

REQUEST FOR PROPOSALS

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Grand Challenges Canada™
Grands Défis Canada^{MC}

BOLD IDEAS FOR HUMANITY.™

Global Mental Health

Integrated Innovations to Improve Treatments
and Expand Access to Care - Round 2

November 2012

Executive Summary

Mental disorders are prevalent in all regions of the world, in every community and across every income level. An estimated 13% of the global burden of disease is attributable to mental disorders, with almost three quarters of this burden affecting people in low- and middle-income countries. Mental disorders make the largest contribution to the overall global burden of non-communicable disease, and are themselves risk factors for both communicable and non-communicable diseases, as well as disability.

In an effort to address the enormous burden of mental disorders, Grand Challenges Canada, through its relationship with the Sandra Rotman Centre, participated in the Grand Challenges in Global Mental Health initiative, which systematically identified key priorities in global mental health with the aim to mobilize resources and communities of researchers. The initiative was implemented with leadership from the Sandra Rotman Centre, the U.S. National Institute of Mental Health, the London School of Hygiene & Tropical Medicine, among others. The outcomes of this priority-setting exercise were published in *Nature* on July 7, 2011.

Grand Challenges Canada is seeking to address the grand challenges identified from this priority-setting exercise under the overall goal to **improve treatments and expand access to care**. Our focus is on low- and lower-middle-income countries and Canadian International Development Agency (CIDA) 'Countries of Focus'. Specifically, proposals must provide innovative solutions to one (or more) of the following identified challenges in low-resource settings:

- Integrate screening and core packages of services into routine primary health care
- Reduce the cost and improve the supply of effective medications
- Provide effective and affordable community-based care and rehabilitation
- Improve children's access to evidence-based care by trained health providers
- Develop effective treatments for use by non-specialists, including lay health workers with minimal training
- Incorporate functional impairment and disability into assessment
- Develop mobile and IT technologies (such as telemedicine) to increase access to evidence-based care.

Grand Challenges Canada is looking for solutions that demonstrate a clear path to scale and sustainability, have measurable outcomes of increased access to care and improved treatment, and can ultimately serve as models that can be replicated or scaled in other low-resource settings, or have lessons for other settings. Grand Challenges

Canada does not fund capacity-building initiatives alone. We are seeking evidence-based, affordable treatments or innovative service delivery models that can be scaled in a sustainable manner.

Applicants are expected to take an Integrated Innovation™ approach, defined as the coordinated application of scientific/technological, social and business innovation to develop solutions to complex challenges. This approach does not discount the singular benefits of each of these types of innovation alone, but rather highlights the powerful synergies that can be realized by aligning all three. Integrated Innovation recognizes that scientific/technological innovations have a greater chance of going to scale, and achieving global impact and sustainability, if they are developed from the outset with appropriate social and business innovations. An Integrated Innovation approach considers variations in health systems, local cultures, traditions and beliefs, along with the stigma and discrimination faced by patients and families in seeking treatment and care.

Through this Request for Proposals, Grand Challenges Canada has committed up to \$10 million CAD for this initiative. We expect to fund proposals from eligible applicants, including those based in low- and lower-middle-income countries, CIDA 'Countries of Focus' and Canada, working in low-resource settings through two funding streams:

1. **Seed grants** to support the development and validation of ideas to improve treatments and expand access to care, offering up to \$250,000 CAD each over a maximum of two (2) years. Proposals are expected to demonstrate proof of concept of the innovative idea.
2. **Transition-to-scale grants** to support the refinement, testing and implementation of innovative solutions that have already achieved proof of concept to bring them toward scale, offering up to \$2 million CAD each over a maximum of three (3) years.

The value of the award is expected to vary depending on project need.

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1. Introduction

1.1 GRAND CHALLENGES CANADA

Grand Challenges Canada is dedicated to supporting **bold ideas with big impact** in global health. We are funded by the Government of Canada; we fund innovators in low- and middle-income countries and Canada. The bold ideas integrate science and technology, social and business innovation (we call this Integrated Innovation) and we work to catalyze scale, sustainability and impact. We have a determined focus on results, and saving and improving lives.

“Canada has supported development innovation, pioneering new approaches to maximize impact and leverage private sector capital to address global development challenges. Canada’s strategic investments over the past several years are showing promising results...progress by Grand Challenges Canada in tackling critical barriers to solving some of the most pressing global health challenges”

Budget 2012, Fostering Sustainable Global Growth

Through the 2008 **Development Innovation Fund**, Canada was the first country to adopt a Grand Challenges approach to solving global health challenges in its official development assistance envelope. Grand Challenges Canada is the primary delivery vehicle for this fund, working alongside its consortium partners, the Canadian Institutes of Health Research and the International Development Research Centre.

