




## PROJECT CATALOG

**AMOR**  
ASSOCIAÇÃO MOÇAMBICANA DE RECICLAGEM

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**WORDS FROM THE  
PRESIDENT**

# WORDS FROM THE PRESIDENT



**Dear. Ladies and Gentlemen, Dear. Partners,**

*AMOR – Associação Moçambicana de Reciclagem (Mozambican Association of Recycling) - was established in September 2009 to promote and organize the recycling of waste while struggling against urban poverty in Mozambique. Everyday more people are concerned with what humanity calls "garbage" and willing to change their relationship with our environment.*

*The development of recycling proves its relevance and power as one of the strongest tools of the "circular economy" with numerous positive impacts on social, economic areas and environmental. In Mozambique, today, together with our partners, we recycle approximately 400t / month of waste produced, involving more than 1,500 formal and informal participants. However, there is still a lot to achieve in order to make recycling in Mozambique a more present reality.*

*This catalogue aims to introduce the main projects of AMOR, the projects that need support as well as ongoing projects and our references in the past. As you will see, AMOR seeks to develop sustainable projects economically viable and autonomous, with communities, schools, the private sector, the municipalities and the central government.*

*However, it is not always easy and the funds are often lacking, because unfortunately, the actual profit of recycling is maintained abroad: today, 90% of the waste recycled in Mozambique is only packed and compressed within the country before exportation. Thus, only when a national industry will be created, will we have a strong recycling sector, consistent and comparable to the ones in emerging countries like Brazil or India*

*For this to happen, there is a need to create a favorable environment to ensure the sustainability of the recycling activity and promote partnerships with the authorities, the private sector and society civil. Hence the participation of AMOR in creating the company 3R - Reduce, Reuse, Recycle, a social enterprise dedicated to the creation of recycling added value in the country and providing integrated waste management services.*

*Through our actions, we hope to show here our vision of "social recycling" and we call for synergies and partnerships with business and industry on their social responsibility policy, cooperation agencies, national and international organizations, and financial institutions to provide Mozambique with a model of innovative and successful waste recycling, with enhanced social impact. "*

**The President,  
Stephane Temperman**

# OUR PARTNERS TODAY

Many thanks to our partners for their continuing trust



Millennium BIM



Fonds Suez Environnement Initiatives



Ministry of Foreign Affairs and Cooperation

Ministry of Land Environment and Rural Development



Support Program To Non-State Actors



European Union



AGIR – We Effect



Municipality of Maputo



Municipality of Beira



Municipality of Vilankulos



3R – Reduce, Reuse, Recycle



SIQAS



# THE ECOPOINTS NETWORK

# THE ECOPOINTS NETWORK

## Promotion of infrastructures to receive and purchase recyclable materials

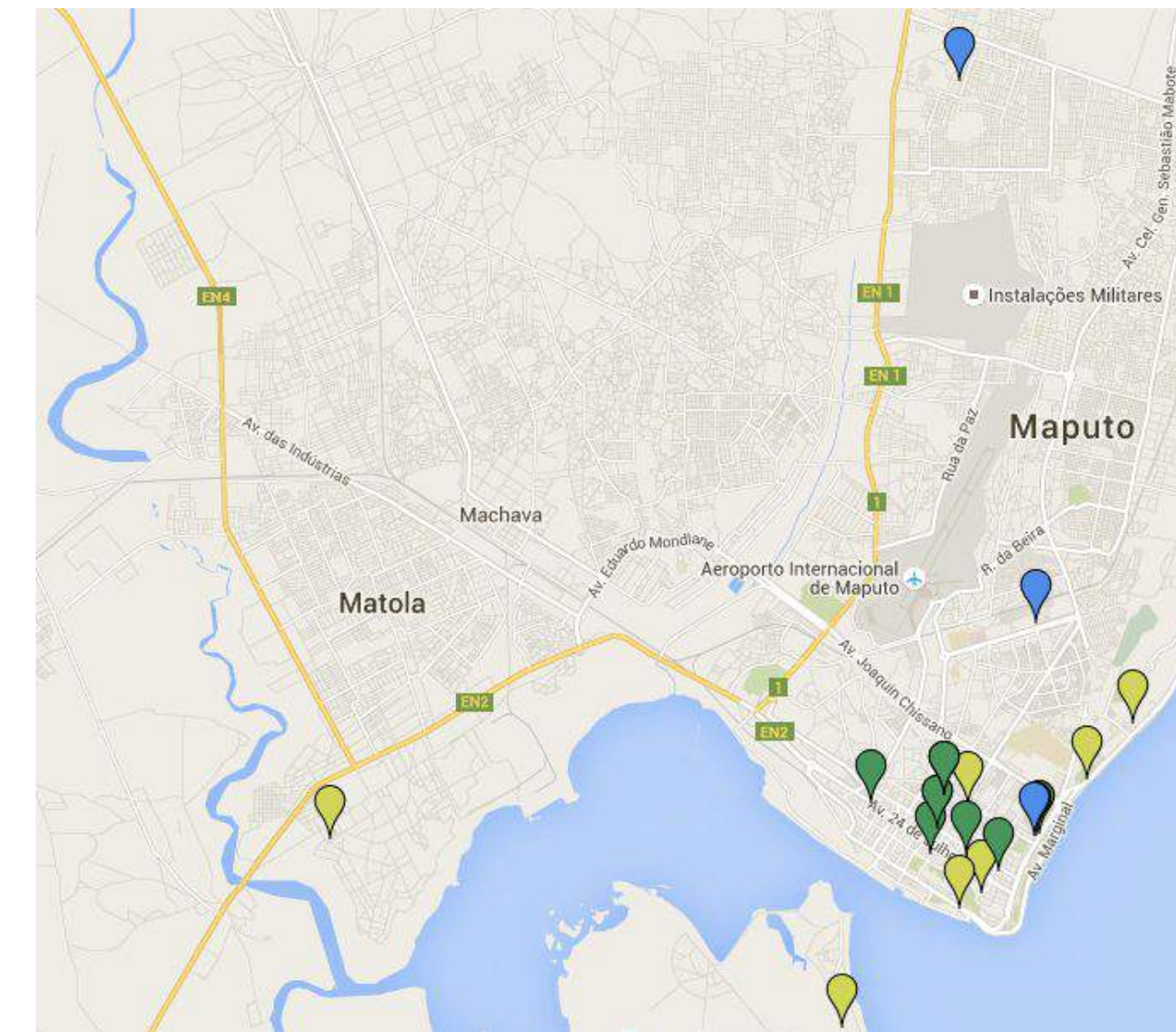
In the cities of Maputo and Matola, AMOR has been implementing since 2010 an Eco-point Network. The "eco-points" are points of collection and purchase of recyclable material (paper, cardboard, plastic, glass, metal, oils and electronic waste) where everyone can bring its recyclable waste. In parallel we offer waste collection service with mobile collectors who collect the recyclable waste directly in homes, public or private institutions and organizations, bringing them afterwards in the Eco-point Network. Traditionally, the network of Eco-point was managed by Xidzuki association (mainly composed of women) who support HIV-positive people. Progressively, AMOR gave increased autonomy to the Ecopoints : the Ecopoints are now managed by independent managers, supported in management and socio-economic "empowerment" (through the legalization of identification documents, simplified license and opening bank accounts), in partnership with ORPHAD - Organization for Promotion of Peace and Development.




