



Partner Housing Australasia (Building) Incorporated
ABN 88 722 057 429 CFN: 15429
Web: www.partnerhousing.org
Pro-bono professional services and funding for South Pacific
village infrastructure, housing, water, sanitation and training.



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Partner Housing is a signatory to the ACFID Code of Conduct, which is a voluntary, self-regulatory sector code of good practice. As a signatory we are committed and fully adhere to the ACFID Code of Conduct, conducting our work with transparency, accountability and integrity.

Partner Housing Australasia

Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation



Five Police Houses constructed using the Partner Housing Australasia **DANCER** building system at Baiyer River for the Government of Papua New Guinea.

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Revisions

P23010180-2a	31 August 2022	This is a consolidation of existing documents, some of which have been used for over a decade. Although some material is new, much is not new, but has now been collected into a single document.
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Consultants

While this document covers the activities of Partner Housing Australia (PHA) and its partners, Vision for Homes – PNG and South Ranongga Community Association (SRCA), it also covers Quasar Management Services Pty Limited (QMS).

Quasar Management Services Pty Limited (QMS) is a wholly owned subsidiary consulting engineering firm, with professional indemnity insurance appropriate to the activities currently performed by professionals on behalf of Partner Housing Australasia.

Expressed within this Strategic Plan is sincere appreciation for the extensive generous contributions of probono professional services by consultants, individual professional engineers and builders, working independently or through Quasar Management Services, without whose input this program would not be possible.



Since 2013, individual professional engineers and builders have provided probono professional services through Quasar Management Services. These services include (but are not limited to) –

- Management auditing of Vision for Homes Papua New Guinea Inc. and South Ranongga Community Association
- Additional supervision of Vision for Homes Papua New Guinea Inc. projects when required
- Preparation and publication of the technical manuals and training packages available on www.PartnerHousing.org.

Scope

This document sets out the Partner Housing Australasia¹ and Quasar Management Services² combined Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation for training and the funding, design and construction of community health buildings, classrooms, houses, water and sanitation throughout Papua New Guinea, Solomon Islands and the wider South Pacific region.

This document is a consolidation of existing documents, some of which have been used for nearly a decade. Much material is not new, but has now been collected into a single document.

Context

PHA is an entirely voluntary not-for-profit organisation, which aims to transform the lives of people living in Asia-Pacific villages by improving the cyclone, earthquake and tsunami resistance of their houses, clinics, schools and community buildings; and by providing clean water supplies and hygienic sanitation.

QMS is a consulting civil/structural engineering firm, providing financial, governance and pro bono technical support to PHA, VFH, SRCA and other organisations.

Duration

This Strategic Plan is intended to operate during the Financial Years between 1 July 2022 and 30 June 2026.

Associated Documents

The following documents are integral to this Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation, and must be read in conjunction with it.

- “Vision for Homes Papua New Guinea Inc., Partner Housing Australasia, Quasar Management Services, Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation, for Training and Funding, Design and Construction of Village Community Health Buildings, Classrooms, Houses, Water and Sanitation throughout Papua New Guinea”.
- “Solomons Regional Community Association, Partner Housing Australasia, Quasar Management Services, Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation, for Training and Funding, Design and Construction of Water, Sanitation and Building Infrastructure throughout Solomon Islands Western Province”.

These two documents contain the detailed strategic plans, need analyses, programs, risk analyses, sustainability, monitoring and evaluations relevant to the PHA (and QMS) activities in Papua New Guinea and Solomon Islands.

¹ Partner Housing Australasia (Building) Incorporated is an Australian international NGO, also referred herein as PHA or Partner Housing Australasia.

² Quasar Management Services Pty Limited is a consulting civil/structural engineering firm, and wholly-owned subsidiary of Partner Housing Australasia, also referred herein as QMS or Quasar.

Background

This “Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation” is based on:

- a) The most recent Strategic Plan, adopted by the 2019 AGM, reviewed annually and confirmed by the 2020 and 2021 AGMs, including the detailed discussions with each of the Directors, Partner Organisations and other stakeholders.
- b) The most recent Operating Plan and Financial Plan, reviewed annually, revised and adopted July 2022.
- c) Recommendations of a Board Working Group, consisting of Rod Johnston, Bruce Hutchison, Ian Warren, Ian Volke and David Kaunitz.
- d) On-going email correspondence with the representatives of the Partner Organisations – Vision for Homes [PNG] and South Ranongga Community Association [Solomon Islands].
- e) Consideration of the following data contained in the most recent 2022 Annual Report:
 - Monitoring, Continuous Improvement and Good Practice Indicators
 - Breadth of Stakeholder Relationships
 - Vision, Mission and Values
 - Outcomes and Impacts
 - Source and Sustainability of Funding
 - Risk Management
 - Positive and Negative Impacts
 - Environmental Sustainability
 - Independent Auditors Report
- f) Consideration of the ACFID compliance and verification process;
- g) Consideration of the DFAT ANCP Audit Report and Appeal.

Overview

Partner Housing Australasia is unique amongst Australian International Non-Governmental Organisations, being:

- an entirely volunteer,
- yet highly professional,
- not-for-profit,
- International Non-governmental Organisation,
- a member of ACFID (Australian Council for International Development),
- complying with DFAT requirements, as would be applicable to a small voluntary NGO³;
- with low overheads,
- and moderate working capital,
- servicing Australia’s South Pacific neighbours,
- in conjunction with its own wholly-owned subsidiary consulting engineering firm, which has Professional Indemnity Insurance and membership of Consult Australia.

³ This is the view of the Partner Housing Australasia Board. Comment from DFAT has been sought.

Vision, Mission and Values

Partner Housing Australasia confirms the following Vision, Mission and Values.

Vision

Partner Housing Australasia is an entirely voluntary organisation, which aims to transform the lives of people living in Asia-Pacific villages by improving the cyclone, earthquake and tsunami resistance of their houses, clinics, schools and community buildings; and by providing clean water supplies and hygienic sanitation.

Mission

Partner Housing Australasia is a Christian organisation that works with local communities and governments to build safe and healthy villages. We offer four basic services:

- a) Pro-bono "Design and Help-Desk" Engineering Services to other Non-Governmental Organisations (NGOs) and governments of South Pacific countries.*
- b) Finance, design, materials supply, supervision, mentoring and training for village infrastructure, clinics schools, water, sanitation and housing projects.*
- c) Development of village building systems with enhanced cyclone, earthquake and tsunami resistance and sustainable rural water supply and sanitation systems.*
- d) Training programs for the design, construction and maintenance of improved village buildings, rural water supply and sanitation.*

The particular objects of the Organisation are:

- a) to reduce and eventually eliminate poor quality village housing, buildings, water supplies and sanitation in the Asia-Pacific region, thus enabling the building or renovation of adequate and basic housing buildings and infrastructure;*
- b) to dispense grants directly communities suffering from poverty, destitution and homelessness;*
- c) to enable needy and marginalised persons and families to build hope and dignity and to nurture self-respect in such persons and families through the provision of simple, decent and affordable places to live with reliable village infrastructure;*
- d) to help such persons and families to help themselves, and to encourage them to work in association with Partner Housing Australasia in achieving the goal of providing a simple, decent and affordable place to live through home ownership and reliable village infrastructure.*

Partner Housing Australasia's principal mission is in designing and building infrastructure that relates directly to the improvement of the daily lives of poor people in villages in developing countries. This includes:

- *Houses*
- *Village community centres*
- *Village schools*
- *Village clinics*
- *Access roads to the villages*
- *Water collection (e.g., wells & tanks) and reticulation to villages*
- *Septic systems and latrines to villages*
- *Hospitals*

Values

Partner Housing Australasia programs and procedures reflect Christian values of love and compassion to care for people less fortunate than ourselves. Partner Housing Australasia is non-denominational, does not evangelise and does not discriminate in the dispensation of donations or services, which are available to all people in need, irrespective of gender, sexual orientation, religion or race. Partner Housing Australasia does not provide support for evangelical activities and partisan political activities. Partner Housing Australasia does not participate in advocacy.

Stakeholders

Stakeholders fall into three broad groups –

- Beneficiaries
- Funding Partners
- Implementing Partners (assisted when required by consultants)

Beneficiaries

Beneficiaries include provincial health authorities, education authorities, other government bodies, local government and individual villages.

Funding Partners

Some funding partners (health authorities, education authorities and other government departments) are also beneficiaries, while others (UNICEF, UNDP, ADB, NGOs, INGOs, philanthropic foundations, commercial businesses and private donors) are considered to be potential funding partners, but are not considered to be beneficiaries.

Implementing Partners

For purposes of this strategic plan, the Design and Construction Organisations are –

a) Quasar Management Services

QMS shall carry out the **design, detailing, preparation of the bill of quantities, preparation of cutting lists and construction auditing** roles.

In other countries, sometimes other consultants are used, but in each case these consultants carry their own Professional Indemnity Insurance.

b) Vision for Homes PNG and Solomons Reg

VFH and **SRCA** shall carry out the function of the “**builder**”. In other words, VHF and SCA assume the responsibility and authority for the **construction** process, including **ordering materials, providing and supervising labour**, and ensuring **compliance with the design and regulations**.

c) Partner Housing Australasia

PHA is included in the design and construction group, due to its coordination role. However, the role of PHA within the design and construction process (as distinct from its funding role) is more limited than the roles of QMS and VHF.

PHA shall carry out the formal coordination of the other aspects of the strategic plan (consultation and funding) with this part (design and construction). In other words, the preparation, overview and execution of this strategic plan shall be coordinated by PHA.

Needs Assessment

Reference to the Papua New Guinea Strategic Plan and Solomon Islands Strategic Plan

Full details of the Needs Assessment for the PNG and Solomon Islands programs are set out in –

- Vision for Homes Papua New Guinea Inc., Partner Housing Australasia, Quasar Management Services, Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation, for Training and Funding, Design and Construction of Village Community Health Buildings, Classrooms, Houses, Water and Sanitation throughout Papua New Guinea”.
- “Solomons Regional Community Association, Partner Housing Australasia, Quasar Management Services, Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation, for Training and Funding, Design and Construction of Water, Sanitation and Building Infrastructure throughout Solomon Islands Western Province”.

Sustainability

Commitment to Sustainability

PHA and QMS are committed to sustainable building practices, as per the PHA policies and procedures.

Environmental Sustainability Policies and Practices

Full details of the policies and practices are set out in PHA policies and procedures “Environmental Sustainability” available on website, <https://www.partnerhousing.org/governance> .

Reference to the Papua New Guinea Strategic Plan and Solomon Islands Strategic Plan

Full details of the sustainability considerations for the PNG and Solomon Islands programs are set out in –

- Vision for Homes Papua New Guinea Inc., Partner Housing Australasia, Quasar Management Services, Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation, for Training and Funding, Design and Construction of Village Community Health Buildings, Classrooms, Houses, Water and Sanitation throughout Papua New Guinea”.
- “Solomons Regional Community Association, Partner Housing Australasia, Quasar Management Services, Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation, for Training and Funding, Design and Construction of Water, Sanitation and Building Infrastructure throughout Solomon Islands Western Province”.