Grand Challenges Canada is a significant new undertaking in Canadian foreign aid. Our vision is: **Bold Ideas. Big Impact. A Better World.** Our mission is: **Saving and improving lives in low- and lower-middle-income countries through Integrated Innovation.** Our primary priority is: **Solving Critical Global Health Challenges.**

At the core of our operating philosophy is **Integrated Innovation™**, which is the coordinated application of scientific/technological, social and business innovation to develop solutions to complex challenges, and to identify and overcome barriers in order to sustainably bring these solutions to scale. (Please see www.grandchallenges.ca/integrated-innovation.)

1.2 BACKGROUND

The Problem

Mental health is critical to overall health — according to the WHO, there “can be no health without mental health.” We define ‘mental disorders’ as including all mental, neurological and substance use disorders, such as depression, anxiety disorders, schizophrenia, bipolar disorders, alcohol and drug use disorders, emotional and behavioural disorders of childhood and adolescence, dementias, migraines and epilepsy.¹ Mental disorders contribute to 13% of the global burden of disease; almost

¹ Defined by the Grand Challenges in Global Mental Health initiative and based on global burden of disease.

three quarters of this burden occurs in low- and middle-income countries.² Mental disorders make the largest contribution to the overall burden of non-communicable diseases, surpassing both cardiovascular disease and cancer.³ Furthermore, mental disorders are risk factors for both communicable (e.g., HIV/AIDS, malaria, tuberculosis) and non-communicable diseases (e.g., cardiovascular disease and cancer), and are a leading cause of disability globally.⁴

In an effort to address the enormous burden of mental disorders, Grand Challenges Canada, through its relationship with the Sandra Rotman Centre, participated in the Grand Challenges in Global Mental Health initiative, which systematically identified key research priorities in global mental health with the aim to mobilize resources and communities of researchers. The initiative was implemented with leadership from the Sandra Rotman Centre, the U.S. National Institute of Mental Health, the London School of Hygiene & Tropical Medicine, and others.

Over 400 international experts and thought leaders from across mental health disciplines and professions were involved in identifying key priorities and specific grand challenges in global mental health. Grand challenges were defined as specific barriers that need to be overcome to make a large and sustained difference in the disease burden. The initiative was global in scope and covered a range of mental disorders. The outcomes of this priority-setting exercise were published in *Nature*.⁵ The priority-setting exercise yielded 40 grand challenges that are diverse and span discovery science, preclinical science, etiology, treatment, implementation and policy research. The top 25 grand challenges in global mental health were categorized into six key overarching priorities that serve as a platform for the coordination of resources among innovators and funders.

The focus of this Request for Proposals is on the priority to improve treatments and expand access to care. This is the second call for proposals issued under the Grand Challenges Canada Global Mental Health program. The first call was launched on July 21, 2011, which resulted in 97 submissions from the global community. Through a competitive process, 32 finalists were invited to attend a Proposal Development Workshop. On October 10, 2012, Grand Challenges Canada announced \$19.4 million CAD in support of 15 proposals with the most promising bold ideas with big impact. To

² Mental Health Gap Action Programme: Scaling up care for mental, neurological, substance use disorders. World Health Organization, 2008.

³ The Global Burden of Disease: 2004 Update. World Health Organization, 2008.

⁴ Mental Health Gap Action Programme: Scaling up care for mental, neurological, substance use disorders. World Health Organization, 2008.

⁵ Collins PY, Patel V, Joestl SS, March D, Insel TR, Daar AS; Scientific Advisory Board and the Executive Committee of the Grand Challenges on Global Mental Health, Anderson W, Dhansay MA, Phillips A, Shurin S, Walport M, Ewart W, Savill SJ, Bordin IA, Costello EJ, Durkin M, Fairburn C, Glass RI, Hall W, Huang Y, Hyman SE, Jamison K, Kaaya S, Kapur S, Kleinman A, Ogunniyi A, Otero-Ojeda A, Poo MM, Ravindranath V, Sahakian BJ, Saxena S, Singer PA, Stein DJ. Grand challenges in global mental health. *Nature*. 2011 Jul 6;475(7354):27-30. doi: 10.1038/475027a.

see finalists from this competition, please see:
www.grandchallenges.ca/globalmentalhealth-grantees-en/.

The Opportunity

Mental health resources are extremely scarce in low- and middle-income countries: investment in mental health for many of these countries represents less than 1% of the total health budget.⁶ Unfortunately, most of the people affected with mental disorders — up to 75% of whom reside in low-income countries — do not have access to evidence-based treatment and care. Results from a large multi-country survey conducted by the World Health Organization (WHO) indicated that between 76–85% of serious mental health cases in less-developed countries had received no treatment in the previous year, as compared to 35–50% of cases in developed countries, indicating a significant treatment gap.⁷ Given the shortages in trained mental health professionals (e.g., psychiatrists, clinical psychologists, psychiatric nurses and social workers), few hospitals and clinics, accessibility of effective medications and evidence-based interventions, and the associated stigma faced by individuals with mental disorders and their families seeking treatment and care in low- and middle-income countries, there is a tremendous opportunity for new and innovative solutions to address this current gap.

