

Mitigating E-Waste in the Pacific SIDS



Prepared for the UNEP



Our Team



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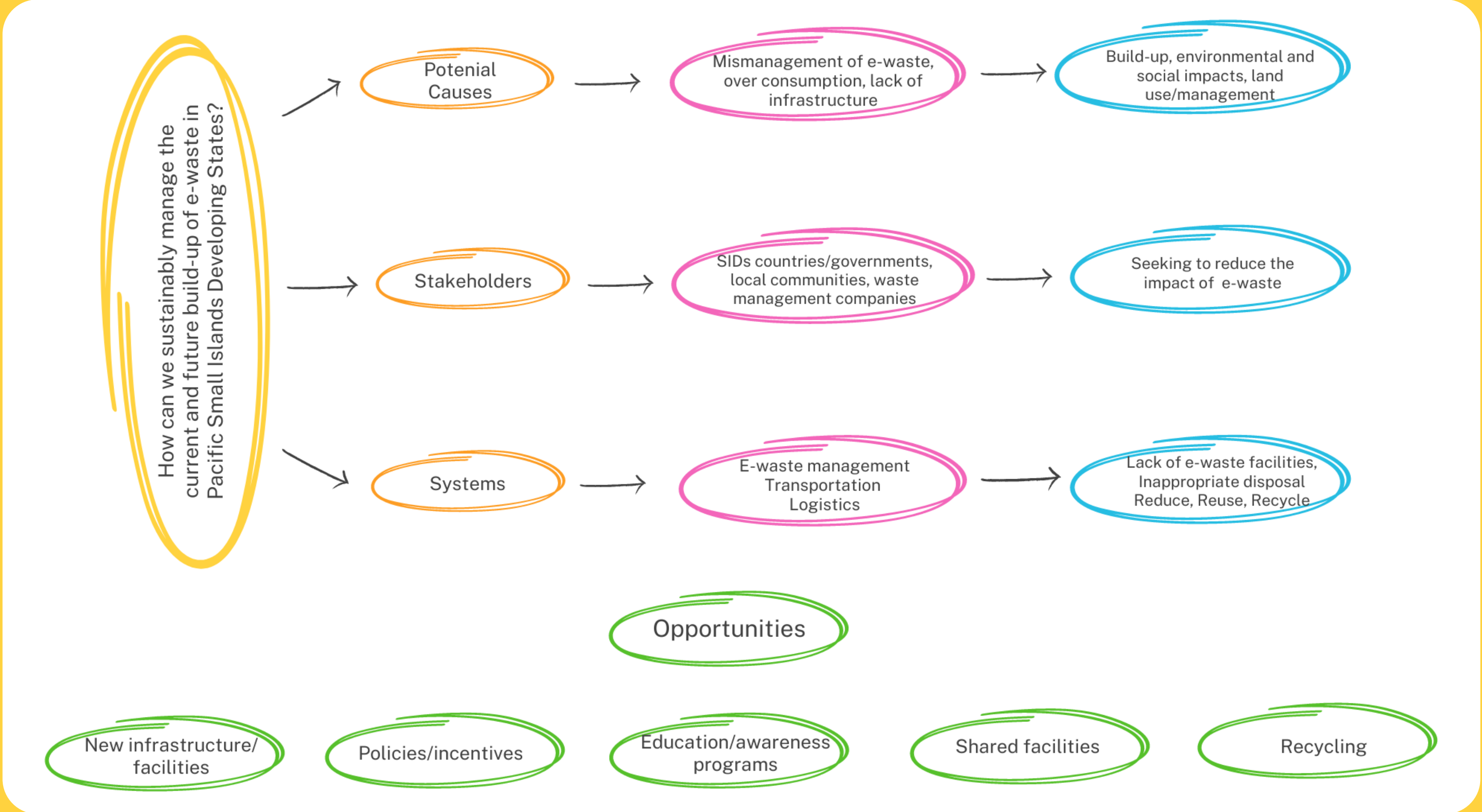
Pacific SIDS



