

Research Assessment Exercise 2026 Panel 7 – Built Environment Panel-specific Guidelines on Assessment Criteria and Working Methods

(October 2024)

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Introduction

- 1. This document sets out the assessment criteria and working methods that the Built Environment Panel of the Research Assessment Exercise (RAE) 2026 will apply. It should be read alongside the General Panel Guidelines of the exercise. The provisions set out in this document serve as further elaboration and amplification on the assessment criteria and working methods as applied to the Built Environment Panel. In areas where no additional information has been specified, the provisions in the General Panel Guidelines will prevail and apply in the assessment process of the Panel. These guidelines do not replace or supersede the requirements for submissions that are set out in the Guidance Notes for RAE 2026.
- 2. This document describes the criteria and methods for assessing submissions in the Built Environment Panel. It provides guidance on the type of information required in the submissions. It also provides a single, consistent set of criteria that will be applied by the Panel and sub-group(s)/sub-panel(s), if any, when undertaking the assessment having regard to any differences in the nature of disciplines of respective units of assessment ("UoAs") under purview. It also provides a common approach to the working methods applied within the Panel.

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Section A: Submissions

UoAs under the Panel

3. The Built Environment Panel will assess universities' submissions from the following UoAs –

<u>Code</u>	<u>UoA</u> s	
16	civil engineering (incl. construction engineering management) and building technology	&
17	architecture	
18	planning and surveying (land, geo-spatial and other)	

4. The Panel expects to receive submissions whose primary research focus falls within the respective remit of the above UoAs. These UoAs cover all forms of historical, scientific, theoretical, pedagogic, applied and practice-based research relevant to the planning, design, creation, use, management and governance of the built environment in different spatial contexts. This includes the sub-disciplines for each UoA listed below. The UoAs also include any other research in which the built environment forms a major field for application or provides the context for research.

UoA descriptors and boundaries

4.1 Descriptors: The table below lists the research areas and the sub-disciplines of UoAs 16, 17 and 18.

Research Areas			Sub-disciplines
16a	civil engineering (incl.	16a-01	structural engineering
	construction engineering &	16a-02	geotechnical and geo-
	management)		environmental engineering
		16a-03	hydraulics, hydrology, fluid
			mechanics, water resources
			and water supply
		16a-04	transportation engineering
		16a-05	fire engineering, health and
			safety
		16a-06	wind engineering



Research Areas		<u>Sub-disciplines</u>
	16a-07	natural hazards and climate
		change
	16a-08	construction engineering and
		management
	16a-09	environmental issues, related
		to the built environment,
		including air quality,
		pollution, waste treatment
		and disposal
	16a-10	other aspects of civil
		engineering and construction
16b building technology	16b-01	
	16b-02	building technology and
		automation
	16b-03	digital construction and
		construction informatics
	16b-04	-
	16b-05	energy and the built
		environment, including
		technology, policy, modelling
		and energy and carbon
	1.01 0.0	accounting
		other aspects of building
17a architecture		architectural history
	17a-02	architectural practice and
	47 00	design
	17a-03	architectural building sciences
	17a-04	,
	17- 05	culture
	17a-05	landscape architecture and
	170.00	design
	17a-06	landscape: natural resources
	172.07	and ecosystem services
	17a-07	interior design
19a planning	17a-08	other aspects of architecture
18a planning	18a-01	planning policies and practice
	18a-02	urban design and master
	18a-03	planning
	104-03	planning theory and
		governance



	Research Areas		<u>Sub-disciplines</u>
		18a-04	planning methods and spatial analysis
		18a-05	, , , , , , , , , , , , , , , , , , ,
		18a-06	housing
		18a-07	urban regeneration
		18a-08	rural planning
		18a-09	transport planning
		18a-10	environmental planning
		18a-11	real estate investment
		18a-12	real estate market analysis
			and modelling
		18a-13	other aspects of planning
18b	surveying, land	18b-01	plane and geodetic surveying
		18b-02	cadastral surveying
		18b-03	cartography
		18b-04	photogrammetry
18c	surveying, geo-spatial and	18c-01	building surveying
	other	18c-02	mining surveying
		18c-03	hydrographical surveying
		18c-04	other aspects of surveying

4.2 Boundaries: The Built Environment Panel expects submissions from all sub-disciplines listed under the three UoA descriptors, but anticipates submissions that may span the boundaries between two or more UoAs within the Panel or with other UoAs outside the Built Environment Panel. Submitting units are encouraged to submit outputs that are of inter-disciplinary nature, and expects that submissions may contain outputs that not only make contributions to this Panel and other cognate disciplines, but also to UoAs that extend beyond traditional cognate disciplines.