2. Approach

2.1 PROGRAM GOAL

The goal of this Request for Proposals is to solicit innovative solutions for improving treatments and expanding access to care for mental disorders in low-resource settings in eligible countries based on considerations such as the World Bank's classification of low- and lower-middle-income countries and Canadian International Development Agency 'Countries of Focus'. Bold, innovative, transformational, outside-the-box solutions are encouraged to address the large treatment gap for accessible, evidence-based, high-quality mental health care.

2.2 PROGRAM SCOPE

This Request for Proposals is offering two streams of funding:

1. **Seed grants** that support the development and validation of innovative ideas in order to reach proof of concept; and
2. **Transition-to-scale grants**, which support the refinement, testing and implementation of innovative solutions that have already achieved proof of concept and to bring them toward scale.

⁶ Patel, V. Mental health in low- and middle-income countries. *Br Med Bull.* 2007;81-82:81-96. Epub Apr 30, 2007.

⁷ mhGAP: Mental Health Gap Action Programme. Scaling up care for mental, neurological, and substance use disorders. World Health Organization, 2008.

Grand Challenges Canada is looking for solutions that demonstrate a clear path to scale and sustainability, have measurable outcomes of increased access to care and improved treatment, and can ultimately serve as models that can be replicated or scaled in other low-resource settings or have lessons for other settings. Grand Challenges Canada does not fund capacity-building initiatives alone. We are looking for evidence-based, affordable treatments or innovative service delivery models for mental disorders that can be scaled in a sustainable manner.

'Mental disorders' refers to mental, neurological and substance use disorders, such as depression, anxiety disorders, schizophrenia, bipolar disorders, alcohol and drug use disorders, emotional and behavioural disorders of childhood and adolescence, dementias, migraines and epilepsy.

To improve treatments and expand access to mental health care, applicants must propose innovative solutions to one (or more) of the following specific challenges identified from the Grand Challenges in Global Mental Health initiative within this priority area:

- Integrate screening and core packages of services into routine primary health care
- Reduce the cost and improve the supply of effective medications
- Provide effective and affordable community-based care and rehabilitation
- Improve children's access to evidence-based care by trained health providers
- Develop effective treatments for use by non-specialists, including lay health workers with minimal training
- Incorporate functional impairment and disability into assessment
- Develop mobile and IT technologies (such as telemedicine) to increase access to evidence-based care.

Grand Challenges Canada is looking for solutions that have the potential for real world impact, and demonstrate a clear path to scale and sustainability. Proposals must therefore take an Integrated Innovation approach, defined as the coordinated application of scientific/technological, social and business innovation, to develop solutions to complex challenges. This approach does not discount the singular benefits of each of these types of innovation alone, but rather highlights the powerful synergies that can be realized by aligning all three. Integrated Innovation recognizes that scientific/technological innovations have a greater chance of going to scale, and achieving global impact and sustainability, if they are developed from the outset with appropriate social and business innovations. (Please refer to www.grandchallenges.ca/integrated-innovation).

Proposed solutions should therefore include a combination of:

- **Scientific/Technological Innovation:** The development and application of new (and/or modifying existing) scientific or technological products, services, practices or processes. Scientific/technological innovations can be simple, i.e., there is no requirement for high-tech solutions.
- **Social Innovation:** This includes elements necessary to bring solutions to scale in specific local and regional contexts to influence health outcomes, such as health systems, determinants of health, ethical/social/cultural/legal frameworks, public policies and human resources, among others. This often requires the engagement of end-users early and throughout the process.
- **Business Innovation:** Development, distribution and delivery of appropriate solutions, including high-quality goods and services, affordably and sustainably where and when they are needed most. A part of business innovation is to determine the value proposition or incentives that are able to bring the right players to the table (e.g. end-users, families, communities, providers, payors, policy-makers, industry, etc.). Business innovation includes implementation by non-profit organizations and social enterprises; it is not solely focused on for-profit entities or activities. It acknowledges that there will always be a payee (e.g., patients, providers, community, non-profit organizations, government), who needs to be convinced that this is a worthwhile investment.

