prav. REKTOR prof. dr. Radovan Stanislav Pejovnik

AGREEMENT ON REFORMING RESEARCH ASSESSMENT

20 July 2022



As signatories of this Agreement, we agree on the need to reform research assessment practices. Our vision is that the assessment of research, researchers and research organisations recognises the diverse outputs, practices and activities that maximise the quality and impact of research. This requires basing assessment primarily on qualitative judgement, for which peer review is central, supported by responsible use of quantitative indicators. Among other purposes, this is fundamental for: deciding which researchers to recruit, promote or reward, selecting which research proposals to fund, and identifying which research units and organisations to support.

In the context of this Agreement, research assessment encompasses:

- The assessment of research performing organisations and research units, by assessment authorities, research funding and performing organisations, for the purposes of allocating funding; public investment accountability; informing decisions on research priorities and improving the definition and implementation of research strategies.
- The assessment of research projects by assessment authorities, research funding and performing organisations, and prize awarding organisations; for the purposes of allocating funding, informing project management and future research funding decisions, and making prize and award decisions.
- The assessment of individual researchers and research teams by research funding and performing organisations and prize awarding organisations; for the purposes of allocating funding, recruitment and hiring promotion, professional development review, and prize and award decisions.

The Agreement focuses on the specific challenges involved in reforming the research assessment of researchers, research projects, research units and research organisations. It does not consider research performance at country level. Performance reviews of institutions, which often consider activities beyond research, are outside the scope of this Agreement. While academic assessment is beyond the scope, organisations may take the opportunity to extend the Principles and Commitments of this Agreement to academic assessment.

This Agreement establishes a common direction for research assessment reform, while respecting organisations' autonomy.

We commit to achieve reform through a Coalition of research funding organisations, research performing organisations, national/regional assessment authorities and agencies, as well as associations of the above organisations, learned societies and other relevant organisations, that is global in scope. We will work together to enable systemic reform on the basis of common principles within an agreed timeframe, and to facilitate exchanges of information and mutual learning between all those willing to improve research assessment practices.

To this end, we agree to:

I. Base our actions on the following Principles:

Principles for overarching conditions

- Comply with ethics and integrity rules and practices, and ensure that ethics and integrity are the highest priority, never compromised by any counter-incentives. Verify before or during assessment that the highest standards of general and research- specific ethics and integrity are met. Value methodological rigour to guard against sources of bias, and promote extended forms of professional and scientific integrity, showing adherence to moral standards of conduct, and include behaviours such as early sharing of research data and results, building on the work of others, and subjecting oneself to critical external validation.
- Safeguard freedom of scientific research. By putting in place assessment frameworks that do
 not limit researchers in the questions they ask, in their research implementation, methods or
 theories. By limiting the assessment frameworks to only those necessary, as assessment must
 be useful for researchers, institutions and funders.
- Respect the autonomy of research organisations. By safeguarding the independence of research performing organisations in the evaluation of their researchers while implementing the present principles, yet striving to prevent contradictions between the assessment of research, researchers and institutions, and between institutions, to avoid fragmentation of the research and innovation landscape and to enable the mobility of researchers.
- 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.

Principles for assessment criteria and processes

Quality and impact

- Focus research assessment criteria on quality. Reward the originality of ideas, the professional research conduct, and results beyond the state-of-the-art. Reward a variety of research missions, ranging from basic and frontier research to applied research. Quality implies that research is carried out through transparent research processes and methodologies and through research management allowing systematic re-use of previous results. Openness of research, and results that are verifiable and reproducible where applicable, strongly contribute to quality. Openness corresponds to early knowledge and data sharing, as well as open collaboration including societal engagement where appropriate. Assessment should rely on qualitative judgement for which peer review is central, supported by responsibly used quantitative indicators where appropriate.
- Recognise the contributions that advance knowledge and the (potential) impact of research results. Impact of research results implies effects of a scientific, technological, economic and/or societal nature that may develop in the short, medium or long-term, and that vary

according to disciplines and research types (e.g. basic and frontier research vs. applied research).

Diversity, inclusiveness and collaboration

- Recognise the diversity of research activities and practices, with a diversity of outputs, and reward early sharing and open collaboration. Consider tasks like peer review, training, mentoring and supervision of Ph.D candidates, leadership roles, and, as appropriate, science communication and interaction with society, entrepreneurship, knowledge valorisation, and industry-academia cooperation. 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. Recognise that researchers should not excel in all types of tasks and provide for a framework that allows researchers to contribute to the definition of their research goals and aspirations.
- Use assessment criteria and processes that respect the variety of scientific disciplines, research types (e.g. basic and frontier research vs. applied research), as well as research career stages (e.g. early career researchers vs. senior researchers), and that acknowledge multi-, inter-, and trans-disciplinary as well as inter-sectoral approaches, when applicable. Research assessment should be conducted commensurately to the specific nature of scientific disciplines, research missions or other scientific endeavours.
- Acknowledge and valorise the diversity in research roles and careers, including roles outside
 academia. Value the skills (including open science skills), competences and merits of individual
 researchers, but also recognise team science and collaboration.
- Ensure gender equality, equal opportunities and inclusiveness. Consider gender balance, the
 gender dimension, and take into account diversity in the broader sense (e.g. racial or ethnic
 origin, sexual orientation, socio-economic, disability) in research teams at all levels, and in the
 content of research and innovation.

