Living with Dementia

Call for proposals
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1 Introduction

1.1 Background

NWO contributes to Dutch innovation policy with a part of its programming. From 2020 onwards, this programming will be based on the mission-driven top sectors and innovation policy of the Ministry of Economic Affairs and Climate Policy (EZK), which is aimed at solving major societal challenges. The underlying Knowledge and Innovation Agendas (KIAs) and the contributions of NWO and other parties are part of the Knowledge and Innovation Covenant (KIC) 2020-2023.

Mission-driven top sectors and innovation policy

Climate change, cyber security, ageing: Dutch society faces several major challenges. These challenges require groundbreaking innovative solutions with impact. That offers economic opportunities for public and private parties to jointly develop innovative solutions for societal issues.

Four important societal themes play a central role in the new mission-driven top sectors and innovation policy:

− Energy Transition & Sustainability
− Agriculture, Water & Food
− Health & Care
− Security

These themes have been elaborated in 25 missions that contain concrete ambitions.

There will also be a focus on:

− Key Technologies
− Public earning capacity

From ambitions to objectives

Based on the ambitions, the top sectors have jointly drawn up Knowledge and Innovation Agendas (KIAs) for each of the aforementioned six themes. In consultation with relevant stakeholders from science and society, multiannual mission-driven innovation programmes (MMIPs) have been formulated within these KIAs. For the innovation areas, the MMIPs describe the intended objective, the (sub)programme lines and the specific research and development questions to be answered. For the Key Technologies, potential multiannual programmes (in Dutch: MJPs) have been identified, supplemented with knowledge and research questions.

NWO and the KIC: research bring solutions a step closer

The contribution of scientific and practice-oriented research is indispensable for realising solutions for the challenges posed. NWO is responding to this by investing more than 100 million euros per year in research in which public and private parties collaborate on societal challenges. The research and innovation programmes of NWO for the KIC 2020-2023 contribute to answering the research and development questions linked to the societal challenges.

Collaboration with impact

The Dutch government has never previously formulated the ambition to realise large-scale societal changes to solve societal problems. In the vision of NWO, the chances of realising the intended changes and the impact of these will be greatest if the focus lies with interdisciplinary research in which collaboration is sought with relevant knowledge institutions (including universities of applied sciences), public and private partners, including small and medium-sized enterprises (SMEs). Chapter 2 of this call for proposals explains how NWO will encourage and facilitate the route from societal problem via research to impact.
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NWO research programmes for the KIC 2020-2023: four main lines

NWO will focus on specific and large-scale research programmes. These programmes are organised in four main lines:

1. MISSION – Mission-driven thematic calls aimed at the priorities from the six KIAs.
2. DEMAND – Partnerships aimed at research and innovation questions from private and public partners on subjects from the KIAs.
3. STRATEGY – Large, long-term, strategic collaborations on subjects from the KIAs.
4. PRACTICE – Practice-driven instruments aimed at strengthening collaboration between universities of applied sciences, SMEs and regional partners, on subjects from the KIAs.

This call for proposals falls within the main line MISSION, in which NWO will develop a limited number of large thematic calls each year.


1.2 Available budget

This call for proposals falls within the main line MISSION (see Section 1.1), in which NWO develops a limited number of large thematic calls each year.

The grant ceiling for this call is € 5.250.000. This amount is divided across two sub-grant ceilings for the following two research lines (see also Section 2.1):

1. The sub-grant ceiling for research line A is € 2.625.000; and
2. The sub-grant ceiling for research line B is € 2.625.000.

The applicant chooses which research line to submit the proposal to and states this on the application form. If the sub-grant ceilings cannot be fully used because no other proposals within the research line concerned are eligible for funding, then the NWO Executive Board can decide to add the unused budget from the research line to the sub-grant ceiling of the other research line.

Co-funding is compulsory for each research proposal in this call for proposals. Please see Section 3.5 for the exact percentages of the compulsory co-funding.

1.3 Validity of the call for proposals

The application round living with dementia has two phases:

1. The submission of pre-proposals
2. The submission of full proposals

This call for proposals is valid until the date on which the NWO Executive Board takes the decision about the full proposals. For projects awarded funding within this call for proposals, the conditions stated remain valid throughout the entire duration of the project.

The deadlines for the two phases are stated in Section 3.3; the expected decision dates are given in the planning stated in Section 4.1.
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2 Aim

2.1 Theme of the call

Background
Reaching a high age is relatively new for our society. Only in recent decades have people lived to be older than 60 to 70 years, and the number of elderly people is increasing. Only now are we learning what that means in biomedical, socio-psychological and societal terms. With this, the size and severity of dementia has recently become clear. Dementia has a considerable impact on the societal participation and quality of life of a person who suffers from it, but also on their direct environment. We still only know to a limited extent how to deal with this adequately. There is still a lot to learn and discover through careful exploration and research into people with (the initial stages of) dementia and their environment. What we do know is that the number of people with dementia in our society will increase. At least, unless research provides a solution for preventing and/or treating the person and their disease.

The development of drugs against dementia has proved to be a particularly difficult area up until now. This is partly because potential remedies obtained from preclinical (animal) models proved to be insufficiently predictive for clinical success. Furthermore, clinical studies were often carried out on people who were in a later stage of the disease. Stages in which, according to current insights, (too) much irreparable damage has already occurred in the brain.

New approaches, which intervene in the early (pre)stage of dementia, are to provide the solution in the future. This can be achieved, for example, through improved insights into the pathogenesis and aetiology of dementia. In this regard, much is expected from the use of fundamental approaches from key enabling technologies such as Building Blocks of Life (BBoL), artificial intelligence (AI) and bioinformatics. New, still experimental technologies (e.g. “brain on a chip” technology) can also make a contribution. According to current insights, research and innovation should focus on the early detection of functional deterioration (behaviour, cognition, emotion) and stopping the initial biological, pathophysiological and functional neurodegenerative signs of dementia and the causes thereof. For example, there are questions about the initial development and accumulation of accretions of protein aggregates in the brain: do these cause dementia and, if so, which forms are responsible? Similarly, combinations of (existing or new) drugs and additional interventions can be effective in specific populations. For people with dementia, especially in the initial stages, personalised medicine could be useful. A better understanding of the aetiology of dementia also seems to be crucial in taking steps towards prevention as well as reducing the progression of the disease and treating people with dementia, while taking into account the various forms and expressions of dementia.

In addition, it is crucial to combine this approach that focuses more on the disease mechanism with research into the psychosocial and organisational factors related to living with dementia. A successful reduction in disease progression could, for example, lead to a reduced severity and possibly longer (but nevertheless still limited) independence. What does that mean for the patient and their environment? What does that mean for the organisation of care and welfare? What can technology contribute under these circumstances? Even if an effective delay of the disease mechanism is not yet possible, these are still highly relevant questions. And the combination of research into the aetiology and the psychosocial and organisational aspects of dementia is powerful because the personal background, living conditions and care organisation are an incontrovertible part of the aetiopathological process.

The quantity and diversity of health and health-related data about this vulnerable group can be used far better with the deployment of the key enabling technology AI. This technology can act as a catalyst in accelerating and improving the development of new interventions and monitoring the effectiveness of interventions.
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Aim
The outcomes of this call are meant to contribute to the overarching mission objective of the KIA 2020-2023 Health & Care that by 2030, the quality-of-life of people with dementia has increased by 25%. Accordingly, this mission also contributes to the central mission within the societal theme Health & Care, namely that by 2040, all Dutch citizens will live at least five years longer in good health, while the health inequalities between the lowest and highest socioeconomic groups will have decreased by 30%.

Quality of life and the informal carer
The quality of life of people with dementia depends, amongst other things, on their social and physical environment and their participation in society. Yet at the same time, there is still little attention for the growing group of people who daily care for a partner, family member, neighbour or acquaintance with dementia over a long period of time. To maintain or even improve their valuable contribution to the social participation and quality of life of people with dementia, we must carry out better research into both prevention and care options, for example via employers, via neighbourhood and district initiatives, and via third parties who temporarily or permanently assume responsibility for some of the tasks of informal carers. The appreciation of informal carers and respite carers is also a possibility. Too many informal carers are forced to give up working or become overburdened when they have long-term care tasks in addition to their work. The 24-hour responsibility for a family member in the home situation cannot easily be transferred nor shared from a logistical or moral-emotional perspective. Technology can form part of the solution in this regard.

Early detection of (characteristics of) dementia
Ultimately, innovations will contribute to prevention, (early) detection, slowing down the progression of dementia and treating dementia from the perspectives of both cure and care. Other innovations will lead to a better organisation of the prevention, care and support for people with dementia and their informal carers, and quality of life. Research into the underlying, often yet unknown, factors of disease mechanisms will contribute to the development of new forms of treatment, the development of drugs and other possibly combined interventions.

As interventions seem to have the best chance of succeeding if these are started on time, recognition of the risk factors and early detection of the initial stages of dementia are necessary, as is establishing the type of dementia. That requires timely interaction and careful supervision of individuals and their environment after the initial diagnosis. Without effective intervention, it is a heavy burden for people to know that they are becoming demented, and tools for dealing with this are welcome. Due to the societal importance of prevention, supervision and treatment, and the retention of a good quality of life in the case of dementia, it is essential to have a more frequent and in-depth dialogue with citizens regarding the development of new initiatives in this area. Diligent ways should be developed to motivate people with the initial stages of dementia (and their informal care) to take part in scientific research in which due consideration is given to the challenge of forming a good, representative cohort for the heterogeneous Dutch population of elderly people. In this context, it is important to know which behaviours, obstacles or resistance need to be taken into account. In addition, attention is requested for the creation of political and policy support at the level of GPs, who often form an initial link in reaching this group. How can GPs be involved in an effective manner?

