

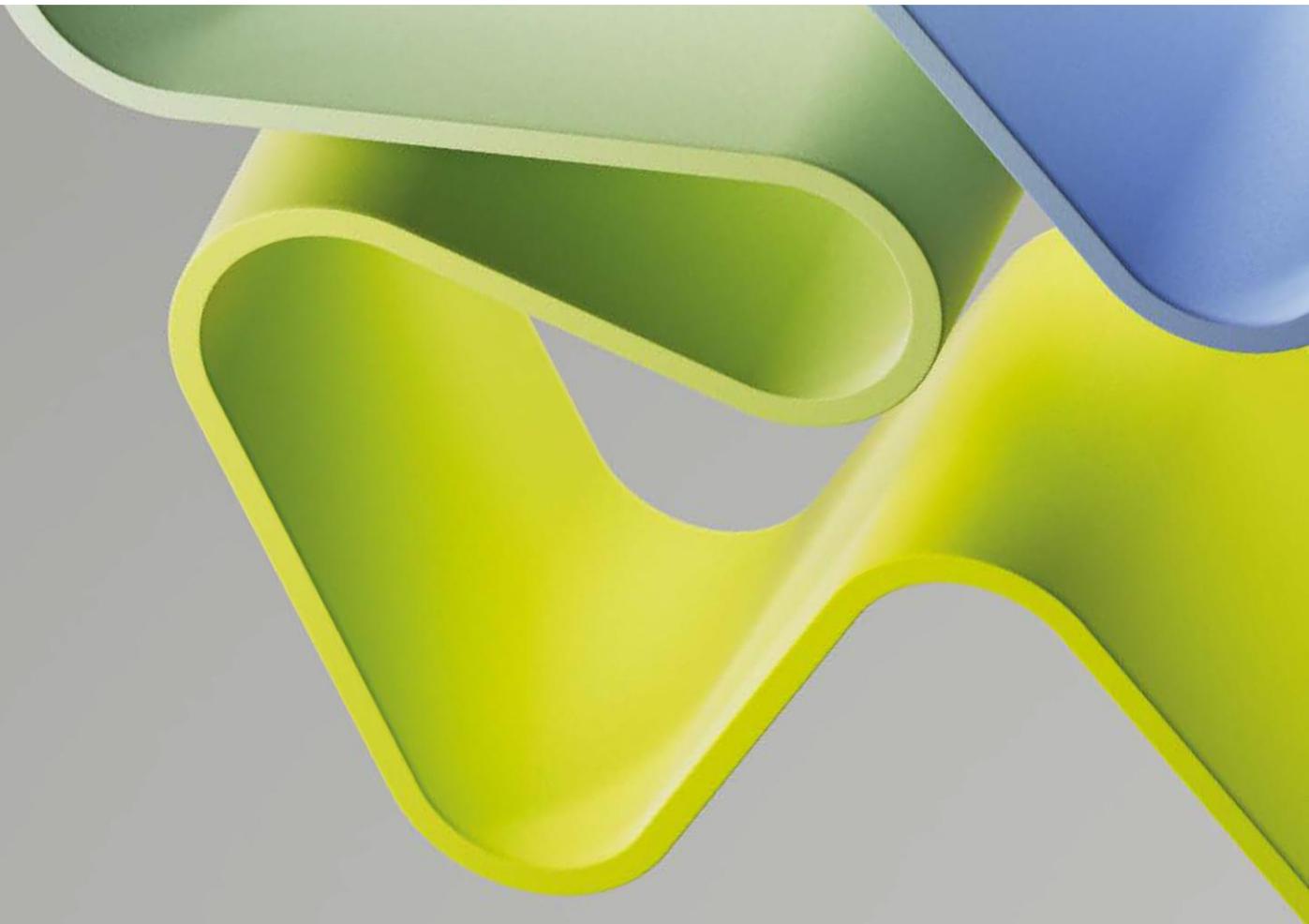
Evaluation of Medicine and Health 2023-2024