As part of an Integrated innovation approach, proposed solutions must consider variations in local cultures, traditions and beliefs, and the stigma and discrimination faced by patients and their families associated with seeking mental health care. Approaches to reducing stigma and discrimination must be aligned or integrated with the proposed intervention or service delivery model, focused on a specific target population, and have measureable outcomes. Additionally, end-users (e.g., patients and their families, community leaders, teachers, healthcare workers, hospitals, clinics, policy-makers, etc.) should be engaged in the project at the outset and throughout, to ensure that the resulting research is poised for adoption. Applicants may draw on proven evidence-based interventions from developed countries to demonstrate proof of concept in a low-resource setting or provide innovative approaches for the implementation of solutions that have already achieved proof of concept and bring them toward scale. Interested applicants are encouraged to form multidisciplinary/cross-sector teams where necessary with the requisite scientific, social and business expertise.

Grand Challenges Canada is concurrently developing a Global Mental Health Platform that will serve as a mechanism to enable learning across projects, enhance linkages among partners and leverage resources to enhance the field of global mental health. This platform will include the development of a shared metrics and evaluation framework that will enable progress to be monitored, evaluated and shared for enhanced learning. The platform will also articulate a common theory of change that elaborates causal pathways based on scientific knowledge and practical experience. Articulating a theory of change enables

diverse players to understand how the pieces fit together to achieve global impact and contribute to an ongoing learning community.

2.3 SIZE OF GRANTS

The total funding available to support this competition is up to \$10 million CAD. We expect to fund proposals through two funding streams:

1. **Seed grants** to support the development and validation of innovative ideas to improve treatments and expand access to care, offering up to \$250,000 CAD each over a maximum of two (2) years. Proposals are expected to demonstrate proof of concept of the idea.
2. **Transition-to-scale grants** to support the refinement, testing and implementation of innovative solutions that have already achieved proof of concept and to bring them toward scale, offering up to \$2 million CAD each over a maximum of three (3) years.

The value of the awards is expected to vary and will be commensurate to the proposed project. The level of funding requested should be sufficient to assure completion of the goals in the stated timeframe. Grand Challenges Canada reserves the right to fully or incrementally fund selected application(s), to partially fund selected applications(s), and to increase or decrease budgets as it deems appropriate at its sole discretion.

3. Activities and Deliverables

The investigators funded under this effort will be expected to engage in the activities and provide specific deliverables. In addition to engaging in investigative activities related to their proposed project, applicants will be expected to:

- Participate in a community of innovators that will meet twice yearly
- Leverage resources and learning among networks of multidisciplinary investigators
- Actively participate in community meeting(s) that set common outcome measurements and evaluation frameworks – applicants will incorporate common metrics into project plans to achieve common goals as established by the community
- Actively engage with Grand Challenges Canada's Global Mental Health Platform to develop outcome metrics and a theory of change for the project
- Commit to Grand Challenges Canada's Global Access, Data and Ethics policies (see www.grandchallenges.ca/resources/) including entering into a Global

Access Agreement with Grand Challenges Canada, as described below in Section 4.9

- Engage the end users throughout the project
- Provide regular progress reports, a final report and participate in site visits to evaluate progress against project milestones – instructions for the reports will be provided to grant recipients
- Disseminate knowledge through publications in peer-reviewed literature, conferences, social media, etc.

4. Rules and Guidelines

4.1 ELIGIBILITY CRITERIA

1. Eligible applicants include non-profit organizations, for-profit companies and other recognized institutions that can successfully execute the activities in their respective technical area, and are capable of receiving and administering grant funding. All applicants are encouraged to secure co-funding.
2. Applicants from the following list of countries are eligible to apply to this round of the Global Mental Health Request for Proposals. For the purposes of determining eligibility, Grand Challenges Canada may consider both the applicant's home jurisdiction and any other jurisdiction within which grant project activities will take place. The list of countries is based on considerations such as the World Bank's classification of low- and lower-middle-income countries, Canadian International Development Agency 'Countries of Focus' and also includes Canada.

This list is subject to revision by Grand Challenges Canada without notice. Notwithstanding inclusion below, all eligible jurisdictions remain subject to approval by Grand Challenges Canada on the basis of compliance with all relevant Canadian and international laws and policies. Whenever possible, Grand Challenges Canada will provide reasonable notice of a determination of ineligibility for applicants located within jurisdictions listed below.

| | | |
|----------------------------|-----------------------------|--------------------------|
| <i>Afghanistan</i> | <i>Burundi</i> | <i>Congo, Dem. Rep.</i> |
| <i>Albania</i> | <i>Cambodia</i> | <i>Republic of Congo</i> |
| <i>Antigua and Barbuda</i> | <i>Cameroon</i> | <i>Côte d'Ivoire</i> |
| <i>Armenia</i> | <i>Canada</i> | <i>Djibouti</i> |
| <i>Bangladesh</i> | <i>Cape Verde</i> | <i>Dominica</i> |
| <i>Belize</i> | <i>Central African Rep.</i> | <i>Egypt, Arab Rep.</i> |
| <i>Benin</i> | <i>Chad</i> | <i>El Salvador</i> |
| <i>Bhutan</i> | <i>Colombia</i> | <i>Ethiopia</i> |
| <i>Bolivia</i> | <i>Comoros</i> | <i>Fiji</i> |
| <i>Burkina Faso</i> | | |