Strategic Plan

Outcomes flowing from the Vision, Mission and Values

Partner Housing Australasia acknowledges the following outcomes that flow from the Vision, Mission and Values.

- a) *Voluntary organisation* means that Australians providing services for or through Partner Housing Australasia shall do so on a voluntary probono basis. Foreign nationals engaged to provide in-country services shall be paid at the appropriate local “going rate”.
- b) *Transform the lives of people living in Asia-Pacific villages* Given that Partner Housing Australasia has only limited funds, the most effective way to “transform lives” are:
 - Identify changes in South Pacific village building and water/sanitation practices that will benefit residents e.g., cyclone and earthquake resilience, efficient water reticulation, improved water maintenance etc.;
 - Develop innovative village building and water/sanitation practices that will bring improvements; e.g., **DANCER** and **VILLAGE AQUA**;
 - Partner with local Community-based Organisations (CBOs) [e.g., Vision for Homes and South Ranongga Community Association) to provide on-going selected village improvement AND to serve as pilot schemes for larger projects by other larger communities and NGOs;
 - Promote the innovative village building and water/sanitation practices to the South Pacific governments, with a view to regulatory changes, training material, design aids etc.; and
 - Provide training to key personnel nominated by the Partner Organisations.

Effective Volunteering

Partner Housing Australasia commits to volunteering as a means of individual service to communities.

Partner Housing Australasia is blessed with the pro bono services of a dedicated team of skilled and experienced volunteers, each altruistically contributing time, skill and (in some cases) finance as the needs present.

Individual engineers, architects, builders and other professionals are encouraged to provide pro bono services directly to Partner Housing Australasia or through Quasar.

The nature and quantum of the time, skills and financial contribution is a personal matter for each individual, and all contributions are very much appreciated by Partner Housing Australasia, its partner organisations and beneficiaries.

The matching of part-time volunteer availability to unpredictable project needs is a difficult task. Sometimes there are periods of relative inactivity, while at other times Partner Housing Australasia activities could intrude into precious family time and/or work commitments. The on-going effective function of Partner Housing Australasia relies on the availability of a pool of skilled and experienced volunteers, each of whom perform regular meaningful on-going tasks that yield tangible benefit to Partner Housing Australasia, its Partner Organisations and village residents, together with providing fulfilment for the volunteer. In addition, these same volunteers should be available to perform project tasks on an ad-hoc needs basis.

To help achieve this commitment, Partner Housing Australasia aims to:

- Recruit a workable number of volunteers, who would be available to implement programs when the need arises;
- Ensure that each of these volunteers has a meaningful fulfilling productive task to perform on a regular on-going basis, perhaps understudying and assisting a Director/Manager with one of their tasks;
- Ensure that these on-going tasks are regular, but not intrusive into family life or work obligations;
- Such regular on-going tasks need not be particularly time consuming, but, if carefully selected, should relieve pressure on the Director/Manager who has overall responsibility for them; and
- Ensure that the regular on-going tasks provide insight into the aims and practices of Partner Housing Australasia, such that the volunteer may choose to undertake one or more additional short-term assignments should the need arise. Provided the volunteer has the appropriate skills, short-term projects could be in an entirely different activity from the regular assistance.

Professional Services provided by Quasar

Partner Housing Australasia facilitates the provision of professional services by Quasar Management Services Pty Limited (Quasar).

- a) Individual engineers, architects, builders and other professionals are encouraged to provide pro bono services through Quasar or directly to Partner Housing Australasia.
- b) Quasar is a wholly owned subsidiary consulting engineering firm, with professional indemnity insurance appropriate to the activities currently performed by professionals on behalf of Partner Housing Australasia.
- c) These services include (but are not limited to) engineering and architectural services, including system development, design, detailing, specification, preparation of cutting lists and bills of quantities, training and auditing. Quasar's PI Insurance precludes its undertaking construction.

- d) Services provided by Quasar may be pro bono or fee-for service. Profit derived by Quasar is donated to Partner Housing Australasia.
- e) Services provided by volunteer engineers, architects, builders and other professionals to Quasar are normally provided on a pro bono basis. However, there are some circumstances (such as a very big commitment to a paying client) where a discounted fee-for-service basis may be appropriate.

Professional Services Provided by External Consultants

Partner Housing Australasia ensures that there is a commitment for projects to proceed before requesting the provision of professional services by other consulting and engineering and architectural firms.

External consulting and engineering and architectural firms are encouraged to provide pro bono services through –

- a) Providing services directly to Partner Organisations; or
- b) Providing services directly to Partner Housing Australasia; or
- c) Providing services directly to Quasar.

Building Skills Training

Partner Housing Australasia provides training services through the following activities.

- a) Conduct formal building skills training through permanent Workshops/Training Facilities operated by Partner Organisations –
 - Vision for Homes shall provide training in building at Mt Hagen and Port Moresby; and
 - South Ranongga Community Association shall provide training in water and/or sanitation at Buri. This program will build on the UNICEF funded program.
- b) Conduct intensive technical and professional training in Australia for two trainees per year (young engineers, architects and builders), one from each of PNG and Solomon Islands. Trainees shall be nominated by the Partner Organisations. Partner Housing Australasia shall provide funding for return travel to Australia, 4 to 6 weeks accommodation and targeted training. The program shall include intensive training in the **DANCER** (building) and **VILLAGE AQUA** (water and sanitation) systems currently promoted by Partner Housing Australasia. The program should provide both cultural and technical experience.

Innovation

Partner Housing Australasia encourages professionals to develop innovative country-appropriate village building systems, village water reticulation systems and village-based businesses.

These types of projects are best developed through Quasar.

Typical development projects include the following. Details of each program are in separate documents.

- **DANCER** Building System – Cyclone, earthquake and tsunami resistant village houses, clinics, schools and community buildings that require a minimum of building skills and minimum imported hardware.
- **VILLAGE AQUA** - Water reticulation and sanitation component assembly business, for installation in remote South Pacific villages.

South Pacific Government Assistance

Partner Housing Australasia is committed to working with the governments of the South Pacific to effect improvements in the cyclone, earthquake and tsunami resistance of village buildings and the health of water supply and sanitation.

- a) This activity includes liaison with the University of Sydney Engineering Faculty and Standards Australia.
- b) Initial focus shall be determined as opportunities arise.

Community-based village not-for-profit businesses

Partner Housing Australasia is committed to continuing the development of community-based village not-for-profit businesses through partner organisations.

This includes the following businesses.

- a) Vision for Homes (PNG) – Prefabrication and sale of **DANCER** prefabricated buildings + Training
- b) South Ranongga Community Association – Assembly of **VILLAGE AQUA** water and sanitation system components + Training
- c) Other possibilities ... e.g., Freshwin Community Building – Prefabrication and building + Training

Communications and Compliance

Partner Housing Australasia will expand its communications activity and compliance verification.

- a) Posts shall be regular and at least monthly, and shall include a combination of profiles of directors and volunteers, and reports on operations.
- b) Annual Reports, the “Strategic Plan & Financial Plan” and the like shall be posted on the website.
- c) Consolidated and individual policy and procedure documents, together with complaints procedures and other documentation required by ACFID and DFAT shall be posted in the Governance section of the website.
- d) While the current Partner Housing Australasia “Procedures” provide a practical means of ensuring compliance with our “Constitution, Policies & Code of Conduct”, ACFID requirements and DFAT requirements, Partner Housing Australasia will progressively revise all governance documentation to more closely identify and align with ACFID Policy Verifiers and DFAT-preferred formats.

Operating Plan and Financial Plan

10-Year Operating Plan and Financial Plan

Partner Housing Australasia adopts the following Interim 10-Year Operating Plan and Financial Plan, to be reviewed (as is normal practice) in December each year.

Year	0	1	2	3	4	5	6	7	8	9	10
Year ending 30 June	30/06/2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
PNG program expenditure	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
Solomon Is program expenditure	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
Training program expenditure	\$ 2,500	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
Other program expenditure	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PNG fund raising income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Solomon Is fund raising income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Training fund raising income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other fund raising income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Balance Sheet at end, 30 June	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Cash	\$ 393,254	\$ 329,731	\$ 271,147	\$ 227,018	\$ 171,884	\$ 97,790	\$ 21,485	\$ 27,984	\$ 33,853	\$ 30,274	\$ 14,948
Mortgage assets	\$ 465,523	\$ 402,248	\$ 335,511	\$ 267,042	\$ 210,250	\$ 171,250	\$ 132,250	\$ 93,250	\$ 54,250	\$ 25,550	\$ 7,350
Sundry debtors (loan to SRCA)	\$ 7,013	\$ 7,013	\$ 7,013	\$ 7,013	\$ 7,013	\$ 7,013	\$ 7,013	\$ 7,013	\$ 7,013	\$ 7,013	\$ 7,013
Quasar equity	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1	\$ 1
HFHA MOU liability	\$ (24,277)	\$ (12,117)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commitment: fund projects from rese	\$ (38,937)	\$ (2,000)	\$ (2,000)	\$ (2,000)	\$ (2,000)	\$ (2,000)	\$ (2,000)	\$ (2,000)	\$ (2,000)	\$ (2,000)	\$ (2,000)
GST liability etc	\$ 97	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing balance	\$ 802,674	\$ 724,876	\$ 611,671	\$ 499,073	\$ 387,148	\$ 274,054	\$ 158,749	\$ 126,248	\$ 93,117	\$ 60,838	\$ 27,312
Extraordinary mortgage redemption (G)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Normal mortgage repayments	\$ 56,400	\$ 63,275	\$ 66,738	\$ 68,469	\$ 56,792	\$ 39,000	\$ 39,000	\$ 39,000	\$ 39,000	\$ 28,700	\$ 18,200
HFHA MOU repayment	\$ 12,160	\$ 12,160	\$ 12,117	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Transactions											
Opening balance (total assets - total liabilities)	\$ 802,674	\$ 724,876	\$ 611,671	\$ 499,073	\$ 387,148	\$ 274,054	\$ 158,749	\$ 126,248	\$ 93,117	\$ 60,838	\$ 27,312
Income from fund raising	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other income (membership etc)					\$ 375					\$ 375	
Interest income	\$ 393	\$ 4,946	\$ 5,423	\$ 4,540	\$ 3,438	\$ 1,956	\$ 430	\$ 560	\$ 677	\$ 605	
Part A discount or Part B mortgage income	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Program expenditure (construction & training)	\$ (102,500)	\$ (105,000)	\$ (105,000)	\$ (105,000)	\$ (105,000)	\$ (105,000)	\$ (105,000)	\$ (25,000)	\$ (25,000)	\$ (25,000)	\$ (25,000)
Project management & audit	\$ (5,000)	\$ (5,000)	\$ (5,000)	\$ (5,000)	\$ (5,000)	\$ (5,000)	\$ (5,000)	\$ (1,000)	\$ (1,000)	\$ (1,000)	\$ (1,000)
PHA overheads (Financial audit, QMS	\$ (8,282)	\$ (7,531)	\$ (8,151)	\$ (8,021)	\$ (6,841)	\$ (6,531)	\$ (7,261)	\$ (6,931)	\$ (7,691)	\$ (7,331)	\$ (8,131)
Change to commitment to fund projects from rese	\$ 36,937	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GST Paid	\$ (783)	\$ (97)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing balance	\$ 724,876	\$ 611,671	\$ 499,073	\$ 387,148	\$ 274,054	\$ 158,749	\$ 126,248	\$ 93,117	\$ 60,838	\$ 27,312	