II. Implement the following Commitments:

Core commitments

The core commitments include two commitments to enable better recognition of the diverse practices and activities that maximise the quality of research as well as two commitments to enable a move away from inappropriate uses of metrics.

1. Recognise the diversity of contributions to, and careers in, research in accordance with the needs and nature of the research

Purpose: This commitment will broaden recognition of the diverse practices, activities and careers in research, considering the specific nature of research disciplines and other research endeavours.

Scope: 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;
- practices that contribute to robustness, openness, transparency, and the inclusiveness of research and the research process including: peer review, teamwork and collaboration;
- activities including teaching, leadership, supervision, training and mentoring.

It is also important that assessment facilitates the recognition and valorisation of diverse roles and careers in research, including: data steward, software engineer and data scientist roles, technical roles, public outreach, science diplomacy, science advice and science communicator roles to name a few. It is recognised that current practice is often too narrow and limiting, so the goal cannot be to replace the narrow criteria we wish to move away from with different but equally narrow criteria. Instead, the aim is to allow organisations to broaden the spectrum of what they value in research, while acknowledging that this may vary across disciplines and that each individual researcher should not be expected to contribute to all activities at once.

2. Base research assessment primarily on qualitative evaluation for which peer review is central, supported by responsible use of quantitative indicators

Purpose: This commitment will enable the move towards research assessment criteria that focus primarily on quality, while recognising that responsible use of quantitative indicators can support assessment where meaningful and relevant, which is context dependent.

Scope: Research assessment should rely primarily on qualitative assessment for which peer review is central, supported by responsibly used quantitative indicators where appropriate. Peer review is the most robust method known for assessing quality and has the advantage that it is in the hands of the research community. It is important that peer review processes are designed to meet the fundamental principles of rigor and transparency: expert assessment, transparency, impartiality, appropriateness, confidentiality, integrity and ethical considerations, gender, equality and diversity. To address the biases and imperfections to which any method is prone, the research community re-assesses and improves peer review practices regularly. Revised, or potentially new, criteria, tools and processes appropriate for assessing quality could be explored alongside peer review. Moving towards assessment practices that rely more heavily on qualitative methods may require additional efforts from researchers. Researchers should be recognised for these efforts and their contributions to reviewing peers' work should be valued as part of their career progression.

¹ Global Research Council (2018): Statement of Principles on Peer/Merit Review

3. Abandon inappropriate uses in research assessment of journal- and publicationbased metrics, in particular inappropriate uses of Journal Impact Factor (JIF) and h-index

Purpose: This commitment will reduce the dominance of a narrow set of quantitative journaland publication-based metrics.

Scope: Inappropriate uses of journal- and publication-based metrics in research assessment should be abandoned. In particular, this means moving away from using metrics like the Journal Impact Factor (JIF), Article Influence Score (AIS) and h-index as proxies for quality and impact. 'Inappropriate uses' include:

- relying exclusively on author-based metrics (e.g. counting papers, patents, citations, grants, etc.) to assess quality and/or impact;
- assessing outputs based on metrics relating to publication venue, format or language;
- relying on any other metrics that do not properly capture quality and/or impact.

4. Avoid the use of rankings of research organisations in research assessment

Purpose: This commitment will help avoid that metrics used by international rankings, which are inappropriate for assessing researchers, trickle down to research and researcher assessment. It will help the research community and research organisations regain the autonomy to shape assessment practices, rather than having to abide by criteria and methodologies set by external commercial companies. This could include retaining control over ranking methodologies and data.

Scope: Recognising that the international rankings most often referred to by research organisations are currently not 'fair and responsible'², the criteria these rankings use should not trickle down to the evaluation of individual researchers, research teams and research units. Research organisations should also be mindful that public communication (e.g. the active advertising of an institution's rank) can contribute to the perception that research quality conflates with ranking positions.

Where ranking approaches are deemed unavoidable, as may be the case in forms of evaluation beyond the scope of this Agreement such as benchmarking and performance reviews of countries or institutions, the methodological limitations of such approaches should be acknowledged, and institutions should avoid trickle-down effects on research and researcher assessment.

6

² As defined, for example, by INORMS: https://inorms.net/wp-content/uploads/2022/07/principles-for-fair-and-responsible-university-assessment-v5.pdf

Supporting commitments

The supporting commitments include three commitments to enable the move towards new research assessment criteria, tools and processes, and three commitments to facilitate mutual learning, communicate progress and ensure that new approaches are evidence informed.

5. Commit resources to reforming research assessment as is needed to achieve the organisational changes committed to

Purpose: This commitment will ensure that organisations allocate the necessary resources, whether in the form of budget or staff capacity, to improve research assessment practices within their agreed timeframe.

Scope: Resource allocation by assessment authorities and research funding and performing organisations is a necessary condition for reforming assessment practices. Resources should be allocated as is needed for each organisation to achieve the changes that will enable adherence to the Principles and to implement the Commitments. This includes resources to:

- implement changes in research assessment, including planning and progress monitoring;
- raise awareness among all actors;
- educate, train and support researchers and any other staff involved in assessment, including peer-reviewers and assessors; and
- support the necessary infrastructure such as tools and services for the transparent collection and processing of data on research assessment practices.

Particular attention should be paid to making resources available to enable the engagement of researchers at all career stages in reforming research assessment.

