

## Building a Culture of Earthquake Resistant Construction Practices Among Day Laborers in Haiti

Haiti  
Peter Haas



### Tipo de organização:

Sem fins lucrativos / ONG/ Setor Civil

### Orçamento:

\$250,000 - \$500,000

Website:

<http://www.aidg.org/confinedmasonry>



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### Resumo do projeto

Pitch de Elevador (Explicação curta e direta)

#### Resumo conciso: Ajude-nos a lançar esta solução! Forneça uma explicação dentro de 3-4 frases curtas.

Após o terremoto de 12 de janeiro de 2010 em Porto Príncipe, no Haiti, a AIDG, em cooperação com o Centro Multidisciplinar de Engenharia Sísmica da Universidade de Buffalo e Engenheiros Consultores da KPFF, começou a inspecionar 1.500 estruturas danificadas. As equipes encontraram erros de construção se repetindo. A origem desses erros é uma força de trabalho pouco qualificada que aprende através de práticas de construção básicas que não são apropriadas para a construção em zonas sísmicas. Com base nessa experiência de ver bons construtores trabalhando com trabalhadores pouco qualificados que a AIDG desenvolveu um currículo de formação em massa para trabalhadores diáristas. No intuito de corrigir o déficit de conhecimento que a AIDG realizou um treinamento para 10.000 pedreiros.

### SOBRE O PROJETO

#### Problema: Este projeto busca solucionar qual problema?

Informal sector day laborers in Haiti and people living in housing built by these construction workers. Workers who have taken our courses can demand higher wages in the market place. People living in seismic risk zones get safer housing. AIDG is trying to influence practices in the construction boom that is about to take place, not just in Port Au Prince but across the country including Cap Haitien, Borgne Limbe, Milot, La Gonave, Gonaives, Jacmel, Leogane.

#### Solução: Qual é a solução proposta? Por favor, seja específico!

Currently in Haiti skills training on earthquake resistant construction is aimed at longer duration sessions for more established construction professionals. AIDG is reaching out to informal sector laborers throughout the country and is focusing on simple specific failure points in a one day training session. In building inspections and from interviews with construction professionals in country it is clear that many of the failure points can be the result of one person's bad workmanship. Most earthquake resistant construction courses in Haiti right now are aimed at giving a few hundred people detailed training. AIDG is the only groups in Haiti focusing on getting this training out to 10,000 day laborers across the country to try and influence practices in the on the job learning and apprenticeship system that trains new laborers. We focus on a few basic techniques that will make buildings safer instead of a detailed curriculum for a sampling of workers. Our goal is to change of few points of how Haitian builders teach each other to build, instead of just providing training to a few workers in Port Au Prince involved in reconstruction. To date we have trained over 2000 workers.

### Impact: How does it Work

**Exemplo: Compartilhe um exemplo específico de como essa solução faz a diferença, inclua situações práticas.**

To date we've trained over 2000 masons. We are developing a retest for a statistically viable sample of the masons we have trained to determine knowledge retained. We are developing SMS based surveys to determine number of buildings constructed and lives impacted over the next 5 years, which will be a critical time for construction in Haiti.

Sobre Você

**Organização:**

AIDG

Sobre Você

**Nome**

Peter

**Sobrenome**

Haas

Sobre Sua Organização

**Nome da Organização**

AIDG

**Telefone da organização**

800-401-3860

**Endereço da organização**

PO Box 104, Weston, MA 02493

**País da organização**

, MA

**Países onde este projeto vem gerando impacto social**

**Há quanto tempo sua organização está em operação?**

Mais de 5 anos

As informações que você fornecer aqui serão usadas para preencher todas as partes do seu perfil deixadas em branco, como interesses, informação da organização e website. Nenhuma informação do contato será tornada pública. Por favor, desmarque aqui se você não deseja que isso aconteça..

