

Pa Zet Nanien

Mahebourg Youth Centre

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Divya and Diya



About Pa Zet Nanien

Pa Zet Nanien is an initiative by a very conscious and proactive team from the National leadership Engine of the NPCC from the Mahebourg branch who wants to promote zero waste concept among local communities by reducing their household wastes thus playing a vital role in the conservation and protection of our fragile environment. This project aims to empower our local communities towards a paradigm shift from linear economy to circular economy.

Mauritius being a Small Island Development State (SIDs) is facing major environmental problems such as pollution, loss of biodiversity, increase in sea level, coastal erosion and coral bleaching. Our team will initiate public awareness on ways to face increasing climatic challenges and will help our citizen to contribute efficiently towards sustainable living. We are simply using DIY techniques to recycle plastic bottles, tin cans, old tires, kitchen garbage into useful and innovative products. It is also an opportunity to create employment as those products from wastage can be commercialised.

The value of our Motherland is the essence of our existence and as a patriot we are duty bound to protect it.

Outline

01

Problem
Definition

02

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03

Innovativeness
of Pa Zet Nanien

04

Project Implementation
Plan & Stakeholders

05

Challenges and
Action taken

06

Results



01. Problem Definition

Polluting our paradise island





Mauritius as a Small Island Developing States (SIDS) is **highly** vulnerable to climate change

Covid 19 Pandemic,
Food security

Environmental
Pollution, **threat**
to Biodiversity

Problem Definition

Green house Gas Emission increased by **2.9%** from 2018 to 2019.

Gross emissions went up from **5613** to **5777** tonnes of carbon dioxide equivalent.

Waste sector contributed around **23%** of CO2 emissions.

Solid waste landfilled at Mare Chicose weighed **537,147** tonnes. Mauritius Produces around **1,488** tonnes of wastes daily.

Rs 1.5 billion spent annually on waste management.

Problem 1

- ❖ Mauritius as a small island developing state (SIDS) is amongst the **most vulnerable** to climate change and most exposed to natural hazards.
- ❖ Time to act to help our small paradise and create **resilience** amongst the society

Effect of climate change on life in Mauritius
Mauritius | 2017

AFRO
BAROMETER
LET THE PEOPLE HAVE A SAY



61%

of Mauritians say
climate change is
making life worse

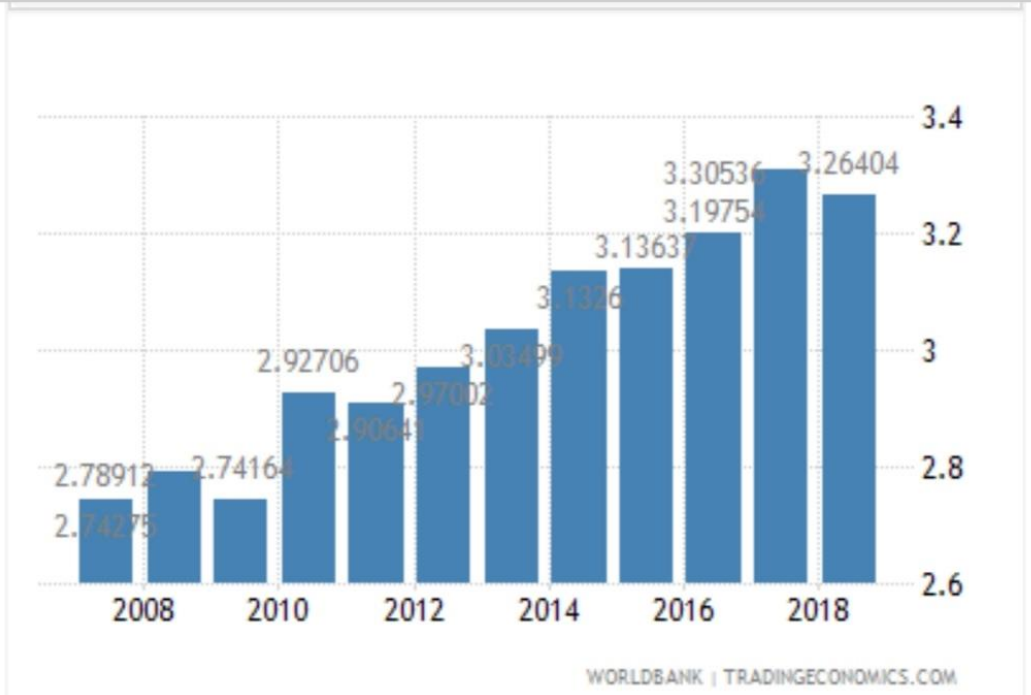
Problem 2: Increased emission of green house gas (carbon dioxide)



According to Statistics Mauritius, Green house Gas Emission increased by **2.9%** from 2018 to 2019. Gross emissions went up from **5613 to 5777 tonnes** of carbon dioxide equivalent.

Waste sector contributed around **23%** of Carbon dioxide emission.

Mauritius - CO2 Emissions (metric Tons Per Capita)

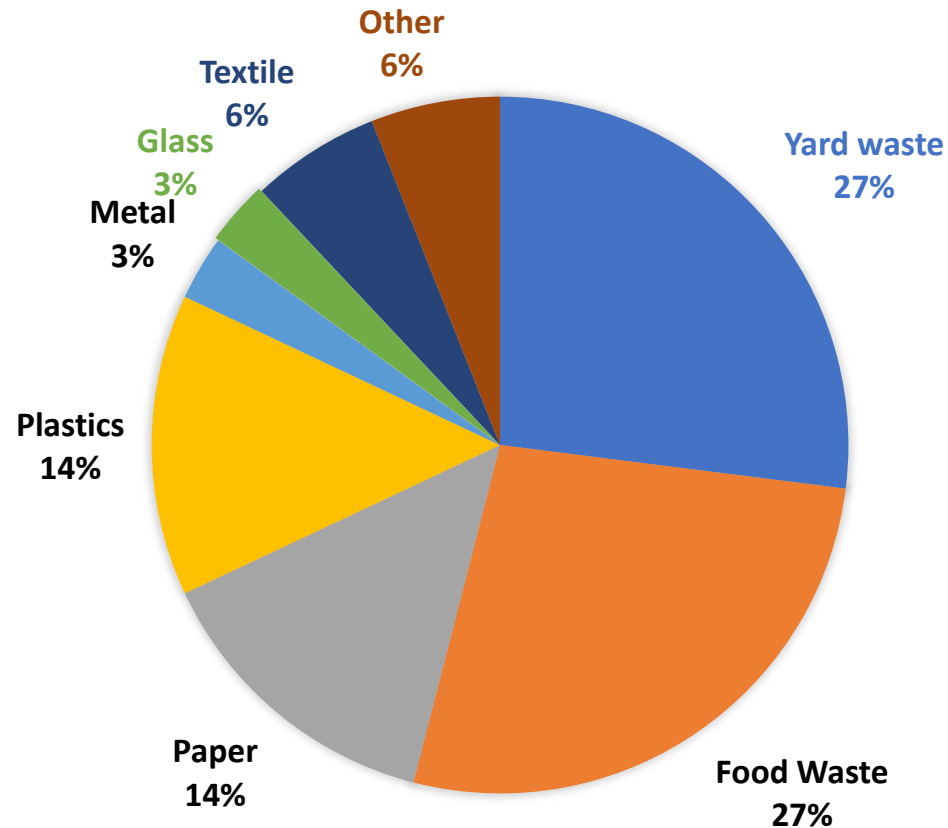


*Source: The World Bank

Problem 3: Saturation of solid waste Landfill



TYPES OF WASTES GENERATED IN MAURITIUS



According to solid waste management in Mauritius, solid waste landfilled at Mare Chicose weighed **537,147** tonnes.

Mauritius Produces around **1,488** tonnes of wastes daily. The Government **spend Rs 1.5** billion annually on waste management.

*Source: Ministry of Environment, Solid Waste Management and Climate Change



Problem 4: Environmental Pollution and threat to biodiversity



Plastic wastes account for more than **75,000 tonnes** (14%) of wastes which are landfilled annually.

Only **2,000 to 3,000** tonnes of plastic wastes are **recycled** yearly.

Plastic pollution impacts on marine life

Health issues: 1. Bioaccumulation of microplastics in bloodstream. 2. Burning of plastic wastes.



Effects of **plastic** on coral reefs

In areas polluted by plastic corals **are more susceptible to disease development. Can cause physical injury to coral tissues and thus **promote** their infection by bacteria present on plastic debris(Avio et al, 2017).**

Problem 5: Covid 19 Pandemic



- ❖ **10%** of Mauritian households said they **could not** purchase basic food items in July.
- ❖ **12%** of households said they had to skip a meal in July.
- ❖ **31%** of households in July said their income had been reduced.
- ❖ **11%** of employees said that they were working shorter hours than before Covid-19.
- ❖ **84.4%** of self-employed and businesses said they were making less money.
- ❖ **40%** of households said that they had reduced their food consumption in July.
- ❖ **36,800** jobs lost between the start of the year to July.
- ❖ **31,600** jobs lost in the informal sector.
- ❖ **5200** jobs lost in the formal sector