Image: SciDevNet



Challenge Map





Choosing our Solution



Iterating on a Previous Idea

Healthy Harold



Image: favpng

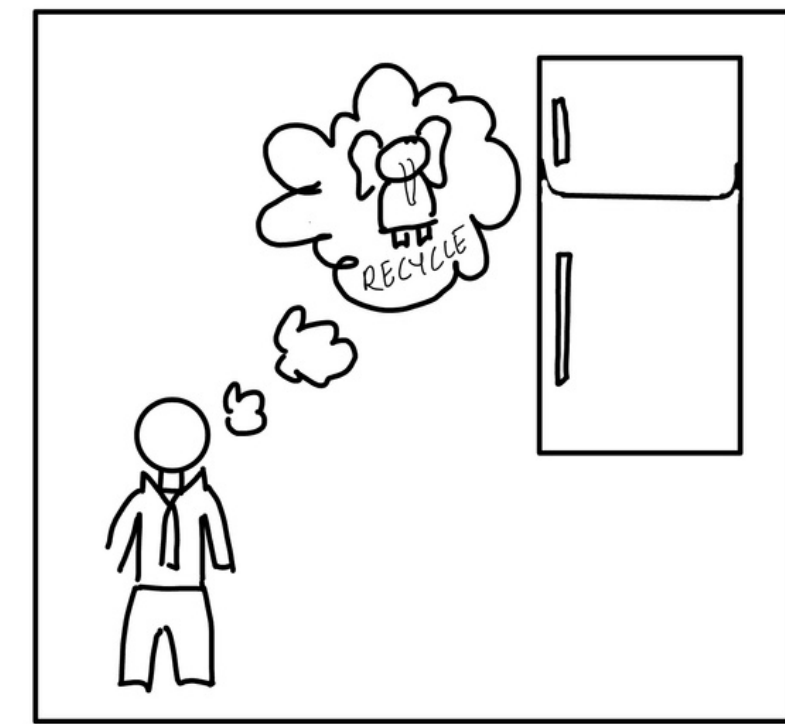
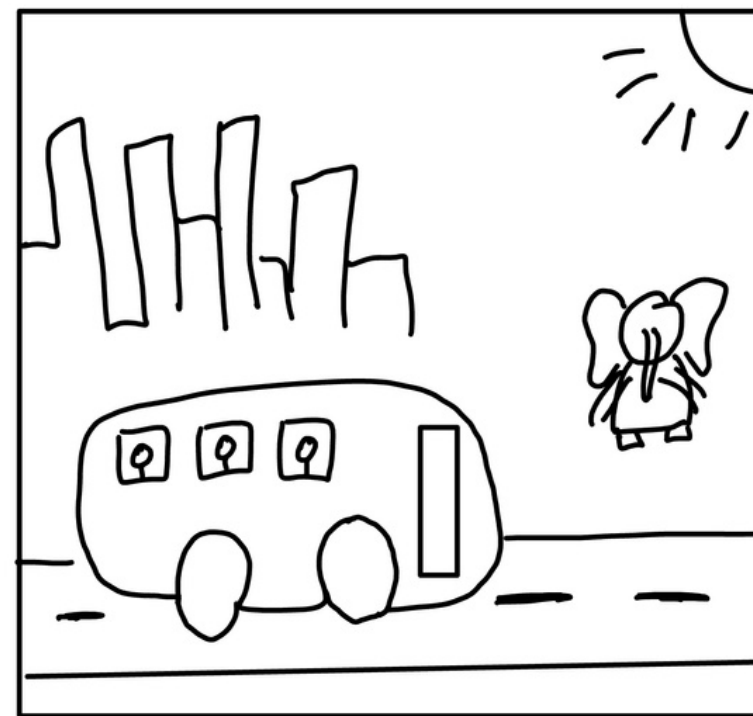
