



Project for sustainable community development through promoting environmental learning activities in cooperation with public and private sectors (Honiara, Solomon Islands)



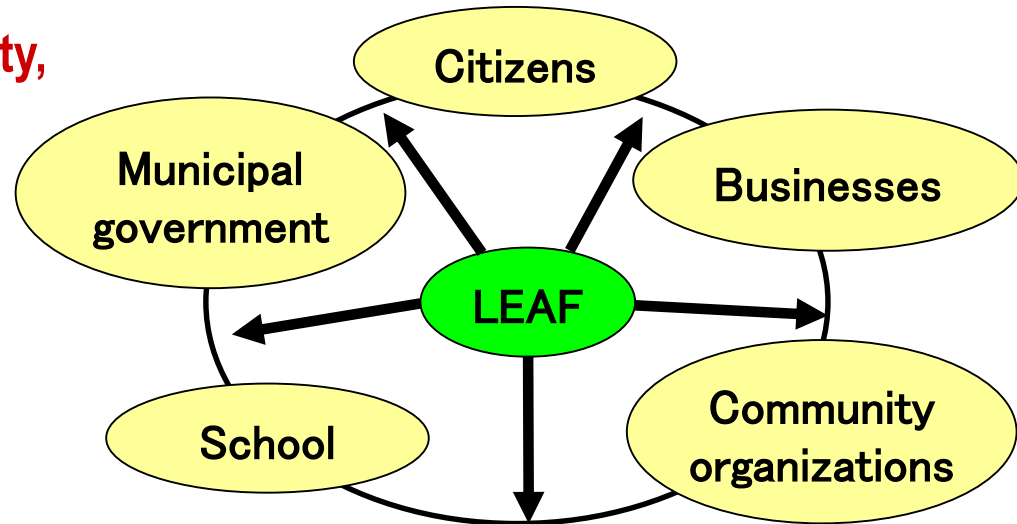
Learning and Ecological Activities
Foundation for Children(LEAF)
Managing Director Masayoshi OGAWA



Learning and Ecological Activities Foundation for children (LEAF)



Through the initiative of Nishinomiya City, Learning and Ecological Activities Foundation for Children (LEAF) was established in 1998 as a partnership-based non-profit civic organization among citizens, businesses and the municipal government.



General scope of activities is as follows

Making a network in the communities

1. Research projects on community-based education for a sustainable



Eco-cards System

2. Promotion projects for nature experience



3. Environmental education projects in liaison with corporate LEAF



4. Global environmental exchange projects for children
5. JICA training course

- * Basic Training for Solid Waste Management
- * Solid Waste Management towards Recycle Oriented Society



Honiara, Solomon Islands



SOLOMON ISLANDS

0 km 62.5 125 187.5 250 km

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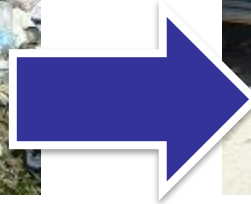
Waste problem in Honiara – urban area -

- Rapid population increase
 - Inflow into the capital city
- Lifestyle modernization
 - Dependence on foreign imports
- Problems in waste collection system
 - Shortage of collection vehicles
 - Absence of collection strategy
- Lack of waste management principles



Waste problem in Honiara – discharge points-

If crews scoop and pick up rubbish around the bins in each points, it takes more time for one point.



Get a proper bins,
build your own
platform/ store



Issues/problems identified by Waste Collection Drivers & Crews

<Major problems>

- Lack of vehicle
- Bad condition of roads
- Lack of consciousness and education (public residence)
- Dangerous ways of discharge
- Improper collection route and schedule

Unstable
collection
services

Dumping
everywhere

Accidents
and injuries



Waste problem in Honiara - dump site -



People run up to the collection vehicle



Rising smoke is an everyday affair



Children live next to waste

Project Purpose

In Honiara city, the capital of the Solomon Islands, there is an urgent need to improve the environment for the health and hygiene of many citizens, especially children, such as the frequent outbreaks of malaria.