INOVAÇÃO

**Em que estágio está seu projeto?**

Implementado há menos de um ano

**Compartilhe a história do(a) fundador(a) e o que o(a) inspirou a iniciar este projeto**

This project was started by AIDG after inspecting 1500 buildings after the earthquake and seeing the same failure points again and again. AIDG's mission is to promote the use of appropriate technology to solve issues of basic infrastructure for undeserved communities. The extent of building collapse in Haiti represented the largest failure of infrastructure AIDG has ever faced. Chilean style confined masonry provided a simple appropriate technology solution.

Seeing people not waiting to rebuild and the actors addressing the problem relative moving painfully slowly relative to the scale of the issue AIDG worked with Haiti Rewired and KPFF consulting engineers to pull together a curriculum that would solve the major mistakes we witnessed in building failures, while also being accessible to day laborers and the general populace. We have now used this curriculum (available here in English: <http://aidg.org/documents/CM-Handout%20MASTER%20v3%20English.pdf>) with over 2000 masons with fantastic results and acceptance. We set a goal of reaching 10,000 masons with this curriculum with the intention of creating a critical mass of masons who would propagate basic confined masonry practice throughout Haiti.

IMPACTO SOCIAL

**Quantas pessoas foram impactadas por seu projeto?**

1,001 - 10,000

**Quantas pessoas poderão ser impactadas por seu projeto nos próximos três anos?**

> 10.000

**Quais são as barreiras que podem dificultar o sucesso de seu projeto e como pretende superá-las?**

Funding is the primary barrier, we bet heavily on getting reconstruction funding, that process did not move forward fast enough for us. As a result we scaled back the organization and restructured the trainings to be viable on a smaller staff. We're at a state right now that is supportable with our grassroots private fundraising while we continue to pursue larger grants.

**Como seu projeto se expandirá ao longo dos próximos três anos?**

We aim to train the 10,000 masons and look deeply through surveys at how much we are changing general practice in construction. After we have provided training to the first 10,000 workers we will look to transfer the training curriculum off to long term trade educational institutions and universities to embed the knowledge in the existing educational system.

**SUSTENTABILIDADE**

**Para cada item selecionado, por favor, detalhe o apoio financeiro e não-financeiro recebido.**

AIDG has gotten a full range of support on this project including significant help from KPFF consulting engineers and the municipal governments in Cap Haitien, Leoganne, and Delmas (in Port Au Prince). A more complete list of supporters can be found at <http://www.aidg.org/confinedmasonry>

**Como você planeja crescer ou diversificar sua base de apoio nos próximos três anos?**

We aim to get one significant foundation commitment in the \$100,000-\$200,000 range and we aim to get a commitment from the IHRC in the \$100,000-\$200,000 range. In the meantime we aim to continue to cobble together support where we can to keep the program running.

**COLABORAÇÃO**

**Por favor, selecione as áreas de intervenção no mercado de melhoria de moradias**

Assistência técnica, Trabalho, Infra-estrutura, Desenvolvimento urbano, Desenvolvimento rural.

**Sua inovação busca solucionar desafios no mercado de melhoria de moradias/habitação progressiva? Em caso positivo, por favor descreva em detalhes os mecanismos desta intervenção.**

It is addressing the basic training received by the informal sector labor pool that is responsible for the majority of the construction in Haiti. Our trainings include both small group private sessions of under 30 workers and larger stadium sized trainings of several hundred masons, where theory is presented en masse and hands on working groups of 10-20 masons get separated out for the practical sessions.

**Você tem atualmente alguma colaboração com empresas privadas ou teve alguma colaboração com empresas privadas no passado? Com quais empresas?**

KPFF consulting engineers is our primary partner for the project.

**Por favor, descreva em detalhes a natureza de sua(s) parceria(s)**

KPFF provides certified structural engineers and helps us locate union masons from the US who help with the trainings.

**Selecione as unidades com as quais a parceria foi estabelecida**

Outros (por favor, detalhe).

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