Since then, AMOR has been training several organizations, neighbourhoods committees, micro enterprises and others groups working in the waste management sector in order for them to open and manage an Eco-point. In these formations, the future managers learn about basic sanitation, pre-screening and sorting of waste, packaging and recovery of waste. Training is consolidated with the support for the purchase and sale of the recyclable in the waste market, as well as with monitoring skills.

As an example, in 2015 AMOR trained the Multi-service Oliveira micro-enterprise which does the primary collection in the neighbourhood of Zimpeto, where an Ecopoint is now managed by the micro-enterprise. The same happened with Urbe Limpa, the micro-enterprise doing the primary collection in the neighbourhood George Dimitrov (Benfica), in Maputo. In Beira, three Ecopoints have been installed, managed by local association and groups.

Today, AMOR seeks financial support to help other groups to open and manage recycling points, but also to develop and intensify the communication about the existing Eco-points Network because much of the population does not know about the existing infrastructure. In Maputo, this shall happen by organizing regular meetings with service providers (collection companies), meetings with the 100 largest waste producers in the City of Maputo and Matola, but also through large-scale communication campaign to the public.

## LOCALISATION



-  Ecopoints of AMOR
-  Others Ecopoints
-  School Ecopoints

# THE ECOPOINTS NETWORK



<b>PROJECT'S NAME</b>	THE ECOPOINTS NETWORK – EXTENSION AND COMMUNICATION
<b>LOCALISATION</b>	Cities of Maputo , Matola, Vilankulos, Beira...
<b>THEMES</b>	<ul style="list-style-type: none"> <li>• Solid waste purchase,</li> <li>• Mobile waste collection,</li> <li>• Communication with service providers and society in general</li> </ul>
<b>PROJECT'S COST</b>	<ul style="list-style-type: none"> <li>• Opening a sustainable and autonomous Eco-point USD 11000</li> <li>• Communication campaign: USD 21 500</li> </ul>
<b>DURATION</b>	6 months for each Eco-point , 18 months for the communication campaign
<b>PURPOSE</b>	Promote social recycling, improving the environmental and socio-economic conditions of the population
<b>GOALS</b>	<ul style="list-style-type: none"> <li>• Increase population's awareness about the possibility and the need to recycle;</li> <li>• Increase volumes recycled through the network of Eco-point</li> </ul>



# THE ECOPOINTS NETWORK



## ACTIVITIES

- Support for micro-enterprises and groups to open Eco-point and sustainably manage them (focused on sustainability)
- Information campaigns to service providers, to the largest producers of waste and to the population. Creation of a municipal fiscalization framework to implement a taxation system that gives an economic incentive to actors to recycle more training of municipal agent MSW management ( Municipal Solid Waste ) Production of video, posters and other communication tools.
- Promotion of recycling in major producing waste companies with CSR measure (corporate social responsibility).

## IMPLEMENTERS AND PARTNERS

- AMOR - Mozambican Association of Recycling
- Municipal Council of Maputo ( CMM)
- Municipal Council of Matola ( CMCM )
- Municipal Council of Beira (BMB)

## VISION

- A Mozambican population aware of the recycling benefits, which uses the existing recycling infrastructures.
- Collection companies that promote recycling with their clients and forward the recyclables to the recycling sector.
- A private sector that makes the separation of waste and forward its recyclables to the recycling sector.



**BINS  
OF AMOR**

## Installation program of garbage bins in public places.

Today, there is a lack of public garbage bins across the cities as in public places, which require users to travel long distances for disposal. Another important aspect of the waste management challenges is the lack of environmental awareness of the population whom for a large part is used to throw its small waste on the floor in public spaces. Considering this, AMOR designed the program "Bins of AMOR". This program of cleaning, waste management and environmental education was conceived for one of the most important tourist areas of the city of Maputo: the beach of Miramar (opposite the Conference Centre Joaquim Chissano) to the beach of the Costa do Sol zone. It aims to ensure the effective management of solid waste with the support of sponsors that can advertise their brand in advertising space placed on top of the bucket. We want to create clean portions that have three garbage bins installed and one agent that performs cleaning, rerouting recyclable waste for recycling through Ecopoints Network and waste non-recyclable to the trash.