It has been pointed out that there is a lack of social norms for citizens, such as delays in infrastructure development and littering of garbage.

For these reasons, we have been implementing this project for the purpose of developing systematic and continuous environmental education and learning activities for children who will carry out the next generation, in collaboration with the Public-Private sectors to promote sustainable community development in Honiara City.

JICA Partnership Program Phase1

1. Name of project

Establishing Separate Collection System of Household Waste in Cooperation with Public and Private Sectors Based on a New 3Rs (Reduce, Reuse, Recycle, and Return) Concept

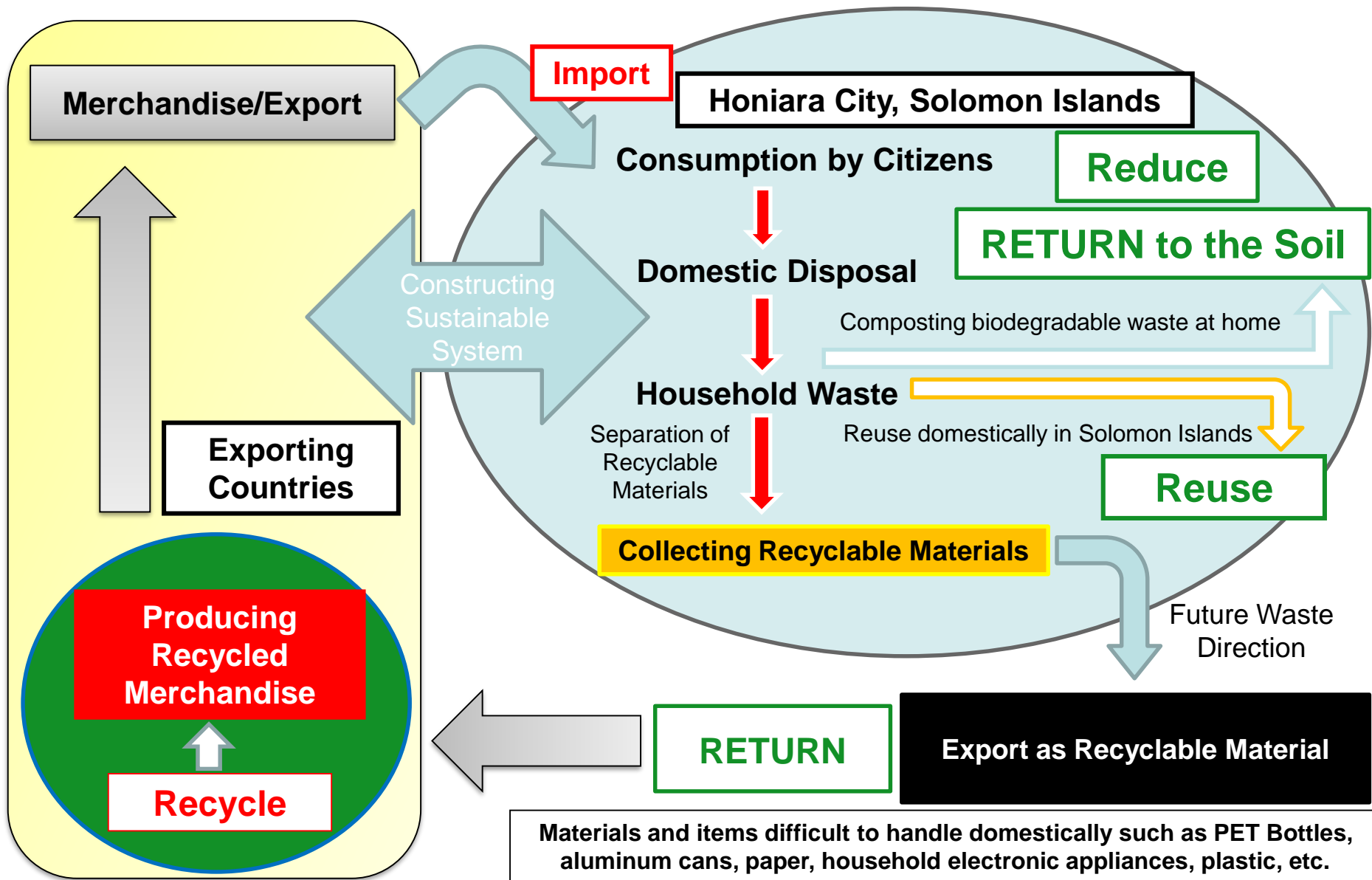
2. Term of project

2014~2017 (3years)

3. Expected Outputs

- ① Hold a periodic discussion during the “Cooperation Committee” focusing on the establishment of a “separate collection system of household waste”.
- ② Develop human resources who would be capable of promoting the separate collection of household waste and resource recovery.
- ③ Establish concrete Practical methods and systems of the New 3Rs with the cooperation of the people and agencies.
- ④ Provide the residents with the opportunity to learn some examples of how to carry out the New 3R at home and the rules of waste disposal.
- ⑤ Implement work based on the “separate collection system of household waste” will be implemented within the administrative field.