Inter-disciplinary Research

5. The Panel recognises that certain aspects of research are naturally inter-disciplinary or span the boundaries between individual UoAs, whether within the Panel or across panels. The Panel will adopt the arrangements for assessing inter-disciplinary submissions as set out in paragraphs 39-40 of the General Panel Guidelines.



6. Built Environment research is highly interdisciplinary. The Panel anticipates that there may be overlap with many other UoAs (see Appendix B of the General Panel Guidelines for descriptors). Arrangements for assessing inter-disciplinary research, and submissions that span UoA boundaries, include the appointment of inter-disciplinary champion(s) within the Panel, the use of assessor(s) with appropriate expertise and, where necessary, cross-referring submissions between sub-panels.

Assignment of Eligible Academic Staff in Each UoA

- 7. Pursuant to paragraphs 7-11 of the General Panel Guidelines, the Built Environment Panel expects to receive information on the sub-discipline(s) under a research area to which each eligible staff member and their respective research output(s) belong. This information will be used to assist in assigning research outputs to panel members with With reference to the sub-disciplines listed in appropriate expertise. paragraph 4.1, each eligible staff member could have up to four sub-disciplines applied to their research outputs, or the number of sub-discipline(s) equivalent to the number of his/her submitted output(s), whichever is lower. Each output should have one sub-discipline applied to it, which must be one of the staff member's assigned sub-discipline(s). The list of sub-disciplines provided is not exhaustive, neither are the sub-disciplines precisely defined. If universities or eligible staff members are uncertain about the research area or sub-discipline that should be assigned to an output, the Panel Convenor and Deputy Convenor will exercise their discretion in allocating that output for assessment to the most appropriate panel members.
- 8. It is critical that research outputs are assessed by the most appropriate panel. If the Panel suspects any anomaly regarding universities' assignment of eligible academic staff (and therefore their outputs) to research area(s) and UoA(s) under its remit, it will follow the procedures for re-assignment of eligible staff according to paragraphs 10-11 of the General Panel Guidelines. The Panel also recognises its responsibility to handle submissions arising from any re-assignment of eligible academic staff to the Panel.



Section B: Assessment Criteria: Research Outputs

Output Types

- 9. The Built Environment Panel will consider the eligibility of research outputs as described in paragraphs 15-17 of the General Panel Guidelines, paragraphs 5.7-5.11 and Appendix E of the Guidance Notes.
- 10. The Panel will assess the quality of each eligible output on its own merits and not in terms of its publication category, medium or language. The Panel will examine each item in detail and will not assess outputs mechanistically according to the publication venue. The Panel recognises that there can be work of the highest quality in various output forms, and no distinction will be made between types of output submitted nor whether the output has been made available electronically or in a physical form.
- 11. Forms of research outputs that are admissible and specifically relevant to the Built Environment Panel include the following examples. This should not be regarded as an exhaustive list. Equally, there is no implication of priority or importance in the ordering of examples in this list. It is expected that many of the outputs would be in the form of
 - published papers in peer-reviewed journals and conferences.

The Panel also recognises, and welcomes, outputs that are in the following forms –

- books, book chapters, edited works, and research monographs.
- technical reports.
- standards and guidelines documents.
- patents awarded or published patent applications.
- review articles, systematic reviews and meta-analyses.
- web-based outputs.
- portfolios of design work.
- new materials, devices, products and processes.

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- physical artefacts such as buildings, models, devices, drawings, images, installations, materials, products and processes, prototypes.
- software, computer code and algorithms.
- digital artefacts such as data sets, multi-use data sets, archives, software, film and other non-print media, web content such as interactive tools.
- invited, independently curated exhibitions and exhibits.
- films and animations

Please note the requirements for an abstract that includes a clear indication of what new insights or innovation are presented in outputs, as at paragraph 18(a) of the General Panel Guidelines.

- 12. All research outputs will be assessed on an equal basis for the quality of original research they include. The Panel will accept the submission of all forms of output only where they contain a significant component of novel research or new insight. Such outputs will be judged only on their original research or novelty of insight.
- 13. If an output contains material in common with an output published before 1 October 2019, only the new material will be assessed. Where two or more research outputs of any type submitted by one or more individuals from the same university contain significant material in common, the Panel may decide to assess each output taking account of the common material only once. Alternatively, if the outputs do not contain sufficiently distinct material, they may be treated as a single output.
- 14. Other than the requirement in paragraph 18(a) of the General Panel Guidelines, the Panel does not require a brief statement of no more than 100 words be submitted for each output item to specify the originality and significance of the output.