Even if initially Bins of AMOR project was one of the main objectives to promote the management of waste on the beaches, it appeared to us that the waste problem is important not only for the users of the beaches but also for the whole society. Thus, AMOR started the placement of garbage bins in other public places as gardens, parks, fairs, roads and other preferred places funder. Furthermore, in order to change the image of waste, we also ask artists to decorate the buckets. In the grounds of FEIMA in Maputo (handicraft market), the buckets painting was done through a competition among artists. Those who made the most beautiful bucket were rewarded. A similar initiative was developed in Vilankulo. This painting can be done also by children from schools and kindergartens in interactive activities with fun and educational guidance by AMOR.



# BINS OF AMOR



<b>PROJECT'S NAME</b>	BINS OF AMOR
<b>LOCALISATION</b>	Public spaces, Mozambique.
<b>THEMES</b>	<ul style="list-style-type: none"><li>• Cleaning the beach and public spaces</li><li>• Reduction of waste in the city streets</li><li>• Social Recycling waste</li><li>• Environmental awareness and protection</li></ul>
<b>PROJECT'S COST</b>	For a 1 bucket's installation with collection and cleaning service during a year: between \$ 250 (for buckets purchased by batch) and \$ 1250 (for individual buckets)
<b>DURATION</b>	12 months of contract, with installation in the first month and collected throughout the year
<b>PURPOSE</b>	Keep clean spaces, changing the image of waste
<b>GOALS</b>	Improve the environmental quality of public spaces through daily cleaning associated with the installation of attractive garbage bins, and waste management and collection, as well as educational activities.

# BINS OF AMOR



## ACTIVITIES

- Installation of garbage bins in public spaces
- Daily cleaning and collection by cleaning agents
- Awareness campaign on environmental protection
- Program Disclosure

## BENEFICIARIES

- Users of public spaces
- Cleaning agents (Collectors formalized as cleaning agents, waste collectors)
- Company sponsor (advertising, marketing, RSE)

## EXPECTED RESULTS

- Reducing Waste
- Public spaces revitalization
- Improvement of public spaces and their users' welfare
- Creating jobs
- Behaviour changes against polluting habits and for a better environment preservation
- Visibility of social responsibility partner

## IMPLEMENTERS AND PARTNERS

- AMOR- Mozambican Association of Recycling
- Partner / sponsor
- Municipal Councils

## VISION

- A clean city without waste, with garbage bins close to the users
- Waste collection, public spaces cleaning and sale of recyclable waste by cleaning agents, thus improving their living conditions



### ECOPONTO

Ponto de recolha de material reciclável  
Clube do Ambiente e da Cidadania da Escola  
Secundária de Muchatuzina



Associação Mozambicana de Reciclagem  
www.amor.co.mz / amorbeira@tdm.co.mz / Coordenador: 823149146  
Téc. Ambiente: 823149138 / Téc. de Cidadania: 823149139

- Papel de escritório
  - Papelão
  - Caixas em geral
  - Jornais
  - Revistas
  - Listas telefónicas
  - Cadernos
  - Livros
  - Cartolinas
- Papel = Azul



Plástico = Vermelho

- Sacos plásticos
- Embalagens de plástico
- Canos e tubos plásticos
- Pedacos (caixas plásticas)
- Garrafas
- pacotes e embalagens de sumo ou



Amarelo = Metal

- Latas de Alumínio (refresco, cerveja, sumo)
- Latas de produtos alimentares (óleo, leite em pó, conservas)
- Tampas (metálicas) de garrafas
- Embalagens metálicas

Como reciclar?  
"O primeiro passo para a reciclagem é a separação, separando os resíduos nunca teremos lixo, mas sim material!"



Cinzento = Lixo comum

- Comida
- Vegetais (qualquer outro lixo que não seja papel plástico ou metal)
- Embalagens de chips
- Qualquer embalagem de alimento com gordura e óleo

Porque reciclar?  
"Para dar uma segunda vida ao papel, plástico e metal, poupando assim os nossos recursos naturais!"

# RECYCLE AND WIN

## Usar o meio ambiente como vector de promoção e difusão da Cidadania nas escolas

De forma a consciencializar e sensibilizar a população desde as primeiras fases do ensino escolar, a AMOR desenvolveu o projecto Recicla e Ganha!, de gestão educativa de resíduos recicláveis nas escolas. Implementados na Cidade de Maputo e de Vilankulos para o ano de 2015, o sucesso do projecto culminou na sua expansão para as escolas situadas na Cidade da Beira.

Nas escolas da Beira as actividades iniciaram no âmbito do programa “Ambiente e Cidadania” com o apoio da União Europeia no mês de Fevereiro do corrente ano. Montou-se um ecoponto Escolar em cada uma das 10 escolas participantes.

Lá, os alunos foram organizados em grupos de 30, conhecidos vulgarmente por CACs (Clube de ambiente e Cidadania), 15 de período da manhã e restantes da tarde, contando com a participação de 2 (dois) professores coordenadores, denominados Pontos focais (responsáveis pela organização das actividades do Clube Ambiente e Cidadania). Como metodologia educativa os técnicos da AMOR, um de Ambiente e outro de Cidadania, facilitam os encontros dos CACs semanalmente nas escolas através de palestras, ateliês de reuso de resíduos e materiais didácticos como suporte e ferramenta pedagógica na implementação do conceito dos 3R's da sustentabilidade (Reduzir, Reusar e Reciclar), contribuindo para uma participação efectiva de todos os alunos para uma escola e cidade ambientalmente saudável.