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| <i>Gambia, The</i> | <i>Marshall Islands</i> | <i>Solomon Islands</i> |
| <i>Georgia</i> | <i>Mauritania</i> | <i>Somalia</i> |
| <i>Ghana</i> | <i>Micronesia, Fed. Sts</i> | <i>South Sudan</i> |
| <i>Grenada</i> | <i>Moldova</i> | <i>Sri Lanka</i> |
| <i>Guatemala</i> | <i>Mongolia</i> | <i>St. Lucia</i> |
| <i>Guinea</i> | <i>Montserrat</i> | <i>St. Vincent and the Grenadines</i> |
| <i>Guinea-Bissau</i> | <i>Morocco</i> | <i>Sudan</i> |
| <i>Guyana</i> | <i>Mozambique</i> | <i>Suriname</i> |
| <i>Haiti</i> | <i>Myanmar</i> | <i>Swaziland</i> |
| <i>Honduras</i> | <i>Nepal</i> | <i>Tajikistan</i> |
| <i>India</i> | <i>Nicaragua</i> | <i>Tanzania</i> |
| <i>Indonesia</i> | <i>Niger</i> | <i>Timor-Leste</i> |
| <i>Iraq</i> | <i>Nigeria</i> | <i>Togo</i> |
| <i>Jamaica</i> | <i>Pakistan</i> | <i>Tonga</i> |
| <i>Kenya</i> | <i>Papua New Guinea</i> | <i>Uganda</i> |
| <i>Kiribati</i> | <i>Paraguay</i> | <i>Ukraine</i> |
| <i>Kosovo</i> | <i>Peru</i> | <i>Uzbekistan</i> |
| <i>Kyrgyz Rep.</i> | <i>Philippines</i> | <i>Vanuatu</i> |
| <i>Lao PDR</i> | <i>Rwanda</i> | <i>Vietnam</i> |
| <i>Lesotho</i> | <i>Samoa</i> | <i>West Bank and Gaza</i> |
| <i>Liberia</i> | <i>São Tomé and Príncipe</i> | <i>Yemen, Rep.</i> |
| <i>Madagascar</i> | <i>Senegal</i> | <i>Zambia</i> |
| <i>Malawi</i> | <i>Sierra Leone</i> | <i>Zimbabwe</i> |
| <i>Mali</i> | | |

3. Collaborations between eligible applicants (listed above) and Canadian applicants are encouraged but not required. In order to be considered eligible, Canadian applicants must apply with an applicant in an eligible country listed above (outside of Canada) and a majority of the budget must be spent in the partner country in order to be eligible.
4. It is not the intention of this Request for Proposals to exclude existing productive collaborations between applicants in eligible countries and non-eligible countries. If justified, these collaborations may be part of a proposal. However, the applicant in the eligible country must be the primary applicant and Principal Investigator of the project, and a majority of the budget must be spent in that country.
5. Principal Investigators are permitted to submit only one (1) application to *either* the seed grant or the transition-to-scale competition.
6. Grand Challenges Canada may, at any time and at its sole discretion, modify eligibility criteria with respect to individual applicants, Principal Investigators or the Global Mental Health initiative, to the extent that such modifications do not materially undermine the review process. (See Section 4.3.)

4.2 APPLICATION INSTRUCTIONS

Application instructions and forms are posted on the Grand Challenges Canada website.

For a seed grant (up to \$250,000 CAD), applicants can apply through a Seed Grant Application that describes their innovative idea, goal, objectives and activities, approach, framework for measuring success, and budget (www.grandchallenges.ca/grand-challenges/gc4-non-communicable-diseases/mentalhealth/).

For a transition-to-scale grant (up to \$2 million CAD), applicants can apply through a Letter of Intent (LOI) that describes their innovative solution, goal, objectives and activities, approach, framework for measuring success, and budget (www.grandchallenges.ca/grand-challenges/gc4-non-communicable-diseases/mentalhealth/). Successful applicants at the Letter of Intent stage will be invited to a Proposal Development Workshop to support the development of a full proposal. The Workshop will provide low- and lower-middle-income country investigators an opportunity to further develop and hone their proposals by learning grant writing techniques, with guidance from experienced grant writers, mentors and peers. Costs to attend this Workshop will be covered by Grand Challenges Canada.