Artificial intelligence
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The discipline of AI studies and develops intelligent systems that are capable of observing their environment and of learning, reasoning and planning on the basis of this as well as being able to influence their environment by realising actions. AI is currently developing at a rapid rate due to the increased calculating power of (super)computers, the increased access to data and an explosive increase in many different types of data, partly due to the rapid developments in sensor technology and society. AI offers many new possibilities and opportunities, but on the other hand, it also brings numerous technological, societal, economic and cultural fundamental questions, such as social interaction with people, the transparency and reliability of AI systems, and the responsible use of AI technologies. AI is therefore an interdisciplinary field with a focus on IT and mathematics and with important connections with the life sciences, social sciences and humanities. The entire AI research field is described in the national AI research agenda AIREA-NL, which is primarily focused on knowledge development for AI.

By making use of existing data and deploying AI, new relations and patterns can be discovered that could reveal plausible new insights into dementia. This concerns (health) data, including biological measures and all other potentially relevant data sources (educational level, family relationships, exercise, internet use, purchasing behaviour, nutrition, social participation, possibilities for and local policy towards participation, et cetera). The complex correlation between “hard” genetic data, biomedical data, lifestyle factors and environmental data, and also “soft” data such as in narratives of loved ones, can be further unravelled, and this can lead to new insights and methods for everyday practice. In this manner, the use of AI can help with the early detection of dementia and the development of preventative and therapeutic strategies at the individual and population levels. Ultimately, the aim is that the solutions worked on within this call meet a need of the end users. For example, it must be clear on which basis certain diagnoses and health recommendations are made. This end-user perspective must always be in the foreground with the aim of preventing and curing dementia.

Through the use of AI patterns mechanisms, it might be possible to expose 1) the genesis, progression and regression of dementia, taking into account the individual variability with which the disease can manifest, 2) the consequences on the daily functioning of a person from the first signs of dementia onwards, and 3) the quality of life (self-sufficiency, participation and making a difference) of these people and their loved ones.

Storage and use of data
As the route described above concerns the linking and usage of different types of data, such as formal databases (e.g. from The Netherlands Brain Bank, BBMRI, NCDC (only available in Dutch) to supermarket discount cards) and more or less informal data sources, of various data and quality, the FAIR\(^1\) and FACT\(^2\) principles are important. Distributed learning from *all over the world data* and *real-world data* must be able to offer surprising and innovative outcomes that can be further built upon towards prevention and care from both the cure and care perspectives.

Interdisciplinary approach
The aim of this programme requires an interdisciplinary and integral research approach by citizens, companies, government bodies and researchers (“quadruple helix”). Besides the “quadruple helix consortium composition”, this interdisciplinary approach must be expressed in the involvement of researchers and partners with different backgrounds (humanities, natural sciences, social sciences), in which the natural sciences must always be represented. In addition to (bio)medical and health researchers, this also means the substantial involvement of AI researchers and researchers from social sciences and humanities. With this collaboration, a different way of doing science will be developed and applied, which will in part require new methods and action perspectives from researchers and innovators and from the other quadruple helix partners. See Section 2.3 of this call for a further elaboration of the interdisciplinary approach.

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\(^1\) FAIR is the acronym for Findable, Accessible, Interoperable and Re-usable. For more information, visit: https://www.dtls.nl/fair-data/fair-principles-explained/

\(^2\) FACT is the acronym for Fairness, Accuracy, Confidentiality and Transparency. For more information, visit: https://redasci.org/
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What the call focuses on:
The mission objective from the KIA Health & Care is that by 2030, the quality of life of people with dementia has increased by 25%. Three elements are considered important in this regard:

1. Research into mechanisms of initiation, prevention and treatment of dementia;
2. Insight into the active elements with respect to:
   1. prevention of dementia;
   2. prevention of the debilitating consequences of dementia, in addition to the provision of generic lifestyle recommendations;
3. Research into increasing and/or maintaining the quality of life experienced by people with dementia and also their informal carers, and the contribution to the care by the formal care system, whether or not with the help of technology.

An example (not exhaustive, see also the KIA) of an innovation question concerns the importance of the dementia journey. Is it possible to create a metadata concept that can be usefully applied on data from multiple people with neurodegenerative disorders, and dementia in particular? The question is thereby what such distributed analyses of demented journeys teach science, the relevant innovative industry, the formal and informal health system and policymakers.

In this regard, it is important that specific attention is given to the diversity of the dementia journey data complexes, such as those of people with a low versus high socioeconomic status (SES), ethnicity and gender, age in combination with the variation in types of dementia and presence/absence of comorbidity, et cetera. Attention is also needed for the “vacuum after diagnosis”, a major life event for those involved which is therefore important for the quality of life of people with dementia.

Attention is also drawn to the role of the media and social media in innovations and how they can be effectively deployed to facilitate an innovation. Innovations also often give rise to ethical issues, which can elicit questions about how responsible the innovation is in the light of our values and the ethical premises of society. Any undesired effects associated with the innovation could lead to resistance toward using it.

Based on these questions, this call focuses on two interdisciplinary research lines, in which connection will be made for both lines with the key enabling technology AI:

1. Mechanistic research, resulting in high-quality, early diagnostics, prognostics and interventions;
2. Research into psychosocial interventions aimed at personalised self- and joint management and usable technology for people with dementia and their (in)formal carers.

Within each research line, the research proposal with the highest ranking will be awarded funding, whereby the proposal must satisfy the conditions as described in Section 4.2.2.

Boundary conditions for the research

1. In the proposal, the applicant states which of the two lines, A or B, the research proposal is for.
2. The research involves the quadruple helix, is a public-private partnership and interdisciplinary in nature, but always a combination with AI research, and challenging for researchers from the humanities, natural sciences and/or social sciences (for an elaboration see Section 2.3).
3. The proposal describes and substantiates how the research connects with previously acquired knowledge in the field. For dementia, this includes the Delta Plan for Dementia, the ZonMw research programme Memorabel and the knowledge agenda of Alzheimer Nederland. For the connection with AI research questions in the full breadth of AI research (humanities, natural science, social sciences), you are referred to the national AI research agenda AIREA-NL.
4. As part of the project, a knowledge synthesis of the existing knowledge and insights, including an overview of recent research, will be submitted at the start of the research trajectory.
5. The target group and other end users will be sufficiently involved in the research; for more information about participation in research, visit the ZonMw website (only available in Dutch).
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2.2 Research with societal impact

NWO believes it is important that knowledge generated from research funded by NWO also finds its way into society.

In the KIC, the programmes focus on innovative research with the aim of developing solutions for societal issues together with societal partners and in doing so creating economic opportunities. The programmes strive to realise impact\(^3\): societal changes in both the short and long-term.

In the KIC, NWO uses the Impact Plan Approach (see https://www.nwo.nl/en/policies/knowledge-utilisation). To increase the potential of the research’s societal impact, demonstrable involvement is needed from important stakeholders\(^4\) from the moment the consortium is formed until the completion of the project (see also under Section 2.3 Interdisciplinary research).

2.2.1 Impact Plan

Societal impact is never solely an outcome of knowledge and insight from research. Furthermore, societal impact is often only realised in the years after a research project has been concluded. Knowledge utilisation is viewed as an iterative process towards societal impact. By ensuring continuous alignment between researchers and possible knowledge users from the start of the research formulation (co-creation) and during the realisation of the research (co-design), the chances of productive interactions\(^5\) and knowledge utilisation increase. And, accordingly, the chances of societal impact too. Consortia together with stakeholders draw up an Impact Plan as part of the full proposal.

The Impact Plan describes the intended productive interactions for the consortium and the action plan for realising societal impact. The pre-proposal form contains several questions that can serve as an initial step towards the Impact Plan. In the full proposal form, an elaboration of the Impact Plan should be included as an integral part of the proposal.

An Impact Plan contains a description about how knowledge utilisation from the research will lead to a greater potential of the results. The full proposal describes how the approach for achieving impact is integrated in the research design and how this will be realised by consortium partners together with stakeholders from policy, practice and industry.

When the call is opened, NWO will organise a workshop in which the drawing up of an Impact Plan will be further explained to the consortia that will submit a full proposal (see Section 4.1.1).

2.3 Interdisciplinary research

With the KIC 2020-2023, NWO is realising an innovative approach with particular attention for interdisciplinary research. The societal challenges focused on in the mission-driven research require an integral approach in which researchers from the humanities, natural sciences and social sciences collaborate in order to contribute to complex societal issues.

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\(^3\) NWO understands societal impact to mean the cultural, economic, industrial, ecological or social changes that are (partly) the consequence of knowledge and expertise generated by research. These usually occur after the research has been realised, but also require continuous attention during the preparation and realisation of the project.

\(^4\) A stakeholder is each person or group that can influence the goals being achieved or can be influenced as a result of these.

\(^5\) NWO understands ‘productive interactions’ to be exchanges between researchers and stakeholders in which knowledge is produced and valued that is both scientifically robust and societally relevant.
How do we define interdisciplinary collaboration?