Review and develop research assessment criteria, tools and processes

6.1 CRITERIA FOR UNITS AND INSTITUTIONS

With the direct involvement of research organisations and researchers at all career stages, review and develop criteria for assessing research units and research performing organisations, while promoting interoperability

Purpose: This commitment will ensure that national / regional / organisational authorities and evaluation agencies review and, where needed, develop criteria for the assessment of research performing units and organisations, in accordance with the Principles. It will foster the responsible use of metrics in assessing research performing units and organisations, and help to prevent contradictions or incompatibilities between the assessment of research, researchers and research performing organisations. It will also safeguard the interoperability of adapted or newly developed assessment processes.

Scope: Criteria for the assessment of research performing units and organisations, including universities, research centres, and research infrastructures, should be reviewed and adapted, and new criteria developed where needed, based on evidence. This should be done in close collaboration with assessors and those that will be assessed, including

research organisations and researchers. The changes should increase the ability to assess quality by enabling recognition of all contributions to quality research by research units and institutions. Such recognition includes that of early sharing of data and results, open collaboration, teamwork; and consideration of contributions to the research ecosystem, knowledge generation and scientific, technological, economic, cultural and societal impact. National / regional / organisational authorities and evaluation agencies should coordinate to ensure their methodologies and processes are interoperable, while simultaneously respecting the necessary adaptation to each context.

6.2 CRITERIA FOR PROJECTS AND RESEARCHERS

With the direct involvement of researchers at all career stages, review and develop criteria, tools and processes for the assessment of research projects, research teams and researchers that are adapted to their context of application

Purpose: This commitment will enable recognition of the diverse research activities and practices through the revision and development of assessment criteria, tools, and processes. It will ensure that organisations review their processes and make tangible changes by developing existing or new assessment approaches, individually or in collaboration with others, in accordance with the Principles.

Scope: Criteria, tools and processes should be reviewed and developed together with researchers in different disciplines and at different career stages; and should enable recognition of the diversity of research activities and practices that contribute to research quality, including diverse outputs in different languages. This should increase the ability to assess quality by enabling recognition of all contributions to quality research from research projects and by researchers and research teams. This includes recognition of early sharing of data and results, open collaboration, and teamwork. Reformed practices for assessing individual researchers should consider future potential alongside track record and take into account researchers' individual contexts and careers. They should also recognise that researchers cannot excel in all types of tasks and provide for a framework that allows researchers to contribute to the definition of their research goals and aspirations. Research assessment by research funders should consider disciplinary, multi-, inter-, and trans-disciplinary research as well as contributions to knowledge generation and scientific, technological, economic, cultural and societal impact.

7. Raise awareness of research assessment reform and provide transparent communication, guidance, and training on assessment criteria and processes as well as their use

Purpose: This commitment will ensure that organisations raise awareness of the reform among all actors. It will ensure that organisations transparently communicate the criteria, tools and processes used for research assessment and train researchers and assessors in their use.

Scope: Without widespread awareness of the reform and training of those assessed and, crucially, assessors, progress will be slow - if not impossible. Organisations should be clear and transparent about assessment processes and the tools and criteria they use. They should make guidance on their assessment approaches openly available and train those involved in the assessment process. They should allow those assessed to have access to the criteria, data and reviews or deliberation outcomes used in their assessment within the limits of confidentiality. Particular attention should be paid to raising awareness among researchers at all career stages.

8. Exchange practices and experiences to enable mutual learning within and beyond the Coalition

Purpose: This commitment will ensure organisations exchange and make use of information for mutual learning. It will help avoid fragmentation, contribute to the coherence of assessment practices between organisations, and enable researcher mobility. It also will allow those further ahead to share approaches and lessons learned, to benefit those who have further to go on their reform journey.

Scope: While respecting each other's autonomy, organisations should share practices and experiences to facilitate mutual learning. This exchange should include contributing to the development of guidance and common approaches in order to minimise contradictions or incompatibilities between the assessment practices used by different organisations. It should also include sharing of lessons learned to ensure continuous mutual improvements.

9. Communicate progress made on adherence to the Principles and implementation of the Commitments

Purpose: This commitment will ensure organisations update one another on the progress made. It will foster careful self-reflection and monitoring of their own adherence to the Principles and progress towards meeting the Commitments.

Scope: Demonstrating progress made towards implementing the Commitments and adherence to the Principles is an important part of this initiative. Organisations should commit to regularly update each other and their communities on their adherence and progress. This process involves being open to scrutiny from their own communities, sharing successes as well as challenges, and communicating their experiences to facilitate collective progress.

10. Evaluate practices, criteria and tools based on solid evidence and the state-ofthe-art in research on research, and make data openly available for evidence gathering and research

Purpose: This commitment will ensure that assessment approach decisions are evidence informed. It will help organisations reflect on their own processes, gain understanding about whether assessment practices achieve the desired goals, and engage in evolutive assessment based on new evidence as it becomes available. It will also help to ensure control and ownership of research assessment data by the research community.

Scope: Growing evidence shows that current assessment processes that rely on publication-and journal-based metrics are prone to multiple biases. As approaches using more qualitative research assessment are piloted by several organisations (e.g. narrative and evidence-based CVs, new assessment frameworks and indicators), it is important to evaluate and monitor their impact based on evidence and rigorous methods. Organisations should contribute to the evidence base on research assessment in order to make this possible. For example, it could be achieved by making data that can be used for research on research available, by participating in research on research, or by funding research on research. Data sharing should be the minimum commitment and data should be shared through open infrastructure, while respecting personal data protection.