Problem 6: Clogs drains leading to floods



**Flash floods
due to clogs
drains caused
by plastic
bottles and
other wastes**

* Source: 350. org



02. Data Collection

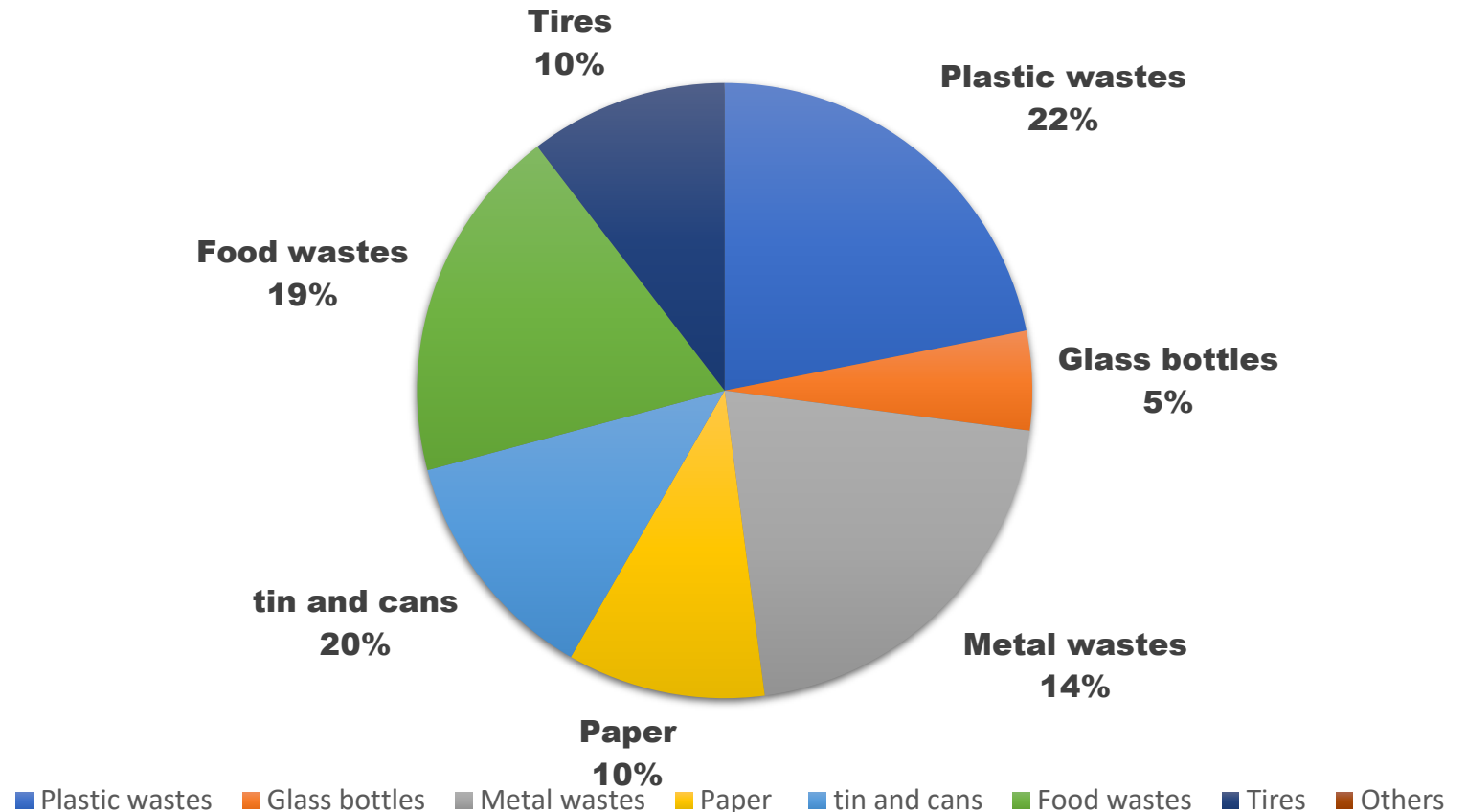


Data Collection through surveys

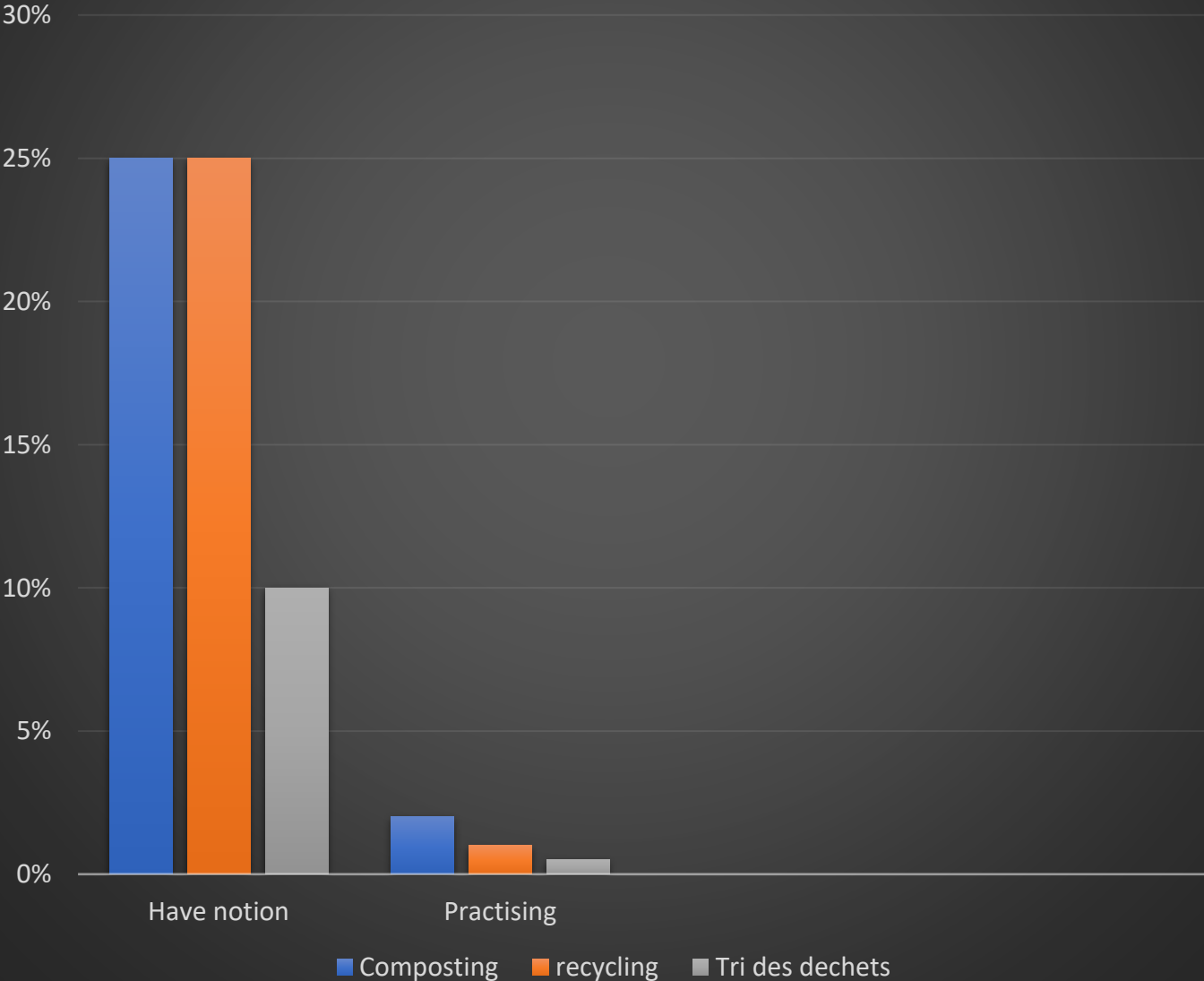


Types of wastes	Number of person out of 820	Percentage (%)
Tires	82	10
Plastic wastes	180	22
Glass bottles	41	5
Metal wastes	115	14
Paper	82	10
Tin and cans	164	20
Food wastes	156	19

Types of domestic wastes in the region of Mahebourg

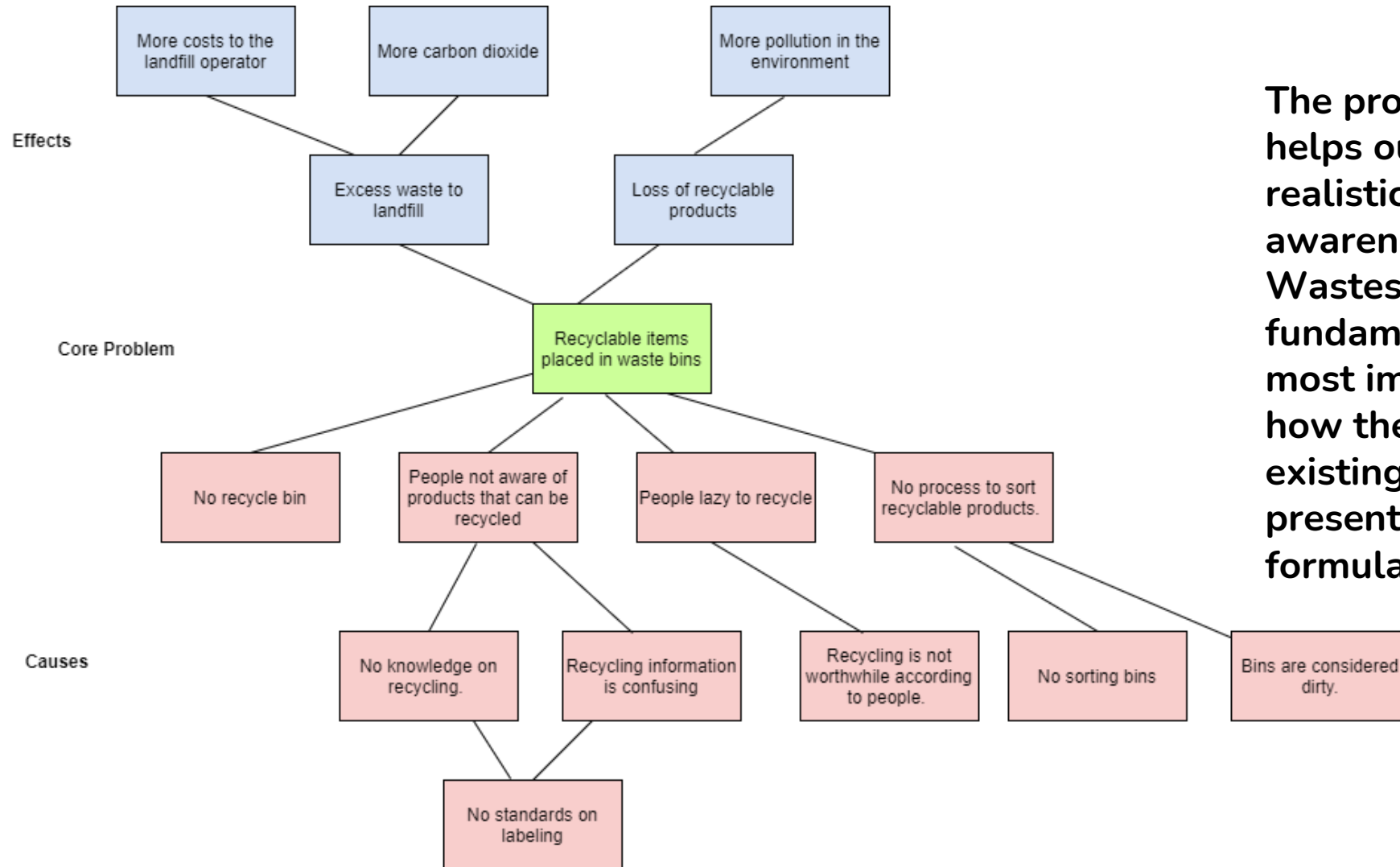


Percentage of local inhabitants
(Mahebourg Region) on Knowledge and
implementation of composting, recycling
and waste sorting



