

From : NGO The-InSERT,
Subject : FREE or Affordable HOUSING for ALL, Programme
Adress ; Lot VA 33, Rue Tsiadana, Anatanarivo,
101 MADAGASCAR



Dear Madam, Sir,

Let me introduce **AHA = Affordable Housing for All**
For the People, By The People!

AHA =Eco-House For Free + NO Wood + 50% Less Cement In Construction

AHA's breakthrough innovative building technique 'by the people for the people' can deliver affordable homes targeted at pro-poor for slum reconstruction. It's solid walls are fire and storm resistant and built using a technique reusing plastic waste and traditional local building skills. Making a *home for free or very low cost can also provide a much wider up-cycling industry.*

A New and Affordable Sustainable Building Technique

This new building technique makes sustainable homes affordable for the poorest.

For Who?

- *Self-builders*: This pro-poor initiative means the poorest can afford to build the walls of their own homes because they have access to the materials for nearly free.
- *Government funded social housing*: it facilitates publically funded renovation of slums and refugees housed in tents worldwide, as it is affordable.
- *Private building companies*: The private sector can be involved in private finance

Thus achieving SDG Goal for 2030

Where?

A first pilot is being developed in suburban main city Antananarivo (Madagascar), as it's population is one of the poorest in the world and in great need of affordable homes.

These types of homes can be made anywhere, where people need an affordable home, and is especially relevant for the renovation of slums.

When? A pilot is being developed now.

Why?

Improves quality of housing of people

- gives people means to self-build:
 - training in construction and upcycling, and collecting plastic resources,
- puts pressure on governments to provide affordable means to deliver better housing for those in slums and tents

Increases number of affordable homes

Clusters of homes can built, eg 1 acre or 5, 000 m (0.5 ha) allows 100 units to be built. These clusters can be equipped with biogas units providing energy for cooking and light, avoiding burning the forests.

Creates more local employment:

Creates an industry for housing (building supplies production),

Massive weapon for redistribution of wealth as it is hugely replicable,

Develops building supports:

Development of local Construction Co-operatives (CC) to provide support and training in self-construction:

- Self construction techniques can be promoted through remote open distance learning centres (ODEL www.The-InSert.info)
- Implementation of a local 'craftsmen' industry for millions of stakeholders since it requires basic building skills and there is no need of a huge plant to produce materials or to do the assembly.

Eco-Credentials:

- Reduces reusable plastic waste:
 - 250-350 kg plastics are needed to build a home
 - This could be more, depending on the insulation provided
- Saving resources:
 - **No more wood needed:**
 - 90 to 100% less wood required, saving precious forests of Madagascar
 - Less tin steel needed:
 - 60-70% less or even 100% if a tin steel roof can be re-used, compared to traditional wood and tin homes.
 - Less cement needed:
 - 40-50% less cement compared to traditional cement block and tin homes

How?

Using a patented unique process of construction mixing the use of plastic waste and local traditional building techniques, an affordable home can be built. References upon request from EUIPO

Cost?

Single Home Costs:

- As soil and waste plastic are free and these are the main resources required to build the walls, this makes building a home very affordable.
- Cost prices are compliant with a rent-to-buy programme over 2 to 8 years:
 - o Model 1 H-0 K HOMES FOR FREE !
 - § Using free (borrowed) available tools for making plastic walls, to people with land.
 - o Model 2 H-1 K
 - § one level building, 21 m sq €1,000, includes cost of site
 - o Model 3 H-1.5 K
 - § two levels, 32 m sq (16+16 m sq) €1,500, includes cost of site

Funding?

- Funding is required for sites and loans to prospective buyers/self-builders.
- Funding can be provided by using a mix of business models allowing the private finance sector to get onboard, such as microcredit or private banks and emergency NGOs or government organisations.
 - The Cooperative Construction can become a kind of worldwide microcredit agency dedicated to AHA (Affordable Housing for All)

More details, for the experts:

This building technique is compliant with building regulations:

- Compliant with the private finance sector requirements in term of resistance and warranties (prices, rent, and also regulations)
- Compliant with regulations for fire, storm (wind and rain), hygiene (cleaning), second level ready
- Compliant with minimal requirements for food security (green roof and aquaculture)
- Compliant with emergencies deployment - the walls of a home can be built in 1-2 days.
- Shops on ground floor compliant

AHA building techniques:

- o Is fire resistant- which is a main problem of premises using plastic
- o Provides protection from storm - wind and rain
- o Allows a second level for building up
- o Provides washable surfaces
- o Helps food security issues with its green roofs allowing cultivation of vegetables and aquaculture

Co-operative Construction set up to build these types of homes can help support builders.

- Tackles pro-poor access to property and slum renovation for real - 'by the people, for the people'

The patented technique is a mix of reusing of plastics waste and traditional local techniques! The secret will be revealed under NDA upon request

Development of the Idea

Philosophy:

- AHA building techniques by Construction Cooperatives are based on 'By the people, for the people' grassroots ethics.

It opens the way for pro-poor Affordable Housing for All (AHA) for real finally, in terms of technique and business model, and compliant with 'by the people themselves' ethics.

This idea developed from homes can be built by Cooperative Construction's NGO (www.Cooperative-construction.org).

This initiative developed from a think tank from the socially responsible network of Open Distance e-Learning Centres (ODEL), which was set up for training, dissemination of knowledge (www.The-INSERT.info) by *Ms Anita Rasoambolona*.

This could be a true revolution just like the invention of inkjet printer; now after the first revolution of Gutenberg, allowing people to access to books and knowledge, as this AHA solution from the www.Construction-Cooperative.org is the process that can give acceptable ethical homes for all. This process is a comparable to what is a printer to books.

The AHA effect! FINALLY, Affordable Housing for All (AHA) **developed by Co-operative Construction and The-INSERT.info**

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About The-InSERT (Odel Open Distance e-Learning Centres network) :

Anita RASOAMBOLOLONA launched a NGO, the INSERT that bridges two priorities (SGD), reusing electronics and promoting work skills and education in the youth, in particular, women. This project is creation of thirteen Open Computer Centers, facilitating online and blended learning opportunities and teleworking. The project delivers the results as follows:

- Collecting 1,300 computers over 4 years
- Delivering 30,000 to 40,000 short training course per year
- Creating of 13 Open Computer Centers
- Creating 150 direct jobs to run them (mainly teaching)
- Facilitating 400-500 remote work jobs
- Providing a coworking space for innovators
- Donating 20% on the business turnover as scholarships grants

- Extending computers' lives
- Saving 1000T of carbon

Anita is a female entrepreneur from an underprivileged community. She completed her final school exams the Baccalaureate, younger than average at sixteen years. This is especially interesting, as she lived with her uncle and did not study at school, she taught herself as she had not got the money. Since leaving school she has been teaching herself French and English. She would have loved to have been able to access online education via internet cafes but they have too expensive per hour. She has been thinking of a project and is a very excited about this idea of starting affordable internet cafes which could offer the education, work space and work opportunities that she lacked but she recognizes could be a gateway to the world for others. Financing these centers is possible by reselling pre-owned computers from donations, and stocking these centers with them too. This has added value of reducing climate change by extending the life of pre-owned computers, making this a very meaningful and worthwhile project.