Evaluation report – Panel 4a

Research Group: Centre for Evaluation of Public Health Measures

Administrative Unit: Division of Mental and Physical Health

Institution: Norwegian Institute of Public Health



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Preface

The Research Council of Norway (RCN) is given the task by the Ministry of Education and Research to perform subject-specific evaluations. The primary aim of the evaluation of medicine and health (EVALMEDHELSE) 2023-2024 is to reveal and confirm the quality and relevance of research performed at Norwegian Higher Education institutions, research institutions (the institute sector) and the health trusts, in an international perspective. Such knowledge is useful for the institutions that participate in the evaluation, for the Research Council who advise the authorities on how research should be developed further, and for the authorities, who set targets and frameworks for research and higher education. Research groups submitted by their administrative unit will be assessed by 18 expert panels organised by research subjects or themes. The expert panels will assess research groups across institutions and sectors based on research group's self-assessments and examples of scholarly output. These research reports will be part of the evaluation of their belonging administrative units.

Abstract

The Centre for Evaluation of Public Health Measures is a virtual institute established in 2018 in the Norwegian Institute of Public Health with the primary aim to enhance its research into public health measures. It currently consists of 14 researchers who have dual appointments at other departments within the division. It aims to conduct high quality evaluations of public health measures and evaluation of public health interventions, and has stakeholder and end-users engagement as an important part of its evaluations. The group's benchmark outlines an adherence to high standards of academic excellence and producing publications in esteemed scientific journals. To achieve this, it collaborates closely with national and international research institutions and in close collaboration with administrative bodies; in particular municipalities. The research group receives core funding from the host institution, and additionally has been very successful in obtaining external grant funding from national and international sources. In the reporting period the group led on, or has had significant roles in, a comparatively large number of high quality and high impact projects nationally and internationally. Its outputs are of high scientific quality and have been published in high quality expert peer-reviewed international journals. The research group does not have responsibility for teaching, but contributes in the form of supervision of Master's and PhD students.

Overall assessment

The panel considered the research group's organisation and composition to conduct research activities as *outstanding*. It has a clear strategy, and a strength of the research group was the clear policy relevance of its research programme. It would have benefitted from measurable benchmarks that could be evaluated and provide a clear path going forward. Its collaborations, both nationally and internationally, were considered excellent and describe collaborations at all levels from municipalities, to international research institutes, to WHO. The resources provided by the host institution to the research group were sufficient. The panel was impressed with the success the research group has had in attracting external research funding. The panel considered the research quality of the group to be very good. The group has a prolific output, and its collaborations and profile nationally are excellent while internationally good as well. Its research and publications were considered by the panel to be at the forefront of science as it has been using high quality methodologies and data for evaluations, but considered its contribution to monographs and scientific books to be of national relevance only which is appropriate for such publications in the current context. The panel considers the societal contribution of the research group to be very good, and the examples it provided of tools and reports are likely to have (had) direct societal impact and be making a sound societal contribution. User involvement was meaningful, substantial and integral to the group's activities; this aspect could be consolidated further.

Grading:

Dimensions	Score
Organisational dimension (How adequate the organisational environment is in supporting the production of excellent research).	5
Quality dimension (Research and publication quality/Research group's contribution)	4/4
Societal impact dimension (Research group's societal contribution/User involvement)	4/5

Recommendations

- The panel recognises the value of the virtual research centre and recommends the group considers whether expansion would be possible, as it is relatively small and 'punching well above its weight'. If possible, then the group should develop a clear strategy of how to achieve expansion in partnership with the university and stakeholders.
- The panel recommends the research group explores the possibility of expanding its research programme to evaluation methodology development and evaluation as well.
- The panel further recommends that the research group better describe how they involve end-users and stakeholders throughout their research cycles, and what impact this has had on research development and dissemination.
- It also recommends the group considers other methods of knowledge transfer, particularly in relation to the general public. Given its research focus, contributions to open debates, articles in mainstream media, blog or podcasts for example, might be beneficial, attractive to funders and collaborators, and engage with further stakeholders and communities.

1. Strategy, resources and organisation

1.1 Research group's organisation and strategy

The Centre for Evaluation of Public Health Measures was established in 2018 in the Norwegian Institute of Public Health with the primary aim to enhance its research into public health measures. It is a virtual institute with its administrative oversight residing within the Division of Physical and Mental Health Head and the research group's head holds a pivotal role within the division's leadership. It consists of 14 researchers who are each employed at various departments within the division, ensuring they engage in research aligning with the research group's objectives. Researchers at the group were involved in an impressive 34 research projects in 5 years. The research group maintains an association with the Centre for Epidemic Interventions Research. The research group relies on a combination of external and basic funding.