Goods and Waste Flow based on the concept of the New3R





Honiara Public-Private Cooperation Committee

Initial Meeting



Cooperation Committee

HCC

Company

Citizens

Women Group

Youth Group

University

Church

Recycling Company

NGO

Working Group

Organic Waste

Plastic Waste

Education and Tourism

Collection Route

Outline of Survey regarding household waste collection point

Objective of the survey

- To collect basic data of household waste collection point such as “location” or “the way of discharge” by using camera with GPS system.
- To share the situation of household waste discharge in Honiara city between City council officer and members of Co-Committee.
- To utilize these data for establish efficient waste collection route.

Matters for survey

- Date
- Zone
- Number of point
- Kind(Business,Mix)
- Sorting (Bottle • Can • Organic)
- Note (Condition,Situation,etc)
- The number of times to go dumpsite



- Taking Photo



- Recording
– HCC officer



- * Point number
- * Record location



- * Grasp volume
- * Way of discharge



- * Situation around the point

Zone1

White River,
Riffle Range,
Tandai

Zone3

Mbokona,
Lengakiki,
Habai,
Lower Vavaya
Ridge

Zone5

Tuvalufu,
Marble Street,
Vara Creek,
Number Three,
Koloale,
West Kola

Zone7

Naha1,2,3,4,
Naha Height,
Green Valley,
Mamulele,
Adaliua,
Vura2,3

Zone9

West Panatina,
Lolo Area,
Red Mansion,
Baranaba,
Pاناتina Valley,
Ela Motor,
Lee Ku Kuwen