Interdisciplinary collaboration within the KIC refers to research in which knowledge and expertise from different scientific disciplines is brought together to solve problems and to explain phenomena for which knowledge from a single discipline would not be sufficient. Within the KIC, this concerns a collaboration between the scientific fields of the humanities, natural sciences and social sciences. The starting points of this are:

**Integrated**

It concerns an integration of at least two of the three scientific fields and always includes the natural sciences. The natural sciences cover the applied and engineering sciences, physical and natural sciences and the health sciences. Researchers from each of the scientific fields can initiate a collaboration. Research in the humanities and social sciences should be realised by researchers from those scientific fields and not by researchers from the domain of the natural sciences.

**From the outset**

The research question in the integrated approach is always interdisciplinary in nature. As a consequence, interdisciplinary research should be initiated right from the outset. Only then can interdisciplinary research questions be realised. Monodisciplinary research may be realised within the interdisciplinary collaboration. The results from the research will subsequently be integrated and lead to interdisciplinary answers. To achieve this, the research needs to be managed effectively.

Contributions from the humanities and social sciences cover the full range of disciplines within these scientific fields, such as linguistics, communication sciences, ethics, law, economics, business studies, psychology, media research, et cetera.

**Innovative**

A collaboration must be challenging and innovative for all researchers involved. So, for example, a collaboration does not merely mean including a legal clause or ethical condition (such as privacy) at the end of the research project. There is not one single ideal approach or method for interdisciplinary collaboration. Researchers choose the approach that best fits their research. The content of the research and the focus on achieving impact is guiding in this respect.

Interdisciplinary collaboration will not always develop automatically and requires stimulative and facilitative measures. The theme descriptions in the calls are formulated in such a way that they invite the submission of interdisciplinary proposals. Furthermore, NWO will arrange workshops and matchmaking meetings to facilitate that different disciplines are brought into contact with each other. Careful attention will also be paid to the selection and instruction of both the referees and selection committees. A further explanation of interdisciplinary collaboration can be found on NWO’s website.

### 2.4 Human capital

Training and working are essential factors in initiating innovations and achieving impact. We understand human capital to mean the preparation of professionals and students for a changing workplace and ensuring that sufficient labour potential is present. Within the KIC, human capital has acquired an important place to make the innovation policy successful. See also the [Human Capital Roadmap](#) (only available in Dutch) of the top sectors.
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In the coming years, the societal missions will place a strong call on the available labour potential in the sectors involved, and rapid societal, economic and technological developments will require workers to respond flexibly to the demands of the labour market. By participating in learning communities, consortia can help to strengthen the innovation system. Learning communities are collaborations between educational institutions, knowledge institutions, companies and/or civil society organisations that ensure a close interaction between learning, working and innovating. It is expected that within these learning communities, students will be better prepared for the changing workplace and that professionals will be enabled to develop throughout their working lives. With field labs, skills labs, centres of expertise, centres for innovative workmanship, lectorates, practorates, meeting points, living labs and other similar initiatives, learning communities can be given form in everyday practice.

During the elaboration of the Impact Plan, applicants will be requested to reflect on the role of human capital and learning communities in the consortium and in facilitating the desired impact. Consortia will therefore be invited from the initial thoughts about a project proposal onwards, to also consider the place that human capital could assume in the knowledge development and in the Impact Plan Approach. Consortia will also be invited to state which learning communities they are associated with and how these learning communities can be used and could themselves benefit from the knowledge development and Impact Plan Approach.

**Industrial Doctorate / Societal Doctorate**

One of the possibilities is to deploy research personnel who have an actual and substantial link with the practice related to the research. This can be achieved with the deployment of the PhD student budget module that can be applied for in collaboration with a public or private partner, the so-called Industrial Doctorate or Societal Doctorate (see Section 6.3).

### 2.5 Collaboration with universities of applied sciences

Within the KIC 2020-2023, practice-oriented research carried out by universities of applied sciences is considered to be one of the methods to realise impact by making a connection between research and practice. Consortia are therefore invited to reflect on the possibilities that collaboration with universities of applied sciences offer for their research and, where relevant, to involve partners from universities of applied sciences in the project.

### 2.6 International collaboration

The involvement of foreign researchers and/or collaborating partners can provide consortia with the expertise needed to address the innovation questions and societal challenges faced. Foreign collaboration partners can also help to increase the impact of the projects and scope of the research outcomes. Consortia are therefore invited, if this aligns with the objectives of the research proposal, to make use of the budget modules Internationalisation and Money follows Cooperation to give international collaboration a place in the project design. These modules are further described in Section 6.2.
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3 Guidelines for applicants

3.1 Who can apply

Pre-proposals and full proposals are submitted by the main applicant and one or more co-applicants. A proposal is written by a consortium in which besides the applicants other participants are involved as well.

Four categories of participants can be distinguished in the consortium:
1. Main applicant
2. Co-applicant(s)
3. Co-funder(s)
4. Collaborating partner(s)

Besides the main applicant and co-applicant(s) a consortium always consists of two or more co-funders, possibly supplemented by one or more collaborating partners.

All participants must play an active role in the formulation of the research questions and the design and realisation of the project.

3.1.1 Main applicant

The main applicant submits the pre-proposal and full proposal on behalf of the consortium and is the point of contact for NWO. The main applicant receives the grant and is, on behalf of the consortium, responsible for the scientific coherency and results as well as financially accountable.

The main applicant may only submit one proposal within this call in the role of main applicant. In addition to this, a main applicant may participate as a co-applicant in no more than one other consortium in this call.

The main applicant should be:
- a full, associate or assistant professor or another researcher with a comparable appointment;
- employed (i.e. hold a salaried position) at one of the following organisations:
  o Universities established in the Kingdom of the Netherlands;
  o University medical centres;
  o Universities of applied sciences, as referred to in Article 1.8 of the Dutch Higher Education and Research Act (Wet op het hoger onderwijs en wetenschappelijk onderzoek, WHW)
  o KNAW and NWO institutes;
  o the Netherlands Cancer Institute;
  o the Max Planck Institute for Psycholinguistics in Nijmegen;
  o the DUBBLE Beamline at the ESRF in Grenoble;
  o Naturalis Biodiversity Center;
  o Advanced Research Centre for NanoLithography (ARCNL);
  o Princess Máxima Center for Pediatric Oncology.
- and also have an appointment period for at least the duration of the application procedure and the entire duration of the research for which the grant is being applied for. Personnel with a zero-hour appointment is excluded from applying.

Main applicants must realise the research for which funding is applied for in the time that they work for the knowledge institution. If that is not the case, then the main applicant should provide a waiver from the other employer, so that knowledge ownership for the knowledge institution(s) is safeguarded.

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6 In the context of this call, ‘proposal’ is meant to indicate both pre-proposals as well as full proposals.

7 If the appointment period of the main applicant is shorter than the intended duration of the research for which funding is requested, then when the proposal is submitted a written statement from the knowledge institution must be provided which guarantees that the tasks of the main applicant will be taken over for the remaining duration of the research in case the appointment of the main applicant is not or is not sufficiently extended.
3.1.2 Co-applicant(s)

A co-applicant is a participant in the consortium and receives funding via the main applicant. In this call, a co-applicant may participate as a co-applicant in at most two consortia. A consortium may have more than one co-applicant.

The co-applicant should be:
- a professor, associate professor or assistant professor or another researcher with a comparable appointment;
- employed (i.e. hold a salaried position) at one of the institutions stated under Section 3.1.1 and an appointment period for at least the duration of the application procedure and the entire duration of the research the grant is applied for\(^8\). Personnel with a zero-hour appointment is excluded from applying.

Co-applicants must realise the research for which funding is requested in the time that they work for the knowledge institution. If that is not the case, then the co-applicant should provide a waiver from the other employer, so that knowledge ownership for the knowledge institution(s) is safeguarded.

3.1.3 Co-funder(s)

Co-funders are organisations that participate in the consortium and contribute to the project in cash and/or in kind. Co-funders in this call never receive funding from NWO. The co-funders jointly contribute a net minimum amount of 15% of the total budget for the proposal. The KIC draws a distinction between private and public co-funders. For definitions of these and the further specific conditions for co-funding supply in this call, see Section 3.5.2. The role that these parties play in the preparation, realisation, and translation of the research to society should be described in the research proposal.

Organisations from which employees may participate as a main applicant or co-applicant in accordance with the description stated in Section 3.1.1, may not participate as a co-funder in MISSION calls.

3.1.4 Collaborating partner(s)

A collaborating partner is a party that receives no funding and contributes no co-funding to the research proposal, but is closely involved in the realisation of the research and/or knowledge utilisation. Possible examples are companies, public and private organisations and other institutions. The role that these parties play in the preparation, realisation, and translation of the research to society should be described in the research proposal.

3.2 What can be applied for

In this round, funding can be requested for research proposals with a total budget of at least €2,900,000 and at most €3,088,235. NWO will fund a maximum of 85% of the total project budget (= max. €2,625,000); the rest of the funding must be contributed by the compulsory co-funding (see Section 3.5.2).

The budget modules (including the maximum amounts) that are available within this call for proposals are stated in Section 6.2 of this call.

Everything applied for (such as personnel positions, material budget, investments, and the mix between these budgets) must be in proportion to the research. You should only request that which is essential for realising the research.

\(^8\) If the appointment period of the co-applicant is shorter than the intended duration of the research for which funding is requested, then when the proposal is submitted a written statement from the knowledge institution must be provided which guarantees that the tasks of the co-applicant will be taken over for the remaining duration of the research in case the appointment of the co-applicant is not or is not sufficiently extended.
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For this call the following modules can be applied for:

- Personnel costs;
- Material costs;
- Investments;
- Knowledge utilisation;
- Internationalisation;
- Money follows Cooperation;
- Project management.