Assumption implicit in the 10-Year Operating Plan and Financial Plan

The 10-Year Operating Plan and Financial Plan assumes:

- 1) Partner Housing Australasia will donate AUD \$ 50,000 p.a. for six years, and then AUD \$ 10,000 p.a. for four years, to the PNG program of community health buildings, classrooms and the like.
- 2) Partner Housing Australasia will donate AUD \$ 50,000 p.a. for six years, and then AUD \$ 10,000 p.a. for four years, to the Solomon Islands program of water reticulation and sanitation.
- 3) Partner Housing Australasia will donate up to AUD \$2,500 per 6 months for airfares and insurance to enable two building industry trainees to attend intensive training in Australia.
- 4) Partner Housing Australasia will fund project management, supervision and site audits (up to 6% of project expenditure) from general reserves. This is reported separately from project expenditure. There is a Partner Housing Australasia policy that this percentage shall not exceed 15%.
- 5) Partner Housing Australasia will strive to obtain additional funding from external sources, from within Australia and from overseas.
- 6) The additional external funding may be donated directly to the Partner Organisations or (preferably) to Partner Housing Australasia.
- 7) If the additional external donations are made directly to Partner Housing Australasia, the responsible Regional Manager may elect to expand the program during the year of the grant, or to maintain the annual expenditure at \$ 50,000 and lengthen the duration of the funded programs.
- 8) If a \$ 50,000 grant or additional external funding is not fully expended in any year, the unspent balance shall remain committed to that particular program, and shall roll-over, thus lengthening the duration of the funded program beyond the period indicated in the budget above.
- 9) The GST liability or credit will approach zero (or near zero) at the end of each financial year.
- 10) The initial high value of overseas commitment will be reduced by drawing the committed funds from the Solomon Islands Account, then drawing from the Overseas Tax Detuctible account until the target balance is achieved, and then drawing from the General Account.
- 11) The Partner Housing Australasia loan to South Ranongga Community Association will be redeemed during the first year using funds that they earn from UNICEF and other external funding bodies.

Risk Analysis

Reference to the Papua New Guinea Strategic Plan and Solomon Islands Strategic Plan

Full details of the Risk Analyses for the PNG and Solomon Islands programs are set out in –

- Vision for Homes Papua New Guinea Inc., Partner Housing Australasia, Quasar Management Services, Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation, for Training and Funding, Design and Construction of Village Community Health Buildings, Classrooms, Houses, Water and Sanitation throughout Papua New Guinea”.
- “Solomons Regional Community Association, Partner Housing Australasia, Quasar Management Services, Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation, for Training and Funding, Design and Construction of Water, Sanitation and Building Infrastructure throughout Solomon Islands Western Province”.

Relationships

Most important are the close personal relationships of the PHA personnel to the people of VFH and SRCA. We have known and worked closely together for well over a decade. PHA personnel invite VFH and SRCA personnel to Australia and accommodate them in their homes. VFH and SRCA personnel reciprocate, inviting PHA personnel to their family occasions. But the real strength of the relationship derives from their regular communications, mutual understanding, empathy and respect for tribal customs and sensitivity to village needs. The people of VFH and PHA are friends ... “family”.

Compliance with DFAT Requirements

This closeness of VFH, SRCA and PHA relationships, and the regular exchange of email correspondence, ensure that PHA is fully informed of all issues regarding sensitive matters, including child protection, sexual misconduct, anti-terrorism, anti-fraud, and all other important code of conduct matters. The close and regular communication also ensures that the partners are equally conversant with these requirements. Through these relationships, the risk of noncompliance is significantly reduced. The PHA directors have known most of these people for well over a decade, working alongside VFH and SRCA during our annual visits. Most important is a mutual trust and disclosure of all problems when they occur. The closeness and honesty of these decade-long relationships and the on-going conversations diminish the need for us to rigorously impose rigid, formal, paternalistic, culturally insensitive “training” programs. Although PHA annually formally audits and monitors VFH performance and practices, these audits are supplemented through regular, honest, frank, mutually-respectful email exchanges. These relationships are instrumental in ensuring VFH and SRCA village-level compliance with the DFAT requirements.

Risk Mitigation

PHA, SRCA and VFH do not claim that the small volunteer profile and decade-long intimate partner relationships warrant relaxation of the DFAT risk assessment requirements. To the contrary, PHA, SRCA and VFH enthusiastically embrace the DFAT requirements, and have a proven and demonstrated track record of fulfilling them. The relatively small PHA volunteer profile and long intimate partner organisation relationships lead to demonstrably diminished risk of noncompliance with the DFAT requirements. The programs that PHA delivers are “design and construction of village infrastructure”, and the policies, procedures and practices (correctly) reflect this. In accordance with sound and proven management principles. PHA (assisted by QMS), SRCA and VFH assess realistic risk, and have tailored the programs, monitoring and review accordingly.

Notwithstanding, the risks are minimised through close monitoring and annual auditing against the requirements of comprehensive policies and procedures, which are available on <https://www.partnerhousing.org/governance> .

When the PHA CEO is required to audit or note compliance, this may be delegated (as appropriate) to the PHA Regional Manager (PNG), or to another manager, who is visiting the region.

Source Material and References

The listed documents provide the source material for the following analysis. These documents cover the organisations as a whole, of which this program is part.

- PHA "Constitution, Policies & Code of Conduct"
- PHA "Consolidated Policies and Procedures"
- PHA individual specific policy documents listed in "Governance" of www.PartnerHousing.org
- VFH "Constitution, Policies & Code of Conduct"
- VFH and PHA "Memorandum of Understanding. Vision for Homes and Partner Housing Australasia (Building) Incorporated, Village Housing, Clinics, Schools and Infrastructure in Papua New Guinea. 1 January 2021 – 31 December 2025"
- PHA & QMS "Human Rights Considerations in South Pacific Village Buildings, Water Reticulation and Sanitation", 16 October 2021, B3.5b P20080801-2
- "Papua New Guinea Demographic and Health Survey 2016-18", Government of Papua New Guinea, National Statistical Office, www.nso.gov.pg/census-surveys/demographic-and-health-survey/
- "Papua New Guinea's Voluntary National Review 2020 – Progress of Implementing the Sustainable Development Goals", 2020
- SRCA and PHA "Memorandum of Understanding. Ranongga Community Association and Partner Housing Australasia (Building) Incorporated, Village Water Supply, Sanitation, Buildings and Infrastructure in Solomon Islands. 1 January 2021 – 31 December 2025"
- PHA & QMS "Human Rights Considerations in South Pacific Village Buildings, Water Reticulation and Sanitation".
- McDougall, D., "Religious Institutions as Alternative Structures in Post-Conflict Solomon Islands? Cases From Western Province", 2008/5, Research School of Pacific and Asian Studies, State Society and Governance in Melanesia.
- Save the Children, "Solomon Islands Non-Government Organisations' Alternative Report on the Combined Second and Third Periodic Reports of Solomon Islands to the United Nations Committee on the Rights of the Child", December 2017
- Dureau, C., "Skulls, Mana and Causality", *University of Auckland*, The Journal of the Polynesian Society, Volume 109 2000 > Volume 109, No. 1, p 71-98
- "Solomon Islands Demographic and Health Survey 2015", Final Report

Auditing, Inspection and Consultation

Within the travel limitations imposed by COVID19, PHA audits the activities annually, inspecting projects and consulting widely with the SRCA and VFH personnel.

Methodology

Based on the documentation, annual audits, and other publicly available data, the following are determined.

"Likelihood" is an index of relative probability that an event will occur, estimated on a scale of 0 to 10. These are indices, not absolute probabilities.

0 means a relatively negligible probability of occurrence, when compared to the other considerations

5 means an average probability of occurrence, when compared to the other considerations

10 means relatively high probability of occurrence, when compared to the other considerations.

"Consequence" is an index of severity of an event, if it occurs, estimated on a scale of 0 to 10. These are indices, not absolute probabilities.

0 means no consequence

5 means moderate consequence

10 means severe consequence.

"Risk Rating" is the product of "Likelihood" and "Consequence". Although it is possible for a "Risk Rating" to be as high as 100, most are in the order of 0 to 20.

"Mitigation" is the action undertaken jointly by PHA and VFH to minimise the risks to the organisations and other stakeholders. Those considerations with the highest "Risk Rating" represent the greatest relative risk to the business or to the people, and will be given the greatest priority in undertaking risk mitigation practices. This is sound business practice.

Programs

The risks analysed herein is the risk to either PHA or QMS represented by these programs.

The risk analyses do not deal with the risk presented to either organisation as a result of other programs.

- Program: Papua New Guinea Village Buildings

Scope:

PHA – Fund the design and construction of Papua New Guinea village community health buildings, schools, government housing, and other community buildings.

PHA & QMS – Provide auditing and training programs on behalf of VFH.

- Program: Solomon Islands Water Reticulation and Sanitation

Scope:

PHA Fund, design and construct Solomon Islands village water reticulation and sanitation and provide training.

PHA & QMS – Provide auditing and training programs on behalf of SRCA.

Business Risk Analysis

Financial loss

Hypothetically, PHA could suffer financial loss through funding projects that do not proceed or are partially implemented; fraud; or funding that does not eventuate; or litigation through failure to correctly execute the projects. There have been no previous instances of financial loss.

"Likelihood" = 1

"Consequence" = 2

"Risk Rating" = 2

"Mitigation"

PHA, SRCA and VFH rigorously adhere to the documented policies and procedures and administer financial controls.

PHA rigorously adheres to the policies and procedures, including those requiring at least two Directors to approve payments and two Directors to authorize banking transactions.

PHA engages an Independent Auditor (See Accounting) to carry out an annual independent audit.

PHA declares program details during the annual independent audit.

PHA carries out an annual management audit of VFH and provides accounting assistance.

The PHA, SRCA and VFH Directors involved in financial transactions participate in Anti-fraud Training.