Zone2

Tasahe,
Ngosi.
Rove,
Tavio Ridge,
Tinge Ridge

Zone4

Vavaya ridge,
Mbokonavera
, Tehamurina,
Skyline,
Chovili,
Fijian Quarter

Zone6

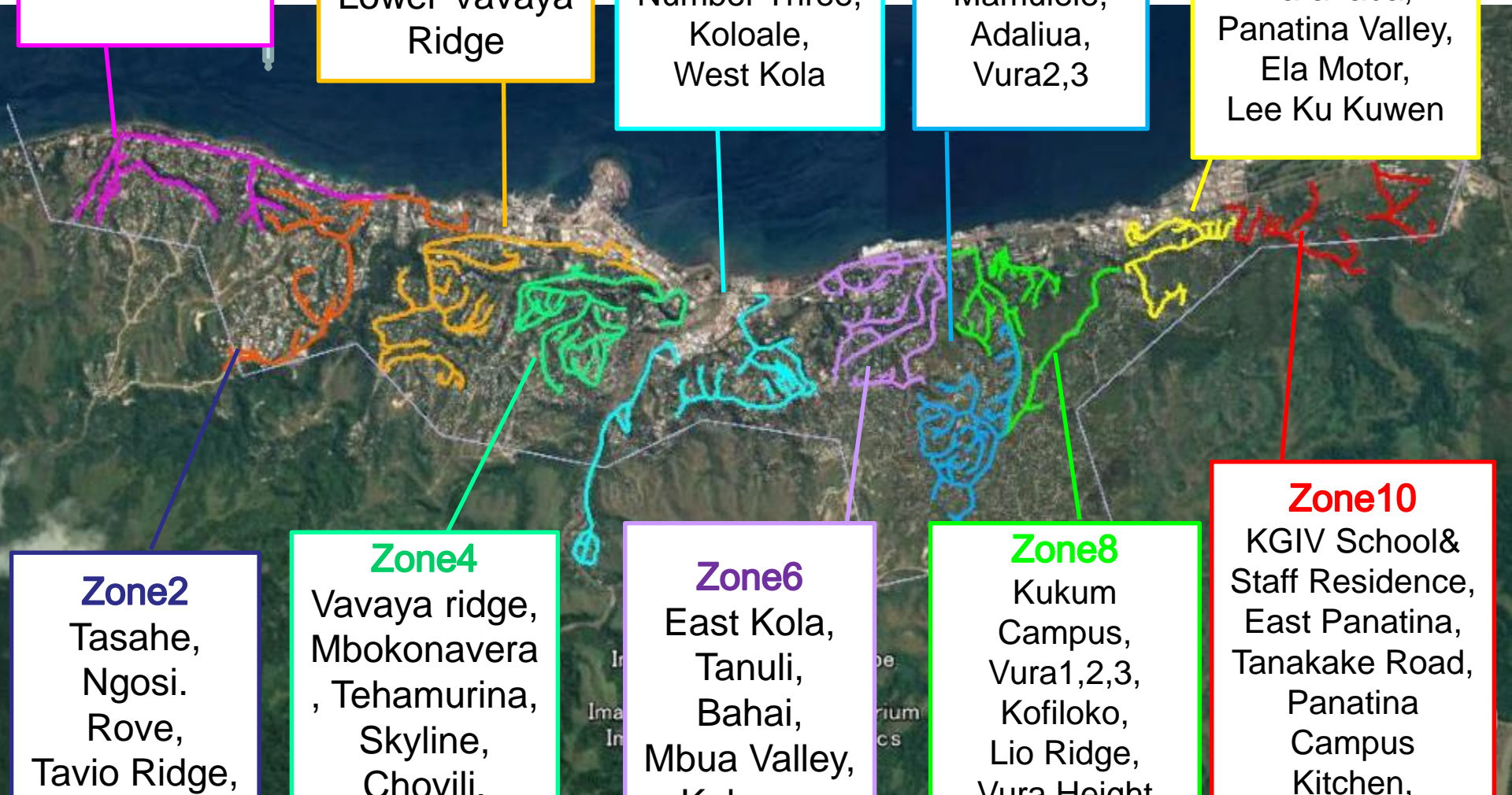
East Kola,
Tanuli,
Bahai,
Mbua Valley,
Kukumu