3.3 When can applications be submitted

The deadline for the submission of preproposals is **January 26, 2021, 14:00:00 CET.**
The deadline for the submission of proposals is **May 25, 2021, 14:00:00 CEST.**

When you submit your application to ISAAC you will also need to enter additional details online. You should therefore start submitting your application at least one day before the deadline of this call for proposals. Applications submitted after the deadline will not be taken into consideration.

3.4 Preparing an application

3.4.1 Preparing the pre-proposal

- Download the pre-proposal form in good time from the online application system ISAAC or from the website of NWO (at the foot of the webpage for the relevant funding instrument).
- Complete the pre-proposal form.
- Save the form as a PDF file and upload it to ISAAC.
- Letters of support are not required in this phase and will not be considered.

*Attachments:*

- Guarantees for continuity in project management (if applicable, see Section 3.1.1 and 3.1.2).

Other types of attachments are not accepted in this phase of submitting pre-proposals.

3.4.2 Preparing the full proposal

- Download the application form in good time from the online application system ISAAC or from the website of NWO (at the foot of the webpage for the relevant funding instrument).
- NB: the application form and the budget from will be available to download from the aforementioned locations before the deadline for pre-proposals, but will only become available at a later moment, after the publication of this call.
- Complete the application form.
- Save the form as a PDF file and upload it to ISAAC.
- Add the compulsory attachments stated below.

*Attachments:*

The following attachments must be provided when the full proposal is submitted:

- letters of support from co-funders (see Sections 3.2 and 3.5.2);
- the budget form;
- confirmation of the contribution to investments (if applicable, see Section 6.2);
- Guarantees for continuity in project management (if applicable, see Section 3.1.1 and 3.1.2).

At the moment of submission, the letters of support appended should pledge the entire required co-funding according to the conditions described in Section 3.5.2.
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The attachment “confirmation of the contribution to investments” is compulsory if funding for investments above 150,000 euros is requested (see also Section 6.2).

Other types of attachments are not accepted in this phase of submitting full proposals. Attachments should be uploaded to ISAAC separately from the proposal. All attachments, with the exception of the budget form, should be uploaded as PDF files. The budget form can be uploaded to ISAAC as an Excel file.

3.5 Conditions on granting

The NWO Grant Rules 2017 and the Agreement on the Payment of Costs for Scientific Research apply to all applications.

3.5.1 Duration

The maximum duration of a project is six years. Proposals with a longer duration than that stated here will not be considered by NWO.

3.5.2 Co-funding conditions

This research programme requires at least 15% of the total budget of the proposal in co-funding at the project level.

This compulsory co-funding may be provided entirely in cash and entirely in kind, and there are no rules for the balance between these two components in a project proposal. The complete in-cash co-funding may be provided by both public and private parties. At least 50% of the total co-funding must be from private sources. The definition of private co-funding: see below under Definition private co-funding. The pledged co-funding is the net amount received by the applicant. If VAT is applicable to pledged co-funding, this is additional to the pledged amount.

Definition private co-funding

The relevant definition of private (co-)funding used is deduced from the definition used by the Netherlands Enterprise Agency (https://www.rvo.nl/subsidies-regelingen/pps-toeslag-onderzoek-en-innovatie/definities/definities-pps-toeslag-onderzoek-en-innovatie) (only available in Dutch). A private contribution is thus defined as an in-cash or in-kind contribution that does not directly or indirectly originate from a research institution or public body. If pledged co-funding does not meet this definition, it cannot be classified as a private contribution.

Invoicing in-cash co-funding

After the proposal has been awarded funding, NWO will invoice the private or public party that has pledged an in-cash contribution. After these funds have been received, NWO will allocate the funding to the project.

The following are permitted as in-kind co-funding:

The use of personnel and material contributions is permitted on the condition that these are capitalised and are fully part of the project. Services and know how may not already exist or be available to the applicant. In-kind contributions are only accepted under the condition that the part contributed by the co-funder is an integral part of the work plan and can be made visible as an identifiable effort.

Determining the value of in-kind co-funding

The use of personnel is valued on the basis of hours x rate, whereby the hourly rate is based on the actual salary costs (incl. a premium for social benefits and employer costs). Furthermore, 1400 hours is taken as the standard number of productive hours per year for the calculation of the hourly rate. This hourly rate may be no more than 119 euros per hour;

For this call, NWO employs relaxed co-funding conditions due to COVID-19 that deviate from the standard conditions applicable in the main line MISSION. The standard conditions are listed at https://www.nwo.nl/en/research-and-results/programmes/nwo/knowledge-and-innovation-covenant/mission-driven-calls-kic-2020-2023.html
The value for material in-kind contributions is determined on the basis of the cost price of consumables. The value of investments/equipment is determined based on standard depreciation costs bearing in mind the intensity of use and any existing depreciations according to applicable reporting principles; For in-kind contributions in the form of services or know-how (knowledge, software, access to databases or cell lines) the economic value must be established and only the actual costs that can be directly attributed to the project may be counted as co-funding. This is always without a profit margin. Furthermore, the service or know how must not already be present at or available to the applicant.

Co-funders should justify the structure and size of the in-kind contributions provided (including hourly rates) in the letter of support. NWO can request substantiation and documented evidence of the rates used and can also request their adjustment.

The following may not be contributed as co-funding (both in cash and in kind):

- funding awarded by NWO;
- PPP allowance;
- co-funding may not come from parties that on the basis of this call for proposals can submit a funding proposal to NWO;
- discounts on commercial rates, e.g. on materials, equipment and services;
- costs related to overheads, supervision, consultancy and/or participation in the user committee (see Section 3.5.3);
- costs of services that are conditional. The co-funding provided may not be subject to any conditions. The provision of the co-funding does not depend on whether a certain stage in the research plan is achieved (e.g. go/no-go moment);
- costs that are not reimbursed according to the call for proposals;
- costs of equipment if one of the (main) objectives of the proposal is the improvement or creation of added value for this equipment.

Accounting for in-kind co-funding

The main applicant reports to NWO about the in-kind co-funding that he or she has received from a co-funder. The main applicant provides accountability in accordance with the NWO Grant Rules 2017 on an annual basis. If a co-funder fails to partly or entirely fulfil its obligations to the main applicant and/or NWO, then this can have consequences for the grant settlement (see Article 3.4.5 of the NWO Grant Rules 2017).

Letters of support from participating co-funders

In a letter of support, the co-funder declares both substantive and financial support for the project and confirms the co-funding pledged. Letters from co-funders involved in the proposal are compulsory attachments for the full proposal. These must be signed by an authorised signatory of the co-funder and printed on the co-funder’s headed stationery. NWO will make a standard template available for the letter of support. Letters of support in which co-funding is pledged are unconditional and may not contain any cancellation clauses.

In the event that the project is awarded funding, the co-funder should confirm its contribution(s) in the project agreement (for example, for invoicing in the case of in-cash contributions). In this agreement, further agreements are also made between the co-funder(s), applicant(s) and NWO (see Section 3.5.4).

3.5.3 Substantive monitoring and programme-supporting activities

NWO will be responsible for the substantive monitoring of proposals that have been awarded funding. To reinforce this and to increase support for implementation of the projects, a user committee will be appointed per project. The main task of the user committee is to advise the project leader about the direction of the project with the aim of maximising the chances of results from the research having an impact/being applied. NWO will fulfil a secretarial role. Further tasks and working methods of the user committee and the role of NWO will be elaborated in the project agreement (see Section 3.5.4). In addition to this, NWO will organise programme meetings. Projects within this call theme will be invited to take part in these.

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Funding awarded by NWO is understood to be funding obtained through a proposal submitted to NWO that is granted funding. In this regard it does not matter from which programme this funding was obtained or who the recipient of the funding is.
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Accountability during the project
Throughout the project, the main applicant will be responsible for the annual substantive and financial reports about the project. With a view to monitoring the progress of the project, NWO can request interim substantive and financial reports.

Completion of the project
When a project is completed, substantive and financial final reports will be requested. After that the size of the grant will be established by NWO.

3.5.4 Intellectual Property and Project Agreement
NWO seeks to ensure that the research results can be applied at the partners involved in the research. Research results – including patentable findings – should therefore be dealt with in a responsible manner. On the one hand, NWO wants to ensure that the research results from research it funds are publicly accessible and, on the other hand, it wants to encourage the further development of the research results by parties by offering these the opportunity to exploit the results. It can therefore be desirable to transfer intellectual property rights or to grant these under a licence to (one of) the private parties involved in the research. The basic premise is that the research results can be published without limitations.

With respect to intellectual property (IP), the KIC follows NWO policy, which offers room for project parties to make tailored agreements, for example dependent on the composition of the consortia and the size of the (financial) contribution. The NWO IP policy can be found in Chapter 4 of the NWO Grant Rules 2017. This policy is aligned with the “Rules for public-private partnership” of the Ministry of Economic Affairs and Climate Policy.

Project parties will conclude the project agreement with each other and with NWO before the start of the research project. In this agreement, arrangements will be made about intellectual property and publication, knowledge transfer, confidentiality, co-funding payments and progress and final reports. The model agreement provided on the NWO webpage for this call should be used for this. This model agreement has been produced in accordance with the NWO Grant Rules 2017. The conclusion of the project agreement is one of the conditions for starting the project. Approval from NWO is required before the project can start; NWO will also sign the agreement.