Applicants are encouraged to access Grand Challenge Canada's Online Proposal Development Resource at <http://www.grandchallenges.ca/proposaldevelopment>, which is updated regularly and contains material to help researchers and innovators around the world develop their project proposals and plan for how their innovation will go to scale, be sustained, and have impact globally.

4.3 REVIEW PROCESS

The Canadian Institutes of Health Research is responsible for conducting the peer review of all submissions. A review committee of external reviewers, including experts from low- and middle-income countries, will advise on the merit of proposals, based on the evaluation criteria (see Section 4.5). Final selection decisions will be made by the Board of Directors of Grand Challenges Canada at the Board's sole discretion.

4.4 APPLICATION SCHEDULE

Seed grants (up to \$250,000 CAD):

| Key Deadlines | Event |
|------------------|--|
| February 4, 2013 | Application deadline for seed grant proposals at 11:59 p.m. ET |
| May 2013 | Notification of Award |

Transition-to-scale grants (up to \$2 million CAD):

| Key Deadlines | Event |
|------------------|---|
| February 4, 2013 | Application deadline for Letters of Intent at 11:59 p.m. ET |

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| May 2013 | Invitation to submit a full proposal |
| Week of June 17, 2013 | Proposal Development Workshop for those invited to submit a full proposal |
| July 15, 2013 | Application deadline for full proposals at 11:59 p.m. ET |
| October 2013 | Notification of award |

4.5 EVALUATION CRITERIA

Seed grants and transition-to-scale grants have different evaluation criteria, as outlined separately below.

| Evaluation Criteria | Seed Grant | Transition-to-Scale Grant (Letters of Intent & Full Proposals) |
|------------------------------|---|---|
| Impact | <ul style="list-style-type: none"> • Is the proposed idea aligned with one (or more) specific challenges outlined in the Program Scope, Section 2.2? • Does the idea have the potential to be transformational? • Will the project have clear outcomes that demonstrate proof of concept of the idea, to improve treatments and expand access to mental health care in low-resource settings? • Is the proposed idea appropriate for wider implementation and scaling in low-resource settings? | <ul style="list-style-type: none"> • Is the proposed solution aligned with one (or more) specific challenges outlined in the Program Scope, Section 2.2? • Does the solution have the potential to be transformational? • Has the proposed solution already achieved proof of concept and is it ready for refinement, testing and implementation toward scale? • Is it clear that the outcomes of this project will reduce and/or eliminate health challenges related to treatment and care for those impacted by mental disorders in low-resource settings? • Is the proposed solution appropriate for wider implementation and scaling in low-resource settings? |
| Integrated Innovation | <ul style="list-style-type: none"> • Is the proposed idea bold, truly novel and/or a departure from incremental improvements over current approaches? Innovative approaches to the implementation and delivery of known interventions are also encouraged. • Is there a plan or approach to | <ul style="list-style-type: none"> • Is the proposed solution bold, truly novel and/or a departure from incremental improvements over current approaches? Innovative approaches to the implementation and delivery of known interventions are also encouraged. • Is there an Integrated Innovation |

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| | <p>identify the barriers to scale and sustainability?</p> <ul style="list-style-type: none"> • Does the proposed idea integrate scientific/technological, social and business innovation? • Will key stakeholders and/or potential users of the knowledge/goods/services be engaged in the proposed project? | <p>approach to overcome the barriers to scale and sustainability?</p> <ul style="list-style-type: none"> • How feasible is the anticipated plan for taking this solution to scale and achieving sustainability? • Will key stakeholders and potential users of the knowledge/goods/services be engaged in the proposed project? |
| Technical Merit/ Execution Plan | <ul style="list-style-type: none"> • Is the plan to execute the project clearly articulated, feasible and technically sound? Has the project scope been clearly defined? • Are the proposed goals and objectives based on sound scientific analysis, technical rigour and/or existing evidence? • Are there appropriate, feasible and technically sound metrics of success/milestones to measure and evaluate progress, and the achievement of proof of concept? • Are the timelines proposed appropriate and feasible? • Do the applicants provide evidence indicating the likelihood of success, and a rigorous assessment of risks and associated mitigation strategies? • Have the investigators dedicated sufficient time for proper execution of the plan? | <ul style="list-style-type: none"> • Is the plan to execute the project clearly articulated, feasible and technically sound? Has the project scope been clearly defined? • Are the proposed goals and objectives based on sound scientific analysis, technical rigour and/or existing evidence? • Are there appropriate, feasible and technically sound metrics of success/milestones to evaluate and measure progress on reducing and/or eliminating health challenges related to treatment and care for those impacted by mental disorders? • Are the timelines proposed appropriate and feasible? • Do the applicants provide evidence indicating the likelihood of success, and a rigorous assessment of risks and associated mitigation strategies? • Have the investigators dedicated sufficient time for proper execution of the plan? |
| Investigator Capability and Capacity to Champion | <ul style="list-style-type: none"> • Is the proposed Principal Investigator and key team members appropriately trained, experienced and positioned in the local community to carry out | <ul style="list-style-type: none"> • Is the proposed Principal Investigator and key team members appropriately trained, experienced and positioned in the local community to carry out |