Para estimular a participação de todos os membros da comunidade escolar, cada quilo de resíduo reciclável separado corresponde a um ponto verde e dá uma remuneração monetária de 1,00MT por kg, a ser usada pelas escolas para comprar material escolar e desportivo entre outros. Além disto, os patrocinadores oferecem prémios extras as escolas que mais reciclam. Dai o incentivo para as escolas em não só reciclar mas também incentivar as crianças e a sociedade civil a conhecerem os seus direitos e deveres e simultaneamente em saber que, o que se considera lixo pode ser material útil, ajudando a economizar recursos naturais e financeiros. Também podem se procurar parceiros e padrinhos na medida em que o sector privado e a sociedade em geral pode ajudar a escola depositando no Ecoponto os seus resíduos recicláveis devidamente separados.

O programa tem duração indeterminada e ainda procura novas parcerias e financiadores para inclusão de mais escolas dentro destas 3 localidades, quiçá a abordagem de outras cidades do País como Chimoio, Quelimane, Nampula e Pemba e Lichinga. Adapte uma escola, dissemine a mudança. Venha participar!



# RECYCLE AND WIN



<b>PROJECT'S NAME</b>	RECYCLE AND WIN
<b>DESCRIPTION</b>	Educational Management Program of Recyclable Waste in Schools
<b>LOCALISATION</b>	Maputo, Vilankulo, Beira and other locations
<b>THEMES</b>	<ul style="list-style-type: none"> <li>• Collection of Recyclable Waste in Schools</li> <li>• Reduce waste in schools and communities</li> <li>• Educational waste recycling</li> <li>• Environmental Awareness in Schools</li> </ul>
<b>PROJECT'S COST</b>	USD 11,000 / school / year
<b>DURATION</b>	24 months (2 academic years)
<b>PURPOSE</b>	Making tomorrow's adults a bridge to effective Waste Management and active citizenship in the country.
<b>GOALS</b>	<ul style="list-style-type: none"> <li>• The promotion and dissemination of Citizenship in Schools</li> <li>• Waste Reduction in Schools</li> <li>• Efficient management of waste in schools.</li> </ul>



# RECYCLE AND WIN



## ACTIVITIES

- Installation School Eco-point
- Weekly collection of recyclable waste in schools
- Monetary value delivery and reward according to the quantities collected and recycled
- Civic education in schools focusing on citizenship and environment.

## BENEFICIARIES

Primary schools and secondary, surrounding communities

## EXPECTED RESULTS

- Separated waste and recyclable products in Schools
- Valued the rights and duties of children in schools in the city and in the country.
- Welfare improvement of students and citizens of Beira
- Awareness and affirmation of the 3Rs concept
- Change of consciousness and the population polluting habits.

## IMPLEMENTERS AND PARTNERS

Millennium BIM, EU environmental support to non-state actors (PAANE), Municipal Council of Maputo (CMM), Beira (CMB) of Vilankulos (CMVV), Central and Sofala Province Government.

## VISION

A school recycling competition on national scale, improving environmental awareness, citizenship and teaching conditions.

School Eco-points used not only by the school's students but also by surrounding community, including the private sector (which is thus supporting the development of the school, in the school competition)



# CHARCOAL AND BIOCHAR

# CHARCOAL AND BIOCHAR

## Transformation of organic waste (paper and cardboard) into Charcoal and biochar

Every day, Maputo's and Matola's residents consume more than 800t of coal for cooking. On the other hand, these same residents produce approximately 800t of organic waste, paper and cardboard every day. So why not create carbon from organic waste, paper and cardboard? This will allow on one hand the reduction of municipal waste and on the other hand, the reduction of deforestation.

In Vilanculos, AMOR already turns 10 m<sup>3</sup> of organic waste, paper and cardboard in coal per day through a low-cost technique that is taught to the local communities (relying on 9 neighborhood committees of Vilankulos Village). Briquettes of coal are made out of the waste and directly used to cook. The coal thus made also gives powder that is used to produce « biochar » and been applied in the fields.

The biochar and charcoal (obtained from biomass carbonizing) are added to the soil with the aim of improving their physiological functions. Among other features, the carbon acts like a sponge. It increases soil's retention capacity of the lacking sandy soils of the country. Centuries ago, the Indians in the Amazon region were applying charcoal to improve soil's fertility, which created the famous Terra Preta do Indio: a kind of dark soil extremely fertile due to the application of coal.

Since one of the major characteristics of the biochar is to retain water and nutrients, it also allows greater efficiency of fertilizer applied to the soil. Thus the private sector has interests in developing products biochar based. Several ways to « load » biochar are now being evaluated with either compound, chemical fertilizer (NPK), guano and also human feces, in order to increase their positive impact.

However, despite the interest of many actors, among others, the local office of JAM - Joint Aid Management, an international NGO working in the field of agriculture, assessing the results of biochar and the private sector, to produce a wide marketing plan, requires financial support to assess the impact of biochar. It is estimated that for the study to be well done, it takes a value of USD 55 000 for a duration of 24 months. On the other hand, the coal production process from waste is already under way and only requires an investment USD 24250 to replicate the pilot to wider scale.