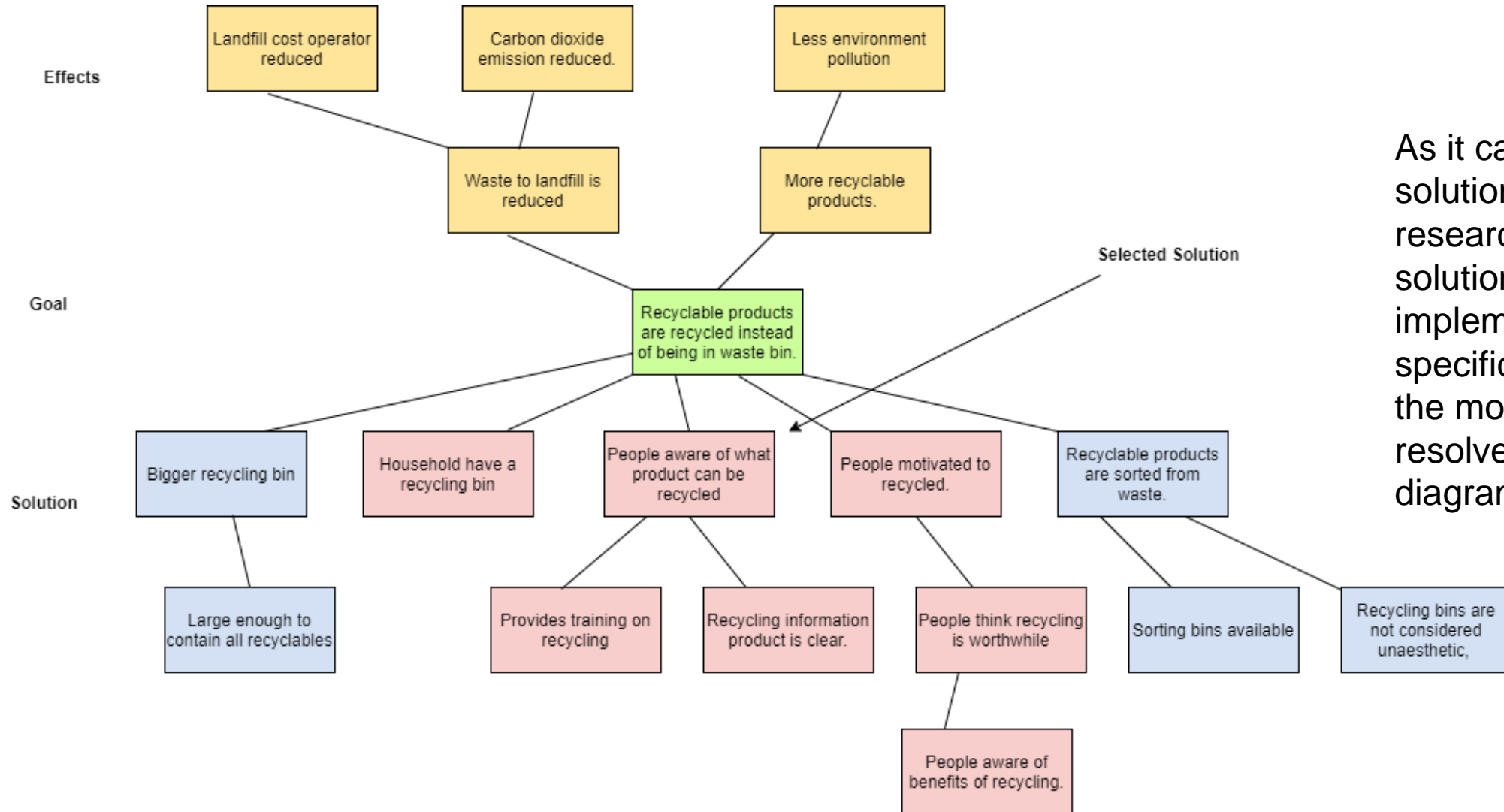
Items	Number of person having notion out of 820	Percentage of person having notion/%	Number of person practising out of 820	Percentage of person practising/%	
Composting	205	25	33	4	
Recycling	205	25	20	2.4	
Waste sorting	82	10	17	2	

Problem Tree Diagram



The problem tree diagram helps our team to establish a realistic overview and awareness of the problem of Wastes by identifying its fundamental causes and its most important effects. This is how the summary of the existing negative situation presented in section 01 was formulated

Solution Tree Diagram



As it can be seen from the solution analysis, we have researched lots of possible solutions and we chose our implementation as this specific solution will have the most impact that will resolve the problem tree diagram

The utopia



**Recycling contamination
means more reusable
materials end up in the landfill.**

You can help by recycling right!



Our Solution

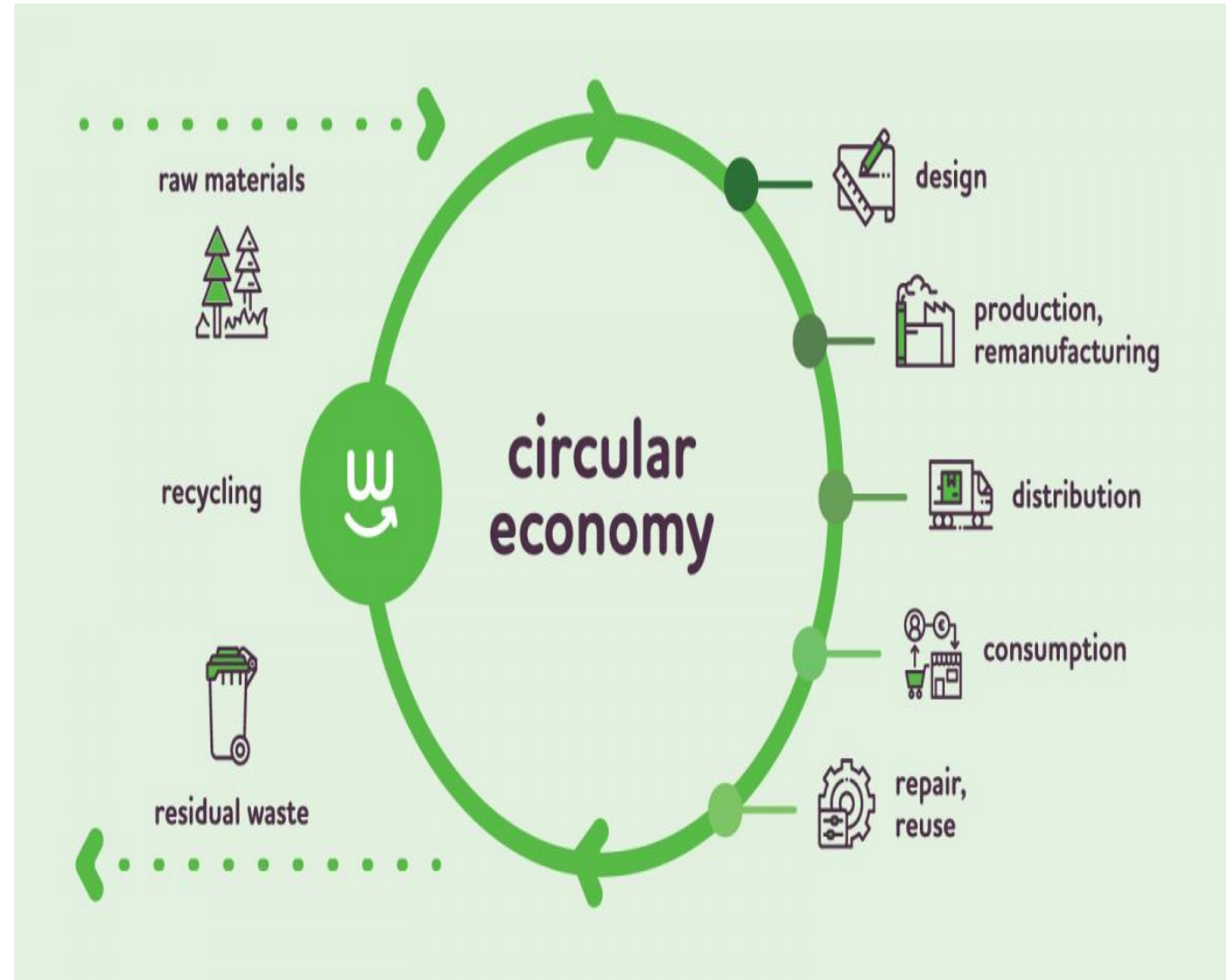
Nu lekip propose compostage, recyclage



Our Solution



- ❖ Simple methods used to recycle plastic bottles, glass bottles, tin cans
- ❖ Promote composting
- ❖ Exchange of unused product
- ❖ Grow your own food initiative
- ❖ Inculcate the notion of circular economy in the population