The group aims to conduct high quality evaluations of public health measures and evaluation of public health interventions, and do this with meaningful involvement of stakeholders and end-users in its evaluations. The research group has the goal of being a nationally recognised resource for expertise and knowledge on public health evaluations. Its research includes effectiveness studies on a parental guidance programme, smoking cessation, workplace interventions to reduce alcohol use, standardized tobacco packaging, as well as provision of a learning environment for school nurses and of mental health care. It was also involvement in several projects around COVID-19. In the self-assessment report it explicitly identifies its CO-CREATE project for development of new tools for policy monitoring and evaluation around dietary behaviour and physical activity as particularly important.

The group's benchmark outlines an adherence to high standards of academic excellence and producing publications in esteemed scientific journals. To achieve this they aim to collaborate closely with national and international research institutions and engage with leading professional communities. Its research should also be done in close collaboration with administrative bodies, and in particular municipalities. Its selection of research topics is based on relevance and potential impact to population health, and should address structural determinants of health burden. It describes a large number of national and international collaborations, and also closely collaborates with municipalities and counties.

Researchers at the group have no formal responsibility for teaching, but have engaged with teaching and examination at several universities. They also currently contribute by supervision of 5 PhD students and 17 Master's students.

The research group is supported by the host institution by its library, whose staff collaborate on systematic literature searches. It does not support any national infrastructure.

The panel considered the research group's organisation and composition to conduct research activities as outstanding and gave this a score of 5. In particular, it considered the dual appointments of staff to the research group and other departments as a strength as it facilitates multi-disciplinary approaches and a wider net of potential collaborators. It has a clear strategy with timely benchmarking, although the latter would have benefitted from measurable benchmarks that could be evaluated and provide a clear path going forward. A strength of the research group was the clear policy relevance of its research programme. The panel noted that the virtual centre does not have official responsibility for teaching, but nonetheless its researchers engaged in teaching at various universities and contributed to PhD and Master's supervision. Its collaborations, both nationally and internationally, were considered excellent and describe collaborations at all levels from municipalities, to international research institutes, to WHO. The resources provided by the host institution to the research group were sufficient, but fairly minimal, although the panel recognise that as a virtual institution additional support is likely to lie at departmental or divisional level.

Recommendations to the research group

- The research group seems well placed to make use of the opportunities presented and to be active in seeking others, the panel recommends this continues.
- The panel recommends the host institution considers increasing core funding and providing additional opportunities for centre level exchange.
- It further suggests the group considers whether expansion would be possible, as it is relatively small and 'punching well above its weight'. Staff turnover might be a problem. If possible, the group should develop a clear strategy of how to achieve expansion with the university and wider stakeholders.

1.2 Research group's resources

The virtual research group consists of 14 researchers, with a very good mix across grades; including 6 senior researchers, 7 researchers, and 1 postdoctoral fellow, as well as an additional 1 PhD student, 1 senior advisor and 1 head of centre. Its gender balance is overall good, although senior positions are mostly men and junior or non-research staff are women.

It receives a set amount of core funding (2.4 million NOK annually) during the 2018-2022 reporting period, and has been very successful in obtaining external funding to the order of 7-8 million NOK annually from various national and international sources. It did not obtain funding from the private sector.

Little information is provided in the self-assessment report around researcher training and mobility.

The panel was impressed with the success the research group has had in attracting external research funding. In particular, the group was able to attract this funding from commissioned research from the public sector, the Research Council of Norway, from other national sources, and was also successful in obtaining external funding from international sources. The research group has been involved in a large number of national and international research projects, evidencing that it uses external funding in an excellent manner for its activities and to achieve its research goals.

Recommendations:

The absence of obtaining funding from industry or the private sector might be a deliberate choice, but the panel suggests the research group explores whether this could be part of a strategy to expand its staff size and research activities without impacting on core principles and bringing conflicts of interest.