# CHARCOAL AND BIOCHAR



<b>PROJECT'S NAME</b>	CHARCOAL AND BIOCHAR
<b>LOCALISATION</b>	Vilanculos, Inhambane Province, Expansion to all Mozambique
<b>THEMES</b>	<ul style="list-style-type: none"><li>• Municipal organic waste transformation into coal</li><li>• Soil fertility improvement</li></ul>
<b>PROJECT'S COST</b>	USD 24,250 for coal, USD 55,000 for biochar,
<b>DURATION</b>	24 months
<b>PURPOSE</b>	Transform municipal organic waste into charcoal and biochar
<b>GOALS</b>	<ul style="list-style-type: none"><li>• Teaching communities how to produce charcoal from organic waste, paper and cardboard</li><li>• Assess the positive impact of biochar in agriculture on Vilankulos' soils</li><li>• Produce and promote biochar among rural communities by improving soil fertility as a way to increase productivity and combating climate change</li></ul>

# CHARCOAL AND BIOCHAR



## ACTIVITIES

- Municipal waste processing (organic, garden waste and waste paper and cardboard) to make charcoal and biochar
- Biochar conversion into a powerful fertilizer through its mixture (= his load) with different materials
- Training farmers on biochar's production and use
- Dynamic research and adapted testing with scientific results
- Registration and monitoring of waste use and calculation of greenhouse gases emissions savings.

## IMPLEMENTERS AND PARTNERS

- AMOR - Mozambican Association of Recycling
- JAM - Joint Aid Management

## VISION

- Organic municipal waste, paper and cardboard are recycled to produce coal used by citizens.
- Farmers are using the coal ashes to produce biochar.
- Environmental impact mitigated by recycling waste, is reducing the use of chemical fertilizers, reducing deforestation and increasing carbon sequestration in soils.



**HANDICRAFT AND  
UPCYCLING  
SUPPORT**



# HANDICRAFT AND UPCYCLING

## Support handicraft initiatives and upcycling from wastes

Since its inception, AMOR has always been working with artists and craftsmen to promote art and handcraft made from recycled material trashes. Through a partnership with *What's in Waste*, which creates and sells handcraft from wastes (such as wallets made from juice boxes, rings from packages of chips, etc.) since 2010, AMOR trained 5 members of *Xidzuki*<sup>1</sup> to handcraft from wastes. Other synergies, with young IT technicians are being sought in order to recycle part of the electronic material received.

In the last quarter of 2014 and 2015, an ecological Christmas tree was created using more than 6000 plastic bottles in partnership with *Piratas do Pau*, sponsored by Millennium BIM Bank under the project Recycle and Win Project – A clean city for me. Within the project Recycle and Win, children of Environmental Clubs are also training in creation of objects made from waste (toys, gifts, etc). As an example, children of the Clubs of the Environment and from the orphanage *Casa do Gaiato* created the decorations for the Christmas tree.

Since 2013, AMOR has been developing the green pages of recycling, which aim to list all the actors of recycling in the country, focusing on artists and communities that innovate with recycling. Several projects were designed such as the manufacture of musical instruments from waste for the Agozito School Festival.

The partnership spirit of AMOR is very strong, between schools and Civil Society with a view to promote Upcycling, which is the process of turning useless and disposable waste or products into new materials of higher value, use or quality. Following this objective, we are trying to organize formation for disadvantaged groups (youth and woman unemployed) about recycling trashes into handcraft and micro entrepreneurship. By these formations, we want to promote social insertion.

Concretely, we are doing 4 actions right now and we need help:

1. Training on trash based Handcraft for 15 women and youths
2. Exhibition during public events and sales in shops across the all country
3. Online catalogue and partnerships with foreign shops
4. Green Pages as an useful and updated index of recycling and environmental initiatives through the country

For a one year project, a total of USD 14 030 will allow AMOR to strengthen the links between artists, craftsmen, and the recycling sector. It would enable the provision of waste to artists as well as the organization of online and physical exhibitions, but also, links creation with schools and between the various initiatives across the country.

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<sup>1</sup>Under the project of the Network of Eco-point, AMOR started in 2009 a partnership with this association of seropositive people Xidzuki. Today, thanks to training and capacitating from AMOR, 15 members of Xidzuki already are working on the scope of the Eco-point Network of AMOR.

# HANDICRAFT AND UPCYCLING



<b>PROJECT'S NAME</b>	<b>HANDICRAFT AND UPCYCLING</b>
<b>LOCALISATION</b>	Maputo, Matola, Vilankulos, Beira, Mozambique
<b>THEMES</b>	<ul style="list-style-type: none"><li>• Income Generation</li><li>• Socio-economic support to artists and entrepreneurs</li><li>• Strengthening of local associations and cooperatives</li></ul>
<b>PROJECT'S COST</b>	USD 14 030
<b>DURATION</b>	12 months
<b>PURPOSE</b>	Improve living conditions and socio-economic integration of artists and craftsmen who work with recycled materials
<b>GOALS</b>	Promote recycling through creativity and art, using waste to produce new materials or products with higher value, use, or quality.



# HANDICRAFT AND UPCYCLING



## ACTIVITIES

- Training and capacity building for handicraft managers
- Training for handicrafts skills building
- Training for micro-entrepreneurship
- Supply recyclable material to artists and companies
- Strengthening and training local associations and cooperatives
- Physical Exhibition and partnership with galleries and shops
- Online Exhibition and partnership with e-shopping, and fair-trade
- Update and promotion of Green Pages of recycling

## EXPECTED RESULTS

- New jobs creation
- Encouraging micro-entrepreneurship
- Promoting recycling amongst society
- Strengthening of local associations and cooperatives.

## IMPLEMENTERS AND PARTNERS

- AMOR – Mozambican Association of Recycling
- Xidzuki – and supporters
- What's In Waste – Creating and Selling Waste

## VISION

- Artists and independent artisans encouraging the population to recycle and be creative with the recyclable waste.



**CREATIVE  
SOLUTIONS**

## Creation of clothes and fashion articles from waste

This project is directly linked with the anterior project of handicraft promotion, with a fashion approach and creation of clothes.