Double-weighting of Research Outputs

15. Paragraphs 29-31 of the General Panel Guidelines indicate that in cases a submitting university may request that outputs of extended scale and scope be double-weighted in the assessment. In view of the

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established practice in some disciplines of major research outputs appearing, for example, in the form of a published monograph, or major design, curation, data collection or exhibition, the Panel recognises that there may be outputs of such scale and scope that are considerably greater than the disciplinary norm. The Panel will consider requests for such items to be double-weighted in line with the General Panel Guidelines.

16. When requesting for double-weighting of an output, universities should submit a statement in not more than 100 words, explaining in what ways the output is of sufficiently extended scale and scope to justify the claim. The Panel will decide whether to double-weight the output on the basis of its assessment of the level of intellectual effort, time and resources required to produce the output.

Co-authored/Co-produced Outputs

- 17. The Panel affirms the principles and arrangements on assessing co-authored/co-produced research outputs as set out in paragraphs 32-34 of the General Panel Guidelines.
- 18. The Panel will consider co-authorship to be a normal element of research activity in its UoAs and will expect all named co-authors to have made a significant contribution to the research process leading to the output concerned. Universities may list co-authored outputs only against individual members of staff who made a substantial research contribution to the output. For outputs with less than eight co-authors, the Panel will accept that all co-authors have made a significant contribution to the research process leading to the output concerned. In the case of an output with eight or more co-authors, the university should explain in no more than 100 words the contribution of the submitting author. Consistent with paragraphs 32-34 of the General Panel Guidelines, co-authored outputs must be listed against only one member of staff. In assessing co-authored/co-produced outputs, the Panel will assess the quality of the output, taking no further regard to the submitted member of staff's individual contribution. The Panel will assess the output using the criteria described below in paragraphs 21-27.

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Non-traditional Outputs

19. The Panel will handle research outputs in non-traditional form according to paragraphs 35-37 of the General Panel Guidelines. The Panel expects to receive an additional description, of up to 300 words, about each non-traditional output. This should describe its novelty and significance, the method used to ensure academic rigour in the production of the output, the form of its delivery, and the dissemination method. Additional information (other than the required abstract – see paragraph 18(a) of the General Panel Guidelines) is not expected for traditional outputs and will be ignored by the Panel.

Criteria and Quality Levels for Assessing Research Outputs

- 20. Panel members will use their professional judgement with reference to international standards in assessing research outputs.
- 21. In assessing outputs, the Panel will look for evidence of originality, significance and rigour, and will grade each output into one of the five categories of quality level as set out in paragraph 19 of the General Panel Guidelines. The generic description of the quality levels as set out in paragraph 20 of the General Panel Guidelines will be applied in the Panel's assessment.
- 22. The Built Environment Panel provides the following amplifications on the criteria of assessing research outputs
 - originality: will be understood as the extent to which the output makes an important and innovative contribution to understanding and knowledge in the field. Research outputs that demonstrate originality may do one or more of the following: produce and interpret new empirical findings or new material; propose new paradigm shift; engage with new and/or complex problems; develop innovative research methods, methodologies and analytical techniques; show imaginative and creative scope; provide new arguments and/or new forms of expression, formal innovations, interpretations and/or insights; collect and engage with novel types of data; and/or advance theory or the analysis of doctrine, policy or practice, and new forms of expression.



- significance: will be understood as the extent to which the work has influenced, or has the capacity to influence, knowledge and scholarly thought, or the development and understanding of policy and/or practice.
- rigour: will be understood as the extent to which the work demonstrates intellectual coherence and integrity, and adopts robust and appropriate concepts, analyses, sources, theories and/or methodologies.
- 23. In addition, the Panel provides the following advice on their understanding of the quality definitions adopted for assessing research outputs
 - Whilst the individual elements of significance, originality and rigour will be considered separately by the Panel, the overall assessment of each output will be a balanced judgement giving each of the three elements approximately equal weight.

Metrics/Citation Data

- 24. Pursuant to paragraph 24 of the General Panel Guidelines, the Panel acknowledges that metrics and citation data may serve as advisory or secondary information, and that they should not be used in any algorithmic or deterministic way for the evaluation of research quality.
- 25. The Panel is aware of the limitations of citation data. In particular, such data do not apply to most forms of non-traditional output, and the coverage and value are variable both within and between UoAs and academic disciplines. Assessment of all outputs will therefore be based on the assessment of significance, originality and rigour and no citation data will be used in all UoAs of the Built Environment Panel.