1.3 Relevance to the institution

The centre was established based on funding from the Ministry of Health with the purpose of strengthening the research focus on the effectiveness of public health measures, and is highlighted as a national resource and capacity in the government's white paper on public health. Public health measures, the focus of the research group, were highlighted as a key part of the strategy of the host institution.

The research group's relevance to the institution seems excellent, and it seems an important asset of the Norwegian Institute of Public Health.

The panel has no specific recommendations regarding relevance to the institution as the group performs very well in this regard.

2. Research quality

2.1 Research group's scientific quality

The research group has a very high research output. It contributed to 34 national and international projects in the 5 year reporting period. Between 2018 and 2022 it contributed to 38 academic reports and 192 scientific papers. 46 of these (24%) were considered quality standard level 2. Its selected set of 10 projects include several large programmes which are likely to impact significantly on national public health. These include the aforementioned CO-CREATE project aimed at co-creating obesity-preventing evidence-based policies for children and adolescents, as well as projects around school food schemes, development of open places, social media, parenting, and occupational health, mental health, and alcohol. Most of these are large public health (policy) intervention development and/or evaluation programmes of national importance, with a few being conducted in the European context. The self-assessment report includes five selected publications, which published in very good international peer-reviewed specialist journals. The selected papers illustrate a variety of evaluation methods, including trials and secondary data analyses, but also a systematic review. Researchers from the research group had leading contributions to all of these, The research group also led on, or contributed to, 8 monographs or scientific books aimed at a national audience, as these are all in Norwegian which is appropriate.

The panel considers the research quality of the group to be internationally excellent overall and has a considerable role across the research process from the formulation of important research goals to dissemination of its research. The group have a prolific output, and its collaborations and profile nationally are excellent while internationally good as well and the panel gave it a score of 4 for originality, scientific quality and rigor. The research presented in the self-assessment report contributes significantly the wider research nationally and in some cases internationally. Its quality is of high scientific quality internationally and likely to be impactful. Its involvement in European research is excellent. Its research and publications are at the forefront of science where using high quality methodologies and data are used for evaluations, but the programme as a whole may benefit from more methodological development activities for the group to be at the forefront of science internationally as well. The panel considers the group's contribution to publications to be excellent and gave it a score of 4. The monographs and scientific books were considered to be of national relevance.

Recommendations:

The panel recommends the research group explores the possibility of expanding its research programme to evaluation methodology development and evaluation as well. It further suggests the research group explores whether some of its work might be more impactful if published in less-specialist peer-reviewed journals such as for example the BMJ and JAMA.

2.2 Research group's societal contribution

The research group has significant direct societal impact as a result of its activities. Its activities are targeting current or planned policy actions. For example, its evaluation of Prompt Mental Health Care has contributed to the continuation and provision of Prompt Mental Health Care in primary health care facilities in municipalities. Researchers from the group have also lectured and supervised municipalities and counties on intervention development and evaluation. Its list of selected products with societal contribution in the self-assessment form describe the co-creation of a health-promoting online environment with students and schools, a related digital training module to enhance knowledge about 0-6 year olds perspectives and mental health, and several reports. Its CO-CREATE EU Horizon 2020 project developed a tool to facilitate an interactive discussion and collaborations across generations.

The panel considers the societal contribution of the research group to be very good and gave this a score of 4. It provided examples of tools and reports that are likely to have direct societal impact nationally on health and welfare services and practices. The fact most are co-created with stakeholders and end-users is excellent and very important going forward. The panel considered, however, that most of the selected outputs in the self assessment form were reports to and with stakeholders and gave this section a score of 5 in being internationally excellent. There is room for further work here of course in the view of the panel since comparatively few described engagement with and knowledge transfer to the general population. However, the panel noted the explicit aim to involve stakeholders and end-users in all its research, and considered that there was evidence of this.

Recommendations:

The panel recommends that the research group describe more fully and in all its communications how they involve end-users and stakeholders throughout their research cycles, and what impact this has had on research development and dissemination.

The panel further recommends that the group considers other methods of knowledge transfer, particularly in relation to the general public and civic society. Given its research focus, further contributions to open debates, articles in mainstream media, blogs or podcasts for example, might be effective in reaching under-served and diverse communities.