The project aim to select 30 young in 10 schools of Maputo and Matola, from 16 to 23 years old with a strong interest about fashion and design, with special focus on women. They will receive a short formation on sewing and cutting, which will allow them to participate on clothes creation contest with old material and wastes. In addition to theses youths, a group of 10 collectors could be included to participate to both, the formation and the contest.

At the end of the contest, a parade will be organized about the theme “Reduce, Reuse and Recycle more!” Each designer would have to find people among his entourage to participate to the parade. In that way, the project will promote an other type of fashion accessible for anyone and not only for models from magazines.

A special gift will be deliver to the bests designers, by a jury composed of fashion professionals. The press will be involved from the beginning to the end of the project, specially the TV, to get more visibility and arouse public expectation. A weekly projection on TV will be diffuse to follow the progression of each participant. The workers will also be filmed in order to promote these people who are often marginalized by the mozambican society.

The documentary will be showed in the schools involved in the project « Recycle and Win » but more broadly, it will be used for spread the practical tools and the philosophy of 3R.

Specifically, the project pretends to:

- Stimulate youths and young women with creative ideas
- Provide tools to waste collectors for them to create new products out of recyclable materials
- Spread the 3R philosophy in the student community
- Reduce the amount of waste deposited at the municipal dump
- Promote a new Mozambican view on waste management and his workers, formal and informal

# CREATIVE SOLUTIONS



<b>PROJECT'S NAME</b>	<b>CREIATIVE SOLUTIONS</b>
<b>LOCALISATION</b>	Cities of Maputo e Matola
<b>THEMES</b>	Innovative and creative Solutions
<b>PROJECT'S COST</b>	USD 14 050 (excluding the media production and diffusion by press, which will be possible though partnerships)
<b>DURATION</b>	6 months
<b>PURPOSE</b>	Promote a new life style in Mozambican society though environmental, creative and stylish solutions
<b>GOALS</b>	Promote new income generation measures and solutions, in order to reduce the waste problem

# CREATIVE SOLUTIONS



## ACTIVITIES

- Selection of 30 youths in 15 schools
- Selection of 10 collectors
- Selection of teachers and jurors
- Training in sewing and cutting
- Confection of clothes
- Realization of a parade and clothes presentation
- Awarding the best designers
- Media coverage of the all process
- Production of movie/ documentary

## IMPLEMENTERS AND PARTNERS

- AMOR – Mozambican Association of Recycling
- Young and scavenger
- Social Communication organ
- Fashion Professional

## VISION

The Mozambican society has a better vision and consideration for waste values and the workers of this area.



**MY BIO DISTRICT**

## Green areas and leisure in the area Chota

Chota is a suburban neighborhood of Beira municipality has about 6,000 inhabitants and an area subject to flooding and erosion. 10 years ago most of the neighborhood practiced rice culture that use to feed the few residents that were existed. Today the old farms are land used by locals to build homes in areas parceled out by the municipality. What is striking on the large expansion area of Chota is the obvious lack of trees in the streets and green areas such as gardens and squares. But we all know the importance of green areas and trees for the population's well-being as well as to fight against erosion.

This project has a one year duration and aims to, on one hand, create green areas of recreation (gardens) and on the other hand, to plant trees on roadsides, as including the component of recycling, using for that purpose different glass bottles, plastic (PET) and tires to delimit the area of plants and beautifying public spaces. The partnership with the City is very important because they manage and plan the urban development.

The purpose of this project is to work directly with associations or local committees to implement the activities. The group formed will collect and / or receive certain types of recyclable materials such as tires, debris etc. that they will turn into leisure parks accessories assisted on technical level by the staff of AMOR. Thus, recyclable material is used to produce briquettes and games for creating parks and recreational areas. The planting will also be done by the community itself, which will be for both the beneficiaries and implementers of the project. Like so, the local population will be able to choose and contribute on how to revitalize its own living space.

To achieve sustainability, we will enable the association or the local Committee on seedling production and planting for subsequent sale of the same community at an affordable price. Once trained, the Committees can continue to produce and sell the seedlings to other neighborhoods in this way diffusing urban forestry. Synergies are also possible with the installation of a "Ecoponto" or buckets in the project model " AMOR buckets."

During the project will be produced a procedure guide on planting and seedling management and on objects production for recreational facilities. Sponsors and partners may have their image in this material as well as in Camisetas the project. We are still looking for partners and sponsors for the start of its implementation in Beira and we expect the Chota District experience to lead the project extension in other districts of the cities and the country.

# MY BIO DISTRICT



<b>PROJECT'S NAME</b>	<b>MY BIO DISTRICT</b>
<b>LOCALISATION</b>	Cities of Beira-Bairro da Chota
<b>THEMES</b>	<ul style="list-style-type: none"><li>• Urban planning, planting trees in the neighbourhood of Chota,</li><li>• Neighbourhood improvement with playing areas created by local groups,</li><li>• Creation of environmental sustainability in the neighbourhoods.</li></ul>
<b>PROJECT'S COST</b>	USD 21 887
<b>DURATION</b>	1 year
<b>PURPOSE</b>	Improve environmental and social conditions in an expanding neighbourhood.
<b>GOALS</b>	Increase the population's self-esteem with the environmental conditions improvement in the neighbourhood through the implementation of different actions for which Inhabitant will be actors and beneficiaries



# MY BIO DISTRICT



## ACTIVITIES

- Desenho do plano de urbanização com o Município
- Urbanization plan drawing with the Municipality
- Identification of green spaces and recreational areas implementation with the community and the local municipality
- Plantation of 200 seedlings along the roads
- Irrigation seedlings during two months
- Spaces Organization gardens in squares
- Plantation of different plant species in the identified locations.
- Organize the collection of recyclable material
- Use recycled materials to produce accessories for leisure areas
- Monitoring the various implementation activities

## IMPLEMENTERS AND PARTNERS

- AMOR - Mozambican Association of Recycling
- Municipal Council of Beira (CMB)

## VISION

- The green, healthy, and sustainable neighbourhood of Chota with a population aware of the importance of having more trees and green spots in their neighbourhoods;
- A private sector committed to environmental conservation.