Additional Information on Research Outputs

26. Other than the information required on research outputs as specified in the Guidance Notes and this Panel-specific Guidelines, and unless specifically required by the Panel during the assessment process, no other information should be provided. The Panel will take no account of any such information if submitted.



Section C: Assessment Criteria: Research Impact

Range of Impacts

- The Built Environment Panel will accept submissions on research impacts that meet the generic definition and criteria as set out in paragraphs 47-49 of the General Panel Guidelines.
- 28. The Panel will assess the quality of all eligible impact submissions based on their merits on equal footing with no consideration given to the differences among submitting universities/units in terms of staff size, resources and histories. The Panel recognises that impacts within its remit can be manifest in various ways in various ways and may occur in a wide range of spheres whether locally, regionally or internationally. These may include (but are not restricted to): creativity, culture and society; the economy, commerce or organisations; communities; the environment; health and welfare; practitioners and professional services; public policy, law and services.
- 29. Examples are provided to illustrate the range of potential impacts from research across the Built Environment Panel in <u>Table A</u>. These examples are indicative only, and are not exhaustive or exclusive. Equally, there is no implication of priority or importance in the ordering of examples in the list.
- 30. Universities are expected to submit their strongest impact cases and not to align submitted cases specifically with the particular types of impact listed, as an impact case may describe more than one type of impact, such as a new energy technology that can generate environmental, health and safety, production and economic impacts.



Table A: Examples of Impact¹

Impacts on creativity, culture and society where the beneficiaries are individuals, groups of individuals, organisations or communities whose behaviours, knowledge practices, rights or duties have been influenced.

- Enhancements to heritage preservation, conservation and presentation; the latter including museum and gallery exhibitions.
- Production of artefacts, including for example, films and TV programmes.
- Public or political debate has been shaped or informed; this may include activity that has challenged established norms, modes of thought or practices.
- Improved social welfare, equality, social inclusion; improved access to justice and other opportunities (including employment and education).
- Improvements to legal and other frameworks for securing intellectual property rights.
- Enhancements to policy and practice for example poverty alleviation.
- Influential contributions to campaigns for social, economic political and/or legal change. (Or the prevention of proposed changes.)
- Enhanced cultural understanding of issues and phenomena; shaping or informing public attitudes and values.

Impacts on the economy, and commercial organisations where the beneficiaries may include new or

- Changed approach to management of resources has resulted in improved service delivery.
- Development of new or improved materials, products or processes.

Examples of impact case studies in RAE 2020 may be accessed online at https://impact.ugc.edu.hk/ and https://www.ugc.edu.hk/eng/ugc/activity/research/rae/2020/impactsubmissions.html. Other examples of research impact as assessed in other jurisdictions may be accessible online such as https://results2021.ref.ac.uk/impact from the United Kingdom.

Universities may also refer to examples of impacts and indicators detailed in Annex A of https://2021.ref.ac.uk/media/1450/ref-2019-02-panel-criteria-and-working-methods.pdf of the United Kingdom Research Excellence Framework 2021.



established businesses, or other types of organisation undertaking activities which create wealth.

- Improved support for the development of new, small-scale or large-scale technologies.
- Improved effectiveness of workplace practices or employee skills.
- Improvements in legal frameworks, regulatory environment or governance of business entities.
- More effective dispute resolution.
- Enhanced technical standards and/or protocols.
- New business strategies, operations or management practices.
- A spin-out or new business, established its viability, or generated revenue or profits.
- A new or significantly changed technology or process, including through acquisition and/or joint venture.
- Performance has been improved, or new or changed technologies or processes adopted, in companies or other organisations through highly skilled people having taken up specialist roles that draw on their research, or through the provision of consultancy or training that draws on their research.

Impacts on the environment

where the beneficiaries may include the natural, historic and/or built environment, together with society individuals or groups of individuals.

- Specific changes in public awareness or behaviours relevant to the environment.
- Contribution to improved social, cultural and environmental sustainability.
- Improved management or conservation of natural resources.
- Improved management of an environmental risk or hazard.
- Operations or practice of a business or public service have been changed to achieve environmental objectives.