Appendices

Evaluation of Life Sciences in Norway 2022-2024

Evaluation of Medicine and Health 2023-2024

Mandate Expert panels

The Research Council of Norway (RCN) is given the task by the Ministry of Education and Research to perform subject-specific evaluations. The Portfolio board for Life Sciences in the Research Council of Norway has decided to carry out an evaluation of medicine and health in 2023-2024 as the second of two evaluations within Life Sciences. The evaluation of biosciences takes place in 2022-2023.

1. The objective of the evaluation

The primary aim of the evaluation of Life Sciences is to reveal and confirm the quality and the relevance of research performed at Norwegian Higher Education Institutions (HEIs), by the institute sector and by health trusts.

The results of the evaluation will be used as recommendations to the institutions, the Research Council, and the ministries.

2. Tasks of the expert panels

The panels are requested to:

- evaluate the strategy, resources and organisation of/for the research groups.
- evaluate research production and quality of the research groups.
- grade and write a short evaluation text to the evaluated research groups.

Each of the expert panels will write a brief report with evaluations of the different research groups as well as specific recommendations.

3. Time schedule

Digital panel meetings will take place in the period March 15. - June 15. 2024.

Deadline for submitting panel report to the Research Council: June 15. 2024.

4. Miscellaneous

Other important aspects of Norwegian life sciences research that ought to be given consideration.

EVALMEDHELSE 2023-2024 – Panel group description – January 2024

Panel group	Description	Panel no.
Group 1 PHYSIOLOGY Physiology-related disciplines (human physiology), including corresponding translational research	Anatomy, physiology, embryology, nutritional physiology, pathology, basic odontological research, exercise physiology, neurobiology, toxicology, pharmacology, medicinal chemistry, chemistry, biology, pathology.	Panel 1a Panel 1b
Group 2 MOLECULAR BIOLOGY Molecular Biology, including corresponding translational research	Microbiology, bacteriology, inflammation and infection disease research, forensic medicine, genetics, immunology, vaccine development, microbiological diagnostics, pharmaceutical microbiology, cell biology, molecular medicine and -biophysics, medical biochemistry, omics, organoids, imaging, toxicology, pathology, drug development, cancer research, translational research, systems biology, personalized medicine, biomarkers, oncology, genetics, genomics, epigenetics, proteomics, bioinformatics-/statistics, computational science, AI, biology, virology, radiology, ionisation, molecular biology, microbiology, pharmacology, pharmacogenomics, regenerative medicine and related subjects.	Panel 2a Panel 2b Panel 2c
Group 3a CLINICAL RESEARCH	Clinical Research, including surgery and translational research within: paediatrics, women's health, gynaecology, otorhinolaryngology, head and neck surgery, oncology, haematology, radiology and medical imaging.	Panel 3a_1 Panel 3b_2
Group 3b CLINICAL RESEARCH	Clinical Research, including surgery and translational research within: general medicine, emergency medicine, anaesthesiology, neurology, geriatric medicine, rehabilitation medicine, cardiology, nephrology/urology, endocrinology, pulmonary medicine, orthopaedics, rheumatology, Infection, gastroenterology.	Panel 3b_1 Panel 3b_2 Panel 3b_3
Group 4 PUBLIC HEALTH Public Health and Health-related Research	Public health, community research, epidemiology, preventive medicine, mental health, behavioural research and ethics, medical statistics, environment, nutrition, preventive medicine, physiotherapy, sports medicine, implementation research, public health, health care services research, global health, nursing	Panel 4a Panel 4b Panel 4c

	sciences, rehabilitation sciences, public health systems, digital health care services, ICT, HTA, health competence, genetic and epigenetic epidemiology, non-communicable diseases, pharmacology, nursing research, professional research, occupational medicine.	Panel 4d Panel 4e Panel 4f
Group 5 PSYCHOLOGY Psychology and Psychiatry	Clinical psychology, personality psychology, developmental psychology, cognitive psychology, biological psychology and forensic psychology, psychiatry, including geriatric psychiatry, child and adolescent psychiatry and biological psychiatry, social-, community- and workplace psychology, organizational psychology, developmental psychology, behavioural and health psychology, health promotion and well-being.	Panel 5a Panel 5b