III. Organise and operate the Coalition along the following principles:

- Signatories of the Agreement will be entitled to become members of the Coalition, provided they meet the conditions for membership established in the governance documents of the Coalition. They may leave the Coalition at any time.
- The Coalition will comprise its members; the General Assembly will define its detailed organisation and operating rules and procedures.
- The Coalition will offer a space for mutual learning and collaboration that supports and facilitates the implementation of the Commitments by the members, while respecting their autonomy.
- For this purpose, working groups will be established on specific topics as 'Communities of practice'. Working groups will be proposed at the initiative of members and other members' participation is voluntary. Other means, such as workshops or webinars, may also be used to support mutual learning and collaboration.
- The communication of individual members' progress in implementing the Commitments will primarily be based on publicly shared self-assessment. Such a trust-based approach is expected to facilitate information exchange and collaboration, including joint experimentation, when appropriate.
- Support for Coalition work will primarily consist of cash and in-kind contributions from the members, or funding from research funding organisations.
- The Coalition's work will be supported by a 'lean' organisation. Decision-making will rely on the General Assembly, and structures such as a Steering Board, supported by a Secretariat. The Coalition should have the capacity to manage its budget.
- Mechanisms for periodic interactions with, and involvement of, national and regional authorities will ensure national/regional policies and frameworks are conducive to the Coalition's work.
- The Coalition will seek collaboration, complementarities and synergies with other existing initiatives and organisations, as appropriate.

IV. Respect the following timeframe:

- The signatories of this Agreement agree to share with each other and with their community
 how their organisation has started the process of reviewing or developing criteria, tools and
 processes in line with the core Commitments and according to an action plan with defined
 milestones, by the end of 2023 or within one year of signing the Agreement.
- Signatories of this Agreement agree to regularly demonstrate progress towards reviewing, developing and evaluating criteria, tools and processes that fulfil the core Commitments, with a touch point at end of 2027 or within five years of signing the Agreement, by which time they will have worked through at least one cycle of review and development of their assessment criteria, tools and processes.

Signatories that are not assessing research projects, researchers, research units or research performing organisations commit to contribute to the reform and share progress with each other and the community respecting the same timeframe.

By signing this Agreement, signatories are entitled to become a member of the Coalition. While acknowledging that this Agreement does not have any legally binding effect, it represents a public commitment to contribute actively and constructively to reforming research assessment.

Signature and date
Name and position of the signatory representing the organisation
 Name, position and contact details at the organisation for coordinating signature follow-up

The following annexes do not form an integral part of the Agreement; they are provided to support its implementation. Annex 1 outlines the need for reform, Annex 2 clarifies the terminology used, Annex 3 suggests a reform journey, and Annex 4 provides an initial toolbox containing practical tools and options for consideration.

Annex 1 – The need for research assessment reform

Research assessment reform

Shared commitments for research assessment reform, to be achieved in an agreed timeframe, will enable recognition of the diverse outputs, practices and activities that maximise the quality of research and its resulting impacts, facilitate a move away from inappropriate uses of journal- and publication-based metrics, and reinforce trust in research.

There is broad agreement on the need for research assessment reform - There is broad agreement among the research community that to further support the quality of research and the attractiveness of research environments, research assessment practices need to be reformed. This is due to a variety of interconnected underlying reasons, including i) to allow research assessment to support positive research cultures; ii) to ensure assessment practices stay relevant as research processes and the expectations of research evolve; and iii) to live up to the increasing demands placed on research by the many societal, environmental, democratic, and economic challenges we face. While the motivations behind this process may differ, they all point in the same direction: reform is needed, primarily to further support the quality of research.

Assessment processes relying predominantly on journal- and publication-based metrics are known to result in a 'publish or perish' culture that falls short of recognising diverse approaches and could come at the expense of quality – The dominance of narrow journal- and publication-based metrics, which are often used inappropriately in research assessment, can be a hurdle to the recognition of diverse contributions and may negatively affect the quality and impact of research. For example, this dominance can: promote quantity and speed at the expense of quality and rigour; lead to the emergence of predatory journals and conferences; encourage publishing in paywalled journals because of their high impact factors, despite the availability of open access alternatives; lead to risk-aversity because taking risks may reduce the chances of publication; generate excessive attention to rankings that hinders collaboration; and waste efforts, time and resources through the duplication of work as 'negative' findings go largely unreported. Research assessment practices should induce a research culture that recognises collaboration, openness, and engagement with society, and that provides opportunities for multiple talents.

Joint commitment is needed that builds on progress made - Several organisations, inspired by the <u>San Francisco Declaration on Research Assessment (DORA)</u>, the principles proposed by the <u>Leiden Manifesto</u> for research metrics, and the <u>Hong Kong Principles</u> for assessing researchers, have already started reforming research assessment. Coordinated action now is needed to build on this and gather sufficient mass to enable systemic reform of research assessment practices.

Coalition on research assessment reform

The Coalition invites all organisations to join, and thereby contribute to advancing research assessment reform, and enable recognition of the diverse practices and activities that maximise the quality of research.