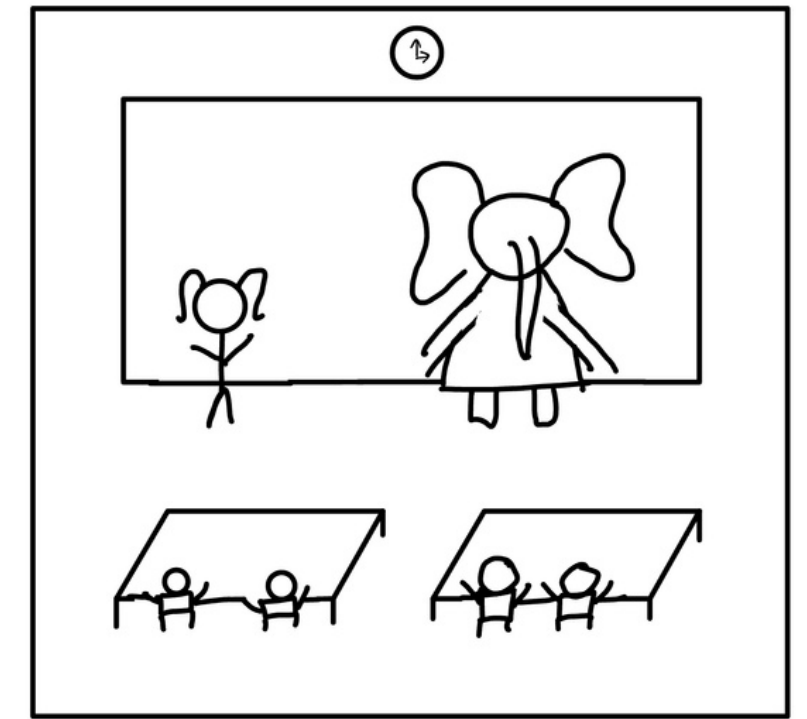
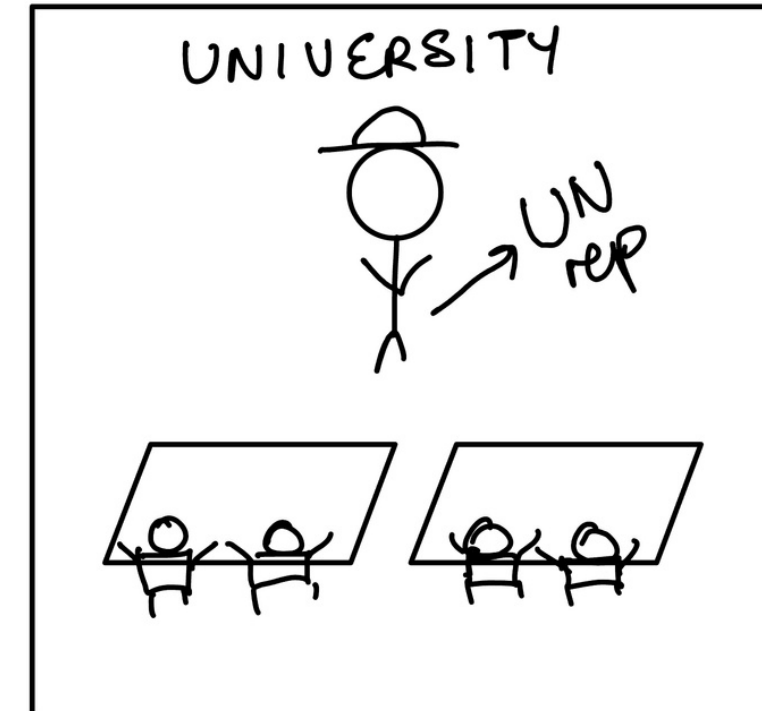
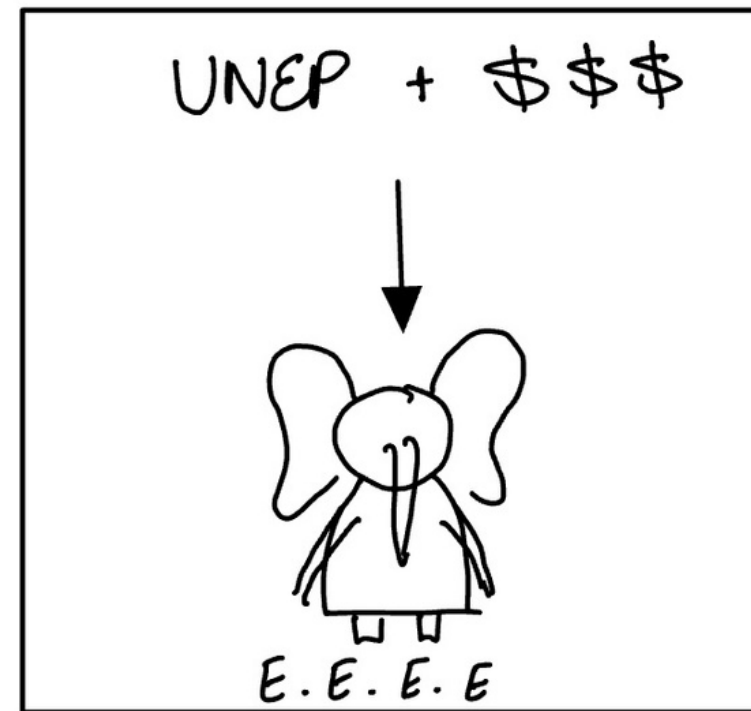
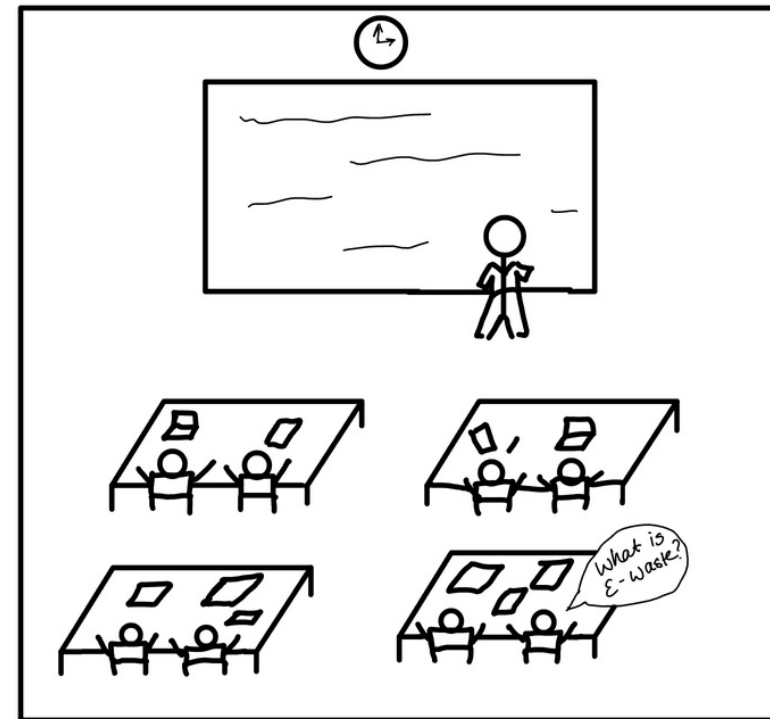
E-Waste Elephant