Zone8

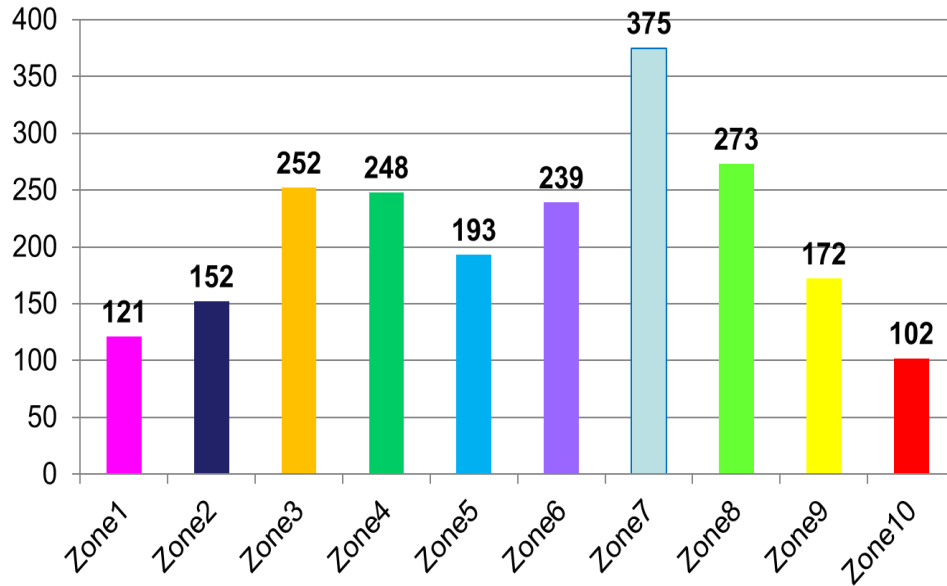
Kukum
Campus,
Vura1,2,3,
Kofiloko,
Lio Ridge,
Vura Height
Jackson Ridge

Zone10

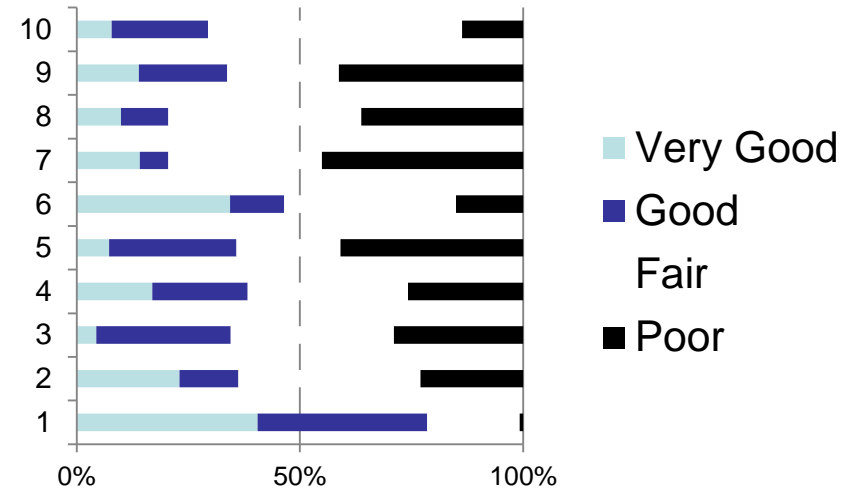
KGIV School &
Staff Residence,
East Panatina,
Tanakake Road,
Pاناتina
Campus
Kitchen,
Staff Quarters