Collaboration on the basis of common principles will facilitate progress in research assessment reform – Thus far, progress across research organisations and countries has been uneven, and ongoing efforts are fragmented. Collaboration on research assessment reform will allow signatories to move forward on the basis of common principles. This will also diminish the perceived 'first-mover-disadvantage' involved in changing a culture of research assessment based on quality, trust and risk-taking that is applied globally.

The Coalition will allow signatories to test different approaches while avoiding contradictions across assessment practices – The Coalition will facilitate exchange of information and mutual learning, and will enable access to tools, networks and working groups so that decisions can be evidence informed, and so that those currently less advanced on their reform journey can benefit from established good practice and build capability swiftly. It will allow signatories to, individually or collectively, develop, pilot and implement, assessment criteria, tools and processes; while avoiding contradictions across assessment systems, types and purposes, through continuous dialogue. The Coalition does not aim to overhaul existing practices overnight, but to facilitate reform through an iterative process that leaves room for diverse starting points and approaches.

To reform research assessment, the Coalition has developed this Agreement, whereby organisations commit to implement tangible changes within an agreed timeframe and/or share insights on changes that have already been made – The Coalition on reforming research assessment is global in scope and brings together research funding organisations, research performing organisations, national/regional assessment authorities and agencies, as well as associations of the above organisations, learned societies and other relevant organisations, all willing and committed to improve research assessment practices within an agreed timeframe. Research organisations have achieved different levels of progress in research assessment reform. Leading organisations in this field will be able to share their insights and support the development of a coherent assessment ecosystem. Organisations that have not yet engaged in reforms will be able to identify and learn from successful ideas and practices.

Contextual considerations

Favourable framework conditions and sustainable funding are needed to achieve reform – Organisational reform initiatives are sometimes hampered by national regulations or their limited autonomy under national systems. The Coalition calls on national administrations to ensure that national framework conditions facilitate reform. Current inappropriate uses of journal- and publication-based metrics may be exacerbated by the pressure on research systems due to the very limited amounts of funding available compared to the pipeline of talented researchers competing for that funding. The move towards more qualitative assessment could also require additional resources if not accompanied by changes in assessment frequency. Sustainable levels of funding and a balance between competitive and non-competitive funding streams will therefore be critical to reform.

Assessment practices should vary depending on the type and purpose of assessment concerned – Reformed practices for assessing individual researchers for the purposes of recruitment or career evaluation should consider their individual contexts and careers. Research units should be assessed not only on their research outputs, but also on their broader contribution to the research ecosystem. Research assessment by research funders should consider disciplinary, multi-, inter-, and trans-disciplinary research, as well as the contribution to knowledge generation and scientific, technological, economic, cultural and societal impact. Many research careers go beyond research and include teaching, patient care, academic citizenship and other roles, and it is important to consider this work in their evaluation. While this Agreement focuses on the specific challenges of improving research assessment, it may provide an opportunity for academic institutions to extend the Principles of this Agreement to broader academic assessment that includes research, teaching and service to society.

Reform processes should enable the reinforcement of the autonomy, profile and strategic goals of research organisations and allow for differences in implementation – Reform will need to be flexible and adapted by research organisations to take into account the diversity of disciplines, the variety of competency areas and talents, the differences between cultures, countries and regions, the diversity of languages used in the performance and communication of research, the diversity of research maturity levels, the diversity of research organisations and their missions, as well as the differences between career stages, ranging from early career to senior. The direct involvement of researchers and organisations able to represent this diversity will be critical to successful reform.

Annex 2 - Glossary

Research assessment – In the context of this Agreement, research assessment encompasses:

- The assessment of research performing organisations and research units, by assessment authorities, research funding and performing organisations, for the purposes of allocating funding; public investment accountability; informing decisions on research priorities and improving the definition and implementation of research strategies.
- The assessment of research projects by assessment authorities, research funding and performing organisations, and prize awarding organisations; for the purposes of allocating funding, informing project management and future research funding decisions, and making prize and award decisions.
- The assessment of individual researchers and research teams by research funding and performing organisations and prize awarding organisations; for the purposes of allocating funding, recruitment and hiring promotion, professional development review, and prize and award decisions.

Researcher – In the context of this Agreement the term researcher refers to all fields of research and scholarly pursuits and at all career stages, including doctoral candidates.

Research culture – In the context of this Agreement, we adopt the Royal Society's definition of research culture: "Research culture encompasses the behaviours, values, expectations, attitudes and norms of our research communities. It influences researchers' career paths and determines the way that research is conducted and communicated."³

Research on research – In the context of this Agreement, research on research (also known as meta-research, the science of science and meta-science) is defined as the study of research itself.

Quality – In the context of this Agreement, research quality is defined as is captured in the principles [under 'Quality and impact'].

Impact – In the context of this Agreement, impact is defined as is captured in the principles [under 'Quality and impact'].

Diversity – In the context of this Agreement, diversity is defined as is captured in the principles [under 'Diversity, inclusiveness and collaboration'].

Ethics and integrity – In the context of this Agreement, ethics and integrity are defined as is captured in the principles [under 'Principles for overarching conditions'].

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³ https://royalsociety.org/topics-policy/projects/research-culture/

Annex 3 – Reform journey: a suggested process for achieving the Commitments

The reform journey⁴ sets out a suggested, non-prescriptive step-by-step process to help organisations achieve the Commitments. This journey is presented as chronological steps; however, the change process will probably not be chronological, and organisations can adapt the journey and start from the step they deem most appropriate for their context.

