Team Presentation

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Innovative Filtration System
Our aim is to provide Mauritius with a greener environment by preventing an accumulation of waste in our drains and by decreasing our consumption and waste production.
Problem Description

An accumulation of waste in our drains due to our high level of consumption and production of waste, which results in several other problems.
The Deming Cycle

**Plan:** Choose a process and set objectives

**Perform:** Implement the plan and collect data based on the results

**Monitor:** Analyze the results using statistical methods

**Improve:** Decide what changes to make in order to improve the process
## Project Planning

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Data Collection

- Survey
- Interview
- Observation
- Brainstorming
Data Collection

Problem Identification
- Environmental problem: 48%
- Social Problems: 30%
- Lack of facilities: 14%
- Health Problems: 6%
- Others: 2%

Environmental Problem Identification
- Floods: 19%
- Soil Erosion: 20%
- Water pollution: 24%
- Degradation of Marine ecosystem: 8%
- Poor Waste Management: 29%
- Others: 2%
The Accumulation of wastes in our drains was the core problem identified.
Objective Tree

Ends

Objective

Means

Objective Tree

Reduce of floods and soil erosion

Reduce waste in our drains

Reduce our consumption and waste production

Reduce in the proliferation of disease

Increase in Fisherman's Catch and quality of seafood

Cleanliness

Decrease the number of wastes in our drains

Innovative filtration Drain

Recycling through circular economy

Clean up Campaign

Promote eco friendly and biodegradable products

Awareness Campaign

Prohibit dumping of waste near our canals
Objective Tree

Reduce of floods and soil erosion
Reduce waste in our drains
Reduce our consumption and waste production
Reduce in the proliferation of disease
Cleanliness
Decrease the number of wastes in our drains

Means
Objective
Ends

Objective Tree

Innovative filtration Drain
Recycling through circular economy
Clean up Campaign
Promote eco friendly and biodegradable products
Awareness Campaign
Prohibit dumping of waste near our canals
Increase in Fisherman's Catch and quality of seafood

Ends
Objective
Means
WHY MEC?

- Innovative filtration system
- Circular Economy
- Cost Effective
- Sustainable Development goals
- Raise Awareness
Do - Implementation

Our project is divided into 3 main components:

1. Filtration Drainage nets System

2. Recycle and Upcycle through Circular Economy System

3. Raising Awareness among members of the public.
Location

When choosing the locations, the following criteria were taken into consideration:

❖ Feasibility
❖ Dimension of the Drains
❖ Water Pressure
❖ Amount of waste already present
❖ Side effects experience such as Floods and Soil erosion
Material Used

When choosing the materials to be used, the following criteria were taken into consideration:

- Eco-friendly
- Cost effective
- Reusable
- Durability
Innovative filtration Drainage nets
Circular Economy

The wastes collected out of our nets were used to keep resources in use for as long as possible. Maximum value were extracted from them and they were reconverted to new products at the end of each service life.
To sensibilize the Mauritian community about the importance of nature and the urgent need to preserve it, by taking actions accordingly.
Check

Visit our locations on a regular basis to verify results from our nets.
Act

Substitute
The nets will substitute clean up campaign

Adapt
Adapt the nets to all type of weather and according to the drains

Put to another use
Waste collected will be used again

Rearrange
Place the nets at the end of the drains

Combination
Combine the nets with circular economy

Modify
Modify the verification of data, by using newest technology (Sensor)

Eliminate
Eliminate any non eco-friendly materials
Project outcome

Expected Results

1. A greener Environment
2. Minimise demands of non bio degradable products
3. Reduce the amount of waste sent to Mare chicose
4. Increase Fishermen's Catch and quality of seafood
5. Boost economy by selling Mauritius as an eco-friendly tourism
Our beneficiaries

- Local People
- Fishermen
- Economy
- Environment
- Tourism Sector

Our beneficiaries are interconnected, with each benefiting the others.
Sustainability

Implementation of filtration drainage nets on a national level

Sales of recycled products to generate funds

Target a larger audience for awareness campaign

Collaboration with other organisations

Promote a greener environment and working towards sustainable development goals

Sensor and application
Sponsorship

Funding

- Adventure Club
- Hardware Stores
- District Council
- From Sales of Recycled products
- Personal funding (MEC)
Leadership Brand

MEC

Environmental Conscious
Sustainable Future
Positive Change
Leadership pipeline
Leaders of Tomorrow
Responsible Commitment
Conclusion

Mother Earth is suffering in the hand of humankind. MEC have stepped forward to bring a positive change to the environment.
Thank you for your attention