Litigation targeting the Organisations

Hypothetically, PHA could be sued through failure to correctly execute projects. There have been no previous instances of litigation against the organisations.

"Likelihood" = 1

"Consequence" = 2

"Risk Rating" = 2

"Mitigation"

PHA, SRCA and VFH rigorously adhere to financial and governance controls in the documented policies and procedures.

Individual programs rarely exceed AUD 50,000 per year, and undertakings are very modest, thus minimising risk of exposure to litigation.

PHA declares program details during the Independent Audit.

PHA carries out an annual management audit of SRCA and VFH.

PHA briefs an independent Solicitor (GRG Lawyers) when there is any apparent potential for litigation.

Litigation targeting the Directors

Hypothetically, the Directors of PHA could be sued through failure to correctly execute their responsibilities. There have been no previous instances of litigation targeting the Directors.

"Likelihood" = 1

"Consequence" = 2

"Risk Rating" = 2

"Mitigation"

PHA closely monitors and audits programs, through its subsidiary QMS, which has appropriate Professional Indemnity Insurance. PHA shall continue to maintain Directors Insurance. SRCA and VFH shall continue to follow the professional advice by QMS.

The PHA Board rigorously adheres to financial and governance controls and has Directors Insurance. The SRCA and VFH Boards are advised by QMS, with appropriate Professional Indemnity Insurance.

PHA briefs an independent Solicitor (GRG Lawyers) when there is an apparent potential for litigation.

Litigation related to design

Hypothetically, PHA could be sued in relation to design errors or deficiencies in other technical activities (such as training and technical audits). There have been no previous instances of litigation related to design.

"Likelihood" = 1

"Consequence" = 2

"Risk Rating" = 2

"Mitigation"

All designs and technical inputs are carried out by professional engineering or architectural consulting firms with appropriate Professional Indemnity Insurance, including –

Quasar Management Services Pty Limited (QMS), a wholly owned subsidiary of PHA; or

Other professional consulting firms.

Failure to complete all stages of the project within the committed time frame

PHA could be sued in relation to failure to complete all stages of the program within the committed time frame, resulting in a delay to the stakeholders and beneficiaries. This risk would only manifest in the case of programs funded by third party donors.

However, all programs are closely monitored by the PHA Regional Manager, and progress is communicated (at least quarterly) to the PHA Board.

There have been no previous instances of failure to complete all stages of the project within the committed time frame, beyond reasonable delays common in the industry.

"Likelihood" = 3

"Consequence" = 2

"Risk Rating" = 6

"Mitigation" The PHA Regional Manager shall maintain close control of materials supply and overall performance. The VFH Manager shall control and monitor all construction.

Failure to meet the technical brief for the structures

The technical consultants (QMS servicing PHA and VFH) could fail to meet the technical brief for the infrastructure (water or sanitation installations) or buildings, resulting in disfunction of the built infrastructures and risk to the stakeholders and beneficiaries.

There have been no previous instances of failure to meet the technical brief for the structures or infrastructure constructed.

"Likelihood" = 1

"Consequence" = 2

"Risk Rating" = 2

"Mitigation"

All programs are closely monitored by the PHA Regional Manager, and progress is communicated (at least quarterly) to the PHA Board.

The principals and staff of the technical consultants (QMS) are appropriately qualified and very experienced professional engineers, architects and/or builders.

The PHA Regional Managers reviews the efficacy of infrastructure designs.

Failure to carry out the works within the agreed budget

Hypothetically, PHA could fail to carry out the works within an agreed budget, resulting in loss to the Organisations and subsequent reduction in future service.

However, grants from donors are made on the basis that they are “contribution” towards the overall “rolling” construction program.

The budget is an estimate of annual expenditure, rather than a contract to execute particular services or construct particular structures for a fixed price.

While works are sometimes (rarely) more expensive than expected, there have been no previous instances of “failure” to adhere to the budget.

“Likelihood” = 3

“Consequence” = 2

“Risk Rating” = 6

“Mitigation”

The 10-Year Financial Plan (incorporating the annual budgets for particular programs) is presented to and approved at each December Annual General Meeting.

Acquittals of expenditure against specific grants and donations are prepared.

The PHA Regional Managers (on behalf of the SRCA and VFH Managers) closely monitor the expenditure.

The PHA CEO, Finance Manager and Regional Managers adhere to the documented policies and procedures, seeking approvals for expenditure and reporting quarterly to the PHA Board.

Humanitarian Risk Analysis

Background

The Humanitarian Risks analysed herein are the risks to PHA (including QMS, which is a wholly-owned subsidiary) or VFH represented by this program.

It does not deal with the risk presented to these organisations as a result of other programs.

Policy

PHA operates two principal program streams –

- a) Practical design and construction of particular South Pacific village buildings, water and sanitation infrastructure, and training; and
- b) High level research and advice to government agencies (and similar) relating to design standards and regulations for village buildings, water and sanitation infrastructure.
- c) To ensure that both streams are informed by human rights considerations (including [but not limited to] gender, disability, and health issues) PHA conducts an on-going research program, augmented by regular site observations and discussions with Partner Organisations. The on-going research program includes the following elements –
- d) Human Rights Issues – Definition of the issues relevant to PHA South Pacific village programs;
- e) Population Statistics – Collection and analysis of available gender, disability, health and other statistics for each country serviced by PHA.
- f) Building Regulations – Collection and analysis of building regulations (including those that relate to gender, disability, health and other human rights provisions) for each country serviced by PHA.
- g) Collaborative Research - Partnerships with one or more Australian university, to research building practices (including consideration of human rights in village building).
- h) Design Outcomes – Description of various design options resulting from the previous part of this research program.
- i) PHA – Analysis of PHA’s activities in the context of the human rights criteria and other key policies of the organisation.
- j) In-country monitoring of Human Rights – PHA conducts on-going in-country monitoring to detect any obvious breaches of human rights.

Racial or ethnic discrimination

Most of the residents of Solomon Islands Western Province and Papua New Guinea Western Province villages are ethnically Melanesian with strong tribal wantok affiliations. Public buildings, water reticulation stand pipes, latrines and toilets are for use by all people, irrespective of race or ethnicity, and are consistent with the culture of all potential users. There have been no previous instances of racial or ethnic discrimination.

"Likelihood" = 1

"Consequence" = 3

"Risk Rating" = 3

"Mitigation" The PHA CEO shall audit and review policies, and (during site visits) note that there are no racial or ethnic restrictions placed on the use of village community buildings and infrastructure.

Religious or caste discrimination

Solomon Islands Western Province and Papua New Guinea Western Province historically had a strong clan system, which is now overlaid by affiliation to several mainstream Christian denominations and local adaptations. There is widespread respect for the authority of religious leaders, but there is no institutionalised caste system.

Public buildings incorporating bathrooms, toilets, latrines and/or standpipes are for use by all people, irrespective of religion or caste. The designs of village buildings reflect current cultural norms of the local villages.

There have been no previous instances of religious or cast discrimination.

"Likelihood" = 1

"Consequence" = 3

"Risk Rating" = 3

"Mitigation" The PHA CEO shall audit and review policies, and (during site visits) note that there are no religious restrictions placed on the use of village community buildings and infrastructure.

Gender, gender identity, sexuality, sexual orientation

Public buildings incorporating bathrooms, toilets, latrines and/or standpipes are for use by all people, irrespective of gender, gender identity, sexuality or sexual orientation, and reflect the culture of users.

Bathrooms and toilets within buildings are fully enclosed with doors and locks that facilitate privacy.

There have been no previous instances of failure to provide for diversity due to gender, gender identity, sexuality, or sexual orientation.

"Likelihood" = 1

"Consequence" = 3

"Risk Rating" = 3

"Mitigation" The PHA CEO shall audit and review policies, including the suitability of various designs of community buildings and infrastructure. During site visits, the PHA CEO shall note that there are no restrictions placed on the use of village community buildings and infrastructure in respect of gender, gender identity, sexuality, sexual orientation.

Poverty, class or socio-economic status

Public buildings incorporating bathrooms, toilets, latrines and/or standpipes are for use by all people, irrespective of poverty, class or socio-economic status.

The designs of village buildings reflect current cultural norms of the local villages.

There have been no previous instances of discrimination due to poverty, class or socio-economic status.

"Likelihood" = 0

"Consequence" = 3

"Risk Rating" = 0

"Mitigation" During site visits, the PHA CEO shall note that there are no restrictions placed on the use of village community buildings and infrastructure in respect of poverty, class or socio-economic status.

Genocide

PHA, SRCA and VFH do not tolerate genocide.

Although there is endemic tribal warfare and violence, there is no reported genocide or violence where PHA, SRCA and VFH.

"Likelihood" = 0

"Consequence" = 10

"Risk Rating" = 0

"Mitigation" During site visits, the PHA CEO shall note that there no instances of genocide or clan violence. Any instance of these shall be reported immediately to the authorities.

Torture and cruelty

PHA, SRCA and VFH do not tolerate torture or cruelty.

Although there is endemic tribal warfare and violence, there is no reported torture or cruelty in the region. See reference in "Genocide" section.

"Likelihood" = 0

"Consequence" = 10

"Risk Rating" = 0

"Mitigation" During site visits, the PHA CEO shall note that there are no instances of torture or cruelty. Any instance of these shall be reported immediately to the authorities.

Statelessness

PHA and VFH are compassionate to stateless people.

There are no reported stateless people in the region.

"Likelihood" = 0

"Consequence" = 8

"Risk Rating" = 0

"Mitigation" During site visits, the PHA CEO shall note that there no stateless people in the communities. If stateless people are encountered, this shall be reported immediately to the authorities.

Refugees

PHA, SRCA and VFH are compassionate to refugees.

There are no reported refugees in the region.

"Likelihood" = 0

"Consequence" = 8

"Risk Rating" = 0

"Mitigation" During site visits, the PHA CEO shall note that there are no refugees in the communities. If refugees are encountered, this shall be reported immediately to the authorities.

Slavery

PHA, SRCA and VFH do not tolerate slavery.

There is no reported slavery in the region. This is notwithstanding some probable instances of exploitation in other applications.

"Likelihood" = 0

"Consequence" = 10

"Risk Rating" = 0

"Mitigation" During site visits, the PHA CEO shall note that there is no slavery being practiced in the communities. If slavery is encountered, this shall be reported immediately to the authorities.

Women's rights and discrimination against women

PHA and VFH adopt policies that ensure that the infrastructure constructed respect women's rights and does not become means of discriminating against women. In PNG Highlands villages, community health buildings, education buildings and other community buildings are for use by all people, including women. In particular, the community health buildings include facilities that promote prenatal and postnatal care. Toilets constructed by PHA and VFH are fully enclosed for privacy.

There have been no previous instances of discrimination against women.