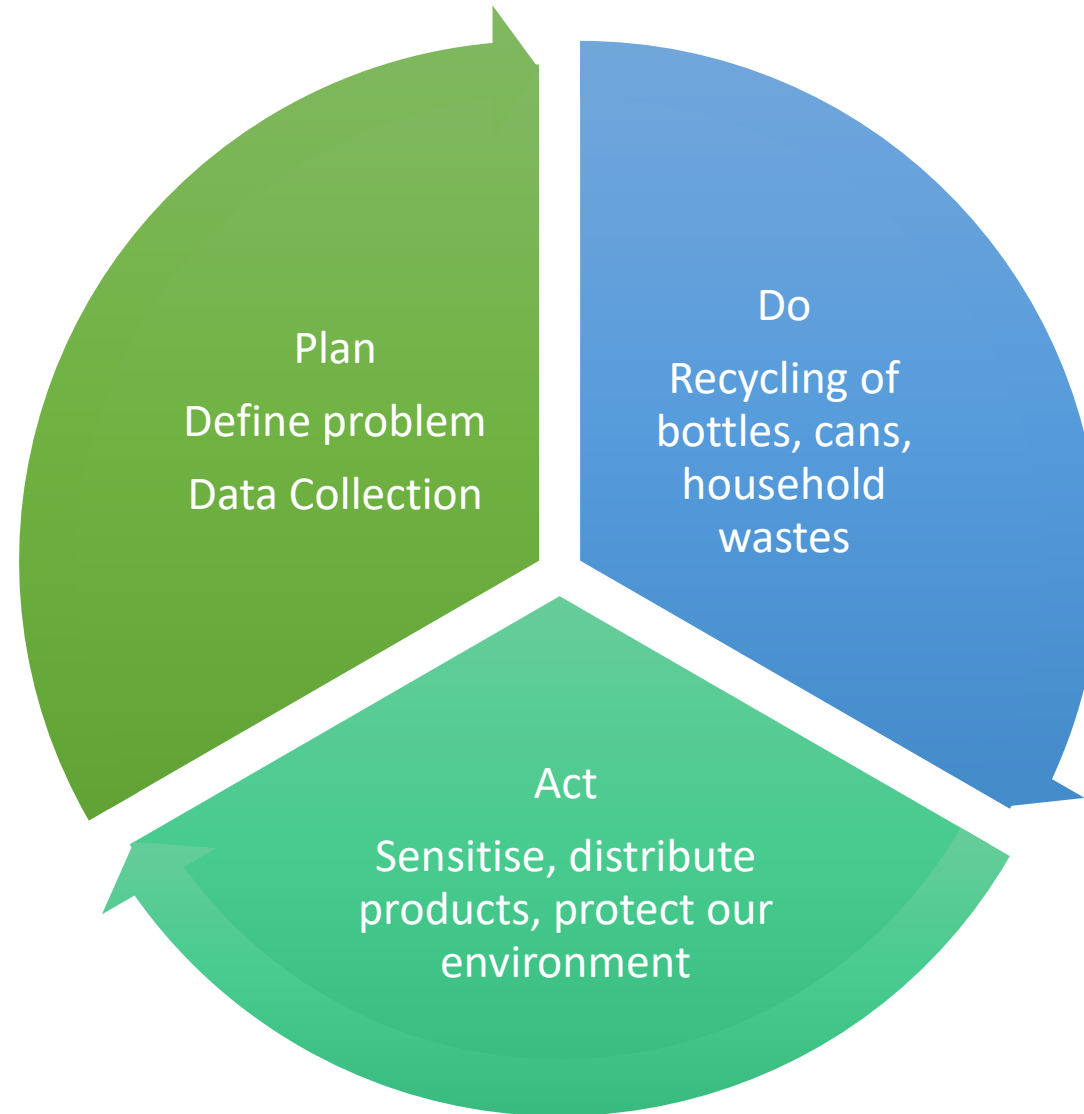


Innovativeness of solution selected

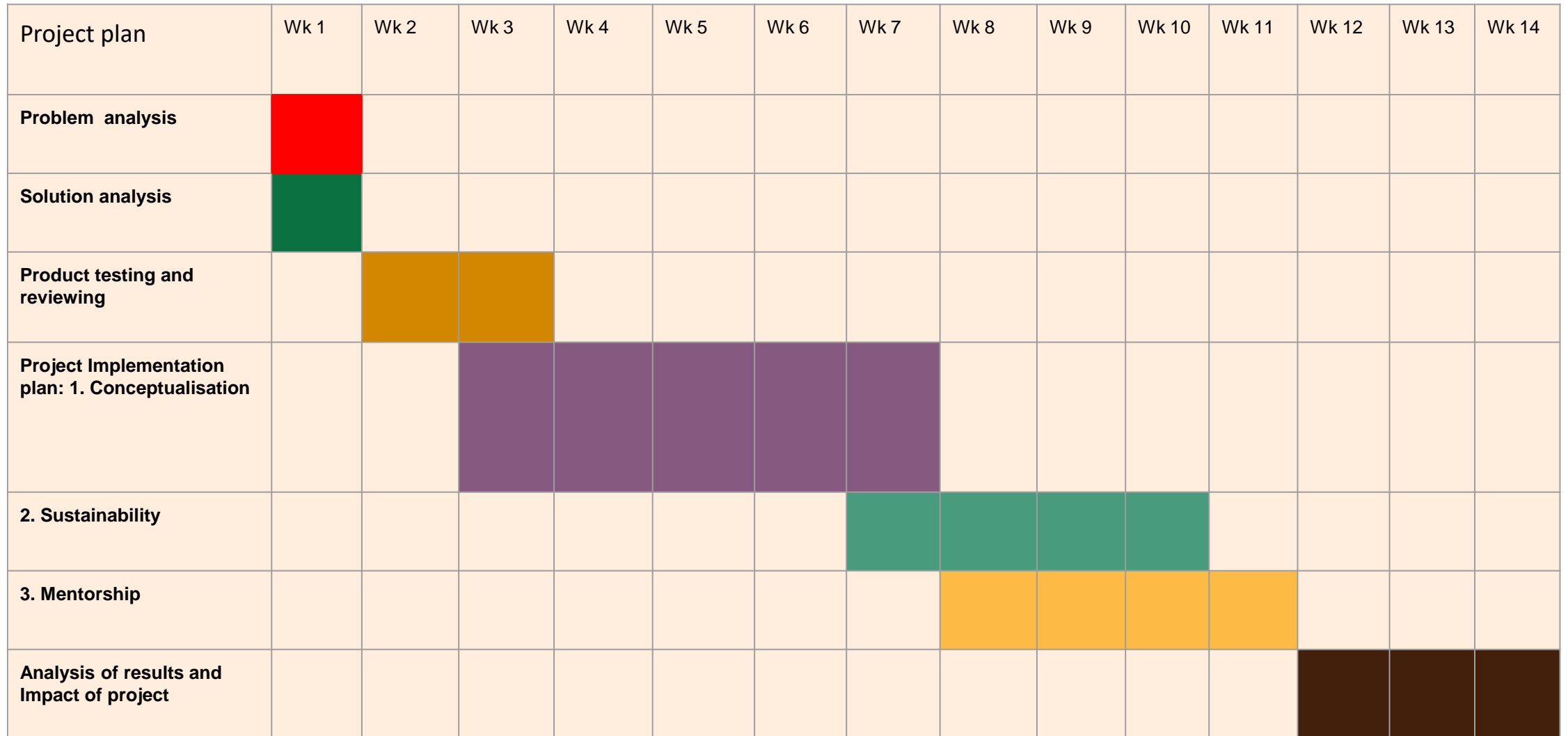
- ❖ **Easy, cheap, readily available**
- ❖ **Reduce expenditure, wise investment**
- ❖ **Environmentally healthy**
- ❖ **Proper training to our children, inculcate the seven R's of recycling (reduce, reuse, recycle, regenerate, responsabilise, restore, respect)**
- ❖ **New mode of life after pandemic**
- ❖ **Can create own enterprise**

04. Project Implementation Plan

The Deming cycle



Gantt Chart



Action Plan

1. Project planning

2. Survey

3.
Recyclable
Products

4. Solution to
problem through
our project

5. Concept
promotion

6.
Networking

7.
Sustainability

Project Implementation Plan



Phase 1: Conceptualisation & Solution

Introduce the concept to the local inhabitants

Phase 2: Sustainability



Phase 1: Conceptualisation

Video showing the collection of glass bottles at Morcellement Saint Andre



**During our
sensitisation campaign
the inhabitants of
Morcellement Saint
Andre, graciously
provided our team with
old glass bottles to be
recycled**

Creating aquarium with old glass bottles and pots



Decorative Glass Bottles





Tou possible avec lekip Pa Zet Nanien



Before



After



Embellish your house but **Don't** pollute mother earth!



Decorative bottle lights



Bottles used to show a theme



**Our Team
donated
recycled
bottles to the
Aquarelle
Textile
Industry of
Grand Bois,
these were
displayed
during their
Quality Week.**

Making table with **thrown** bottles



Process in the making of the table



Recycling of used glass bottle into a TABLE



Final product😊



Plastic pollution



- Most widespread problem affecting the marine environment.
- **Threatens** **ocean health**, **food safety** and quality, human health, **coastal** tourism and contributes to **climate change**.
- Clogs drains leading to floods
- Proliferation of mosquitoes

What can be done?

Stop throwing plastics

Simple DIY, recycling, plantation to promote grow your own food concept.