	 Improved design or implementation of environmental policy or regulation. Changed conservation policy/practice or resource management practices. Changes in environmental or architectural design standards or general practice. Influence on professional practice or codes. Changes in practices or policies affecting biodiversity.
Impacts on health where the beneficiaries may include organisations or individuals involved in the development and/or delivery of professional services.	 Changed practice for specific groups (which may include cessation of certain practices shown to be ineffective by research). Influence on professional standards, guidelines or training. Development of resources to enhance professional practice. Influence on planning or management of services. Guidance and strategy for professional bodies to define best practice, formulate policy. Changes to conventional wisdom, stimulating debate among stakeholders. Development or adoption of new indicators of health or well-being.
Impacts on public policy and services where the beneficiaries may include government, public sector and charity organisations and societies, either as a whole or as groups of individuals through the implementation or non- implementation of	 Policy decisions or changes to legislation, regulations or guidelines, including decisions not to adopt proposed policy changes. Policy or public debate has been stimulated or informed by research evidence. Influencing the work of public or non-governmental organisations. Improved public understanding of social issues.



policies, systems or reforms	 Effect on the quality, accessibility, costeffectiveness or efficiency of services. Changes to the delivery or form of any service for the public. In delivering a public service, a new technology or process has been adopted or an existing technology or process improved.
Impacts on quality of life and welfare where the beneficiaries (human or animal) may include those whose quality of life has been enhanced (or harm mitigated) or whose rights or interests have been protected or advocated	 Development and uptake of new indicators of health and well-being. Development of policy, practice and technology that enhances health and well-being. Influence on health policy and practice. Improved provision or access to services. Improved standards of training. Improved health and welfare outcomes.

Impact Strategy

31. Universities are reminded to set out their impact strategy in the university-level and UoA-level environment overview statements.

Impact Case Study(ies)

- 32. Following paragraphs 7.7 (a) and (b), 7.9-7.10 and Appendix F of the Guidance Notes and also paragraph 51 of the General Panel Guidelines, submitting units are required to provide a narrative account in each case study that should be coherent, clearly explaining the relationship between the research and its impact, and the nature of the impacts arising.
- 33. Each impact case study should include tangible and verifiable evidence that support the claims for the impact achieved, including who and what has/have benefitted. The focus must be on the actual impact achieved, in terms of how the research has enriched, influenced, informed or changed the behaviour of the users, and not the pathways and other mechanisms used to achieve that impact. The evidence of this impact should be, as far as possible, independent, factual and verifiable. Individual case studies may draw on various evidence and indicators, which may take



different quantitative and qualitative forms depending on the type of impact.

34. Examples are provided in <u>Table B</u> to illustrate potential evidence or indicators that may be mostly relevant to the Built Environment Panel. These examples are not intended to be exhaustive. Equally, there is no implication of priority or importance in the ordering of examples in the list.

Table B: Examples of Evidence or Indicators for Impact²

Quantitative indicators	 Quantitative data relating to cost-effectiveness. Economic impacts, including business performance measures (e.g. sales, turnover, profits associated). Jobs created or protected. Investment funding raised for start-up businesses and new activities in existing businesses. Quantifiable shifts in expenditure or profits.
Documentary evidence	 Documented changes to public policy / legislation / regulations / guidelines. New professional codes and standards. Licences awarded and brought to market. Documented changes in knowledge, capability or behaviours of individuals benefiting from training.
Engagements	 Commercial adoption of new technology, process, knowledge or concept. Application or incorporation in professional best practice, training and continuing development materials. Evidence of policy or public debate.

² see footnote 1.

Independent testimony	 Formal acknowledgements of and/or evaluations by relevant beneficiaries, bodies and organisations.
Reviews and citations	 Citations and reviews outside the academic literature, e.g. in policy, regulatory, practice documents.

- 35. The Panel provides the following advice on particular aspects of impact case studies
 - In constructing a narrative account in a case study, there are many different ways in which the links in the chain between the underpinning research and the impact could occur, and this should be described. However, the focus should be on the reach and significance of the impact itself and the supporting evidence.
 - No type of evidence is inherently preferred over another; judgements will be based on the extent to which the cited evidence is convincing about the reach and significance of that impact.
 - The corroborating evidence should be explicitly explained in the text of submission.
 - Submitting units should ensure that, so far as possible, any evidence cited is independently verifiable.

Underpinning Research

- 36. The Panel acknowledges the level of quality required for research underpinning impact cases, i.e. equivalent to at least 2 star (2*) or international standing, as stipulated in the General Panel Guidelines. Impact case studies should include appropriate evidence or indicators of the quality of the underpinning research, where necessary, the Panel will review the outputs concerned in order to ensure the quality of the research is of at least 2 star (2*) level.
- 37. The evaluation of the outputs under the impact element is undertaken only for assuring the quality threshold of the underpinning research has been reached. The quality of the underpinning research will



not be taken into account in the assessment of the impact. Underpinning research referenced in a case study may also be submitted for assessment under the research output element. In this case, the guidance on output types and criteria for assessing research outputs as stipulated in paragraphs 9-14, 20-23 above would apply.