Panel group 4 PUBLIC HEALTH

Expert panel 4a

Name	Title	Institution
Jill Manthorpe (chair)	Professor emeritus	King's College London
Falko Sniehotta	Professor	Universitetzmedizin Mannheim
Elisabetta Crocetti	Professor	Alma Mater Studiorum University of Bologna
Ilona Grünberger	Professor	Stockholm University
Lars Wallin	Professor	Dalarna University
Frank de Vocht	Professor	University of Bristol



Evaluation of Medicine and Health (EVALMEDHELSE) 2023-2024

Self-assessment for research groups

Date of dispatch: **15. September 2023**

Deadline for submission: **31. January 2024**

Updated: **13. October 2023**

Institution (name and short name): _____

Administrative unit (name and short name): _____

Research group (name and short name): _____

Date: _____

Contact person: _____

Contact details (email): _____

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Short version

Introduction

The primary aim of the evaluation is to reveal and confirm the quality and the relevance of research performed at Norwegian Higher Education Institutions (HEIs), the institute sector and the health trusts. These institutions will henceforth be collectively referred to as research performing organisations (RPOs). The evaluation report(s) will provide a set of recommendations to the RPOs, the Research Council of Norway (RCN) and the responsible and concerned ministries. The results of the evaluation will also be disseminated for the benefit of potential students, users of research and society at large.

You have been invited to complete this self-assessment as a research group. The self-assessment contains questions regarding the group's research- and innovation related activities and developments over the years 2012-2022. All submitted data will be evaluated by expert panels.

Deadline for submitting the self- assessment to your administrative unit – 26 January 2024

The administrative unit will submit the research groups' completed self-assessments and the administrative unit's own completed self-assessment to the Research Council within 31 January 2024. Please submit completed self- assessment to the administrative unit no later than 26 January 2024.

Please use the following format when naming your document: [short name of the institution]_[short name of the administrative unit]_[short name of the research group], e.g. *UiT_DepPsy_Short name of the research group*.

For questions concerning the self-assessment or EVALMEDHELSE in general, please contact RCN at evalmedhelse@forskningsradet.no.

Thank you!

Guidelines for completing the self-assessment

- Please read the entire self-assessment document before answering.
- The evaluation language is English.
- Please link to websites/documents in the self-assessment where relevant.
- Please be sure that all documents linked to in the self- assessment are written in English and are accessible.
- The page format must be A4 with 2 cm margins, single spacing and Calibri and 11-point font.
- The self-assessment follows the same structure as the [evaluation protocol](#). In order to be evaluated on the two evaluation criteria described in the evaluation protocol, the research group must answer all questions.
 - ⇒ Provide information – provide documents and other relevant data or figures about the research group, for example strategy and other planning documents, as well as data on R&D expenditure, sources of income and results and outcomes of research
 - ⇒ Describe – explain and present using contextual information about the research group and inform the reader about the research group.
 - ⇒ Reflect – comment in a reflective and evaluative manner how the research group operates.
- Data on personnel should refer to data reported to DBH on 1 October 2022 for HEIs and to the yearly reporting for 2022 for the institute sector and the health authorities. Other data should refer to 31 December 2022 if not specified otherwise.
- It is possible to extend the textboxes when filling in the form. **NB!** A completed self- assessment form cannot exceed 25 pages (pdf file). Expert panels are not requested to read more than the maximum of 25 pages. Pages exceeding maximum limit of 25 pages **might not** be evaluated.
- Submit the self- assessment as a pdf (max 25 pages) to the administrative unit within **26 January 2024**. Before submission, please be sure that all text are readable after the conversion of the document to pdf. The self- assessment should be sent from the administrative unit to evalmedhelse@forskningsradet.no within **31 January 2024**.

Please note that information you write in the self assessment and the links to documents/websites in the self-assessment are the only available information for the expert panel.

In exceptional cases, documents/publications that are not openly available must be submitted as attachment(s) to the self- assessment (pdf file(s)).

1. Organisation and strategy

1.1 Research group's organisation

Describe the establishment and the development of the research group, including its leadership (e.g. centralised or distributed etc.), researcher roles (e.g. technical staff, PhD, post docs, junior positions, senior positions or other researcher positions), the group's role in researcher training, mobility and how research is organised (e.g. core funding organisation versus project based organisation etc.).