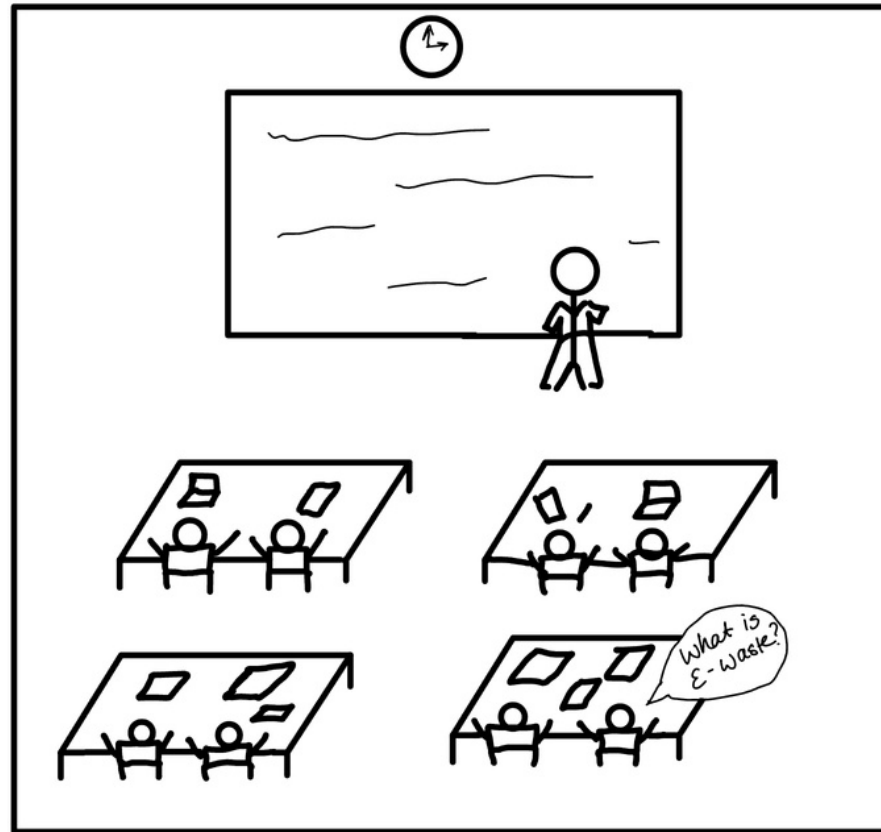
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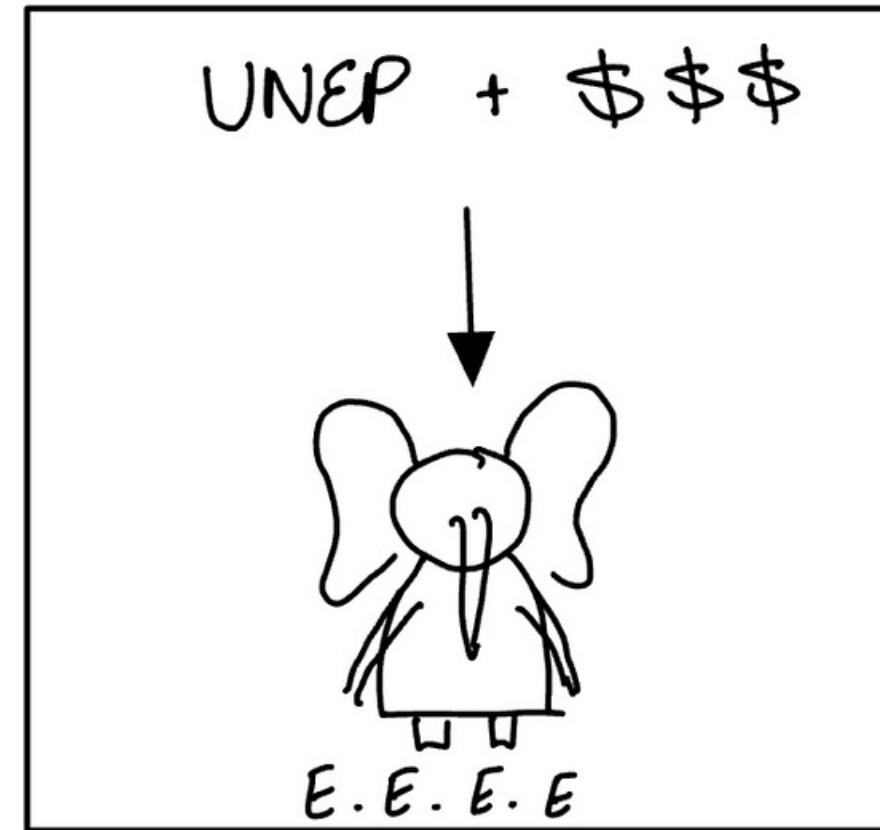
Storyboard