- 1 **Allocate resources**, whether in terms of capacity or budget, to actively engage in the reform journey
- 2 **Communicate your intention to reform**, explain how you have started the process of reviewing or developing criteria, tools and processes in line with the core commitments
- 3 **Evaluate current assessment practices** in terms of alignment with the Principles and Commitments, consider also what currently works well and how this can be retained in parallel to any new practice *Re-evaluate at fixed intervals, whenever broad reforms to assessments are implemented, or when problems are identified*
- 4 **Engage those being assessed in the development and design of assessment criteria and processes**, work with researchers to enable consideration of differences between disciplines and career levels
- 5 **Develop existing and design new assessment criteria, tools, and processes** with assessors and those that are assessed; consider the diversity of contributions including: diverse outputs beyond journal publications and in different languages; diverse practices including those that contribute to robustness, openness, transparency, and inclusiveness of research and the research process including peer review, teamwork and collaboration; and diverse activities including teaching, leadership, supervision, training, and mentoring, according to the nature of each research discipline
- 6 **Interrogate developed and new approaches** by working with assessors and those that are assessed (e.g. who might new approaches discriminate against; how might they be gamed; what are the potential unintended consequences)
- 7 **Implement developed and new assessment criteria, tools, and processes** according to the Principles and Commitments; consider awareness raising, rewards, policies, training, infrastructure, and capacity building and include data collection to support monitoring, evaluation and mutual learning
- 8 Evaluate developed and new assessment criteria, tools, and processes
- 9 Share data / information, participate in mutual learning within and beyond the Coalition, supported by mechanisms developed by the Coalition
- 10 Coordinate with other organisations at national and international level, and promote international coordination and harmonisation
- 11 Continue to evolve assessment criteria, tools, and processes based on learning from own evaluations and those of others

⁴ Inspired by SCOPE (https://inorms.net/scope-framework-for-research-evaluation/)

Annex 4 - Toolbox: practical tools and options to consider

Note to the Reader: we have added the draft toolbox to enable a more comprehensive overview. However, the toolbox is subject to continuous development and will take the form of a 'living' document/webpage.

Commitment	Examples of tools to support this commitment/ options to consider	
Recognise the diversity of contributions to, and careers in, research in accordance with the needs and nature of the research	 Enable greater diversity in career paths and profiles by recognising more diverse competencies and talents⁵ Use approaches that allow academics to make a mark in one or more key areas of study that are important to them, and allow their area profile to change over the course of their career⁶ Use a portfolio approach to test competencies or progression in different domains relevant to the researcher's role⁷ 	
Base research assessment primarily on qualitative evaluation for which peer review is central, supported by responsible use of quantitative indicators	 Consider specific actions captured under the Leiden Manifesto⁸ Explore options for assessment; as a rule of thumb, use quantitative indicators for quantitative things (if that is what is appropriate to assess): publications, funding, citations and students, and qualitative indicators (such as case studies, narratives or statements) for qualitative things: excellence, quality, value, impact, and be very cautious about using quantitative indicators for qualitative things⁹ Actively engage in and learn from research on research work to develop new improved metrics, and consider appropriateness of their use 	

⁵ https://www.universiteitenvannederland.nl/recognitionandrewards/wp-content/uploads/2019/11/Position-paper-Room-for-everyone%e2%80%99s-talent.pdf

⁶ https://www.universiteitenvannederland.nl/recognitionandrewards/wp-content/uploads/2019/11/Position-paper-Room-for-everyone%E2%80%99s-talent.pdf

⁷ https://embassy.science/wiki/Resource:Ca0ed587-ac8e-4259-9cc7-74de01941cd1; https://assets-eu-01.kc-usercontent.com/546dd520-97db-01b7-154d-79bb6d950a2d/6eb2e1cc-068a-4283-b6dea281868b749d/Qualification-portfolio-professors-UMC%20Utrecht.pdf

⁸ https://doi.org/10.1038/520429a

⁹ https://thebibliomagician.wordpress.com/2019/12/11/introducing-scope-aprocess-for-evaluating-responsibly/

Abandon inappropriate uses in research assessment of journal- and publication-based metrics, in particular inappropriate uses of Journal Impact Factor (JIF) and hindex	 Consider specific actions described in the San Francisco Declaration on Research Assessment (DORA)¹⁰ and the Leiden Manifesto¹¹
Avoid the use of rankings of research organisations in research assessment	 Consider specific actions described in the INORMS¹² tools for rethinking global university rankings Consider the recommendations in the Metric Tide report¹³
Commit resources to reforming research assessment as is needed to achieve the organisational changes committed to	
Review and develop research assessment criteria, tools and processes	
[Part 1 – Criteria for units and institutions] With the direct involvement of research organisations and researchers at all career stages, review and develop criteria for assessing research units and research performing organisations, while promoting interoperability	Consider a 'narrative CV for institutions' that could include case studies on how early sharing of data or collaboration efforts have resulted in knowledge generation e.g. others building on shared data or collaboration leading to outputs or impacts that otherwise would not have been achieved
[Part 2 – Criteria for projects and researchers] With the direct involvement of researchers at all career stages, review and develop criteria, tools and processes for the assessment of research projects, research teams and researchers that are adapted to their context of application	Pilot alternative/new assessment criteria, tools, and processes (e.g. narrative CV format, competency-based CV format, evidence-based CV format, diversification of research careers and associated career progression) – a more comprehensive overview of options is set out under 'tools to support steps in the reform journey'
Raise awareness of research assessment reform and provide transparent communication, guidance, and training on assessment criteria and processes as well as their use	 Host webinars to inform applicants of assessment processes and allow for questions and answers Provide training, guidance and support to assessment panels, committees and juries Publish webpages and reports to communicate the transparency of research evaluation processes¹⁴ Ensure transparency of research assessment processes - good examples for promoting transparency include: strict conflict-of-interest regulations, applicant right-to-reply procedures, and open (non-anonymous) reviewing¹⁵