Parties can choose to use the standard text of NWO in the model agreement, but they can also choose to make their own agreements or apply existing agreements for the sections about IP and publication procedure. The model project agreement allows for this. In this manner, NWO wants to more strongly respond to the wishes of researchers and co-funders who are involved in NWO projects. In both cases, the IP rights are initially awarded to the knowledge institution, whose employee generated the results concerned. Consortia that would prefer to make their own agreements about IP and a publication procedure, must indicate this choice when the full proposal is submitted. Such agreements should be fine-tuned within the consortium and be submitted to NWO within three months after the grant is awarded, so that NWO can test whether this agreement satisfies the European state support rules and is in accordance with the conditions included in this call for proposals and the NWO Grant Rules 2017.

3.5.5 Open Access
As a signatory to the Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities (2003), NWO is committed to making the results of scientific research funded by NWO freely available in open access on the internet. In doing so, NWO is implementing the ambitions of the Dutch government to make all publicly funded research openly available. All scientific publications of research funded on the basis of this call for proposals should therefore be available in open access immediately (at the time of publication). NWO accepts various routes:
- publication in an full open access journal,
- deposit a version of the article in a repository or
- publication in a hybrid journal covered by one of the agreements between the VSNU and publishers. See www.openaccess.nl.

Any costs for publication in full open access journals can be incurred in the project budget. NWO does not reimburse costs for publications in hybrid journals. These conditions apply to all
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forms of scholarly publications arising from grants awarded on the basis of this call for proposals. Also academic monographs, edited volumes, proceedings and book chapters. For more information on the NWO’s open access policy, see: www.nwo.nl/openscience.

3.5.6 Data management
The results of scientific research must be replicable, verifiable and falsifiable. In the digital age this means that, in addition to publications, research data must also be freely accessible. As much as possible, NWO expects that research data resulting from NWO-funded projects will be made publicly available for reuse by other researchers. “As open as possible, as closed as necessary” is the guiding principle in this respect. As a minimum, NWO requires that the data underpinning research papers should be made available at the time of the article’s publication. The costs for doing so are eligible for funding and can be included in the project budget. In the data management section, and in the data management template if the project is awarded funding, researchers explain how they plan to manage the data expected to be generated by the project.

1. Data management section
The data management section is part of the research proposal. Researchers are asked to prospectively consider how they will manage the data the project will generate and plan for which data will be preserved and be made publicly available. Measures will often need to be taken during the production and analysis of the data to make their later storage and dissemination possible. If not all data from the project can be made publicly available, the reasons for not doing so must be explained in the data management section. Due consideration is given to aspects such as privacy, public security, ethical limitations, property rights and commercial interests.

2. Data management plan
After a proposal has been awarded funding, the researcher should elaborate the data management section into a data management plan. In this plan, the researcher describes whether use will be made of existing data, whether new data will be collected or generated, and how the data will be made FAIR: Findable, Accessible, Interoperable, Reusable. The data management plan must be completed in consultation with a data steward or equivalent research data management support staff at the home institution of the project leader. The plan should be submitted to NWO via ISAAC within four months after the proposal has been awarded funding. NWO will approve the plan as quickly as possible. Approval of the data management plan by NWO is a condition for disbursement of the funding. The plan can be adjusted during the research.

Further information on the NWO data management protocol can be found at www.nwo.nl/datamanagement-en.

3.5.7 Nagoya Protocol
The Nagoya Protocol became effective on 12 October 2014 and ensures an honest and reasonable distribution of benefits emerging from the use of genetic resources (Access and Benefit Sharing; ABS). Researchers who make use of genetic sources from the Netherlands or abroad for their research should familiarise themselves with the Nagoya Protocol (www.absfocalpoint.nl). NWO assumes that researchers will take all necessary actions with respect to the Nagoya Protocol.

3.5.8 Ethical aspects
Research proposals that may raise ethical issues need to be considered carefully before the research to be carried out. Certain research projects may require approval from a recognised Medical Research Ethics Committee (MREC) or an Animal Experiments Committee (DEC). In addition, certain research proposals require a licence under the Population Screening Act (WBO). More information on the MRECs is available from the Central Committee on Research Involving Human Subjects (CUCQ). Information on the DECs is available from the Nederlandse Vereniging voor Dierexperimenten commissies (Dutch Association of Animal Experiments Committees) and information on the WBO is available from the Health Council of the Netherlands.

An applicant is responsible for checking whether his/her research proposal may raise ethical issues and, if necessary, for obtaining approval in good time from the appropriate ethics committee and/or obtaining a licence in good time under the WBO.
NWO endorses the Code on Openness in Animal Testing and the Biosecurity code. Applicants should endorse and comply with the existing codes.

If the proposal is accepted, funding will be awarded subject to the condition of obtaining approval from the relevant ethics committee or a licence under the WBO. A research project cannot start until NWO has received a copy of any necessary ethics approval and/or WBO licence. NWO expects candidates to take into account the time schedule of the assessment procedure and the time required for an ethics committee review or to obtain a WBO licence. In the event of complex ethical issues, NWO reserves the right to consult an external advisor.

3.5.9 Scientific integrity

The NWO grant rules specify that all research funded by NWO must be carried out in accordance with nationally and internationally accepted standards of scientific conduct as laid down in the Netherlands Code of Conduct for Research Integrity (2018). By submitting a proposal, applicants undertake to comply with this code. In the event of a (possible) breach of the above-mentioned standards in research funded by NWO, the applicant must inform NWO immediately and submit all relevant documents to NWO. More information about the NWO code of conduct and policy on scientific integrity can be found on the website: https://www.nwo.nl/en/policies/scientific-integrity-policy.

3.6 Submitting an application

An application can only be submitted to NWO via the online application system ISAAC. Applications not submitted via ISAAC will not be taken into consideration.

A principal applicant must submit his/her application via his/her own ISAAC account. If the principal applicant does not have an ISAAC account yet, then this should be created at least one day before the application is submitted to ensure that any registration problems can be resolved on time. If the principal applicant already has an NWO-account, then he/she does not need to create a new account to submit an application.

For technical questions please contact the ISAAC helpdesk, see Section 5.1.2.
4 Assessment procedure

4.1 Procedure

4.1.1 Matchmaking
In the period prior to the deadline for submitting pre-proposals NWO will facilitate (virtual) matchmaking activities for this call. In the KIC 2020-2023, the aim of the matchmaking is to bring together and connect researchers from different scientific disciplines (humanities, natural sciences and social sciences; including universities of applied sciences) and organisations from everyday practice so that interdisciplinary research proposals can be realised.
Further information about the realisation and planning of matchmaking activities will be announced via the website and the NWO newsletters.

When the call is opened, NWO will organise a workshop in which the drawing up of an Impact Plan will be further explained to the consortia that will submit a full proposal. Further information about this meeting will be shared during the selection procedure with all main applicants of pre-proposals.

4.1.2 NWO Code for Dealing with Personal Interests

4.1.3 Admissibility of the proposal
The first step in the assessment procedure is to test whether the pre-proposal is completely and correctly filled in and admissible. This is done using the conditions described in Chapter 3 of this call for proposals.

If NWO detects shortcomings during this test, then it will give the main applicant a one-off opportunity to modify his/her proposal within five working days. Proposals corrected in the right manner and that are received on time, will still be taken into consideration by NWO.

4.1.4 Selection committee
The NWO Executive Board appoints the selection committee. This selection committee is specifically composed of independent experts from scientific disciplines that are relevant to the theme of this call. In addition, non-academic experts can also be part of the selection committee, such as representatives of relevant companies, societal parties and/or other organizations that are not involved in the applications.

4.1.5 Assessment pre-proposal
Submitting a pre-proposal is a compulsory part of the application process. Pre-proposals are assessed by the selection committee using the criteria described in Section 4.2. No referees are consulted in this phase.
During an assessment meeting, the selection committee will reach a non-binding positive or negative advice about the elaboration of each pre-proposal into a full proposal. As this is a non-binding advice, no response phase will take place. Applicants who receive a negative advice in this phase are therefore discouraged from, but not prevented from, submitting a full proposal.

The basic premise for the advice from the selection committee is that no more than thrice the expected number of proposals that can be awarded funding will receive a positive advice.
In the justification for the advice, the selection committee will state its observations with respect to the quality of the pre-proposals and provide recommendations for the elaboration of the full proposal. When giving recommendations, the selection committee will devote explicit attention to aspects such as interdisciplinary collaboration, Human Capital, and knowledge utilisation.

During the formulation of the recommendations, the committee can take into account a balanced allocation of positive recommendations between the two research lines.

### 4.1.6 Assessment full proposal

The full proposal should be an elaboration of the pre-proposal. Submission of a full proposal requires letters of support with respect to the required co-funding and a detailed proposal budget.

#### Referees and the rebuttal

The full proposals will first of all be assessed by at least three external referees per proposal. Referees are independent advisers who are an expert on (a significant part of) the topic(s) of the proposal. The referees will assess the proposal based on the assessment criteria as detailed in Section 4.2. The referees’ reports are sent in an anonymized form to the applicant for a written defence (the rebuttal).

#### Interviews

The members of the selection committee subsequently each provide an assessment of the proposals through a written procedure based on the assessment criteria with due consideration to the referees’ reports and the rebuttal. They give a provisional assessment and itemise which aspects they think should be clarified, explained or described in more detail during the interview.

In principle, all consortia that have submitted a full proposal will be invited for an interview with the selection committee. If the number of full proposals is more than three times the expected number of proposals that can be awarded funding, then the selection committee can decide just to invite a selection of the consortia for an interview.

In that case the selection committee will make a provisional ranking based on its written assessment, with due consideration to the referees’ reports and the rebuttal, and discuss this during a meeting. Subsequently the consortia with the highest ranking will receive an invitation for the interview; this will be about twice the number of proposals that are expected to be awarded funding.