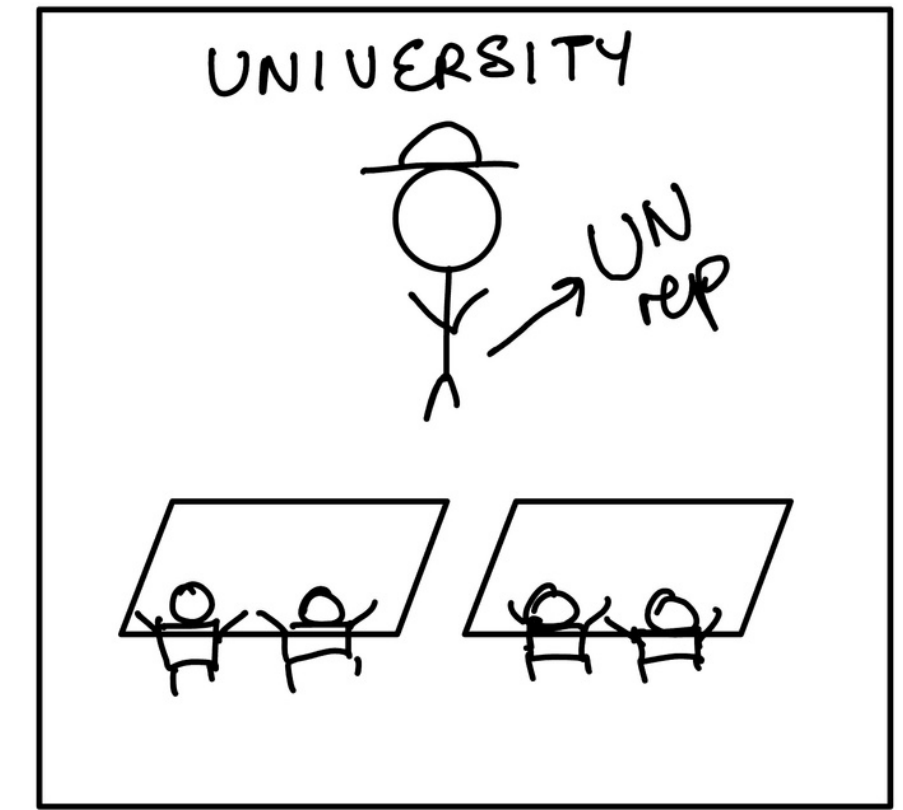
The Development



Students lacking e-waste education



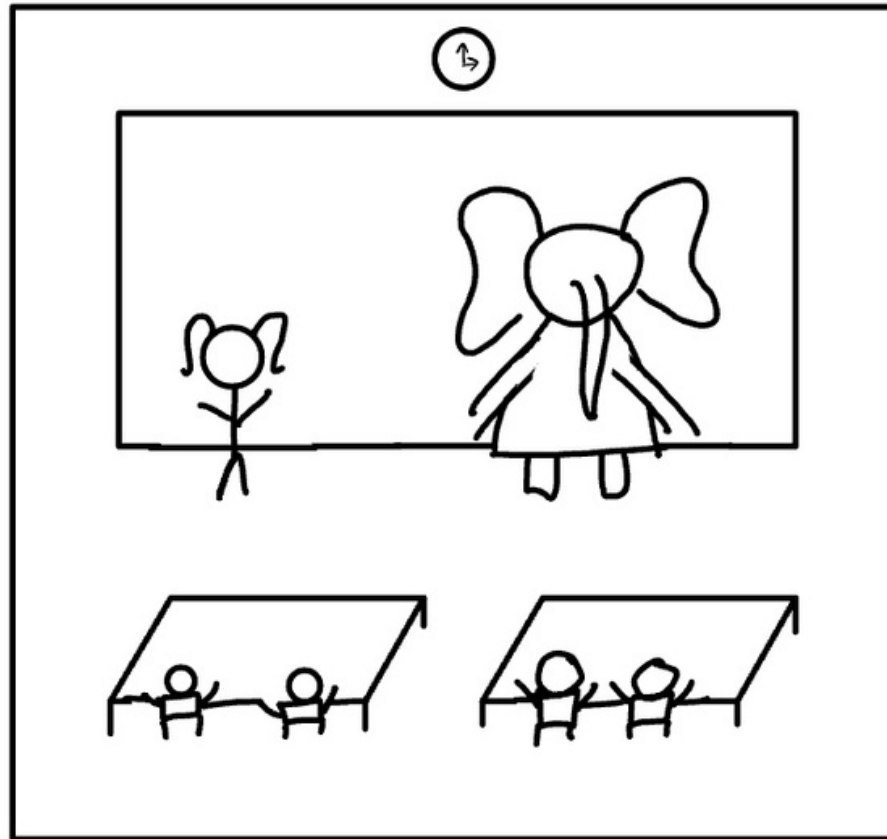