Say No to plastic



Annually more **than 300 million** tonnes of plastics are produced and approximately **500 billion plastic bags** are used worldwide

Lets make our island a plastic free paradise



Plastic waste contains:

- **29.11% Low Density Polyethene (LDPE)**
- **26.78% High Density Polyethene (HDPE)**
- **16.74% Polyethene terephthalate (PET)**
- **5.47% Polypropylene (PP)**
- **0.20% Polyvinyl chloride (PVC)**
- **0.20% Acrylonitrile Butadiene (ABS)**
- **20.67% other**

Recycling of plastic bottles to grow your own food..😊





Reusing plastic bottles







Members involved in promoting the concept of cultivating your own food



Recycling of an old **rusted bicycle** into a **modern bar table**.....cheers







Our final product



Reusing old tires



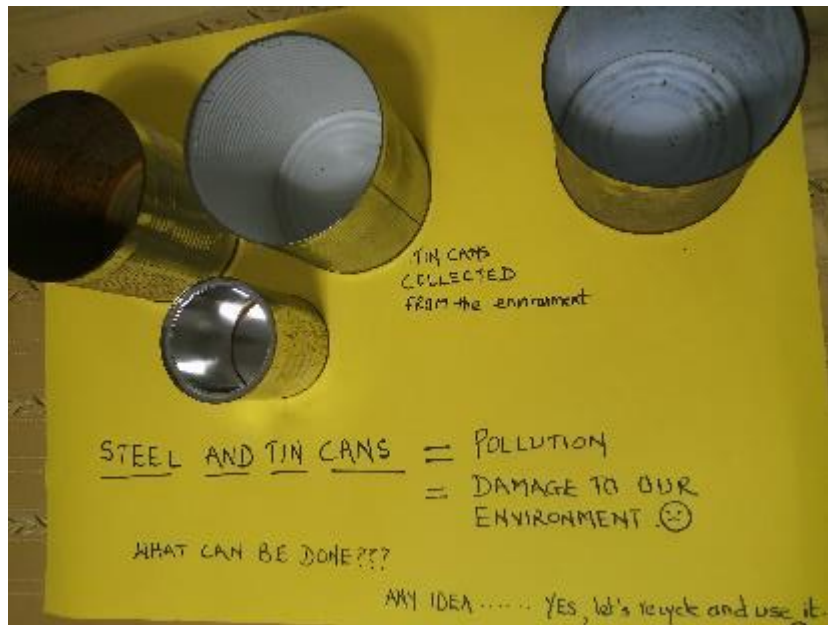
the right path....



Coffee table with thrown tires



Tin cans





After



Before



Video showing how you can make good use of wastes...



Composting



Newspaper Recycling



Coconut husk for **planting**



Fresque Murale at Grand Bois Government School





Fresque Murale at Grand Bois Government School







Phase 2: Sustainability



Training to students to make a table





Presentation and
sensitisation at
EASSS





Sensitisation at Emmanuel Anquetil SSS





Recycled bottles given as small token





Sensitisation to protect our small paradise





Sensitisation campaign



Small change can help to decrease the carbon foot print



Students involved in recycling process





**Sensitising our
younger generation
on different ways of
recycling**

Local inhabitants graciously provided us with tires and glass bottles for recycling





Future Plan



- 1. To implement this project over the whole island.**
- 2. To educate young children on simple methods of recycling.**
- 3. Creation of a sustainable village.**
- 4. Creation of an NGO and work with the Government for the protection of our environment.**
- 5. Promote mangrove plantation.**
- 6. Promote research to scientific students and allow regional and international cooperation for a better and sustainable paradise.**



- 7. Further sensitisation campaign.**
- 8. Work with NGOs (DPIN, ADD, Rotaract of Phoenix)**
- 9. Collection of plastic bottles from students and staff of EASSS and in return will provide them with seedlings thus promoting the concept of grow your own food.**
- 10. To distribute book marks among students.**
- 11. To liaise with other NGOs and authorities to engage youngsters in cleaning up campaign.**
- 12. Empowerment of women and children in simple ways of recycling**
- 13. Mural painting (to propagate the theme Pa Zet Nanien) in all schools across the island.**
- 14. Brainstorming sessions among the population**



Stakeholders



Stakeholders

Sponsors

Collaborators

Beneficiaries

Sponsors



1. Collection of old glass bottles at Morcellement St. Andre
2. Collection of old tires from Bridgestone
3. T- Shirts sponsored by Maison des Motos, L'escalier



Shirts sponsored by *Maison des motos* *L'escalier*



Local inhabitants graciously provided us with tires and glass bottles for recycling



Video showing the collection of glass bottles at Morcellement Saint Andre



**During our
sensitisation campaign
the inhabitants of
Morcellement Saint
Andre, graciously
provided our team with
old glass bottles to be
recycled**

Collaborators



- 1. Training at Emmanuel Anquetil SSS (3 different age group students)**
- 2. SME – In contact with Dr. Michael Pompeipa for our initiative**
- 3. Grand Port District Council**
- 4. Rotaract Phoenix**
- 5. Creation of our logo by Mr. Heman Ramdhan**
- 6. Member participated in the world clean up day at Riviere des creoles.**
- 7. Exposure of our products and some of our products were donated to the public at large and also exposed at Aquarelle Textile industry during their Quality Week.**



8. Thankful to Ms. Prathna Seeboruth for the mural painting at Grand Bois Government School.

9. The Head teacher of Grand Bois Government School.

10. MBC radio taal fm for propagating our vision and mission among the population.

11. Reef conservation

12. Association pour le development durable, DPIN

13. Union Park welfare association

14. Improchem

15. Lekip foot at gym 25 New Grove

16. CAB of Midlands.

17. Staff of SVSSS, Sungeelee SSS

18. Police Station of Mahebourg

19. Fire Rescue team



Prathna in
action... Painting
her passion..





Sensitisation at Easss



Sensitisation at Midlands CAB, Cluny, Bamboo, Sangeelee SSS, Triolet



Bottles used to show a theme



**Our Team
donated
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bottles to the
Aquarelle
Textile
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Quality Week.**

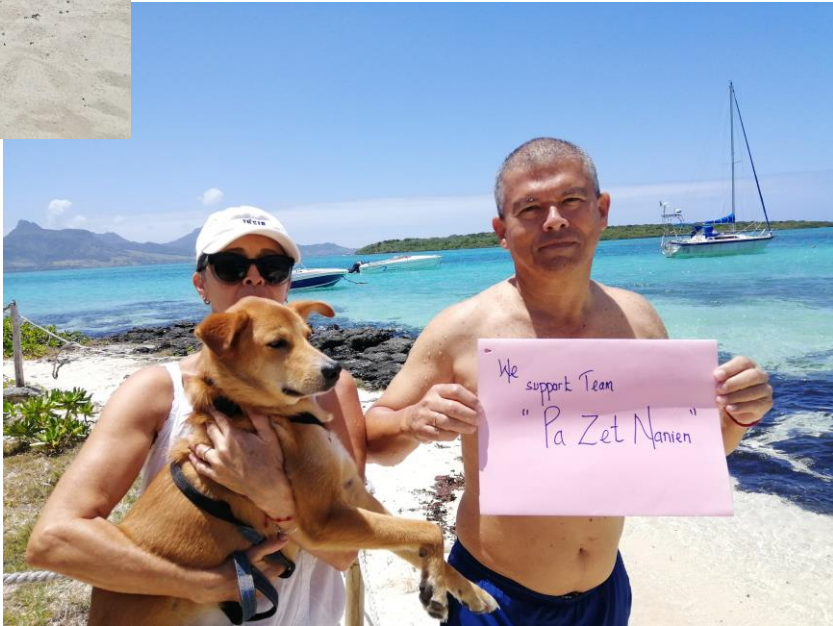
Beneficiaries

- 1. Mrs Affrose of 73 years earn her living by collecting plastic bottles.**
- 2. Talked to tourists concerning our initiative of our project.**
- 3. Provided some local habitants old tires for their roof plantation (Rose Belle, Mr. Mouthour)**
- 4. Students willing to use their glass pots as a mini aquarium.**
- 5. Mahebourg communities**
- 6. Mrs Choulun and family in Chamony**
- 7. Students of Grand Bois Government school.**

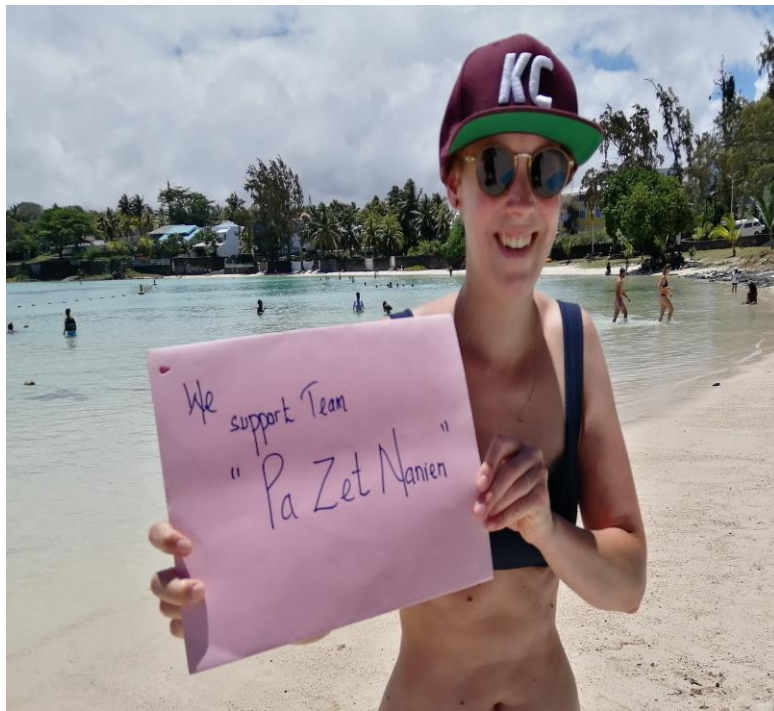


During the sensitisation campaign in Mahebourg our team came across with Afrose, an old lady. Afrose, at the **age of 73**, is still fighting to beat plastic pollution. She earns her living by collecting plastic bottles which are then being sent for recycling and thus gives a helping hand in the global endeavour to protect our beautiful, unique and vulnerable planet.

An appeal to younger generation to take the challenge and keep the fight on to make our island a plastic free one.