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|--------------------------------|---|---|
| <p>Change</p> | <p>the proposed work (i.e., scientific, social and business expertise)?</p> <ul style="list-style-type: none"> • Is there capacity to engage necessary stakeholders (e.g., business, academic, public sector) as demonstrated by letters of support for the project? | <p>the proposed work (i.e., scientific, social and business expertise)?</p> <ul style="list-style-type: none"> • Have the Principal Investigator and key team members demonstrated the commitment and leadership needed to bring solutions to scale? Does the team have a track record of successfully scaling innovations and making them sustainable? • Do the proposed partnerships and composition of multi-disciplinary teams have the potential to increase the likelihood of success? • Do key stakeholders required for systems change and/or to sustain innovation at scale have an active role in the project? |
| <p>Value for Effort</p> | <ul style="list-style-type: none"> • Is the scope of the proposed work and the funds requested reasonable and commensurate with the proposed study goals? • Does the proposal represent a particularly thoughtful and efficient use of resources? | <ul style="list-style-type: none"> • Is the scope of the proposed work and the funds requested reasonable and commensurate with the proposed study goals? • Does the proposal represent a particularly thoughtful and efficient use of resources? • How much cash (preferred) or in-kind resources have been leveraged to provide confidence that the solution will be sustainable on its own after the successful completion of Grand Challenges Canada grant funding? |

4.6 ALLOWABLE COSTS

Grant funds may be used for the following cost categories:

1. Personnel: *Please note that salary support is an allowable cost.*
2. Travel
3. Consultants

4. Direct Supplies
5. Equipment: *Please note that partial or full support for equipment may be requested. Funding for infrastructure will be limited.*
6. Other Research Costs
7. Sub-grants/Subcontracts
8. Indirect costs: *Please note that Grand Challenges Canada will provide a limited amount of indirect costs based on the nature of the applicant organization, to a maximum of 13% of direct costs of the grantee's administered grant value (1-7 outlined above).*

Please provide budget estimates (as outlined in the Letter of Intent Form/Seed Grant Application Form) according to the categories outlined above.

4.7 PRIVACY NOTICE

To help us in the evaluation and analysis of projects, all proposals, documents, communications and associated materials submitted to the Grand Challenges Canada (collectively, "Submission Materials") will become the property of Grand Challenges Canada and will be shared with other members of the Grand Challenges Canada consortium (the International Development Research Centre and Canadian Institutes of Health Research). We will report publicly on the number of applications received and the countries from which they originated. The proposals will be subject to confidential external review by independent subject matter experts and potential co-funders, in addition to analysis by our staff. Please carefully consider the information included in the Submission Materials. If you have any doubts about the wisdom of disclosure of confidential or proprietary information, we recommend you consult with your legal counsel and take any steps you deem necessary to protect your intellectual property. You may wish to consider whether such information is critical for evaluating the submission, and whether more general, non-confidential information may be adequate as an alternative for these purposes.

We respect confidential information we receive. Nonetheless, notwithstanding your characterization of any information as being confidential, we may publicly disclose all information contained in Submission Materials to the extent as may be required by law and as is necessary for potential co-funders and external reviewers, such as government entities, to evaluate them, and the manner and scope of potential funding, consistent with appropriate regulations and their internal guidelines and policies.

4.8 WARRANTY

By providing any Submission Materials, the sender warrants Grand Challenges Canada that they have the right to provide the information submitted. Applicants with questions

concerning the contents of their Submission Materials may contact Grand Challenges Canada by email at globalmentalhealth@grandchallenges.ca.

4.9 INTELLECTUAL PROPERTY

Since the output of this program may lead to innovative technologies and/or products for those that need them most in the developing world, the successful development of these products may require involvement and support of the private sector, and may also involve collaborations with multiple organizations, including academic and/or non-profit research institutions. It is the intent of this program to support the formation of appropriate public-private partnerships that are essential to meet these urgent global health needs. Intellectual property rights and the management of intellectual property rights are likely to play an important role in achieving the goals of this program. Grand Challenges Canada's Global Access Strategy will guide our approach to intellectual property and we urge all applicants, even at the application stage, to consider their willingness to submit a full proposal in compliance with the Grand Challenges Canada Global Access Strategy, the guiding principles of which are as follows:

- Breakthrough solutions to global challenges are made accessible to those in need, particularly in the developing world. Accessibility relates to both price and availability.
- Knowledge gained through discovery is broadly, and as promptly as possible, distributed between related projects and to the global scientific community.
- Commercialization of resulting outputs is encouraged, as long as the first two principles are achieved.