"Likelihood" = 2

"Consequence" = 7

"Risk Rating" = 14

"Mitigation" The PHA CEO shall audit and review policies, including the suitability of various designs of community buildings and infrastructure for use by women. During site visits, the PHA CEO shall note that there is no discrimination against women.

Disabilities

In PNG Western Highlands Western Province and Solomon Islands Western Province, the remote rural village paths serviced by PHA, SRCA and VFH are unpaved and are often very steep. This precludes the use of wheelchairs for people with mobility disabilities. It is not possible to instal tactile indicators for people with sight impairment. There is no electricity distribution, so there is no possibility for enhance lighting of public places. These limitations mean that people with a mobility disability or sight impairment must be assisted to community buildings and infrastructure.

The design specifications provided to PHA, QMS and VFH by WHPHA specifically decline the offer of ramps.

Provision of paved paths and the installation a public electricity system (necessary to improve the suitability for wheelchairs, tactile indicators and enhanced lighting) are beyond the scope and financial resources of the PHA, SRCA and VFH program.

There have been no previous complaints of failure to provide for people with disabilities.

"Likelihood" = 3

"Consequence" = 5

"Risk Rating" = 15

"Mitigation" The PHA CEO shall audit and review policies, including the suitability of various designs of community buildings and infrastructure for people with disabilities.

During site visits, the PHA CEO shall note that there is no discrimination against people with disabilities.

Child Protection

PHA, SRCA and VFH are committed to ensuring that there is no risk to children, including risks related to images and sex exploitation. Bathrooms and toilets within buildings are fully enclosed with doors and locks that facilitate privacy. The designs of village buildings reflect current cultural norms of the local villages.

PHA directors have known most of the SRCA and VFH board members for well over a decade, working alongside them during our annual visits. The VFH and SRCA personnel trust PHA sufficiently to disclose to PHA problems when they occur. The closeness of these decade-long relationships and the on-going regular, honest, frank, mutually-respectful email exchanges, reduce the risk of important issues, including Child Protection, going unreported.

The programs PHA, SRCA and VFH deliver are "design and construction of building and infrastructure". Social interactions with ordinary village residents are therefore (necessarily) minimal, thus further diminishing the risk of child protection nonconformance.

PHA has a verifiable track record in effectively dealing with a Child Protection issue, which occurred in Obobulu (in Solomon Islands), to the satisfaction of DFAT. The swift response by PHA (and its Solomon Islands partner, SRCA), the ongoing dialogue with DFAT, and the close-out after the DFAT-agreed period of rehabilitation and monitoring provides ample evidence that the policies are clear and comprehensive, and reflect that the policies and procedures are effective to the satisfaction of DFAT. This incident and the correspondence with DFAT are available in the PHA records.

"Likelihood" = 2

"Consequence" = 10

"Risk Rating" = 20

"Mitigation" The PHA Regional Manager or CEO shall provide ongoing training to VFH personnel. The annual audit shall pay particular attention to Child Protection issues, reporting any concerns immediately to the PHA Board and VFH Board.

All of the Child Protection policies and procedures (including those relating to photography and images) shall be monitored and adhered to rigorously.

Child Rights

PHA, SRCA and VFH are committed to ensuring that children are afforded their due rights as recognised internationally and in the policies and procedures.

There have been no previous instances of, or complaints of, breaching child rights.

"Likelihood" = 2

"Consequence" = 10

"Risk Rating" = 20

"Mitigation" The PHA Regional Manager shall –
Carry out those mitigation strategies related to Child Protection in accordance with the policies and procedures, including those related to photography and images,
Ensure that toilets and bathrooms are safely accessible to children.
Monitor the designs against the policy, and ensuring that they comply with government regulations.

Worker health & safety

The PHA "Consolidated Policies and Procedures" detail the health and safety risks to personnel. The most prevalent risks to PHA, SRCA and VFH personnel are listed below.

- Travel by motor boat or motorized canoe across unprotected waters and open sea exposes risk of boats capsizing, being swamped in rough weather, or suffering engine failure considerable distance from land.
- When walking in the water or close to the shore, coral cuts may occur and become infected, resulting in very severe inflammation and cellulitis.
- Travel by motor vehicle on poorly constructed roads, where oncoming traffic is often travelling at high speed.
- Walking or climbing on slippery wet slopes (such as steep wet grassy clay surfaces) leads to risk of slip and broken limbs.
- Exposure to tribal violence or banditry.
- Malaria and dengue fever.
- COVID19 infection.

"Likelihood" = 2

"Consequence" = 8

"Risk Rating" = 16

"Mitigation"

Personnel observe the precautions in the policy documents, including the following –
Wear seatbelts in motor vehicles.

Ensure that life jackets are accessible (and worn in rough weather) and that boats have paddles.

Move slowly and deliberately on slippery surfaces using a stout walking stick if necessary. If a slip occurs, hold arms close to the body to avoid wrist or arm injury.

Protect from mosquito bites leading to malaria and dengue fever, and use anti-malaria medication.

Adhere to government regulations regarding minimising COVID19 infection, including maximising vaccinations and (where appropriate) mask wearing.

Adhere to the site safety aspects of the policy and procedures.

Privacy

PHA, SRCA and VFH are committed to ensuring that all people are afforded privacy. This extends to both adults and children, and includes privacy of confidential information and of photographs and images.

The current PHA Child Protection policy states (in part) –

PHA shall not include images featuring children in any documents or on the website.

PHA shall only include photographs in documents or on the website of adults who have signed the Photo Release Form. Copies of signed forms shall be retained in the permanent records of the HR Manager, the CEO and the Communications Manager.....

There is a separate comprehensive Privacy Policy.

Strict adherence to these policies significantly reduces the risk of breaching privacy.

There have been no previous instances of, or complaints of, breaching privacy.

"Likelihood" = 1

"Consequence" = 3

"Risk Rating" = 3

"Mitigation" The PHA CEO, Communications Manager and Regional Manager shall jointly minimise risk of private information being exposed as a result of PHA activities, by strict adherence to the policies and procedures.

In particular ensure that web posts, articles in the Annual Report and similar documents maintain privacy, do not publish personal information, do not feature images of children and only use images of people from whom written permission has been obtained.

Anti-terrorism, anti-fraud and anti-money-laundering

PHA, SRCA and VFH are committed to ensuring that they are not complicit in terrorism, fraud or anti-money-laundering, by ensuring that (a) funds are used strictly for the intended purpose, and (b) people proscribed on the DFAT website are not engaged as volunteers or contractors. The PHA, SRCA and VFH managers are experienced and ethical professionals, with many years in project management, particularly in the building industry. PHA has taken a practical and pragmatic approach to eliminating the possibility of fraud. PHA consultants design and cost each building and infrastructure scheme in detail and prepare the Bills of Quantities. Site inspections and photographic evidence demonstrate that the materials have been delivered and installed, and provide confidence that funds are not diverted to terrorism, and that there is no fraud. PHA accounts (including donations to SRCA and VFH) are externally audited by a qualified independent auditor. PHA has a rigorous approval mechanism to prevent fraud. These mechanisms are fully described in the procedures and are inspected during the annual external independent audit.

Although there is endemic tribal warfare and violence in PNG and parts of Solomon Islands, there is no reported terrorism in the region. There have been no previous complaints or breaches of the anti-terrorism, anti-fraud or anti-money-laundering provisions. PHA has a track record of implementing the anti-money-laundering policies and procedures.

"Likelihood" = 1

"Consequence" = 10

"Risk Rating" = 10

"Mitigation" The PHA CEO, Finance Manager and Regional Manager shall minimise risk of facilitating terrorism, money laundering or fraud, by rigorously adhering to the financial control procedures. The PHA CEO shall monitor the DFAT proscribed persons spreadsheet and website.

Complaints Handling

PHA has a clearly defined Complaints Handling policy and procedure. The PHA website provides a link to facilitate the making of complaints by the public. <https://www.partnerhousing.org/governance>

PHA has received no previous complaints.

SRCA and VFH also have documented Complaints policies. VFH has received no previous complaints. SRCA has received only one complaint, and this was concerning the behaviour of a contractor. It was dealt with promptly by SRCA and PHA in accordance with the policy and procedures. Records are maintained and are available.

Records are maintained and are available.

"Likelihood" = 2

"Consequence" = 3

"Risk Rating" = 6

"Mitigation" The PHA CEO shall ensure that complaints are properly considered in accordance with the policies and procedures, including taking the appropriate remedial and corrective action.

The SRCA and VFH Managers shall ensure that local complaints are properly considered in accordance with policies and procedures, including reporting them to PHA, taking the appropriate remedial and corrective action, including actions recommended by PHA.

Non-development Activity

PHA, SRCA and VFH have clear policies ensuring that non-development activity (as defined in the policies) is not to be performed when volunteers and contractors are acting on behalf of PHA and VFH respectively.

PHA provides instruction to volunteers and contractors on the non-development activity policy, and maintains a register of Declaration of Interests, which is reviewed at each quarterly Board meeting.

There have been no previous instances of non-development activity being undertaken by PHA volunteer or SRCA or VFH contractors.

"Likelihood" = 2

"Consequence" = 2

"Risk Rating" = 4

"Mitigation" The PHA CEO shall ensure that non-development activity is not undertaken during the project execution. This shall be achieved by –

Providing instruction to volunteers and contractors on the non-development activity policy;

Maintaining a register of Declaration of Interests, which shall be reviewed at each quarterly board meeting.

Bullying, Sexual Harassment & Misconduct

PHA has a clearly defined bullying, sexual harassment and misconduct policy and procedure. The PHA website provides a link to facilitate the making of complaints by the public, including those that might relate to bullying, sexual harassment or misconduct. PHA has received no previous complaints or notifications of bullying, sexual harassment or misconduct.

SRCA and VFH also have documented bullying, sexual harassment and misconduct policies. VFH has received no complaints. SRCA has received only one complaint of sexual misconduct, and this was concerning the behaviour of a contractor. It was dealt with promptly by SRCA and PHA in accordance with the policy and procedure. It was found not to be a breach of any DFAT requirement, although it was determined to be incompatible with the values of both SRCA and PHA. Records are maintained and are available.

"Likelihood" = 2

"Consequence" = 5

"Risk Rating" = 10

"Mitigation" The PHA CEO shall ensure that there is no bullying, sexual harassment or misconduct, and investigate complaints and take action. All complaints shall be properly considered in accordance with policies and procedures, including taking the appropriate remedial and corrective action.

The SRCA and VFH Managers shall ensure that there is no bullying, sexual harassment or misconduct, and investigate complaints and take action. All complaints shall be properly considered in accordance with policies and procedures, including taking the appropriate remedial and corrective action, including actions recommended by PHA.

Whistleblowing

PHA, SRCA and VFH are committed to transparency. PHA, SRCA and VFH have clearly defined Whistleblowing policies and procedures. PHA and SRCA have not been subject to previous instances of whistleblowing.