**OTHER PROJECTS  
AND SERVICES**

# OTHER PROJECTS AND SERVICES

## Green pages

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AMOR is developing the "Green Pages" with which aims to promote and publish environmental initiatives in Mozambique. This includes articles produced from waste or recyclable materials, services in the environmental field and all environmental actions is aimed at environmental conservation environmental awareness. The idea is that all those, working in the area and for the environment have a space where they can publish their work enabling an exchange and synergies between the environmentalists and the general public.

## Environment and recycling training

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The training aims to empower specific groups (companies, public institutions from different sectors, communities, students, etc.) for the adoption of behaviours, attitudes and measures to mitigate the environmental problems from simple techniques. These are focused on (but not limited) Reduction, Reuse and Recycling of waste as the sustainable use of natural resources. Through the training we intend to provide different and simple tools and practices that encourage the environment protection and preservation.

## Clean beach

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Concerned about the major problems related to the misuse of beaches , AMOR, in its partnership with the CMM, intends to develop the Clean Beach project in Maputo. The project idea is to bring together the different sectors of Mozambican society (public and private) in order to create synergies for the development of activities (commercial, sports, cultural, social ...). Using its experience with the placement of recycling containers and waste buckets to protect the coastal area we want to develop and improve this idea to also promote tourism and the sustainable and inclusive development of the beaches of the Costa de Sol.

## Integrated solid waste management

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If you are concerned with the management of solid and liquid waste and want to give an environmentally friendly destination to your trash, please contact our partner company 3R ([www.3r-mozambique.com](http://www.3r-mozambique.com)) that provides integrated waste management services. Contact [info@3r-mozambique.com](mailto:info@3r-mozambique.com) +258 84 46 17 764.

If you only want to forward your recyclable waste to recycling points, you can contact the company RLR - Recyclable Waste Collection in person Mr. Francisco Langa: [langa.recolixo@gmail.com](mailto:langa.recolixo@gmail.com) +258 84 64 37 924.

# OTHER PROJECTS AND SERVICES

**Other projects? Contact us to implement together!**

If you have ideas and projects linked to Reduction, Reuse and Recycling of waste or other environmental ideas that you would like to implement, please contact us to see how we can support and participate in sustainable development in Mozambique.



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REFERENCES OF  
AMOR

Millennium  
bim

Millennium  
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# REFERENCES OF AMOR

*The following projects are some of the projects developed by AMOR since 2010. They are not only references of our past, they're also projects that can be replicated and also improved in the future.*



## **TRAINING MICRO ENTREPRISES AND ASSOCIATIONS ON THE ECOPOINTS MANAGEMENT – SINCE 2014**

Support / Donner: JICA, Fonds Suez Environnement Initiatives, AVIS

Progressively, by focusing on the empowerment of minority groups and entrepreneurship, AMOR gave more autonomy to its Eco-points, managed today by microenterprise RLR - Recyclable Waste Collection, also dedicated to collection of recyclable waste tricycles. Today, AMOR enables small and medium-sized entities in the installation and management of independent Eco-points. In Maputo, the project "3R Station" was developed and implemented which consisted of the placement within the Zimpeto neighbourhood of a point of purchase and recycled material collection managed by micro Oliveira Multi-service. Similar initiatives are being developed in the neighbourhoods George Dimitrov (Benfica) and Xiquelene. In Beira, it was also installed one collection point in Xipangara district, operated by ADCS association and 4 others Eco-points should follow throughout the year 2016 in Chiveve.

# REFERENCES OF AMOR



## THE ECOPOINTS NETWORK – SINCE 2010

Support / Donor: Mcel, CTB, SDC, Embassy of Germany, Fonds Suez Environment Initiatives

Soon after its creation, AMOR began installing a network of "Ecoponto" these are points of separation and collection of recyclable materials, intended for recycling. As far as possible, recyclable waste are purchased by Eco-points, to create a source of income for sellers. Next, waste is placed in bags and is sold in bulk to the recycling industry. In Maputo, a partnership was established with the community association "Xidzuki" which supports HIV-positive people in order to empower women to manage the recycling points. In parallel, it organized the collection of recyclable waste collection using tricycles, enabling young people to this activity.



## BINS OF AMOR – SINCE 2012

Customer / Donor: Mcel, BIM, Beers of Mozambique Lodges in Vilankulos

The poor disposal of waste sites along the public beaches and the lack of environmental consciousness of society in general were the reasons to create the AMOR's project "AMOR buckets." It consists of placing waste buckets in an area previously identified for the collection of waste, whether recyclable or not. After placing buckets on the beach of Costa do Sol, in the soccer field area of Beers of Mozambique, and on the Kit Surf area, the project was taken to the beach of Vilanculos in Inhambane province with the support of some Lodges and local artists who made painting of the same. In Feima in Maputo, 18 buckets were installed with the support of the BIM and 6 artists who participated in a contest of ornamental buckets. In addition to strengthening the municipal waste collection mechanism, one of the objectives of this initiative is to change the image of waste, starting at the deposit point.