**Support from
Rodrigues island**



**Fisherman in
Mahebourg**



Mahebourg Market



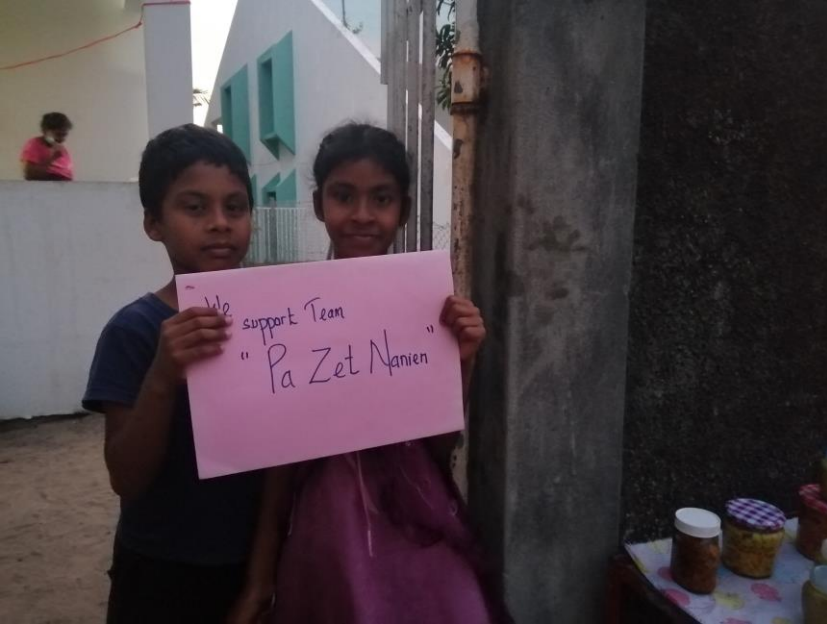


Fruit Seller in Blue Bay





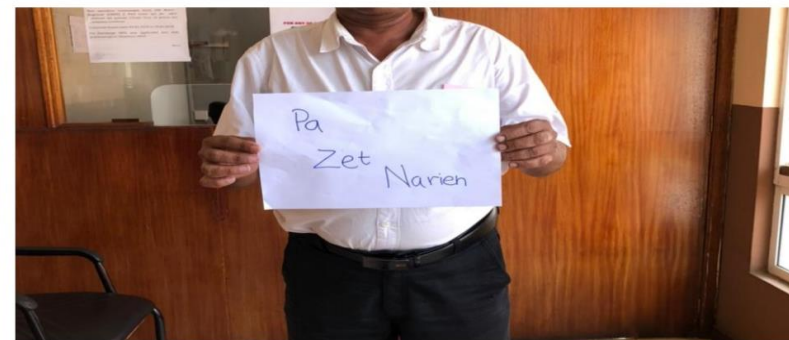
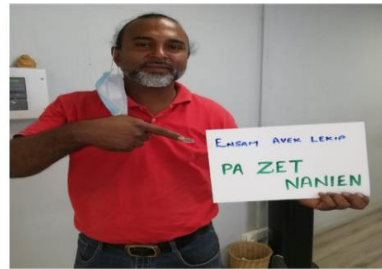
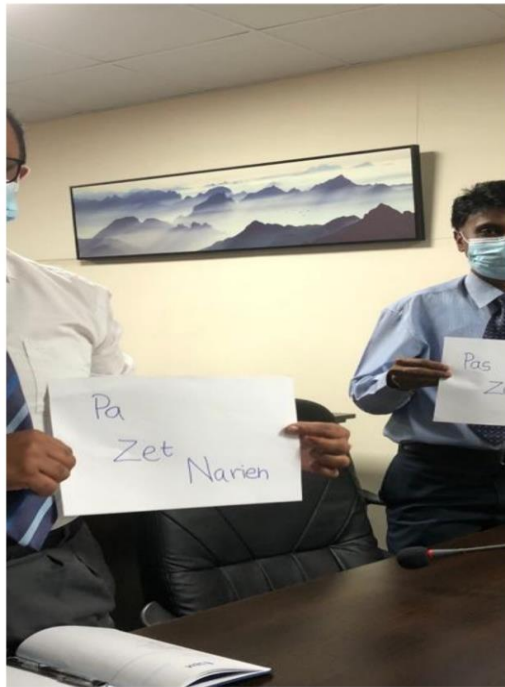
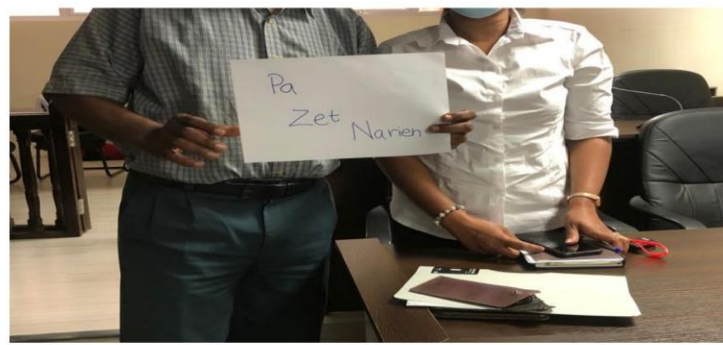
Fire Rescue Team



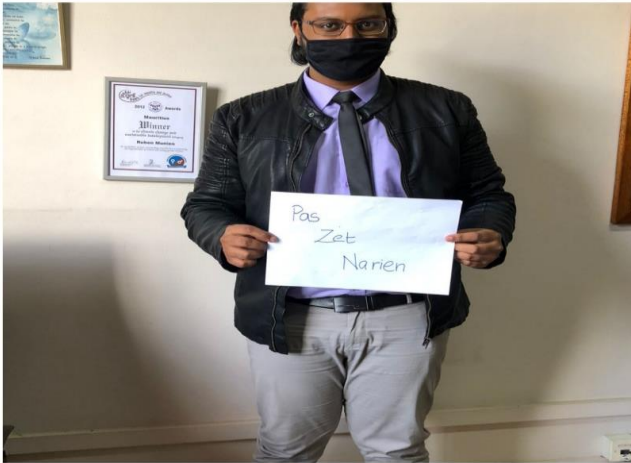
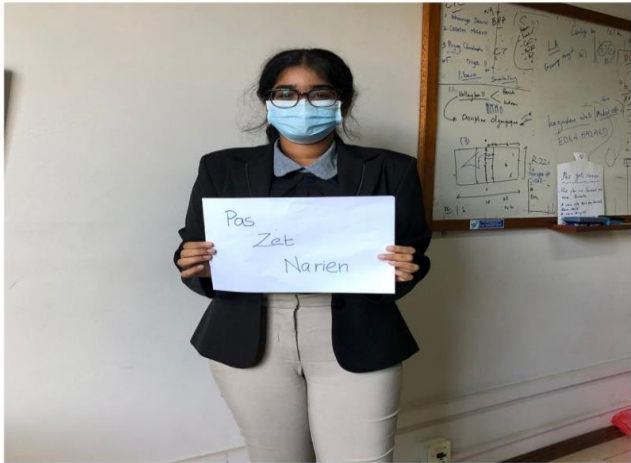
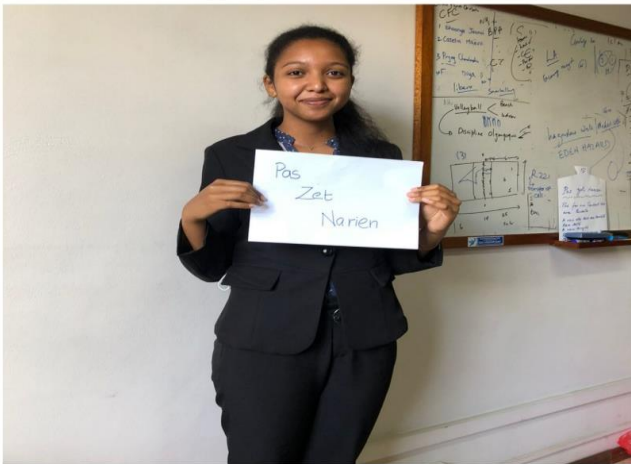
Riambel village

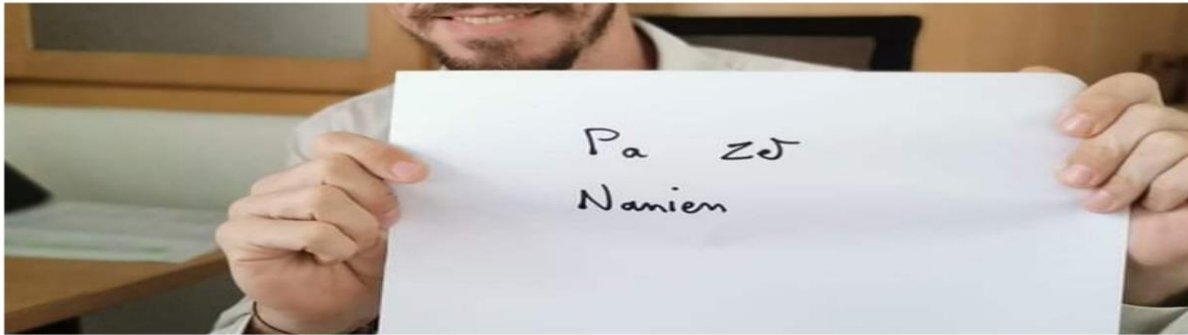


Sensitisation campaign at Grand Port District Council..