"Likelihood" = 1

"Consequence" = 2

"Risk Rating" = 2

"Mitigation" The PHA CEO shall ensure that (subject to the preservation of privacy of individuals) –

- the activities of the organisation are properly and fully documented and recorded;
- that all documents are available for scrutiny if a genuine request is made; and
- the whistleblowing policies and procedures are properly followed if a whistleblowing request is received.

The SRCA and VFH Managers shall ensure that (subject to preservation of privacy of individuals) –

- the whistleblowing policies and procedures are properly followed if a whistleblowing request is received; and
- the matter is referred to PHA for assistance.

Program Monitoring

Partner Housing Australasia Commenced: 15/6/18 Updated: 1/1/23

Project	Improved cyclone, earthquake and tsunami resistance of village buildings				
Objective	Partner Housing Australasia's Objectives include: " to transform the lives of people living in Asia-Pacific villages by improving the cyclone, earthquake and tsunami resistance of their houses, clinics, schools and community buildings"				
Description of the project and its stages	<ol style="list-style-type: none"> 1. Identify and document instances of persistent structural collapse of village houses, clinics, school and community buildings when subjected to cyclones, earthquakes and/or tsunamis. Plan a strategy for the systematic improvement of current building design and construction practices. Develop, test, document and promote an improved building system (e.g. DANCER Building System) in collaboration with universities and other organisations. 2. Facilitate one of more pilot programs of constructing DANCER buildings in South Pacific villages in collaboration with local partners to prove the technical aspects of the system. 3. Facilitate one of more large programs of constructing DANCER buildings in South Pacific countries in collaboration with local partners. This will be based on the establishment and operation of not-for-profit village cooperatives operating fabrication and building businesses, concentrating on the production and construction of DANCER buildings. 4. Facilitate reform of the regulations and supporting material (handbooks etc.) governing South Pacific village buildings by working with agencies such as DFAT and Standards Australia. 5. Facilitate the training of village builders in improved practices by providing training packages, handbooks, tools, templates and the like. 				
Stage	1	2	3	4	5
Stage description	Development	Pilot programs	Scaling-up	Regulation	Education
Stage objective	Program design	Build DANCER in villages	DANCER cooperatives	Change Codes & Standards	Training packs & handbooks
Country	Australia	PNG	PNG		South Pacific
Partner	Vision for Homes	Vision for Homes	Vision for Homes		Nil
Location	Australia	Mt Hagen, PNG	PNG		Internet
Duration period	2010-2018	2010-2018	2019-2029		2007-2027
No of years	8 years	8 years	10 years		20 years
% Complete	100%	100%	33%		90%
Effectiveness		100% although steep learning process			Handbooks in use now.
Country	As above	Fiji			
Partner	As above	Habitat for Humanity Fiji			
Location	As above	Viti Levu			
Duration period	As above	2017-2021			
No of years	As above	4 years			
% Complete	As above	56%			
Effectiveness	As above	Program discontinued DANCER not in use.			

Project	Improved village water and sanitation				
Objective	Partner Housing Australasia's Objectives include: " to transform the lives of people living in Asia-Pacific villages by providing clean water supplies and hygienic sanitation...."				
Description of the project and its stages	<ol style="list-style-type: none"> 1. Identify and document instances of persistent failures or shortages of village water and sanitation systems, particularly through poor maintenance. Plan a strategy for the systematic improvement of current practices. Develop, document and promote an improved water and sanitation installations and components. 2. Facilitate one of more pilot programs of constructing improved water and sanitation systems in South Pacific villages in collaboration with local partners to prove the technical aspects of the system. 3. Facilitate one of more large programs of constructing improved water and sanitation systems in South Pacific villages in collaboration with local partners. This will be based on the establishment and operation of not-for-profit village cooperatives operating fabrication and installation businesses. 4. Facilitate reform of the regulations and supporting material (handbooks etc.) governing South Pacific village buildings by working with agencies such as DFAT and Standards Australia. 5. Facilitate the training of village installers in improved practices by providing training packages, handbooks, tools, templates and the like. 				
Stage	1	2	3	4	5
Stage description	Development	Pilot programs	Scaling-up	Regulation	Education
Stage objective	Program design	Build WASH in villages	WASH cooperatives	Change Codes & Standards	Training packs & handbooks
Country	Australia	Solomon Islands	Solomon Islands		South Pacific
Partner	South Ranongga Community Association	South Ranongga Community Association	South Ranongga Community Association		Nil
Location	Australia	Ranongga	Western Province		Internet
Duration period	2013-2018	2013-2018	2019-2029		2007-2027
No of years	5 years	5 years	10 years		20 years
% Complete	100%	100%	33%		90%
Effectiveness	90% some maintenance issues	90% although steep learning process and maintenance issues			Handbooks in use now.
Country	Australia				
Partner	University of Sydney				
Location	Sydney				
Duration period	2019-2024				
No of years	5 years				
% Complete	100%	100%	60%		
Effectiveness	MOU Agreed	Sydney Uni very happy with Partner Housing Australasia pilot tutoring	Sydney Uni very happy with Partner Housing Australasia tutoring		

Program Evaluation of Papua New Guinea and Solomon Islands Programs

Scope

This program evaluation provides an overview of the effectiveness of the principal Partner Housing Australasia village building construction programs in Papua New Guinea and water reticulation and sanitation infrastructure in Solomon Islands in achieving the stated objectives.

Australian Strategic Context

Partner Housing Australasia is the only Australian engineering/building NGO working to strengthen the built infrastructure and civil society in both the strategic Solomon Islands Western Province and the New Guinea Western Highlands. The closeness of our relationship to the people in these two regions should be a major consideration in appraising the effectiveness of our programs.

Extent of the Partner Housing Australasia Programs

Since 2005, Partner Housing Australasia directors and volunteers (building industry professionals at the peak of their professional careers) have helped our South Pacific neighbours, giving freely of their time, money and skills. Over this seventeen-year period, this wholly volunteer organisation (with no paid staff) has contributed to the funding, design and construction of –

- three village community health buildings,
- several school buildings,
- village housing,
- government housing,
- over a dozen village water reticulation schemes, and
- approximately 300 village latrines (including Philippines).

All have been constructed at the request of village communities and/or government organisations (such as the health authorities). This work is additional to –

- previous funding/building programs in Fiji, Cook Islands and Philippines, and
- technical assistance in multiple other countries across the Asia-Pacific region.

Relationships

Most important to Australia are our close personal relationships with the people of our partner organisations. We have known and worked closely with our partners for well over a decade. We invite them to Australia and we accommodate them in our homes. And they reciprocate, inviting us to their weddings and to ceremonies honouring their deceased village leaders. There are children named in honour of our volunteers. We sleep on the floors of their huts, we shower at their communal standpipes, and we share their pit latrines. We travel in their dug-out canoes, and we struggle with them over almost impassable bush tracks. Despite all precautions, our volunteers suffer broken bones, coral-cut infections and tropical fevers. Together we have to avoid local tribal violence, and we shelter during earthquakes. But the real strength of our relationship derives from our regular communications, mutual understanding, empathy and respect for tribal customs and our sensitivity to village needs. These people are our friends, our “brothers” and our “sisters”.

Compliance with DFAT Requirements

This closeness of our relationships with our village partners, and the regular exchange of email correspondence, ensure that Partner Housing Australasia is fully informed of all issues regarding sensitive matters, including child protection, sexual misconduct, anti-terrorism, anti-fraud, and all other important code of conduct matters. The close and regular communication also ensures that our partners are equally conversant with these requirements. Through these relationships, the risk of noncompliance is significantly reduced. The South Ranongga Community Association has four board members and (at various times) up to four contractors. Vision for Homes (PNG) has seven board members and (at various times) up to a maximum of ten employees. The Partner Housing Australasia directors have known most of these people for well over a decade, working alongside them during our annual visits. We know them, they know us, and (most important) they trust us sufficiently to disclose to us all problems when they occur. The closeness and honesty of these decade-long relationships and the on-going conversations diminish the need for us to rigorously impose rigid, formal, paternalistic, culturally insensitive “training” programs. Although Partner Housing Australasia annually formally audits and monitors the partner organisations’ performance and practices, these audits are supplemented through regular, honest, frank, mutually-respectful email exchanges and text conversations. These relationships are instrumental in ensuring PNG and Solomon Islands village-level compliance with the DFAT requirements.

Risk Assessment

Partner Housing Australasia does not claim that our small volunteer profile and decade-long intimate partner relationships warrant relaxation of the DFAT risk assessment requirements. To the contrary, Partner Housing Australasia enthusiastically embraces the DFAT requirements, and has a proven and demonstrated track record of fulfilling them. The relatively small Partner Housing Australasia volunteer profile and decade-long intimate partner organisation relationships lead to demonstrably diminished risk of noncompliance with the DFAT requirements. The programs that Partner Housing Australasia delivers are “design and construction of building and infrastructure”, and our policies, procedures and practices (correctly) reflect this. In accordance with sound and proven management principles, Partner Housing Australasia assesses realistic risk, and has tailored our program, monitoring and review accordingly.

Benefit / Cost Considerations

Partner Housing Australasia and our partners are not high-overhead, large, city-based NGOs, whose administration devour large quantities of government funding. The Partner Housing Australasia documentation reflects our low-overhead hands-on volunteer professional organisation, and this is what makes it both relevant and effective. Never-the-less, we effectively comply fully with the child protection, anti-terrorism, anti-fraud, training, risk analysis and other ACFID and DFAT code of conduct requirements. Partner Housing Australasia’s very low overheads (less than AUD \$ 10,000 per year) are paid from existing reserves, so that 100% of any donations are spent directly on materials and/or in-country labour for the PNG or Solomon Islands projects.

Evaluation

Full details of the Evaluations for the PNG and Solomon Islands programs are set out in –

- Vision for Homes Papua New Guinea Inc., Partner Housing Australasia, Quasar Management Services, Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation, for Training and Funding, Design and Construction of Village Community Health Buildings, Classrooms, Houses, Water and Sanitation throughout Papua New Guinea”.
- “Solomons Regional Community Association, Partner Housing Australasia, Quasar Management Services, Strategic Plan, Needs, Program, Risk Analysis, Sustainability, Monitoring and Evaluation, for Training and Funding, Design and Construction of Water, Sanitation and Building Infrastructure throughout Solomon Islands Western Province”.

The evaluation conclusions of these programs leads the following conclusions –

1. The people living in villages in the regions, in which Partner Housing Australasia and its partners serve, benefit directly from the programs.
2. Given the very high probono professional services contributions by Partner Housing Australasia volunteers, the benefit greatly exceeds that cost.
3. Partner Housing Australasia remains committed to continuing and extending these programs as long as funding permits.
4. The current programs would be greatly enhanced by the provision of reliable ongoing grant funding for these programs.
5. Australia, PNG and Solomon Islands would all benefit significantly if Partner Housing Australasia and/or its partners were to receive such reliable ongoing grant funding.