Table 1. List of number of personnel by categories

Instructions: Please provide number of your personnel by categories.

For institutions in the higher education sector, please use the categories used in DBH, <https://dbh.hkdir.no/datainnhold/kodeverk/stillingskoder>. Please add new lines or delete lines which are not in use.

	Position by category	No. of researcher per category	Share of women per category (%)	No. of researchers who are part of multiple (other) research groups at the admin unit	No. of temporary positions
No. of Personnel by position	Position A (Fill in)				
	Position B (Fill in)				
	Position C (Fill in)				
	Position D (Fill in)				

1.2 Research group's strategy

a) Describe the research group's main goals, objectives and strategies to obtain these (e.g. funding, plans for recruitment, internationalization etc.) within the period 2012-2022.

b) Please describe the benchmark of the research group. The benchmark for the research group should be written by the administrative unit in collaboration with the research group. The benchmark can be a reference to an academic level of performance (national or international) or to the group's contributions to other institutional or sectoral purposes.

Example: A benchmark for a research group is related to the research groups' aim which again is included in the strategy for the administrative unit. A guidance for the administrative unit to set a benchmark for the research group(s) can e.g. be: What do the administrative unit expect from the research group(s)?

c) Describe the research group's contribution to education (master's degree and/or PhD).

d) Describe the support the host institution provides to the research group (i.e., research infrastructure, access to databases, administrative support etc.).

1.3 Relevance to the institutions

Describe the role of the research group within the administrative unit. Consider the research group's contribution towards the institutional strategies and objectives, and relate the research group's benchmark to these.

1.4 Research group's resources

Describe the funding portfolio of the research group for the last five years (2018-2022).

Table 2. Describe the sources of R&D funding for the research group in the period 2018-2022.

	2018 (NOK)	2019 (NOK)	2020 (NOK)	2021 (NOK)	2022 (NOK)
Basic funding					
Funding from industry and other private sector sources					
Commissioned research for public sector					
Research Council of Norway					
Grant funding from other national sources					
International funding e.g. NIH, NSF, EU framework programmes					
Other					

1.5 Research group's infrastructures

Research infrastructures are facilities that provide resources and services for the research communities to conduct research and foster innovation in their fields. [These](#) include major equipment or sets of instruments, knowledge-related facilities such as collections, archives or scientific data infrastructures, computing systems communication networks. Include both internal and external infrastructures.

- a) Describe which national infrastructures the research group manages or co-manages.
- b) Describe the most important research infrastructures used by the research group.

1.6 Research group´s cooperations

Table 3. Reflect on the current interactions of the research group with other disciplines, non-academic stakeholders and the potential importance of these for the research (e.g. informing research questions, access to competence, data and infrastructure, broadening the perspectives, short/long-term relations).

<p>Interdisciplinary (within and beyond the group)</p>	<p>About 1/3 page</p>
<p>Collaboration with other research sectors e.g. higher education, research institutes, health trusts and industry.</p>	<p>About 1/3 page</p>
<p><u>Transdisciplinary</u> (including non academic stakeholders)</p> <p><i>Transdisciplinary research involves the integration of knowledge from different science disciplines and (non-academic) stakeholder communities with the aim to help address complex societal challenges.</i></p>	<p>About 1/3 page</p>

2. Research quality

2.1 Research group's scientific quality

Describe the research profile of the research group and the activities that contribute to the research group's scientific quality. Consider how the research group's work contributes to the wider research within the research group's field nationally and internationally.

Please add a link to the research group's website:

Short version

Table 4. List of projects

Instructions: Please select 5-10 projects you consider to be representative/the best of the work in the period 1 January 2012 – 31 December 2022. The list may include projects lead by other institutions nationally or internationally. Please delete tables that are not used.

Project 1 -10: <i>Project title/Project period (year from – year to)</i>	Project owner(s) (project leaders organisation)	
	Total budget and share allocated to research group	
	Objectives and outcomes (planned or actual) and link to website	

Table 5. Research group's contribution to publications

Instructions: Please select 5-15 publications from the last 5 years (2018-2022) with emphasis on recent publications where group members have a significant role. **If the publication is not openly available, it should be submitted as a pdf file attached to the self-assessment.** We invite you to refer to the Contributor Roles Taxonomy in your description: <https://credit.niso.org/>.