Sensitisation
campaign and
workshop at
Grand Port
District Council





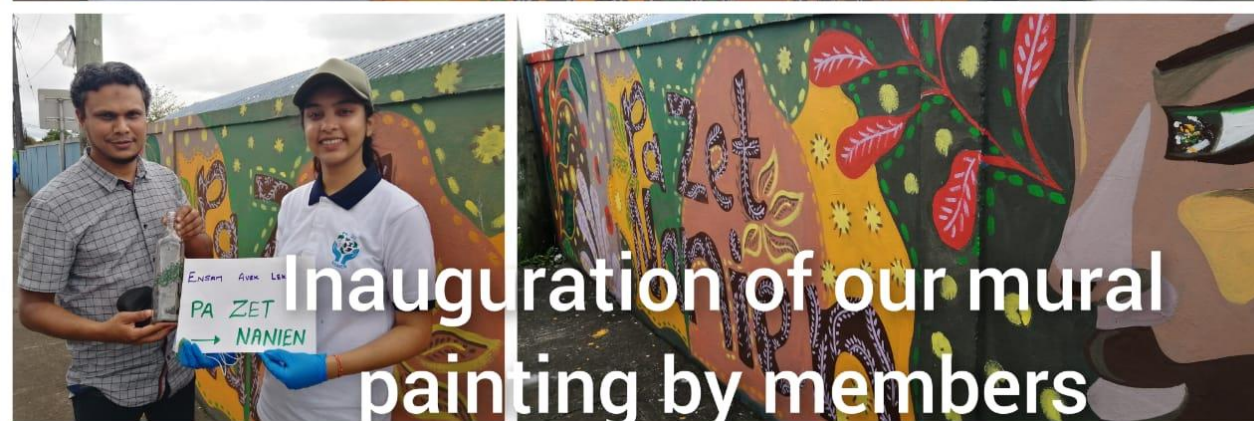


Union Park Village council
Midlands CAB

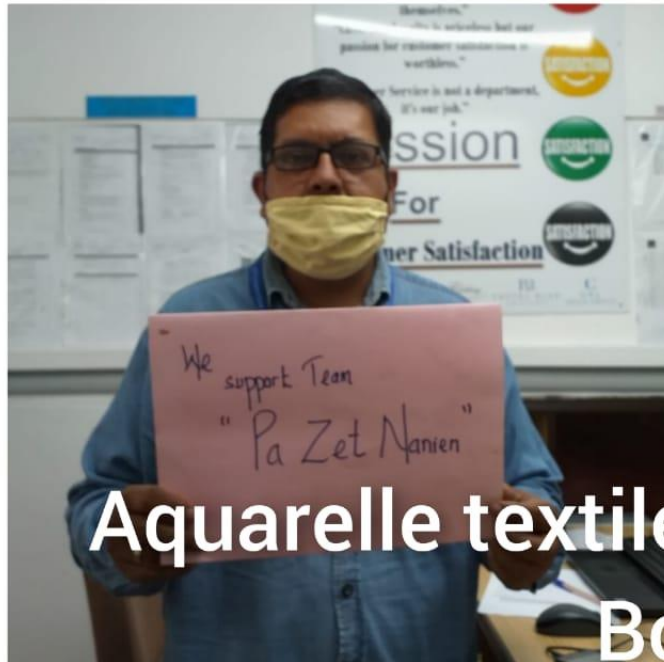
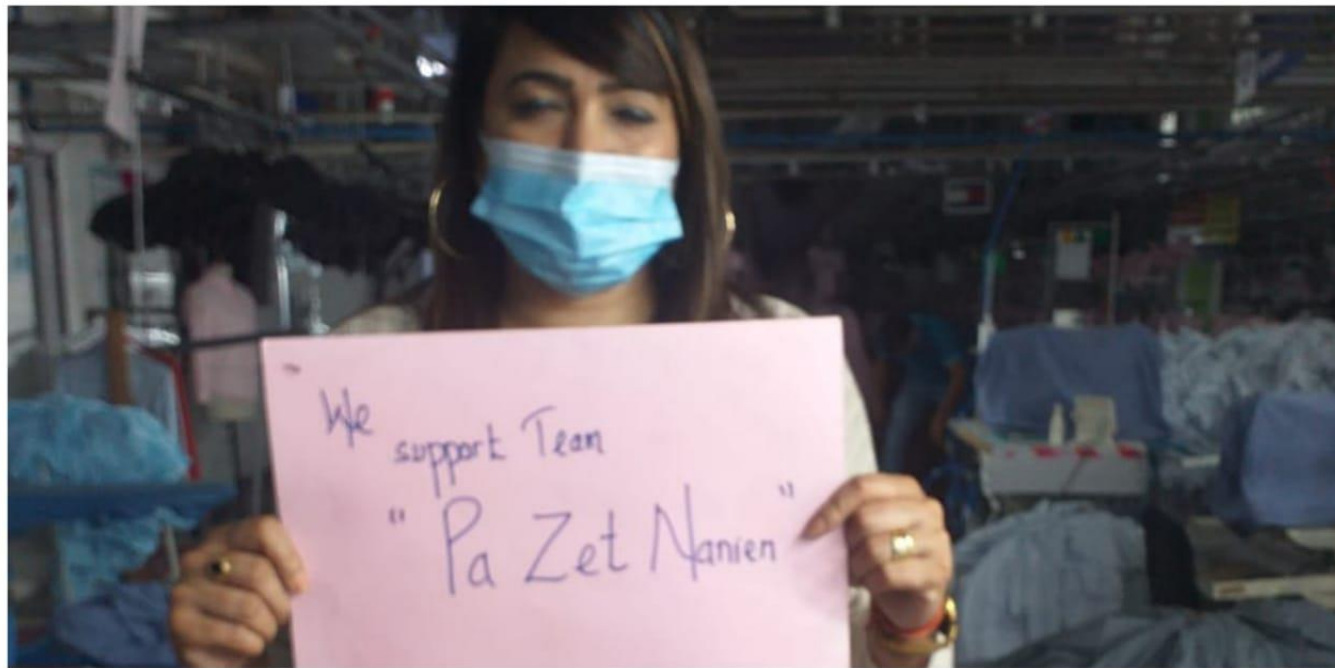


SENSITISATION CAMPAIGN

GRAND BOIS GOV SCHOOL

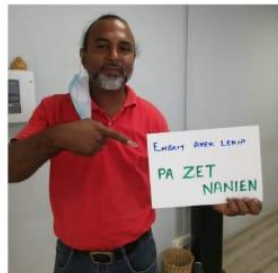
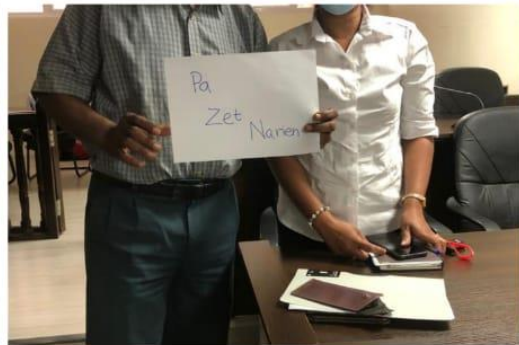