Appendix 1 – Improving Cyclone, Earthquake & Tsunami Resilience of Village Buildings

Scope

Partner Housing Australasia specialises in providing pro-bono professional services to Partner Organisations, other NGOs and government instrumentalities of developing countries in the Asia-Pacific region.

Our aim is to improve the safety and effectiveness of housing and village infrastructure, by offering and coordinating the pro-bono services of highly qualified and experienced professional consulting structural engineers and architects.

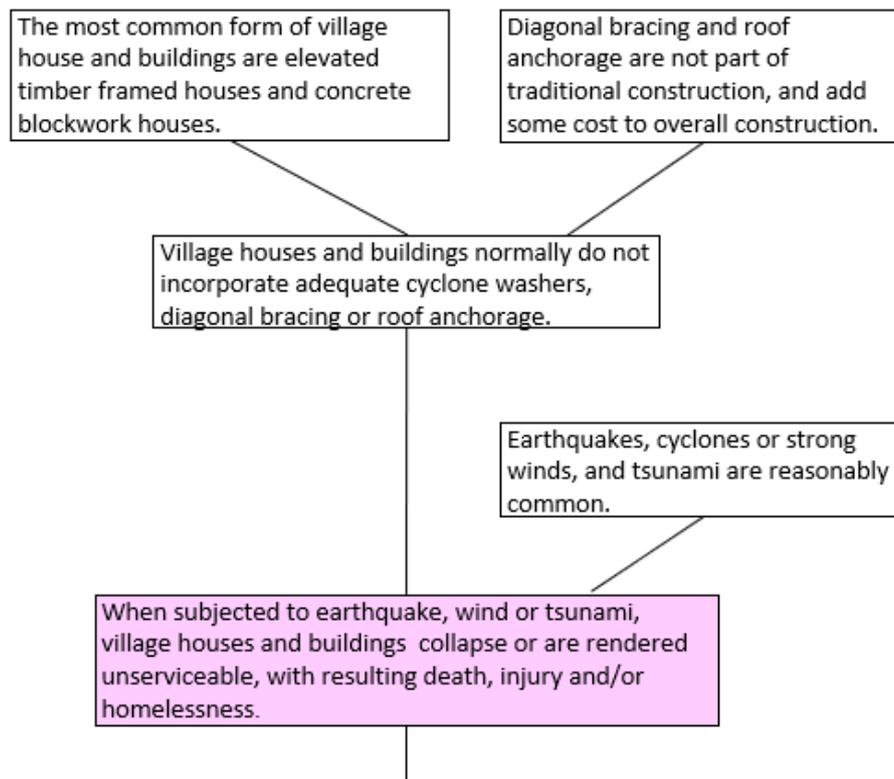
In particular, we offer pro-bono design services, documentation, project management, supervision and funding of some key materials, to other organisations involved in the construction of housing and village buildings and other village infrastructure.

It is particularly suited to rebuilding in the wake of damage caused by cyclones, earthquakes and tsunamis.

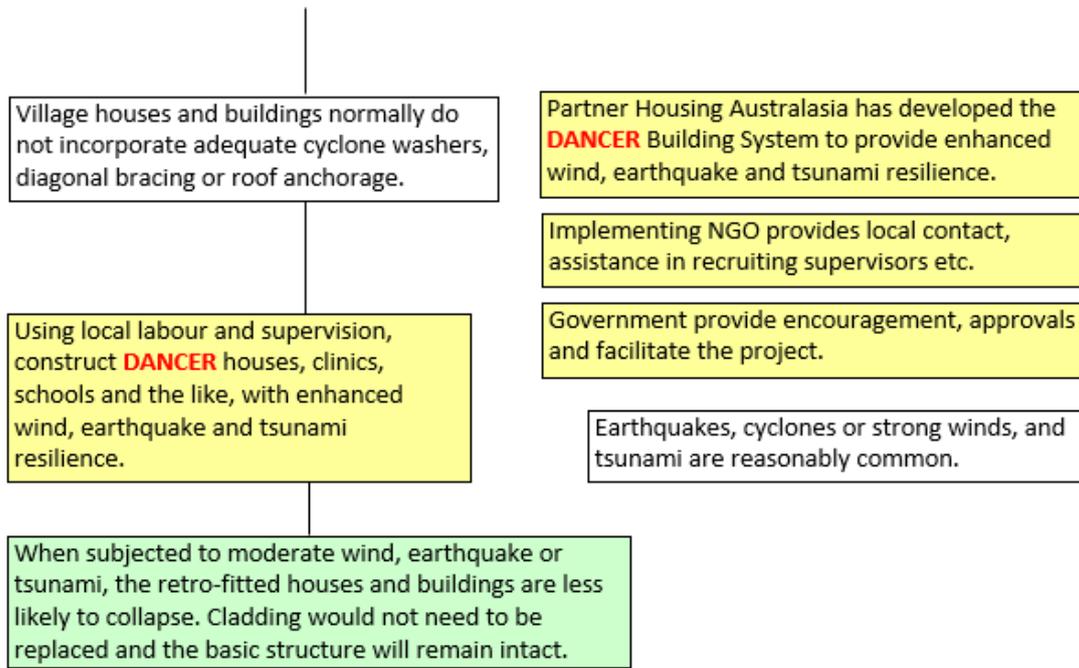
Technical Considerations

Partner Housing Australasia offers to implement a program of systematic improvement of the resilience of housing and village infrastructure subject to cyclonic wind, earthquake and tsunami, by incorporating external roof anchors and tie ropes, cyclone washers, internal anchors and bracing and subfloor bracing.

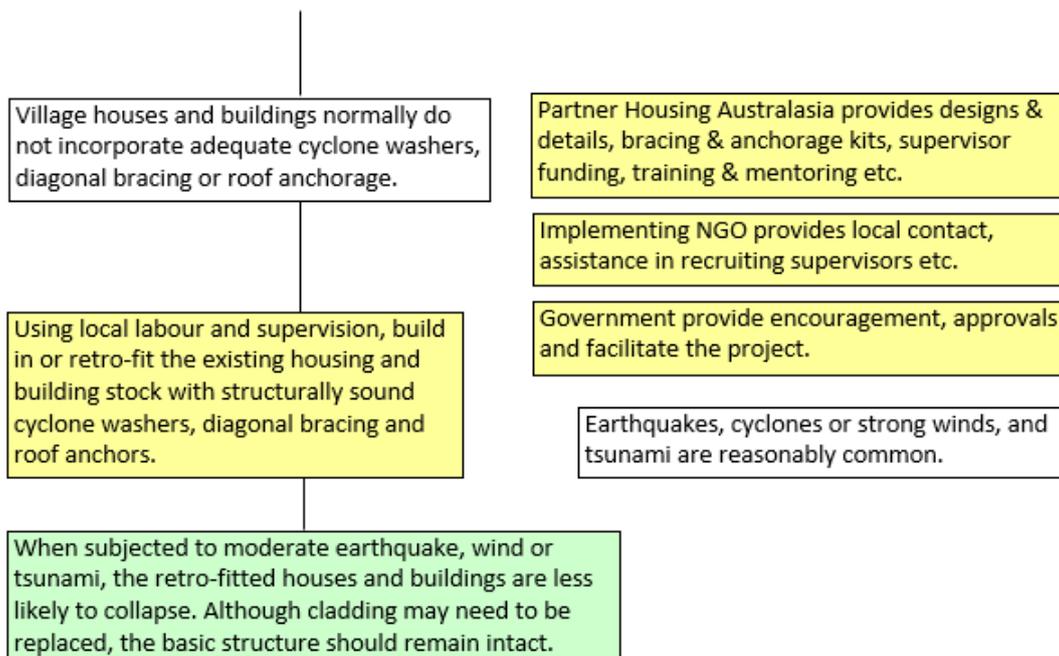
Problem Tree



Solution Tree – Option 1 (New Resilient Construction - **DANCER**)



Solution Tree – Option 2 (Retrofitting Existing Construction)



Details of Option 1 (New Resilient Construction - **DANCER**)

Details of this option are set out in the “**DANCER** Building System” design manual.

Details of Solution Tree – Option 2 (Retrofitting Existing Construction)

The Partner Housing Australasia program involves the provision of features, which are essential for the safety of the building in extreme weather, but are commonly omitted from low-cost construction. These include:

- External roof anchors and tie ropes for enhanced cyclone resistance;
- Cyclone washers to minimise the risk of sheet steel roofing blowing off;
- Internal anchors used to tie roof and wall structures into a single structural unit; and
- Roof bracing, wall bracing and subfloor bracing, used to resist collapse under wind, earthquake and tsunami load.

The Partner Housing Australasia program makes provision for these features to be installed at the time of construction (or at the time of refurbishment in the case of post-construction enhancement).

A series of design details and construction checklists are available, covering both enhancements and basic construction. There are in the form of Building Skills Training Resource material and can be used for both formal structures training and informal on-the-job instruction.

The Partner Housing Australasia program provides a “budget specifically for the funding of:

- Close on-site supervision during all phases of the construction (or refurbishment); and
- Materials for the particular structural enhancements.

This ensures that, provided the cost of basic construction is met by others, the extra details and effort for structural reliability in cyclonic wind, earthquake and tsunami can be achieved.

Model

The proposed program is modelled on the successful roof anchorage scheme, currently being implemented in the Cook Islands by Partner Housing Australasia, Cook Islands Red Cross and Australian Red Cross. This is described in detail in an Appendix.

This model has a proven track record, and has been reviewed favourably by the RMIT University. Refer to the detailed study:

A Scoping Study: Shelter and Disaster Risk Reduction in the Asia-Pacific Region

November 2012

Dr Esther Charlesworth and Dr Iftekhar Ahmed

Humanitarian Architecture Research Bureau (HARB)

School of Architecture & Design

RMIT University, Melbourne, VIC 3000

Commissioned by the Shelter Reference Group (SRG) Australia

Interim Recommendations for Determining Loads on Houses

Set out below are interim recommendations for determining the cyclonic wind, earthquake and potential tsunami loads on houses and small buildings in the region covered by this proposal.

These interim recommendations are offered to, and are subject to confirmation by, the authority charged with regulating construction in the region. Construction should not be undertaken until such approval is granted by the relevant consent authority.

These recommendations are further developed in other detailed Partner Housing Australasia documents.

Approval by Consent Authority

These interim recommendations are offered to, and are subject to confirmation by, the authority charged with regulating construction in the region. Construction should not be undertaken until such approval is granted by the relevant consent authority.

Loads on Village Housing in the Asia-Pacific Region

All loads are subject to amendment to suit the building regulations of the country.