E-Waste Elephant Education Experience



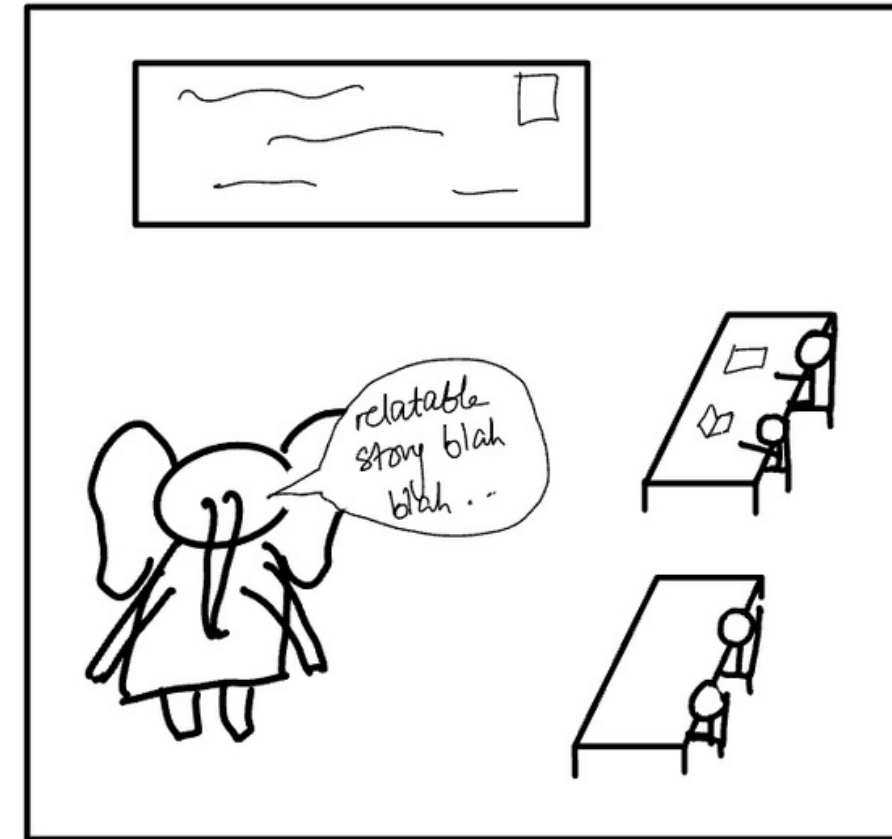
UN partners with local universities to recruit for the program