¹⁰ https://sfdora.org/read/

¹¹ https://doi.org/10.1038/520429a

 $^{12\ \}underline{https://inorms.net/wp-content/uploads/2022/07/principles-for-fair-and-responsible-university-assessment-v5.pdf}$

¹³ https://doi.org/10.13140/RG.2.1.4929.1363

 $^{14\ \}underline{\text{https://www.scienceeurope.org/our-priorities/research-assessment/research-assessment-processes/}$

^{15 &}lt;a href="https://www.scienceeurope.org/our-priorities/research-assessment/research-assessment-processes/">https://www.scienceeurope.org/our-priorities/research-assessment/research-assessment-processes/

Exchange practices and experiences to enable mutual learning within and beyond the Coalition	 Build national assessment consortia, consider existing national consortia for reforming responsible assessment: in Finland¹⁶, Norway¹⁷, and the Netherlands¹⁸ Foster an international debate on recognition and rewards
Communicate progress made on adherence to the Principles and implementation of the Commitments	
Evaluate practices, criteria and tools based on solid evidence and the state-of-the-art in research on research, and make data openly available for evidence gathering and research	
Step in reform journey	Examples of tools to support this step / options to consider
Allocate resources, whether in terms of capacity or budget, to actively engage in the reform journey	Create an assessment policy committee at your organisation
6	0 11 1 00000 1 10 C
Communicate your intention to reform, explain how you have started the process of reviewing or developing criteria, tools and processes in line with the core commitments	Consider the SCOPE framework ¹⁹ for research evaluation to support this step

¹⁶ https://doi.org/10.23847/isbn.9789525995282

^{17 &}lt;a href="https://www.uhr.no/en/front-page-carousel/nor-cam-a-toolbox-for-recognition-and-rewards-in-academic-careers.5780.aspx">https://www.uhr.no/en/front-page-carousel/nor-cam-a-toolbox-for-recognition-and-rewards-in-academic-careers.5780.aspx

¹⁸ https://recognitionrewards.nl/

¹⁹ https://inorms.net/scope-framework-for-research-evaluation/

²⁰ https://humetricshss.org

²¹ https://inorms.net/scope-framework-for-research-evaluation/

²² https://doi.org/10.31222/osf.io/82rmj

²³ https://sfdora.org/resource/swiss-national-science-foundation/

Engage those being assessed in the	Consider the SCOPE framework for research
development and design of assessment criteria and processes, work with researchers to enable consideration of differences between disciplines and career levels	evaluation to support this step ²⁴
Develop existing and design new assessment criteria, tools, and processes with assessors and those that are assessed	 Consider the future evolution of HRS4R²⁵ as a mechanism that could support institutions in the development of recruitment processes
	 Consider the Open, Transparent and Merit-based Recruitment of Researchers (OTM-R)²⁶ checklist for institutions²⁷
	 Consider when to test specific aspects as part of the process, e.g. what needs to be included in application materials? In interviews? Or in other parts of the process?
	 Consider the relevance of quantitative and qualitative indicators: use quantitative indicators for quantitative things and qualitative indicators for qualitative things²⁸
	 Diversify indicators (Open science badges; Publons, ORCID, open peer review; CRediT; Reporting guidelines e.g. EQUATOR Network) and metrics (Altmetrics, PlumX)²⁹
	 Consider post peer review funding applications lottery³⁰
Consider the diversity of contributions	Consider CV formats ³¹ that enable consideration of diverse contributions to knowledge, to training and development of other researchers, to the wider research community and to society
	Value diverse activities (knowledge transfer activities, training and mentoring of researchers, public engagement actions, actions that contribute to a positive research culture, engagement with key stakeholders e.g. patients, professionals, political decision-makers)
	• Value diverse outputs (FAIR data sets, replication studies, registered reports ³² , pre-prints) in different languages in accordance with the Helsinki initiative ³³

²⁴ https://inorms.net/scope-framework-for-research-evaluation/

²⁵ https://euraxess.ec.europa.eu/jobs/hrs4r

²⁶ https://cdn1.euraxess.org/sites/default/files/policy_library/otm-r-finaldoc_0.pdf

²⁷ https://cdn5.euraxess.org/sites/default/files/policy_library/otm-r-checklist.pdf

 $^{28\ \}underline{\text{https://thebibliomagician.wordpress.com/2019/12/11/introducing-scope-aprocess-for-evaluating-responsibly/}$

²⁹ https://doi.org/10.31222/osf.io/82rmj

 $^{{\}bf 30}\ \underline{https://www.nesta.org.uk/feature/innovation-squared/reducing-bias-funding-decisions/}$