Inauguration of our mural
painting by members

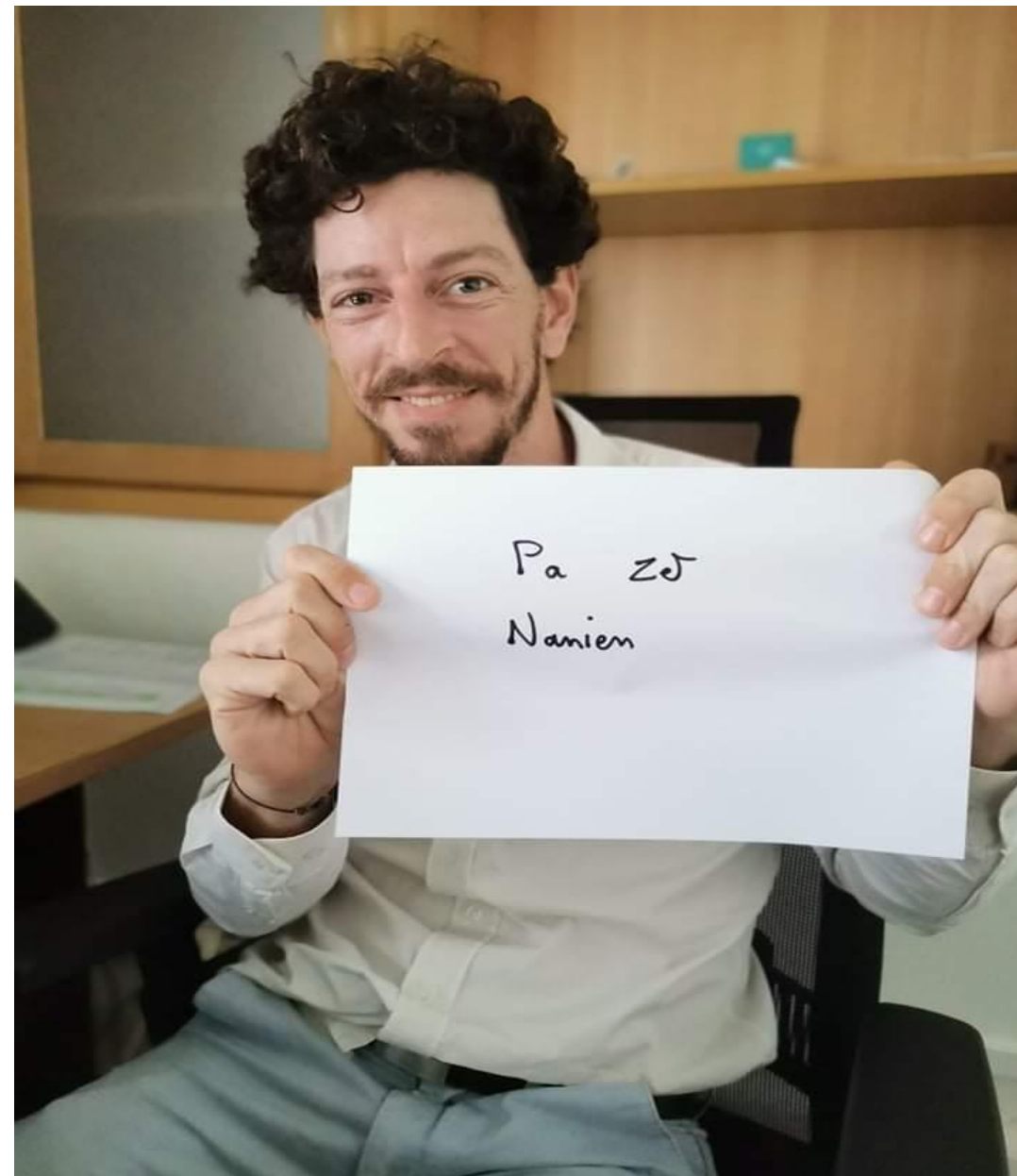


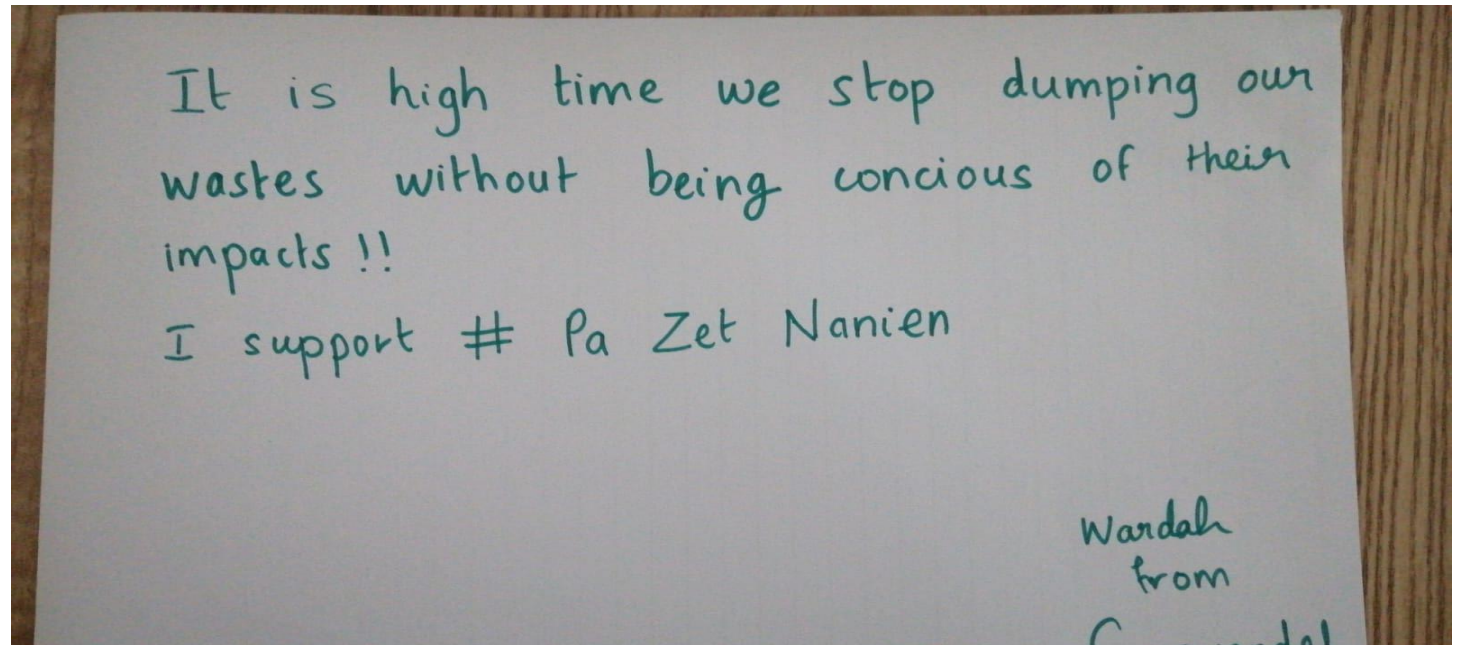
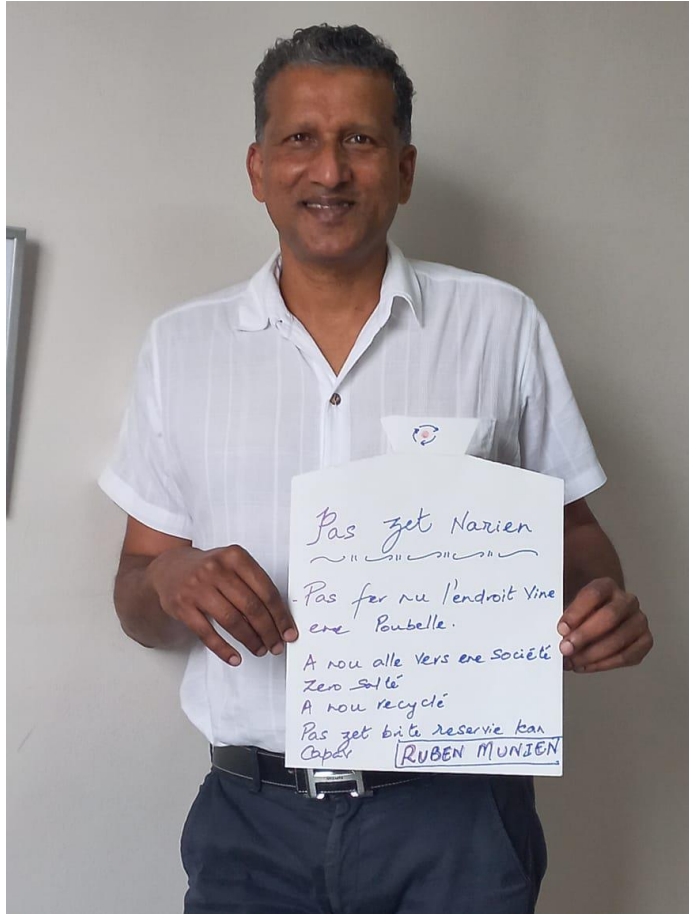
Aquarelle textile industry Grand Bois





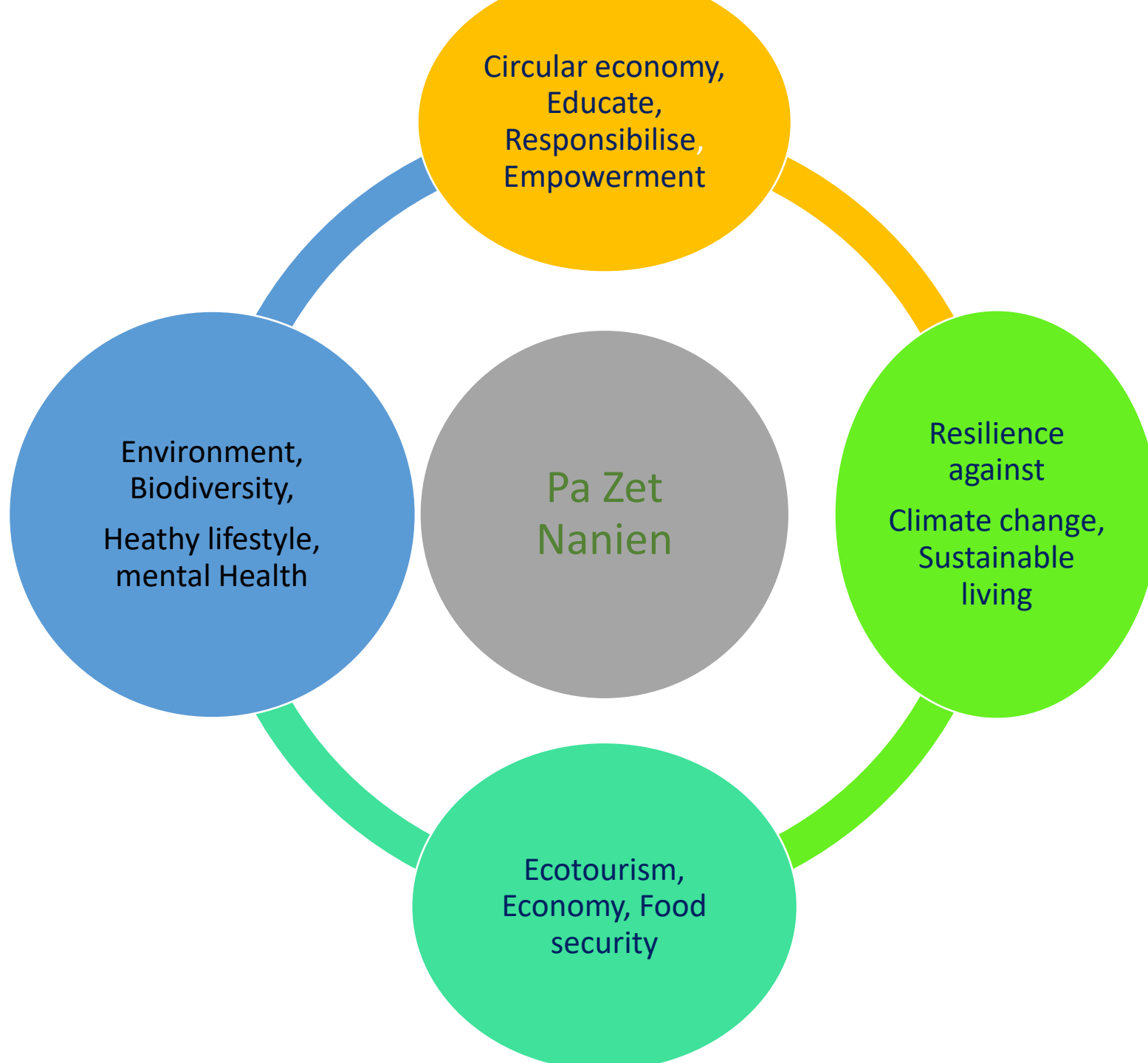








Project Impact



Benefits of this project



- ❖ Reducing the emission of carbon dioxide
- ❖ Building more resilience against negative impact of climate change
- ❖ Reducing the total amount of daily household wastes
- ❖ Giving value to our waste products through simple recycling
- ❖ Protecting our marine environment and its biodiversity
- ❖ Providing proper guidance to channel our society towards growing their own food.
- ❖ Promoting circular economy
- ❖ Engaging our younger generation in reducing, recycling and reusing
- ❖ Cleaner Mauritius, mitigating the effect of climate change, empower women,

Benefits of this project



- ❖ Employment opportunities
- ❖ Start a new mode of living
- ❖ Reducing plastic pollution and its impact on our lives.
- ❖ Promoting sustainable living
- ❖ ecotourism



Difficulties and Challenges



- ❖ **Challenge 1: Covid-19 pandemic, two members of our team contracted the virus.**
- ❖ **Challenge 2: Communication style within a project carried out online with no face to face session and training.**
- ❖ **Challenge 3: Transportation of bottles and tires.**
- ❖ **Challenge 4: Sponsorship, many companies had financial problems and were reluctant to collaborate.**
- ❖ **Pa Zet Nanien is not a registered NGO to obtain CSR funds**

Challenges into Opportunities

- 1. Despite Covid 19 Pandemic, other team members have been able to work.**
- 2. Meeting with team members for the progress of our project**
- 3. Transportation of old tires and bottles.**
- 4. Members provided financial support**

Leadership Skills Gain

The Foundation
Of
Pa Zet Nanien

Communication

Trust

Negotiation
and
persuasion

Team
Work

Conflict
Management

Decision
Making

Conclusion



There is no such thing as “AWAY” when we throw anything away it must go somewhere ~ Annie Leonard

Team Building



The team



Sandeep



Fadeer



Madhvee



Divya



Diya