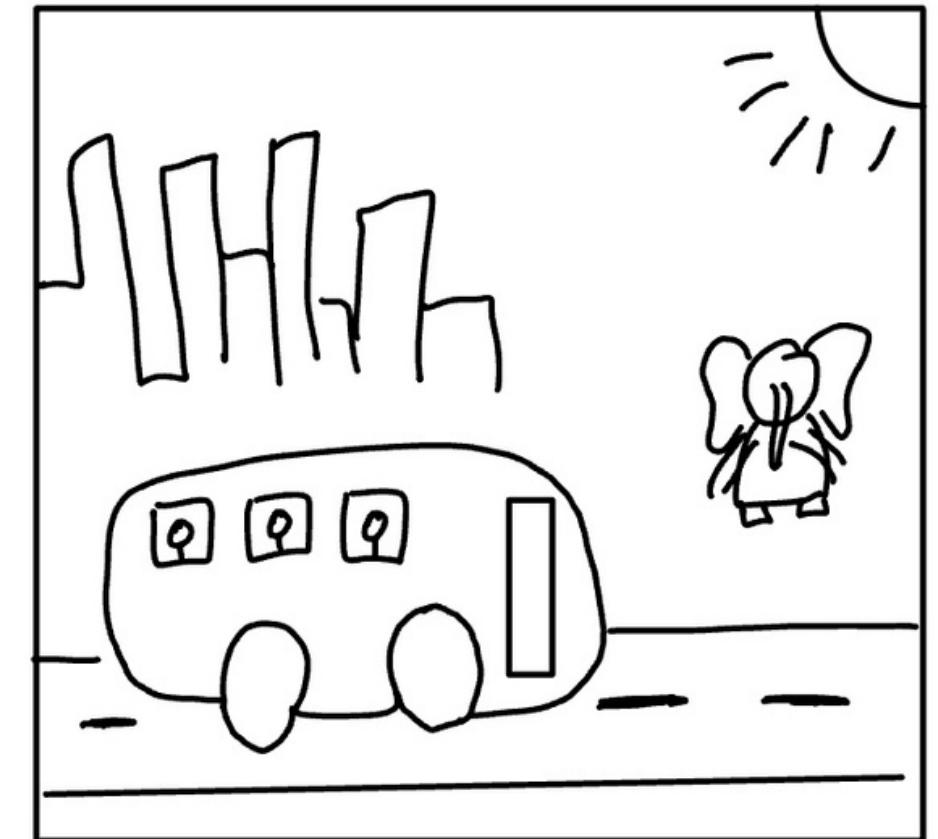
The Program



Eddie comes in to classes to teach about e-waste.



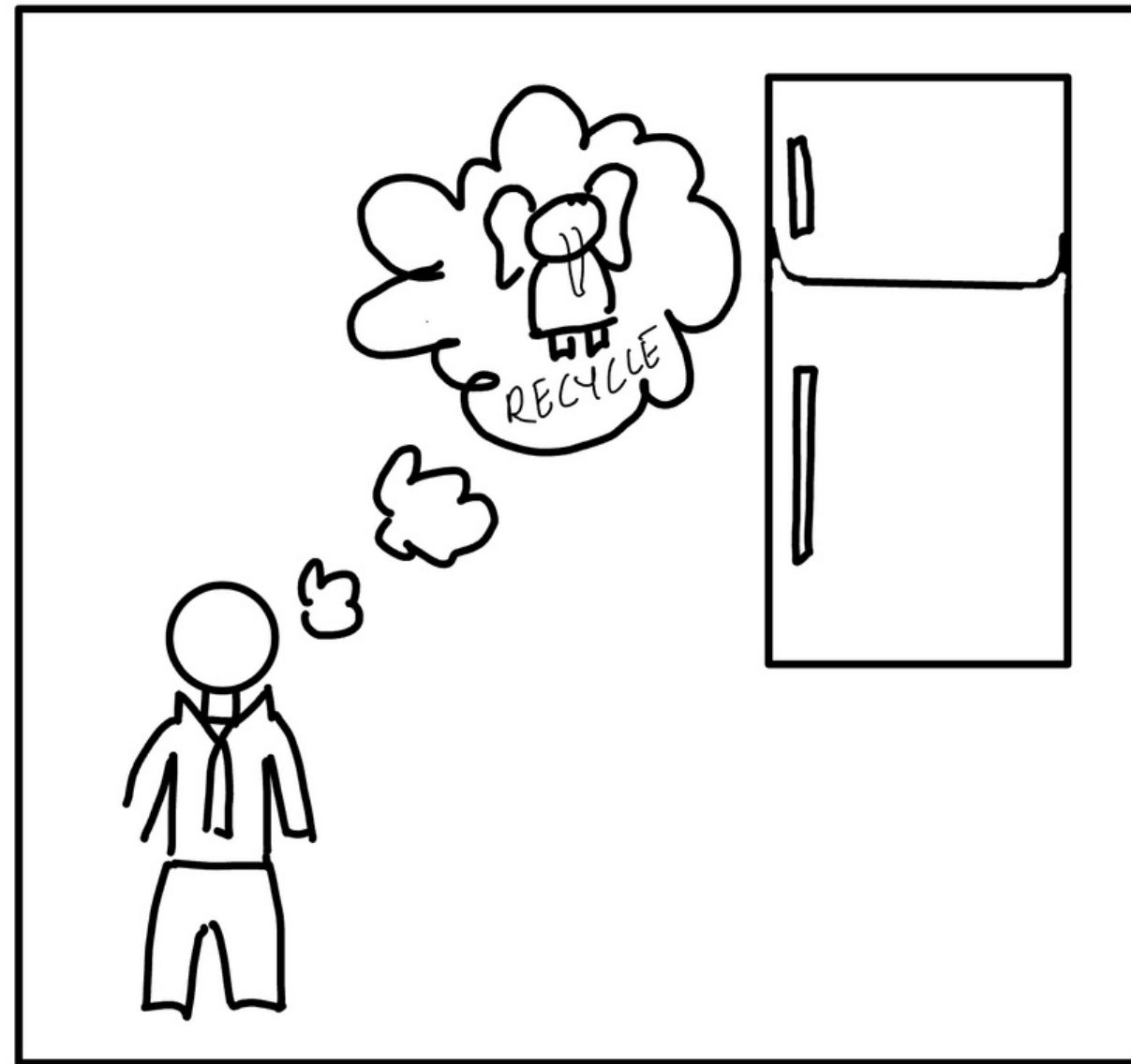
Eddie discusses content in a relatable and culturally sensitive manner