Criteria and Quality Levels for Assessing Research Impact

- Panels will exercise their expert judgement in assessing the quality of each impact submission, and will not judge in terms of the type of research underpinning the impact cases.
- 39. In assessing impacts, the Panel will look for evidence of reach and significance, and will grade each impact submission as a whole and give a rating using one or more of the five categories of quality level following paragraphs 53-55 of the General Panel Guidelines. In respect of the Built Environment Panel, the criteria of reach and significance will be understood as follows
 - reach: the extent and/or diversity of the beneficiaries of the impact, as relevant to the nature of the impact. Reach will be assessed in terms of the extent to which the potential constituencies, number or groups of beneficiaries have been reached; it will not be assessed in purely geographic terms, nor in terms of absolute numbers of beneficiaries. The criteria will be applied wherever the impact occurred, regardless of geography or location, and whether in Hong Kong or elsewhere. For example, the Panel will evaluate the extent and diversity of the communities, individuals, or organisations that have drawn benefit or been positively affected by the impact arising from the underpinning research.
 - significance: degree to which the impact has enriched, influenced, informed or changed products, services, policies, opportunities, perspectives or practices of communities, individuals or organisations, or produced constructive changes that have prevented or reduced harm, risk or cost.
- 40. The Panel will make an overall judgement about the reach and significance of impacts, rather than assessing each criterion separately. The



criteria will be applied in the assessment of the research impact regardless of the domain to which the impact relates.

Section D: Assessment Criteria: Research Environment

Research Environment

- 41. The Built Environment Panel will accept submissions on research environment according to paragraphs 57-58 of the General Panel Guidelines. The Panel recognises that excellent research can be undertaken in a wide variety of research structures and environments. The Panel has no pre-formed view of the ideal size or organisational structure for a research environment. The Panel will assess each submission based on what has been presented in relation to the work of the submitting unit in providing and ensuring a good environment.
- 42. A research environment submission includes one university-level environment overview statement across the same university, and one UoA-level environment overview statement and environment data for each UoA. The UoA submissions may relate to a single coherent faculty and equally to multiple departments, and may depict the commonalities and dynamics among faculties and departments within the submitting unit, and define their prime activities, how they operate and their main achievements.

Environment Overview Statements (One University-level Environment Overview Statement across the University and One UoA-level Environment Overview Statement for Each UoA)

43. Following paragraphs 9.6 (a) and (b), 9.7, 9.8 and Appendix G of the Guidance Notes, and also paragraphs 59 & 60 of the General Panel Guidelines, the Panel will use the information provided in the university-level environment overview statement to inform and contextualise their assessment of relevant sections of the UoA-level environment overview statement. Submitting units are required to describe how they have supported the conduct and production of research, in the context of the university's policies as set out in the university-level environment overview statement.



44. Within the terms of the Guidance Notes, the Built Environment Panel will expect in particular to see the following in the –

44.1 University-level Environment Overview Statement

- context and mission: an overview describing the submitting university's size, structure, mission and stage of development in view of its role statement so as to provide a context for the submission.
- research policy and strategy: describing the institutional strategy for research (including research strengths, research focus areas, distribution of research activities across research areas), enabling impact (including stakeholder engagement and knowledge transfer), developing a sustainable research culture (including open access and open data policies, approach to contributing to the Sustainable Development Goals, how inter-disciplinary and collaborative research has been supported, how research integrity and research ethics are embedded in the institution), and how the overall institutional policy and strategy contribute to government priorities.
- people: institutional staffing strategy, staff development and training (e.g. recruitment, leave policies, equality and diversity agenda, measures/facilities for early career researchers/ research students, etc.), and development, training and supervision of research students.
- research funding sources: breakdown by funding source as a percentage total of overall funding; and university-level resources, infrastructure, and facilities available to support research and impact.

In the context of research environment, the university is encouraged to comment on the extent to which generative AI technologies have been addressed, applied or used within any of the above elements.