During the interview, the committee will question the consortium about the application dossier based on the proposal, the referees’ reports and the written rebuttal. During this process, the committee can pose new and additional questions to the consortium on parts of the proposal to which the consortium can then respond. Eventually, the committee reaches its own independent deliberation about the quality of each proposal based on the criteria stated in Section 4.2. In this deliberation, the committee considers its judgement of the proposal, the referees’ reports, the rebuttal, and the interview. Unlike the referees, the committee has knowledge of the quality of the other proposals submitted. The outcome of this deliberation results in the final assessment of the committee about each full proposal.

#### Ranking within the research lines

The proposals that receive the highest ranking per research line from the selection committee will be put forward to the NWO Executive Board for awarding as long as these are eligible for funding (see Section 4.2.2) and the budget for the research line concerned has not been exhausted.

#### Decision-making

The selection committee submits its recommendation regarding granting or rejection to the NWO Executive Board for the final granting decision. The Executive Board determines the final assessment of the proposals, based on the committee’s recommendation. Based on this proposal, the Executive Board takes a decision about granting or rejecting the full proposals.
Data management
The data management section in the application is not evaluated and therefore not included in the decision about whether to award funding. However, both the referees and the committee can issue advice with respect to the data management section. After a proposal has been awarded funding, the researcher should elaborate the data management section into a data management plan. Applicants can use the advice from the referees and the committee when writing the data management plan. A project awarded funding can only start after NWO has approved the consortium agreement.

Qualification
NWO gives all full proposals a qualification. This qualification is made known to the applicant with the granting decision. To be eligible for funding, a proposal should at least receive the qualification very good and also satisfy the threshold value for the four assessment criteria (see Section 4.2.2).

Indicative timeline

<table>
<thead>
<tr>
<th>Januari 26 2021</th>
<th>Submission deadline pre-proposals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning of March 2021</td>
<td>Assessment pre-proposals by committee</td>
</tr>
<tr>
<td>End of March 2021</td>
<td>Advice on whether to submit a full proposal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Full proposals</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 25 2021</td>
</tr>
<tr>
<td>June/July 2021</td>
</tr>
<tr>
<td>End of July 2021</td>
</tr>
<tr>
<td>End of August 2021</td>
</tr>
<tr>
<td>October 2021</td>
</tr>
</tbody>
</table>

4.2 Criteria

In this call, both pre-proposals and full proposals are assessed according to the following four assessment criteria, for which the sub-criteria are described in Section 4.2.1.

1. Problem posed and problem analysis, contribution to solution
2. Expected impact and route to impact
3. Quality of the consortium
4. Quality of the research

Criteria 1 and 2 each carry a 25% weighting in the overall assessment, criterion 3, a weighting of 30% and criterion 4, a weighting of 20%.

4.2.1 Sub-criteria

Within the four main criteria, the following sub-criteria are distinguished:

1. Problem posed and problem analysis, contribution to solution
   - The problem posed from a scientific and societal perspective
   - Formulation and focus of the innovation question
   - Articulation of knowledge questions and objectives in collaboration with partner(s)
   - Contribution of the research to solving the innovation question posed
   - Contribution of the research to solving the societal challenge as described in the theme of the call

2. Expected impact and route to impact
   - Connecting strategy for involving the relevant stakeholders and involvement of end users
   - Perspective on societal impact
   - Perspective on economic impact
3. Quality of the consortium
   - Track record of all parties involved; scientific, and/or with respect to knowledge utilisation and application of results
   - (Inter)disciplinary composition of the research team
   - Relevance of the consortium partner(s) in the collaboration
     ▪ Presence of necessary partners
     ▪ Contribution of the partner(s) to solving the problem
     ▪ Contribution of the partner(s) to the development and realisation of the project
     ▪ Rationale behind and motivation for financial commitment (cash and in-kind) of partner(s)\textsuperscript{11}
   - Synergy, complementarity and added value of the collaboration
     ▪ Chain-wide collaboration and/or collaboration in the region
     ▪ New collaborations and network formation
     ▪ Deployment and use of Human Capital
     ▪ Diversity of consortium members and private, public and civil society partners involved
     ▪ Availability of infrastructure
     ▪ Proposed organisational structure, allocation of roles and project governance

4. Quality of the research
   - Scientific and methodological quality
   - Urgency of the proposed research
   - Innovative aspects of the proposed research plan
   - Interdisciplinary aspects of the proposed research plan\textsuperscript{12}
   - Active involvement of the partners in drawing up and realising the research plan
   - Feasibility and suitability of the proposed research plan; scientific, operational and financial choices in the project design

4.2.2 Scores and threshold values
In both phases of the assessment, the selection committee will use a scoring scale of 1.0 to 9.0, for which 1.0 is the maximum score.

Only full proposals with a total score of 3.4 or better (i.e. qualification of ‘very good’ or better) are eligible for funding. Furthermore, for all main criteria (i.e. criteria 1, 2, 3 and 4) the minimum score of 4.0 is required to be eligible for funding.

<table>
<thead>
<tr>
<th>Score range</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 - 1.4</td>
<td>Excellent</td>
</tr>
<tr>
<td>1.5 - 3.4</td>
<td>Very good</td>
</tr>
<tr>
<td>3.5 - 5.4</td>
<td>Good</td>
</tr>
<tr>
<td>5.5 - 9.0</td>
<td>Unsatisfactory</td>
</tr>
</tbody>
</table>

4.2.3 Facilitating interdisciplinary research
In the selection procedure, attention will be paid to the interdisciplinarity of the research proposal submitted within the assessment criteria as described in Section 4.2.1.

Furthermore, for the pre-proposals, the selection committee will pay attention to the composition of the consortium and, where applicable, make recommendations with respect to this point that can be included by the applicants in the further elaboration of the research proposal into a full proposal.

\textsuperscript{11} This sub-criterion is not yet applicable in the pre-proposal phase

\textsuperscript{12} For the basic premises for interdisciplinary collaboration, please see Section 2.2
5 Contact details and other information

5.1 Contact

5.1.1 Specific questions
For specific questions about Living with Dementia and this call for proposals please contact:
Inge Valstar, kic-dementia@nwo.nl, +31 (0)70 349 52 86

5.1.2 Technical questions about the electronic application system ISAAC
For technical questions about the use of ISAAC please contact the ISAAC helpdesk. Please read the manual first before consulting the helpdesk. The ISAAC helpdesk can be contacted from Monday to Friday between 10:00 and 17:00 hours CE(S)T on +31 (0)20 346 71 79. However, you can also submit your question by e-mail to isaac.helpdesk@nwo.nl. You will then receive an answer within two working days.
6 Annexe(s):

6.1 Research Tariffs Manual (HOT) rates

The table below shows the rates described in the Research Tariffs Manual (HOT) from 2017, which apply in this call. For the entire table please see: https://www.nwo.nl/documents/nwa/nwa-orc-handleiding-overheidstarieven (only available in Dutch).

<table>
<thead>
<tr>
<th>Rates per position</th>
<th>Scale</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>-</td>
<td>25 euros</td>
</tr>
<tr>
<td>Supporting NSP, vocational education</td>
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<td>59 euros</td>
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<td>Supporting NSP, higher vocational education</td>
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<td>72 euros</td>
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<td>Junior researcher</td>
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<td>72 euros</td>
</tr>
<tr>
<td>School teachers</td>
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<td>72 euros</td>
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<td>Supporting NSP, academic</td>
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<td>Intermediate level</td>
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<td>researcher*</td>
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<tr>
<td>Intermediate level</td>
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<td>87 euros</td>
</tr>
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<td>researcher*</td>
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<td>87 euros</td>
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<tr>
<td>Physician-researcher</td>
<td>12</td>
<td>87 euros</td>
</tr>
<tr>
<td>Lecturer-researcher</td>
<td>12</td>
<td>87 euros</td>
</tr>
<tr>
<td>Senior researcher</td>
<td>13</td>
<td>95 euros</td>
</tr>
<tr>
<td>Management/lector</td>
<td>16</td>
<td>119 euros</td>
</tr>
</tbody>
</table>

* The first intermediate-level researcher scale 11 stands for PhD student level and the second, scale 12, for postdoc level.

The above maximum rates are based on the cost-covering rate (kostendekkend) including the applicable increments. The hourly rate is calculated on the basis of the standard productive number of hours used by the organisation. The chosen cost-covering rate must be substantiated and includes:
- (average) gross salary for the post of the employee who will contribute to the project;
- holiday allowance and 13th month (if applicable in the relevant collective labour agreement) in proportion to the use in fte;
- social security contributions;
- pension costs.

6.2 Budget modules

The budget modules (including the maximum amounts) that are available within this call for proposals are described in the table below.

Everything applied for (such as personnel positions, material budget, investments, and the mix between these budgets) must be in proportion to the research. You should only request that which is essential for realising the research.

<table>
<thead>
<tr>
<th>Budget module</th>
<th>Maximum amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td>no limit on number of positions, according to VSNU or NFU rates(^{13})</td>
</tr>
<tr>
<td>Professional Doctorate in engineering</td>
<td>no limit on number of positions in combination with PhDs and/or postdoc(s), according to VSNU or NFU rates(^{14})</td>
</tr>
</tbody>
</table>

\(^{13}\) For personnel outside the Netherlands, the local rates are reimbursed up to a maximum of the VSNU rates.