Students gain hands on experience via excursions to refurbishing and recycling facilities



The Outcome



Students make more environmentally conscious decisions in the future



Insights from Initial Testings

1 Students

Story-telling

Interactive Lessons

Positive Environment

Activity-based Learning

2 Educators

Socio-Affective Education

Habit Creation

Practical Activities

Capacity Building

3 UNEP

Pedagogical Knowledge

Scaffolding

Reward Program

Regional Curriculum

4 Literature

Bilingual Classses

Participation Rates

Practical Lessons are Key

97% Literacy Rate



Lesson Plan 1



LEVEL 1

| | | |
|--|---|--|
| GOALS: 1: Students can define e-waste 2. Students can successfully identify the different types of e- waste | | STRUCTURE:45 MINS • Define e-waste • Identify e-waste • Listing activity |
| OBJECTIVES: Students gain a foundational knowledge of what e-waste is and its role in their lives | MATERIALS: • Paper • Markers | |
| ACTIVITIES: With a piece of paper and a marker, students list as many electrical goods as they can in their home | | |

Lesson Plan 2



LESSON PLAN



LEVEL 2

GOALS:

- 1: Students understand what contributes to e-waste build-up
2. Students know the environmental and health impacts of e-waste

STRUCTURE: 45 MINS

- E-waste build-up
- Environmental and health impacts
- Sorting activity

OBJECTIVES :

Students learn about the e-waste build-up in the Pacific, along with the environmental and health impacts of this

MATERIALS:

- Post-it notes
- (colourful) Markers

ACTIVITIES:

Using colourful post-it notes, students sort e-waste, along with other forms of waste, into the correct bins, to ensure they know how to dispose of their electrical goods appropriately

Lesson Plan 3



LEVEL 3

GOALS:

- 1: Students reflect on their learning
2. Students leave with a memorable learning experience that will stay with them into the future

**STRUCTURE: 45
MINS**

- Reflection
- Excursion

OBJECTIVES :

Students reflect on the E-Waste Elephant Education Experience and what they have learnt

MATERIALS:

- Reflection worksheet

EXCURSION: 2-3 HOURS

Students are taken on an excursion, run by the school, to collection and refurbishing facilities/centres to gain practical skills and strengthen their connection to the problem. Parent volunteers are recommended



Pen Reward

Looking Forward



Funding

Partnerships with:

- The MECCE Project
- UNESCO
- The University of the South Pacific

School-accessible drop off points

- Convenience
- Application of learning
- Community connection

SIDS Expansion

- Job creation
- Reduction of e-waste generation
- Increase of e-waste awareness

REFERENCES

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Freepik Elephant Logo (1st slide)

- [Elephant animated icons created by Freepik - Flaticon](https://www.flaticon.com/free-animated-icons/elephant "elephant animated icons")