44.2 UoA-level Environment Overview Statement

In the context of the university's policies as stipulated in the university-level environment overview statement —

- UoA context and structure: submission in this part is expected to briefly describe the organisation and structure of the unit, which research groups are covered in the submission and how research is structured across the submitting unit.
- research and impact strategy: evidence of the achievement of strategic aims for research and impact during the assessment period, details of current/future strategic aims and goals for research and impact; how these relate to the structure described above; and how they will be taken forward; methods for monitoring attainment of targets; new and developing initiatives not yet producing visible outcomes but of strategic importance; identification of priority developmental areas for the unit, including research topics, funding streams, postgraduate research activity, facilities, administration and management.
- research integrity and research ethics: give evidence of the steps taken to ensure that research is undertaken in an ethical manner with rigour, honesty and care and respect for those involved in the process. Research conducted with integrity leads to findings people can trust and have confidence in. Disciplinary best practice may consider, but is not limited to, issues ranging from approaches to training, ensuring dissemination and accessibility of results, data availability, registration of protocols, ethical compliance, authorship policies, reproducibility, open research, participatory research, the handling of conflicts of interest and intellectual property, and approaches to dealing with allegations of research misconduct and questionable research practices.
- people: evidence of staffing strategy, staff development and training (e.g. leave policies, equality and diversity agenda, measures for earlier career researchers, etc.) and evidence of their effectiveness; how individuals at the beginning of their research careers are being supported and integrated into the research culture of the submitting unit; information on



postgraduate recruitment, training and support mechanisms; measures/facilities for development and supervision of research students.

- income (e.g. grants received), infrastructure and facilities: information on research funding portfolio; evidence of successful generation of research income; major and prestigious grant awards made by external bodies on a competitive basis; provision and operation of research infrastructure and facilities, including special equipment, library, technical support, space and facilities for research groups and research students; information on joint-university or cross-institution shared or collaborative use of research infrastructure.
- collaborations: information on support for and exemplars of research collaborations; mechanisms to promote collaborative research at local and international level; support for inter-disciplinary research collaborations; research collaboration with research users.
- esteem: prestigious/competitive research fellowships held by individual researchers; external prizes and awards and elections to fellowships and academy membership in recognition of research achievement.
- contribution to the discipline or research base: exemplars of leadership in the academic community such as advisory board membership; participation in the peer-review process for grants committees or editorial boards.

In the context of research environment, the submitting UoA is encouraged to comment on the extent to which generative AI technologies have been addressed, applied or used within any of the above elements.

Environment Data

45. Following paragraphs 9.6 (d) and (e), 9.9 and Appendix H of the Guidance Notes, and also paragraph 61 of the General Panel Guidelines, submitting units are required to provide environment data in conjunction with the UoA-level environment overview statement. The Panel will consider the environment data within the context of the information



provided in the environment overview statement, and within the context of the disciplines concerned.

46. Data on "staff employed by the university proper" and "graduates of research postgraduate programmes" will be used to inform the Panel's assessment in relation to "people" (section (4) of the UoA-level environment overview statement). Data on "on-going research grants/contracts" will be used to inform the Panel's assessment on "income (e.g. grants received)" (part of section (5) of the UoA-level environment overview statement). Additional quantitative data or indicators that are particularly relevant to the Panel are indicated in paragraph 44 above. Such additional information should be submitted within the appropriate section(s) of the UoA-level environment overview statement. The Panel will consider these numerical data relative to the reported number of full-time academic staff members within the UoA, i.e. per full time equivalent (FTE).

Criteria and Quality Levels for Assessing Research Environment

- 47. Panels will exercise their expert judgement in assessing the merits of each environment submission, and will not judge automatically in terms of the scale of research environment concerned.
- 48. In assessing environment, the Panel will consider research environment in terms of vitality and sustainability, including its contribution to the vitality and sustainability of the wider discipline or research base. Elements of the environment submission will be grouped under 4 aspects, with each aspect carrying equal weighting as follows
 - research and impact strategy, and research integrity and research ethics – 25%
 - people 25%
 - income (e.g. grants received), infrastructure and facilities –
 25%
 - collaboration, esteem, and contribution to the discipline or research base – 25%

The Panel will use one or more of the five categories of quality level as specified in paragraphs 63-65 of the General Panel Guidelines for assessing each aspect within the environment element and by aggregating



assessments of individual aspects to form an overall assessment for each UoA-level environment submission.

- 49. The Built Environment Panel provides the following amplifications to supplement the generic criteria for assessing research environment
 - vitality: the extent to which a unit supports a thriving and inclusive research culture for all staff and research students, that is based on a clearly articulated strategy for research and enabling its impact, is engaged with the local and international research and user communities and is able to attract excellent postgraduate and postdoctoral researchers through a worldwide reputation.
 - sustainability: the extent to which the research environment ensures the future health, diversity, wellbeing and wider contribution of the unit and the discipline(s), including investment in people and infrastructure and, where appropriate for the research area, the extent to which activity is supported by a portfolio of research funding.
- 50. The Panel will make an overall judgement about the vitality and sustainability of research environments, rather than assessing each criterion separately. Examples of evidence of a strong research environment include
 - A research strategy appropriate to the size and scale of the unit and its ambitions, and provides policy and support for research ethics and integrity.
 - Support for and development of staff and research postgraduate (RPg) students at all levels.
 - Income and facilities that support the research strategy and objectives.
 - Evidence of the nature of contributions, engagement with the wider community and academic leadership in the discipline.