\(^{14}\) For personnel outside the Netherlands, the local rates are reimbursed up to a maximum of the VSNU rates.
<table>
<thead>
<tr>
<th>Personnel Category</th>
<th>Salary Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Postdoc</td>
<td>No limit on number of positions, according to VSNU or NFU rates¹⁴</td>
</tr>
<tr>
<td>Non-scientific staff at (NSS) universities</td>
<td>€100,000 per PhD and/or postdoc, according to VSNU or NFU rates¹⁴, in combination with PhDs and/or postdoc(s), up to a maximum of 300,000 euros per proposal.</td>
</tr>
<tr>
<td>Other scientific staff (OSS) at universities</td>
<td>€100,000, in combination with PhDs and/or postdoc(s)</td>
</tr>
<tr>
<td>Research leave</td>
<td>5 months, 1 fte, according to VSNU or NFU rates¹⁴</td>
</tr>
<tr>
<td>Personnel universities of applied sciences and other institutions</td>
<td>No limit on number of positions, rates based on Handleiding Overheidstarieven 2017 (HOT)</td>
</tr>
<tr>
<td>Material costs</td>
<td>€15,000 per year per scientific position</td>
</tr>
<tr>
<td>Investments (up to €150,000)</td>
<td>Maximum of €150,000</td>
</tr>
<tr>
<td>Investments (€150,000 to €500,000)</td>
<td>Greater than or equal to €150,000 (for data collections, a minimum of €25,000 applies) and less than or equal to €500,000 with 25% contribution by the research institution applying.</td>
</tr>
<tr>
<td>Knowledge utilisation</td>
<td>Minimum 5% to maximum 20% of the total project budget</td>
</tr>
<tr>
<td>Internationalisation</td>
<td>€25,000</td>
</tr>
<tr>
<td>Money follows Cooperation</td>
<td>Less than 50% of the total budget requested from NWO</td>
</tr>
<tr>
<td>Project management</td>
<td>Maximum 5% of the total budget requested from NWO</td>
</tr>
</tbody>
</table>

**Explanation of budget modules for personnel**

Funding for the salary costs of personnel who make a substantial contribution to the research can be applied for. Funding of these salary costs depends on the type of appointment and the organisation where the personnel are or will be appointed.

- For university appointments, the salary costs are funded in accordance with the VSNU salary tables applicable at the moment the grant is awarded (https://www.nwo.nl/en/funding/funding-process-explained/salary+tables).
- For university medical centres, the salary costs are funded in accordance with the NFU salary tables applicable at the moment the grant is awarded (https://www.nwo.nl/en/funding/funding-process-explained/salary+tables).
- For personnel from universities of applied sciences and other institutions, the salary costs are funded on the basis of the collective labour agreement salary scale of the employee concerned, based on the Handleiding Overheidstarieven 2017. (https://www.nwo.nl/documents/nwa/nwa-orc---handleiding-overheidstarieven, only available in Dutch) and Section 6.1
- For the Caribbean Netherlands, the Dutch government employs civil servants on Bonaire, Sint Eustatius and Saba under different conditions than in the European part of the Netherlands. (https://www.rijksdienstcn.com/werken-bij-rijksdienst-caribisch-nederland/arbeidsvoorwaarden, only available in Dutch)

The rates for all budget modules are incorporated in the budget format that accompanies the application form. For the budget modules “PhD”, “PDEng” and “Postdoc”, a one-off individual bench fee of €5,000 is added on top of the salary costs. This bench fee is intended to encourage the scientific career of the project employee funded by NWO. Remunerations for PhD students/PhD scholarship students at a Dutch university are not eligible for funding from NWO.

The available budget modules are explained below.
PhD (including MD-PhD)

A PhD is appointed for 1.0 fte for a duration of 48 months. The equivalent of 48 full-time months, for example an appointment of 60 months for 0.8 fte is also possible. If a different duration of appointment is considered necessary for the realisation of the proposed research, then as long as this is properly justified, the standard time can be deviated from. However, the duration of appointment must always be at least 48 months.

In line with the NWO strategy, this category is also understood to include Industrial and Societal Doctorates. The conditions for this are described in Section 6.3.

Professional Doctorate in Engineering (PDEng)

Funding for the appointment of a PDEng can only be applied for if funding for a PhD or postdoc is also applied for. The appointment for a PDEng position is a maximum of 1.0 fte for 24 months. The PDEng trainee is employed by the institution applying for funding and can realise activities within the research at an industrial partner for a specified time. If the research proposal is awarded funding, then an agreement must be concluded with the industrial partner(s) concerned. The underlying “Technological Designer Programme” should be described in the funding proposal.

Postdoc

The size of the appointment of a postdoc is at least 6 full-time months and at most 48 full-time months. The size and duration of the appointment is at the applicant’s discretion, but the appointment is always for at least 0.5 fte or for a duration of at least 12 months. The product of fte x duration of appointment should always be a minimum of 6 full-time months.

The material budget is available to cover the costs of a more limited appointment of a postdoc.

Non-scientific staff (NSS) at universities

Funding for the appointment of non-scientific personnel necessary for the realisation of the research project can only be applied for if funding for a PhD or postdoc is also applied for. A maximum of € 100,000 per PhD or postdoc applied for can be requested for NSS, up to a maximum of € 300,000 per proposal. This includes personnel such as student assistants, programmers, technical assistants or analysts. Depending on the level of the position, the appropriate salary table for non-scientific staff at MBO, HBO or university level applies.

The size of the appointment is at least 6 full-time months and at most 48 full-time months. The size and duration of the appointment is at the applicant’s discretion, but the appointment is always for at least 0.5 fte or for a duration of at least 12 months. The product of fte x duration of appointment should always be a minimum of 6 full-time months.

The material budget is available to cover the costs of a more limited appointment of non-scientific personnel.

Other scientific personnel (OSS) at universities

Budget for other scientific personnel such as AIOS (doctor training to be a specialist), ANIOS (doctor not training to be a specialist), scientific programmers or employees with a master’s degree can only be applied for if funding for a PhD or postdoc is also applied for. For this category, per PhD or postdoc applied for, a maximum of € 100,000 can be applied for. The size of the appointment is at least 6 full-time months and most 48 full-time months. The size and duration of the appointment is at the applicant’s discretion, but the appointment is always for at least 0.5 fte or for a duration of at least 12 months. The product of fte x duration of appointment should always be a minimum of 6 full-time months.

Research leave for applicants

With this budget module, funding can be requested for the research leave costs of the main and/or co-applicant(s). The employer of the applicant concerned can use this to cover the costs of relinquishing him or her from educational, supervisory, administrative or management tasks (not research tasks). The time that is released through the research leave grant can only be used by the applicant(s) for activities in the context of the project. The proposal must describe which activities in the context of the project the applicant(s) will carry out in the time relinquished.

The maximum amount of research leave that can be applied for is the equivalent of five full-time months. NWO funds the research leave in accordance with the salary tables for a senior scientific employee (scale 11) at the time the grant is awarded (https://www.nwo.nl/en/funding/funding+process+explained/salary+tables).
Personnel universities of applied sciences and other institutions

For the funding of salary costs of personnel employed at a university of applied sciences, the following maximum rates (hourly/daily) are used, in accordance with the Research Tariffs Manual (HOT) 2017. For this, the HOT table is used on a cost-covering basis (kostendekkend). For rates for universities of applied sciences positions please see Section 6.1.

Explanation of budget module Material

For each fte scientific position (PhD, postdoc, PDEng) applied for, a maximum of € 15,000 material budget can be applied for per year of the appointment. Material budget for smaller appointments can be applied for on a proportionate basis and will be made available by NWO accordingly. The applicant is responsible for distributing the total amount of material budget across the NWO-funded personnel positions. The material budget that can be applied for is specified according to the three categories below:

**Project-related goods/services**
- consumables (glassware, chemicals, cryogenic fluids, etc.)
- measurement and calculation time (e.g. access to supercomputer, etc.)
- costs for acquiring or using data collections (e.g. from Statistics Netherlands), for which the total amount may not be more than € 25,000 per proposal
- access to large national and international facilities (e.g. cleanroom, synchrotron, etc.)
- work by third parties (e.g. laboratory analyses, data collection, Citizen Science initiatives, etc.)
- personnel costs for the appointment of a post-doc and/or non-scientific personnel for a smaller appointment size than those offered in the personnel budget modules

**Travel and accommodation costs for the personal positions applied for**
- travel and accommodation costs
- conference attendance (maximum of two per year per scientific position applied for)
- fieldwork
- work visit

**Implementation costs**
- national symposium/conference/workshop organised within the research project
- costs for Open Access publishing (solely in full gold Open Access journals, registered in the “Directory of Open Access Journals” https://doaj.org/)
- data management costs
- costs involved in applying for licences (e.g. for animal experiments)
- audit costs (only for institutions that are not subject to the education accountants protocol of the Ministry of Education, Culture and Science), maximum € 5,000 per proposal; for projects with a duration of three years or less, a maximum of € 2,500 per proposal applies.

Costs that cannot be applied for are:
- basic facilities within the institution (e.g. laptops, desks, etc.);
- maintenance and insurance costs.

If the maximum amount of € 15,000 per year per full-time scientific position is not sufficient for realising the research, then it may be deviated from if a clear justification is provided in the proposal.

Explanation of budget module Investments (up to € 150,000)

In this budget module, funding can be requested up to a maximum of € 150,000 for investments in equipment, datasets and/or software (e.g. lasers, specialised computers or computer programs).

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15 Per 0.2 fte scientific employee at a university of applied sciences (junior, medior and senior level, with a minimum appointment of 0.2 fte for a period of 12 months), a maximum of € 15,000 material budget can be applied for each year of the appointment.