Grantees will be required to sign a Global Access Agreement with Grand Challenges Canada, in line with the Guiding Principles, for the use of intellectual property and other outputs arising from this program, including a non-exclusive, perpetual, irrevocable, royalty-free, fully-paid, sub-licensable, and assignable license in respect of all outputs arising from the work carried out by grantee, or at the grantee's direction, in connection with this Grand Challenges Canada grant, to permit Grand Challenges Canada (and its sub-licensees) to use, educate, conduct research, develop, make, have made, import, export, sell, offer for sale or distribute products, processes or solutions in developing markets for the purposes of global access. For further information, please refer to Grand Challenges Canada's intellectual property policy at www.grandchallenges.ca/resources/.

4.10 DATA ACCESS

Grand Challenges Canada is committed to optimizing the use of data to translate knowledge into life-saving solutions. To fulfill this objective, data must be made widely and rapidly available to the Grand Challenges Canada research community and the broader global health community through ethical and efficient data access practices. In accordance with global access, data access represents an elaboration of the second guiding principle of the Global Access Policy, which states that knowledge gained

through discovery is broadly, and as promptly as possible, distributed between related projects and to the global scientific community.

Grantees may be required to develop and submit a Data Access Plan (DAP) that specifies how data access will be implemented and the timeframe for data release.

Data refers at a minimum to final, annotated quantitative and qualitative datasets and accompanying information, such as metadata, codebooks, data dictionaries, questionnaires and protocols.

Grand Challenges Canada recognizes the value of intellectual property and commercialization, and the benefits of first and continuing use of data, but not prolonged or exclusive use. In some cases, intellectual property protection, laws or regulations may delay or preclude access to data. In such cases, the grantee will provide justification to warrant a partial or complete waiver of the data access requirement.

4.11 NATURE OF THIS PROGRAM

This Request for Proposals is part of a discretionary granting program. Submission of an application does not create a contractual relationship between the applicant and Grand Challenges Canada. As a result, Grand Challenges Canada may:

1. Cancel this Request for Proposals at any time and for any reason;
2. Reissue the Request for Proposals at any time and for any reason;
3. Accept or reject any application that is nonconforming because it does not meet the eligibility criteria, does not comply with the application instructions, and/or does not comply with the instructions for allowable costs;
4. At Grand Challenges Canada's sole discretion, accept or reject any or all applications, regardless of an application's ranking based on the evaluation criteria, with or without providing an explanation;
5. Award a fewer number of grants than set out above;
6. Award grants with different funding amounts, different durations and/or different conditions than set out above;
7. Verify any information provided by applicants through independent research or by contacting third parties deemed to be reliable by Grand Challenges Canada;
8. Use video or other visual representation submitted by applicants on the Grand Challenges Canada website for public engagement;
9. Not provide critiques or feedback regarding the reasons a proposal was or was not selected;
10. Design grant awards to link to possible funding partners, including private sector investors.

5. Research Assurances

It is the policy of Grand Challenges Canada that research involving human subjects, research with animals and research subject to additional regulatory requirements must be conducted in accordance with the highest internationally recognized ethical

standards. In order to receive funds from Grand Challenges Canada, initially and throughout the course of a research project, researchers must affirm and document compliance with the guiding ethical principles and standards outlined below:

1. Research involving human participants must be conducted in a manner that demonstrates, protects and preserves respect for persons, concern for the welfare of individuals, families and communities, and justice.⁸
2. Research involving animals must be conducted in a manner that ensures their humane care and treatment.
3. Certain research endeavors, including but not limited to research with recombinant DNA, biohazards and genetically modified organisms, may be subject to enhanced regulation and oversight.

While not necessary for the Letter of Intent, and as applicable to the individual project, Grand Challenges Canada will require that for each venue in which any part of the project is conducted (either by your organization or a sub-grantee or subcontractor), all legal and regulatory approvals for the activities being conducted will be obtained in advance of commencing the regulated activity. We will further require you to agree that no funds will be expended to enroll human subjects until the necessary regulatory and ethical bodies' approvals are obtained. For further details, please see the Grand Challenges Canada Ethics policy at www.grandchallenges.ca/resources/.

Questions about the Global Mental Health program or the application process should be addressed to globalmentalhealth@grandchallenges.ca. Responses to frequently asked questions will be periodically posted on our website at grandchallenges.ca.

⁸ Modified from the core principles articulated in Tri-Council Policy Statement 2 (www.pre.ethics.gc.ca/eng/policy-politique/initiatives/tcps2-eptc2/chapter1-chapitre1/#toc01-1b).