Location: Fiji

Building: Small detached village building; Presenting a low degree of hazard to life and other property in case of failure; Single storey; Cladding on elevated braced timber frame OR Reinforced concrete masonry on concrete slab-on-ground; Maximum dimensions: 12.5x 8.0 m, 2.7 m storey, Maximum eaves height 6.0 m, Maximum ridge height 8.5 m, Maximum pitch 35°

Design: Design life 25 years; Annual probability of exceedance 1 in 250; Probability of exceedance during life: 0.10

Soil: Shallow clay-sand, Characteristic internal friction angle 30°; Site classification "M"; Ultimate bearing capacity 500 kPa.

Permanent Loads: Elevated timber building, $w = 2.5$ kN/m² (floor area), Reinforced masonry building $w = 3.5$ kN/m² (floor area)

Imposed Loads: Floor load 1.5 kPa; Roof load 0.25 kPa

Wind: Strong cyclones, Wind Class IV(C), $V_{250(0.10)} = 62$ m/s, $V_u = 58.6$ m/s; $q_{z,u} = 2.06$ kPa

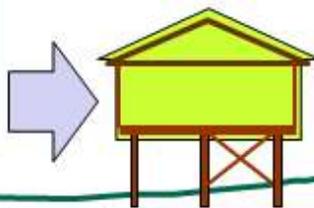
Earthquake: Probability $k = 1.0$; Hazard $Z = 0.40$; Subsoil = C; Ordinate $C_{0(T=1)} = 3.68$; Ductility, $\mu = 2.00$; Performance, $S_D = 0.77$

Tsunami: Elevation > "To be determined" m (or Distance from high-water mark "To be determined"; Tsunami risk factor $(1 \text{ to } 10)$ #

Flood: Building is not in or close to a watercourse, Flood risk factor $(1 \text{ to } 10)$ 0

Wind:

No shielding, Terrain Category 2, Topographic Category T0
 Wall cladding within 1.2 m of corner: +0.68 kPa, -1.03 kPa
 Wall cladding over 1.2 m from corners: +0.68 kPa, -0.59 kPa
 Roof edges: +1.96 kPa, -4.63 kPa
 Roof general: +1.96 kPa, -2.97 kPa
 Racking normal to ridge: 86.1 kPa
 Racking parallel to ridge: 86.1 kPa



Tsunami or Flood
 Cladding: To be determined #
 Structure: To be determined #

Earthquake load for elevated timber building:
 Wall racking = 0.21 x building weight (approximately 0.44 kN/m² floor area)
 Base shear = 0.47 x building weight (approximately 1.0 kN/m² floor area)

Earthquake load for reinforced masonry building:
 Wall racking = 0.48 x building weight (approximately 1.16 kN/m² floor area)
 Base shear = 0.95 x building weight (approximately 3.32 kN/m² floor area)

Appendix 2 – Case Study – Cook Islands Cyclone Resilience

Overview

Partner Housing Australasia, in partnership Cook Islands Cross and Australian Red Cross, executed a program of improving the cyclone resistance of housing throughout the Cook Islands.

The pilot program involved over 150 homes in three villages on the remote island of Mangaia.

Steel anchors are set in concrete blocks or rock outcrops, and tie ropes provided to secure roofs from the intense suctions induced by tropical cyclones.

The ropes may be installed at the start of the cyclone season, or during the period when a cyclone is known to be approaching.

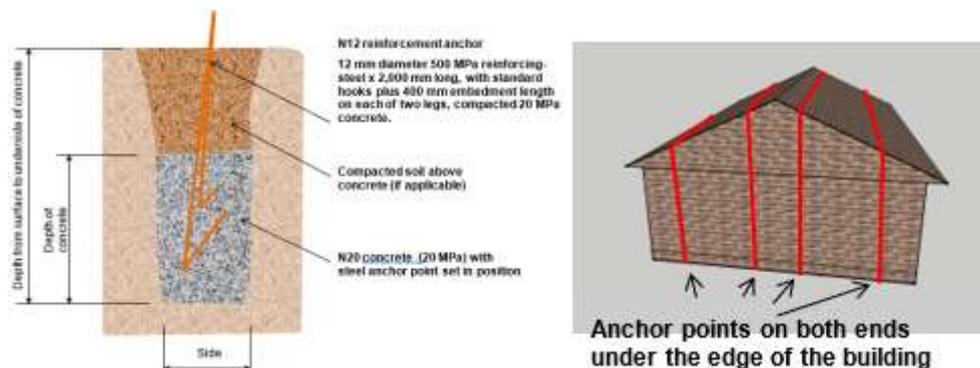


Roles and Responsibilities

- Partner Housing Australasia initiated the program and was responsible for identifying the overall need, designing the system, providing the funding, monitoring the initial construction and providing on-going advice.
- Cook Islands Red Cross identified the local need, planned the program, coordinated the local consultation, organised and supervised the local construction, and monitored the outcomes.
- Australian Red Cross facilitated the partnership.

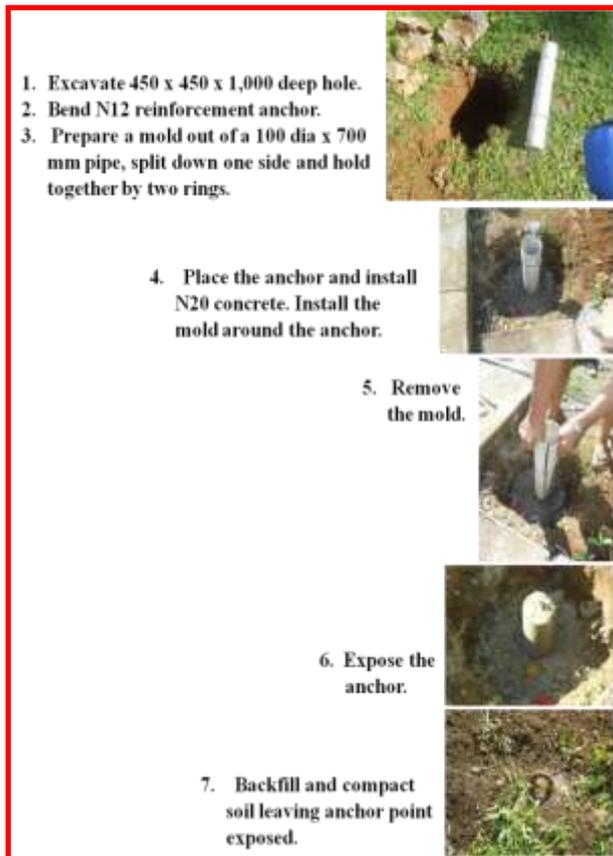
Design

Partner Housing Australasia provided load assessment and detailed design of the anchorages.



Local Innovation

Partner Housing Australasia has encouraged local adaptation of the basic system by the builders who are installing the anchor systems. Local innovation has resulted in significant improvements in the construction.



Stakeholder Engagement

From the outset, Partner Housing Australasia has worked closely with Cook Islands Red Cross to ensure that the program met local needs. This included visiting the remote island of Mangaia and attending discussions with the local Red Cross chapter on local requirements and policies for tie rope installation.

Quality Control

During an early site visit, Partner Housing Australasia developed a practical method of site testing the installed capacity of anchorages, and this has been employed by the builders for on-going quality control purposes.



Anchors installed as part of the program are sampled and site-tested as part to the on-going quality control program, and provide excellent resistance to wind uplift. Cement bags are loaded onto a 10 : 1 lever system.



Some of the anchors previously installed by others were also tested and found to offer very little resistance to wind uplift, and pulled out of the ground with no additional load applied to the lever arm.

Internal Reviews

Regular monitoring and reporting by Cook Islands Red Cross has facilitated close control and meant that future planning has been possible.

Sites	1st Stage install anchor	2nd Stage Rope Down	Remarks
Tamarua 30 homes	Complete	25%	Roping on going after exercise by RC Branch Capacity Building workshop til end of December
Ivirua 64 homes	98%	20%	Roping on going after exercise by RC Branch Capacity Building workshop til end of December
Oneroa 102 homes	50%		

QUICK NOTES	
Issues	Remarks
Budget	Balance from last instalment Enough to Support of Project Supervisor to end of Dec No other support funds for Focal Point visits and contingencies.
Supervisor	Must have to maintain standard of project on ground
Addition assistance	Island government added 4 labours to project Supervisor
Community	Taking part in tie down of homes after rope exercise
Roll Out	Islands earmarked for roll out of project witnessed the benefit of the project; including all branch executives from other islands during Capacity workshop. President of House of Chiefs were also impressed by the Project

Extracts from Progress Report by Cook Islands Red Cross

External Review by RMIT

A study of a number of Shelter Risk Reduction projects by the RMIT University reviewed the Cook Islands project and drew the following conclusions:

- The system of roof anchoring introduced in the project provided better resilience to cyclones, addressing a key vulnerable part of the house.
- Although the whole structure was not strengthened and only a part of the roof was made secure, it still improved the resilience of houses to some extent
- Reliance on imported materials might affect sustainability and long-term resilience.

Appendix 3 – Improving Water Supply and Sanitation of Villages

Scope

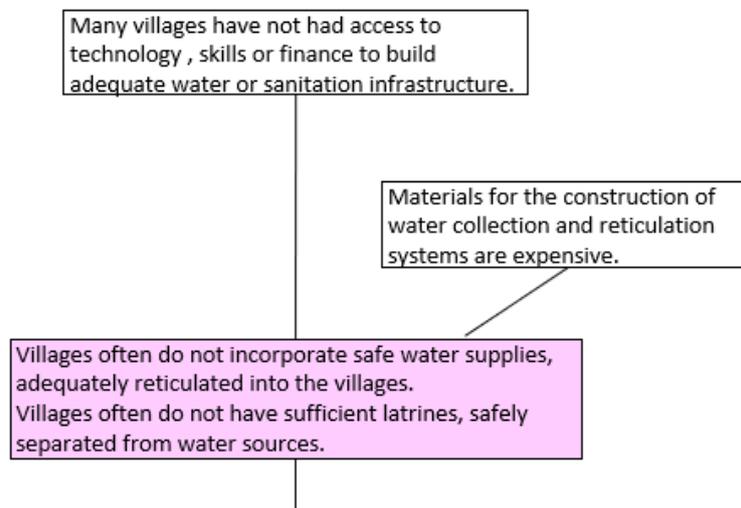
Partner Housing Australasia specialises in providing pro-bono professional services to Partner Organisations, other NGOs and government instrumentalities of developing countries in the Asia-Pacific region.

Our aim is to improve the safe and hygienic village water supply and sanitation, by offering and coordinating the pro-bono services of highly qualified and experienced professional consulting water and sanitation engineers

Technical Considerations

Partner Housing Australasia offers to implement a program of systematic improvements through pro-bono design services, documentation, project management, supervision and funding of some key materials, to other organisations involved in the construction of village water supply (collection, storage in tanks and reticulation to village standpipes) and sanitation (in the form of pit latrines).

Problem Tree



Solution Tree