16 Citizen Science means involving citizens in research projects. Citizens can assist researchers during data acquisition (e.g. during the annual bird count), by making computer capacity available (e.g. for simulating molecular interactions such as protein configurations and computational drug design), or when formulating research questions and research projects.
**Explanation of budget module Investments (€ 150,000 to € 500,000)**

In this budget module, funding can be requested for investments in scientifically innovative equipment and/or data collections of national and international importance. The minimum amount that can be applied for is € 150,000.

NWO funds a maximum of 75% of the total investment costs, up to a maximum of € 500,000. The applying institution must contribute at least 25% of the total costs of the investment. This contribution to the investment should be confirmed in writing by the applying institution when the proposal is submitted. The costs for investments should be adequately specified and motivated in the proposal.

Funding can be requested for:
- costs for investment in scientific equipment;
- costs for investment in datasets;
- personnel costs for the setting up of databases and the initial digitisation of the bibliographical equipment, if these cannot be purchased;
- personnel costs for employees with specific, essential technical expertise needed in order to build or develop an investment.

If funding for personnel costs is applied for, then the need for these personnel costs should be justified. If the applicant does not have this expertise available, then it should be stated that this expertise needs to be procured with these costs. The internal procurement procedures and/or guidelines of the applicant apply.

Funding cannot be requested for:
- costs of infrastructure facilities that can be regarded as part of the usual infrastructure;
- data collections and any associated software and bibliographies that are already available in other ways;
- other personnel costs, including personnel costs required to operate and conduct research with the facility;
- maintenance and use of equipment. The costs for researchers using equipment for a project can be covered via the material budget.

**Explanation of budget module Knowledge utilisation**

The aim of this budget module is to facilitate the utilisation of knowledge emerging from the research\(^\text{17}\). At least 5% and at most 20% of the total project budget should be used for knowledge utilisation activities via this budget module.

Knowledge utilisation assumes very different forms in the various science domains. Examples are producing a teaching package, a feasibility study into application possibilities, costs for the submission of a patent application, or a business developer.

In the proposal, the applicant should specify which costs are needed.

In the context of the Impact Plan Approach applicants can use this module to cover costs for the following activities:
- Specific activities to facilitate knowledge utilisation towards (intermediary) parties that are not funded in the project, such as knowledge platforms. These activities cover, amongst other things, joint learning activities, training courses and communication activities.
- **Involving interested parties (stakeholders)**: activities organised by the consortium aimed at involving stakeholders, such as consultation workshops, expert meetings, roundtable meetings, etcetera.
- **Communication:** activities organised by the consortium such as (international) learning events, development of videos, blogs, newsletters and other types of media. The hiring of communication expertise can also be included here.
- **Development of skills:** activities aimed at the development of skills that go further than the levels of the individual student, PhDs or postdocs, such as the development of courses for stakeholders or master students.
- **Monitoring and evaluation moments:** in which knowledge utilisation is a subject of discussion: such as interim evaluations and the meetings of the user committee (see also Section 3.5.2).

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\(^{17}\) In this budget module, the applicable definition for “knowledge transfer” is that used by the European Commission in the Communication from the Commission Framework for State aid for research and development and innovation (PbEU 2014, C 198).

\(^{18}\) A stakeholder is each person or group that can influence the goals being achieved or can be influenced as a result of these.
Travel costs for consortium partners are explicitly not fundable in this module, but the travel costs of collaborating partners and external parties from everyday practice can be funded from this module. The budget requested should be satisfactorily specified in the proposal.

If the knowledge utilisation activities are realised by a party outside of the consortium, then during the tendering procedure for the selection of such a party due consideration should be given to the procurement rules of the government and, when necessary, a European tendering procedure should be followed.

**Explanation of budget module Internationalisation**

The budget for internationalisation is intended to encourage international collaboration. The budget applied for may not exceed € 25,000. The amount requested must be specified. If the maximum amount is not sufficient for realising the research, then it may be deviated from if a clear justification is provided in the proposal.

Funding can be requested for:
- travel and accommodation costs in so far as these concern direct research costs emerging from the international collaboration and additional costs for internationalisation that cannot be covered in another manner, for example from the bench fee;
- travel and accommodation costs for foreign guest researchers;
- costs for organising international workshops/symposia/scientific meetings.

**Explanation of the budget module Money follows Cooperation (MfC)**

The module Money follows Cooperation provides the possibility of realising a part of the project at a publicly funded knowledge institution outside of the Netherlands.

The applicant must convincingly argue how the researcher from the foreign knowledge institution will contribute specific expertise to the research project that is not available in the Netherlands at the level necessary for the project.

This condition does not apply if NWO has concluded a bilateral agreement concerning Money follows Cooperation with the national research council of the country where the foreign knowledge institution is located. On this NWO webpage you can read which research funders NWO has concluded such an agreement with.

The budget applied for within this module cannot be more than 50% of the total budget requested from NWO. The co-applicant from the participating foreign knowledge institute should meet the requirements for co-applicants set out in Section 3.1 of this call for proposals, except for the condition that the co-applicant must be employed in the Kingdom of the Netherlands.

The rates for the personnel costs of researchers working at the foreign knowledge institute are calculated using the correction coefficients table of the Marie Skłodowska-Curie grants (EU, Horizon 2020), with the Dutch VSNU rates being the starting point. The table can be found on this NWO webpage.

The main applicant receives the grant and is responsible for transferring the amount to the foreign knowledge institution and for providing accountability for the MfC part of the grant. The MfC part will be accounted for as part of the overall final financial report for the project.

The exchange rate risk lies with the applicant. Therefore, gains or losses due to the exchange rate are not eligible for funding.

The applicant is responsible for:
- The financial accountability for all costs in both euros and the local currency, for which the exchange rate used must be visible;
- a reasonable determination of the size of the exchange rate. If requested by NWO, the applicant must always be able to provide a description of this reasonable determination.

If more than 125,000 euros is requested within this module, the final financial report must be accompanied by an audit statement.

NWO will not issue any funding to co-applicants in countries that fall under national or international sanction legislation and rules. The EU Sanctions Map (www.sanctionsmap.eu) is guiding in this respect.
Explanation of the budget module Project management

The module project management provides a possibility to request a budget for project management that is at most 5% of the total budget requested from NWO. This budget can only be used for activities that solely support the project for which the grant is requested. The applicant must satisfactorily justify this budget.

Amongst other things, project management is understood to mean the optimal shaping of the organisation structure of the consortium, support of the consortium and the main applicant, monitoring coherency, progress and unity of the project, and alignment between the sub-projects within the project. This task may also be realised by external parties insofar as the expertise is not available at the knowledge institution of the main and/or co-applicant(s). During the tendering procedure for the selection of a third party, knowledge institutions should take into account the procurement rules of the government and, where necessary, follow a European tendering procedure. The activities of the main applicant and co-applicants in the context of the project (management) may not be funded from this budget module.

The budget to be requested for project management can consist of material costs, realisation costs and personnel costs. For personnel costs a maximum rate of 119 euros per hour may be used (for the rates, please see Annex 6.1). The hourly rate of personnel to be appointed is based on the cost-covering rate (kostendekkend) and is calculated in accordance with the standard productive number of hours used by the organisation. The cost-covering rate includes:
- (average) gross salary for the post of the employee who will contribute to the project (based on the collective labour agreement scale of the employee concerned);
- holiday allowance and 13th month (if applicable in the relevant collective labour agreement) in proportion to the use in fte;
- social security contributions;
- pension costs;
- overheads.

Third parties may realise tasks in the context of project management, but the part of the (commercial) hourly rates that exceeds the hourly rates stated above is not fundable and can therefore not be included in the budget.

6.3 Industrial and Societal Doctorates

Industrial and Societal doctorates are understood to be PhD students who will do their research at both the knowledge institution and an organisation that is not a (co-)applicant. If an organisation and the knowledge institution closely collaborate, then this increases the chance that the knowledge will actually find its way into everyday practice. The research should be an integral part of the project. In the case that an Industrial or Societal Doctorate is appointed, the private or public organisation which is involved in the doctorate should assume responsibility for at least 25% of the salary costs. This contribution may be part of the minimum required co-funding and in that case should always be in cash.

The intended PhD student may be employed by the knowledge institution or the organisation. The activities realised by the PhD student must always fall under fundamental or industrial research. The salary costs of the PhD student are always remunerated in accordance with the valid VSNU rate. NWO will fund a maximum of 75% of this amount and at least 25% of the amount must be contributed by the organisation that is not a (co-)applicant. Any additional salary costs – due to an actual salary that is above the VSNU rate – should be covered by the employer and may be contributed to the project in the form of in-kind funding. For the calculation of a surplus, the employer costs minus the VSNU rates for an appointment of the same size is assumed. The support/grant may not be transferred to the organisation that is not a (co-)applicant.

If an industrial doctorate or societal doctorate PhD position is applied for, then the parties should make agreements about possible IP rights that are generated by the PhD student concerned. With this, allowance should be made for possible access to the research results by other project participants, under FRAND (fair, reasonable and non-discriminatory) conditions or otherwise.

The NWO grant is only awarded to the knowledge institution for the purpose of the PhD research project. In this context, it is relevant to state that in accordance with the application of the NWO Grant Rules 2017, all research results should be published as soon as possible in Open Access form and accordingly serve the public interest. Furthermore, all other provisions from Section 3.5, such as those stated in Section 3.5.4 (Intellectual Property & Project agreement) apply.