Section E: Working Methods

Use of Sub-Group(s)/Sub-Panel(s)

- 51. To facilitate assessment on particular UoA(s) and/or research area(s) under the Built Environment Panel, it may be necessary to form subgroups.
 - civil engineering
 - building technology
 - architecture
 - planning
 - surveying, land
 - surveying, geo-spatial and other

A decision on whether or not to form these sub-groups will be made after the universities have made their submissions. The final assessment and grading will be decided by the Panel as a whole.

Allocation of Work in the Assessment Process

- 52. The Convenor, consulting the Deputy Convenor and other panel members, as appropriate, will allocate work to members and, if necessary, lay members, impact assessors and/or external reviewers in light of their expertise and workload. In allocating the work, the Convenor will also take into account any potential conflicts of interest of respective panel members and assessors. All panel members will take account of the requirements of the General Panel Guidelines to ensure that the exercise is conducted fairly and equitably.
- 53. Panel members will examine the submitted outputs in detail, and put forward a recommendation to the panel for a collective decision on the final grading. To ensure fairness and consistency, each research output will be assessed in detail by at least two members, one of whom should be a non-local member to the extent possible. For UoA(s) which is(are) only housed at one or two local universities, submissions will be assigned to at least one non-local member in order to ensure fair and impartial



assessment. In the rare occasions where the two assessors have divided views, the Convenor/Deputy Convenor will assign a third or even fourth reader to facilitate the discussion to agree on a grade. Final grading on research outputs will be decided by the Panel as a whole.

- 54. Subject to conflicts of interest of individual members, the impact and environment submissions will be assessed by panel members and impact assessors in the sub-group(s)/sub-panel(s) for respective UoA(s) or research area(s) under the Panel. Final grading of individual submissions will be a collective decision of the Panel.
- 55. Where appropriate, the Panel will decide, by exercising their professional judgement, whether lay members (local "research end-users" or professionals in respective fields from business, government, industry and the arts, who need not be academics) with suitable expertise will be invited to take part in different elements of the assessment. Lay members who are academically qualified may also be invited for assessment of research outputs and research environment. The engagement of lay members will be by invitation from the Panel only.

Cross-Panel Referrals

- 56. This Panel will follow the procedures in paragraphs 41-43 of the General Panel Guidelines when initiating referrals to other panels and assessing submissions cross-referred by another panel.
- 57. Generally, research on pedagogy and education issues submitted to this Panel will be assessed by panel members or external reviewers with expertise in pedagogy or cross-referred to Panel 13 Education.
- 58. The Panel will endeavour to assess all elements of submissions without cross referral to other panels as far as is possible. This includes submissions of an inter-disciplinary nature, which will be managed by one of the inter-disciplinary champions.

External Advice

59. This Panel will follow the procedure in paragraph 67 of the General Panel Guidelines when referral to external reviewers for expert advice becomes necessary for panel assessment. External reviews may be sought



in the exceptional circumstance for which members of the panel do not have the necessary expertise such as outputs in foreign language or niche research work.

Trial Assessment

60. With reference to paragraphs 91-93 of the General Panel Guidelines, the Panel will conduct a trial assessment using a sample of submissions selected from universities' submissions. These sample submissions will be assessed by all members of the Panel. Members will share among themselves any important observations in the assessment to ensure fairness and consistency in the actual assessment. Submissions used for the trial assessment will be assessed afresh during the main assessment period regardless of their assessment results during the trial. The Panel will decide on the sample size after the submissions are received.

Panel Feedback Report

61. With reference to paragraph 73 and Appendices E and F of the General Panel Guidelines, the Panel will provide feedback to the University Grants Committee (UGC) after the assessment process. Non-local panel members will be involved in offering comments for an impressionistic international comparison. The Convenor on behalf of the whole panel will submit the panel feedback report to the UGC by November 2026. Sector-wide comments in the panel feedback report will be released for public information after announcement of the RAE results. Comments on individual universities will be provided to the respective universities under confidential cover in accordance with paragraph 11.3 of the Guidance Notes.