Cf. Table 1. List of personell by categories: Research groups up to 15 group members: 5 publications. Research groups up to 30 group members: 10 publications. Research groups above 30 group members: 15 publications.

Please delete tables that are not used.

Publication 1 -15: <i>Project title/Journal/Year/DOI/URL</i>	Authors (Please highlight group members)	
	Short description	
	Research group's contribution	

Table 6. Please add a list with the research group's monographs/scientific books.

Please delete lines which are not used.

1	Title - Authors (Please highlight group members)- link to webpage (if possible)
2	

2.2 Research group's societal contribution

Describe the societal impact of the research group's research. Consider contribution to education, economic, societal and cultural development in Norway and internationally.

Table 7. The research group's societal contribution, including user-oriented publications, products (including patents, software or process innovations

Instructions: Please select 5–10 of your most important user-oriented publications or other products from the last 5–10 years with emphasis on recent publications/products. For each item, please use the following formatting. Please delete lines which are not used.

3. Challenges and opportunities

Information about the strengths and weaknesses of the research group is obtained through the questions above. In this chapter, please reflect on what might be the challenges and opportunities for developing and strengthening the research and the position of the research group.

Short version



Scales for research group assessment

Organisational dimension

Score	Organisational environment
5	An organisational environment that is outstanding for supporting the production of excellent research.
4	An organisational environment that is very strong for supporting the production of excellent research.
3	An organisational environment that is adequate for supporting the production of excellent research.
2	An organisational environment that is modest for supporting the production of excellent research.
1	An organisational environment that is not supportive for the production of excellent research.

Quality dimension

Score	Research and publication quality	Score	Research group's contribution Groups were invited to refer to the Contributor Roles Taxonomy in their description https://credit.niso.org/
5	Quality that is outstanding in terms of originality, significance and rigour.	5	The group has played an outstanding role in the research process from the formulation of overarching research goals and aims via research activities to the preparation of the publication.
4	Quality that is internationally excellent in terms of originality, significance and rigour but which falls short of the highest standards of excellence.	4	The group has played a very considerable role in the research process from the formulation of overarching research goals and aims via research activities to the preparation of the publication.
3	Quality that is recognised internationally in terms of originality, significance and rigour.	3	The group has a considerable role in the research process from the formulation of overarching research goals and aims via research activities to the preparation of the publication.
2	Quality that meets the published definition of research for the purposes of this assessment.	2	The group has modest contributions to the research process from the formulation of overarching research goals and aims via research activities to the preparation of the publication.
1	Quality that falls below the published definition of research for the purposes of this assessment.	1	The group or a group member is credited in the publication, but there is little or no evidence of contributions to the research process from the formulation of overarching research goals and aims via research activities to the preparation of the publication.

Societal impact dimension

Score	Research group's societal contribution, taking into consideration the resources available to the group	Score	User involvement
5	The group has contributed extensively to economic, societal and/or cultural development in Norway and/or internationally.	5	Societal partner involvement is outstanding – partners have had an important role in all parts of the research process, from problem formulation to the publication and/or process or product innovation.
4	The group's contribution to economic, societal and/or cultural development in Norway and/or internationally is very considerable given what is expected from groups in the same research field.	4	Societal partners have very considerable involvement in all parts of the research process, from problem formulation to the publication and/or process or product innovation.
3	The group's contribution to economic, societal and/or cultural development in Norway and/or internationally is on par with what is expected from groups in the same research field.	3	Societal partners have considerable involvement in the research process, from problem formulation to the publication and/or process or product innovation.
2	The group's contribution to economic, societal and/or cultural development in Norway and/or internationally is modest given what is expected from groups in the same research field.	2	Societal partners have a modest part in the research process, from problem formulation to the publication and/or process or product innovation.
1	There is little documentation of contributions from the group to economic, societal and/or cultural development in Norway and/or internationally.	1	There is little documentation of societal partners' participation in the research process, from problem formulation to the publication and/or process or product innovation.

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