# REFERENCES OF AMOR



## **RECYCLE AND WIN – SINCE 2013**

Support / Donner: Millennium BIM, PANNE (EU), Fonds Suez Environnement Initiatives, AVSI, Lodges Vilankulos

In order to raise the population awareness from the earliest stages of school education about the need of recycling and environmental preservation, AMOR, in partnership with Millennium BIM implemented in 2014 and 2015 in the city of Maputo and the City of Vilankulos the program "Recycle and Win », one educational management program for recyclable waste. The program consists of school recycling centre facility in each participating school and conducting practical and theoretical environmental education activities (lectures, recycling workshops, tree planting, etc.), which aim to cultivate pro environmental spirit in children. To encourage the participation of the school's community each kilogram of separate recyclable waste equate to 1mt distributed to improve teaching conditions. The best schools also earn additional bonuses.



## **COAL AND BIOCHAR – SINCE 2014**

Partners: Town Hall of Vilankulos, JAM

One of the big problems in Mozambique is deforestation due not only to unsustainable forest exploitation, but also to increasing consumption of charcoal. Thus, it is estimated that each day, the cities of Maputo and Matola but around 800t of coal that is being produced from 4200t of daily cut. On the other side in the same cities about 800t of organic waste are produced daily hence the idea to produce coal from organic waste, paper and cardboard. Currently the coal project and bio coal is being implemented in Vilankulos to produce coal. The coal dust is used as biochar, applied in sandy soils to improve their retention and their fertility.



# REFERENCES OF AMOR



## **USED OIL, RECYCLED AS BIODIESEL – SINCE 2014**

Support: GiZ

The environmental concern linked to the used cooking oils was expressed formally in a study of the CNPML (national cleaner production Centre). Through a simple processing technology used in neighbouring South Africa, the AMOR with support of GiZ, acquired an a processing-unit that has turn used cooking oil into biodiesel. Today about 200 litres of waste oil is collected weekly in Maputo, providing hotels and restaurants as the KFCs, Campo di Fiori, 1908 etc. The biodiesel produced is used on the vehicles of AMOR.



## **CHRISTMAS TREES AND OTHERS ECOLOGICAL STRUCTURES – SINCE 2014**

Customers and partners: Piratas do Pau, Millennium BIM, FUNAB

Since 2014, AMOR, in partnership with the Piratas do Pau, carried out the initiative to reuse thousands of PET bottles in ecological constructions. In the year 2014 more than 4000 bottles were reused for the production of an eco-friendly Christmas tree of 3 meters that was placed in the city of Maputo. In 2015 over 10000 bottles were reused for the construction of two Christmas trees, one in Maputo with 7 meters high where they were needed about 6000 of PET bottles and another in Vilankulos of 3 meters high. This is an activity that you decorate with the participation of children from orphanages and some schools at the national level with the aim of raising the environmental awareness of residents and promote the recycling. Other ecological frameworks are possible according to the messages and needs of the partners.

# REFERENCES OF AMOR



## **WASTE MANAGEMENT ON EVENTS – SINCE 2013**

Customers and partners: AZGO, Millennium BIM, Portuguese School

The AMOR has organised the waste management in various types of events. According to the needs of the clients, waste bins and sorting centre are installed. We also organized workshops of recycling to the public. The main message with this type of initiative is to show that it is possible to organize any type of event of greater affluence, while preserving the quality of the environment. Thus annually the AMOR participates in various events by organizing the management of waste, as in the festival AZGO, in the race of BIM, in the exhibition of the Portuguese school, in the Portuguese community's Christmas party, etc.



## **WORKING GROUPS ON WASTE SECTOR - SINCE 2014**

Support and partner: the Belgian Government, KfW

A AMOR participates actively in the working group about the opportunities of climate financing in the sector of municipal waste management in Mozambique.

This group was created in May 2014 in order to identify opportunities of climate financing in the waste sector and support the formulation of requests to be presented by the Mozambican government in the international community. Led by MITADER (Ministry in charge of environment) and with the active participation of ANAMM – National Association of Municipalities in Mozambique, the FUNAB – National Fund for the Environment, Carbon Africa, experts in climate funds, and of AMOR, in addition to other stakeholders timely.

# REFERENCES OF AMOR



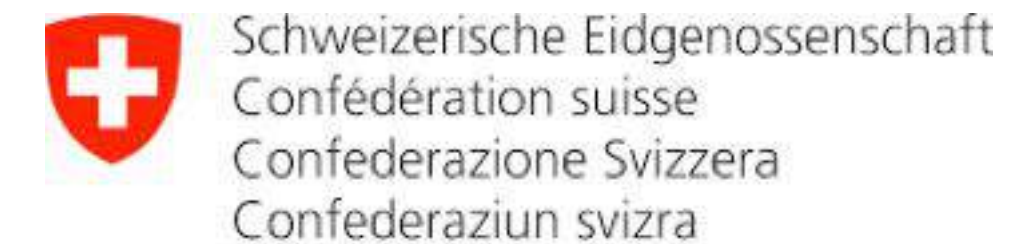
## **FEASABILITY STUDIES AND PLANS ON WASTE MANAGEMENT FOR INCOME GENRATING ACTIVITIES – SINCE 2013**

Client: WWF, CDN – Corridor Development in the North

In Bazaruto, the AMOR developed the strategy for Zero Waste in Bazaruto. It is about providing alternatives to fishing, through the recycling and waste management with the dual objective of (1) cleaning the National Park of their waste and (2) reducing fishing pressure through giving to fishermen and their families, economical alternatives linked to the recycling and waste management. Therefore, the project has 3 components: integrated solutions of waste management in hotels, school competition for recycling in the schools, and the manufacture and sale of crafts with recycled products. In Nampula, the AMOR prepared a study of the reuse of Solid Waste as alternative income generation with a focus on clearing and protecting the areas of operational safety of the railway Corridor Development in the North.

# PARTNERS

Thanks to our past and current partners



# CONTACT US !!

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