³¹ https://doi.org/10.31222/osf.io/82rmj

³² https://www.cos.io/initiatives/registered-reports

³³ https://www.helsinki-initiative.org/read

	 Value diverse impacts Consider limiting the number of outputs assessed (moving away from lists of outputs towards limited selection of key accomplishments and why they are important)³⁴
Consider diverse research careers	 Value diverse researcher career profiles Value data stewardship,³⁵ potentially as a crucial element of some researchers' roles (avenue for career diversification)
Consider diverse practices including those that contribute to robustness, openness, transparency, and inclusiveness and research processes including peer review, teamwork and collaboration	
Robustness of research and the research process	 Assess alignment with research integrity values Value knowledge of rigorous experimental design³⁶ Value contributions such as peer review and editorial roles Value teamwork and collaboration Value outputs associated with robust, open, and transparent research (FAIR data sets, replication studies, registered reports,³⁷ pre-prints)
Openness, transparency of research and the research process	 Consider the UNESCO recommendation on open science³⁸ Value activities associated with openness (training, awareness raising, priority setting partnerships³⁹, outreach) Value outputs associated with openness (FAIR data sets, pre-prints, open software, open code, translations)⁴⁰
Inclusiveness of research and the research process	 Value inclusion of stakeholders in the research process, from defining priority research questions to knowledge translation⁴¹ Consider diversity in research teams at all levels, and in the content of research and innovation

³⁴ https://news.cancerresearchuk.org/2018/02/20/improving-research-evaluation-dora/

³⁵ https://doi.org/10.1371/journal.pbio.3000737

³⁶ https://doi.org/10.1371/journal.pbio.3000737

³⁷ https://www.cos.io/initiatives/registered-reports

 $^{{\}tt 38}\ \underline{\sf https://en.unesco.org/science-sustainable-future/open-science/recommendation}$

³⁹ https://www.jla.nihr.ac.uk/about-the-james-lind-alliance/about-psps.htm

⁴⁰ http://eurodoc.net/open-science-ambassadors-training/m1-open-science

⁴¹ https://www.umcutrecht.nl/en/science-in-transition

	 Consider the EDI dimension: Consider 360⁴² or organisational rather than individual references Include implicit and unconscious bias training in training for assessors⁴³ Consider post peer review lottery for funding applications⁴⁴ Consider gender blinding, blinding of other data prone to biases, e.g. moving educational history down in applications⁴⁵ Include EDI statement in assessment processes⁴⁶
Consider diverse activities including teaching, leadership, supervision, training, and mentoring, according to the nature of each research discipline	 Assess competencies relevant to a respective role⁴⁷ Consider the international initiative on Rewarding Teaching⁴⁸ Recognise leadership competencies
Interrogate developed and new approaches by working with assessors and those that are assessed (e.g. who might new approaches discriminate against; how might they be gamed; what are the potential unintended consequences)	Consider the SCOPE framework for research evaluation to support this step ⁴⁹
Implement developed and new assessment criteria, tools, and processes according to the Principles and Commitments; consider awareness raising, rewards, policies, training, infrastructure, and capacity building and include data collection to support monitoring, evaluation and mutual learning	Establish training programmes
Evaluate developed and new assessment criteria, tools, and processes	Consider the SCOPE framework for research evaluation to support this step ⁵⁰

⁴² https://doi.org/10.31222/osf.io/82rmj

⁴³ https://royalsociety.org/topics-policy/publications/2015/unconscious-bias/

⁴⁴ https://www.nesta.org.uk/feature/innovation-squared/reducing-bias-funding-decisions/

⁴⁵ https://www.science.org/content/article/can-anonymous-faculty-searches-boost-diversity

^{46 &}lt;a href="https://ofew.berkeley.edu/recruitment/contributions-diversity/rubric-assessing-candidate-contributions-diversity-equity">https://ofew.berkeley.edu/recruitment/contributions-diversity/rubric-assessing-candidate-contributions-diversity-equity

⁴⁷ Link to EU competence framework for researchers (Knowledge Ecosystem Project) / https://www.vitae.ac.uk/researchers-professional-development/about-the-vitae-researcher-development-framework/developing-the-vitae-researcher-development-framework

⁴⁸ https://www.advancingteaching.com/

⁴⁹ https://inorms.net/scope-framework-for-research-evaluation/

⁵⁰ https://inorms.net/scope-framework-for-research-evaluation/

Share data / information, participate in mutual learning within and beyond the Coalition, supported by mechanisms developed by the Coalition	•	Build national research assessment consortia , consider existing national consortia for reforming responsible assessment: in Finland, ⁵¹ Norway, ⁵² and the Netherlands ⁵³
Coordinate with other organisations at national and international level, and promote international coordination and harmonisation	•	Foster an international debate on recognition and rewards
Continue to evolve assessment criteria, tools, and processes based on learning from own evaluations and those of others	•	Engage in research on research

⁵¹ https://doi.org/10.23847/isbn.9789525995282

^{52 &}lt;a href="https://www.uhr.no/en/front-page-carousel/nor-cam-a-toolbox-for-recognition-and-rewards-in-academic-careers.5780.aspx">https://www.uhr.no/en/front-page-carousel/nor-cam-a-toolbox-for-recognition-and-rewards-in-academic-careers.5780.aspx

^{53 &}lt;a href="https://recognitionrewards.nl/">https://recognitionrewards.nl/