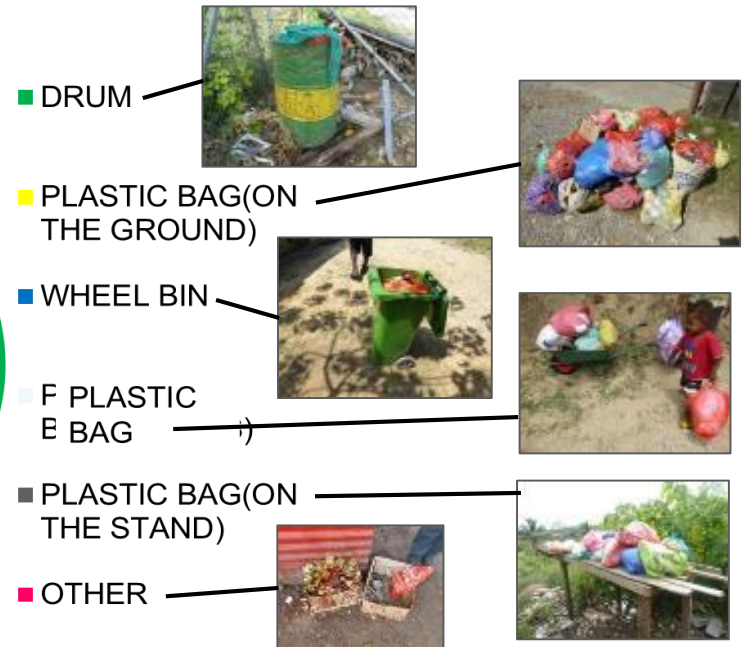
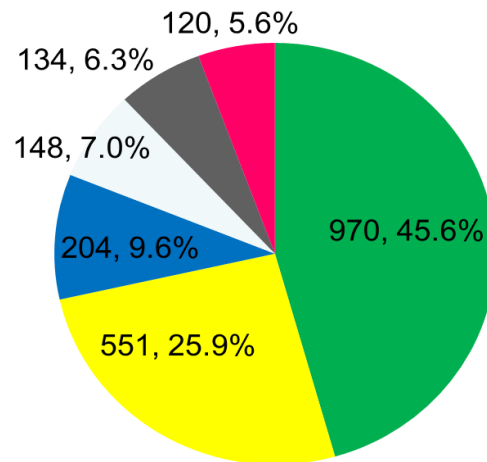
Number of discharge points in each zone



Rank of road in each zone




Percentage of main discharge method



Record ledger

Detail of collection in each zones

	Zone1-6	Zone7	Zone8		Zone9	Zone10
Collector	Honiara City Council	A	B1	B2	C	D
Average Number of Crew/Day	2	2.66	3	5.25	3.33	2.66
Participation of Driver	x	○	○	x	△	x
Vehicle	Compactor	2t	2t	3t	3t	2t
Cover Points	1205	375	273		172	102

ZONE	1	No	1			
COMMUNITY	NAMORUKA-WHITE RIVER					
DISCHARGE METHOD	MAIN	<input checked="" type="checkbox"/>	DRUM	<input type="checkbox"/>	WHEEL BIN	<input type="checkbox"/>
			PLASTIC BAG (ON THE GROUND)	<input type="checkbox"/>	PLASTIC BAG (ON THE STAND)	<input type="checkbox"/>
	SUB	CARDBOARD				
	SEPARATION	<input type="checkbox"/>	CAN	<input type="checkbox"/>	BOTTLE	<input type="checkbox"/>
GEOROLOGICAL INFORMATION	ALTITUDE (m)	17		2		
	LATITUDE (S)	-9.43013		LONGITUDE (E)	159.91851	
NUMBER OF HOUSEHOLD						
NOTE						
DATE	HISTORY RECORD				SIGNITURE	

PET Bottle Storage Warehouse



Garbage truck and Installation of Compressor Machine



Maintenance Training to Drivers & Crews

April 2016

Training for inspection



Training for daily maintenance

Operation and checking sheet for WSM collection drivers

Vehicle No.	Date (D, M, Y)	Driver's name	Chief Mechanic	Works Manager
			Steven Mullis	Eddie Gazz

Signature (after checking):

• Before: Morning checking for vehicle

- | | |
|---|---|
| <input type="checkbox"/> Tire pressure. | <input type="checkbox"/> Condition of brake. |
| <input type="checkbox"/> Cracks, damage or abnormal wear of the tire. | <input type="checkbox"/> Chocking gear. |
| <input type="checkbox"/> Engine oil level. | <input type="checkbox"/> Hydraulic oil level. |
| <input type="checkbox"/> Parking brake lever. | <input type="checkbox"/> Loading switch, emergency stop switch. |
| <input type="checkbox"/> Headlights, turn signals, back lamp. | <input type="checkbox"/> Hooper lock. |

• After: Record and report of the day

Area (AM)	Area (PM)	Distance (beginning of the day)	Distance (end of the day)	Today's distance

Report of the day including accidents:

COMPACTOR CHECK SHEET		J2				
REF						
NUMBER		MODEL NUMBER				
CHASSIS NUMBER		MPG NUMBER				
DATE	/ /	TOTAL MILEAGE	Km			
		NAME				
check item	location	check point	8 months	1 year	check	remarks
vehicle	engine	1. intake/air parts, overheat, oil leak, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	transmission	2. noise/leak parts, overheat, oil leak, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	undercarriage	3. noise/leak parts, overheat, oil leak, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	steering/tyre	4. noise/leak parts, overheat, oil leak, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	brakes	5. noise/leak parts, overheat, oil leak, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	hydraulic pump	6. noise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		7. oil leak	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		8. loosened bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	hydraulic cylinder	9. damaged rod	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		10. oil leak	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
hydraulic system	11. inverted condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	12. oil level in tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	13. pressure in tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	14. pressure in tank	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	15. return filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	16. internal damage due to contact or impact, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	17. oil leak, deteriorate mark on parts, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	18. internal part	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	19. oil leak, looseness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	20. loosened pipe clamp/contact with other part, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
oil pressure	21. specified oil pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	22. oil leak	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	23. noise/leak	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	24. operation of rear switches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	25. damaged water/road rubber cover and looseness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	26. operation/pressure adjustment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	27. loose dam attaching bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	28. loose pressure switch attaching bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	29. loose relay or 5 bar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	30. operation/pressure adjustment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
lockstop control	31. loose hooper stop switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	32. operation hooper lock	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	33. gear connection, connectors, ground deterioration, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	34. loose ground wire and adjustment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	35. loose ground wire and adjustment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	36. loose ground wire and adjustment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	37. loose ground wire and adjustment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	38. loose ground wire and adjustment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	39. loose ground wire and adjustment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	40. loose ground wire and adjustment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

compactors check sheet		J2	
REF			
check item	NO	check point	events
location			1 year
check			check
remarks			
safety devices and functions	emergency stop switch	34. operation and loose switch	<input type="checkbox"/>
	interlock when discharge operation is executed	35. operation	<input type="checkbox"/>
	safety support	36. abnormal operation	<input type="checkbox"/>
	loading cycle system	37. specified cycle time	<input type="checkbox"/>
	back buzzer	38. loading condition	<input type="checkbox"/>
	hooper up/down operation device	39. buzzer alarm when the hooper rises and lowers	<input type="checkbox"/>
	emergency stop button	40. operation	<input type="checkbox"/>
	hooper lock	41. engagement	<input type="checkbox"/>
	stop button	42. operation	<input type="checkbox"/>
	43. smooth and reliable switching of operation	44. noise and abnormal condition	<input type="checkbox"/>
mechanism	P. T. O. And control	45. oil leak/loose attaching bolts	<input type="checkbox"/>
		46. adjustment of wire	<input type="checkbox"/>
	driveshaft and U.J.	47. noise/abnormal condition	<input type="checkbox"/>
		48. loose attaching bolts	<input type="checkbox"/>
		49. operation of press roller	<input type="checkbox"/>
		50. operation of grate plate	<input type="checkbox"/>
		51. bent or cracked plate links	<input type="checkbox"/>
		52. loose bearing/loose pin/drum	<input type="checkbox"/>
		53. abnormality about guide roller	<input type="checkbox"/>
		54. loose side roller	<input type="checkbox"/>
loading and discharge	55. roller shaft adjustment	56. hooper up/down operation	<input type="checkbox"/>
	57. hooper up/down operation	58. bent/damaged or loose cylinder attaching area	<input type="checkbox"/>
	59. hooper lock for adjustment	60. loose hooper lock pin/drum	<input type="checkbox"/>
	61. tightness or looseness of hooper lock U-bolts	62. bent or cracked junction plate	<input type="checkbox"/>
	63. loose junction plate cylinder attaching bolts	64. worn junction plate pad	<input type="checkbox"/>
	65. bent crack and rust	66. loose bearing	<input type="checkbox"/>
	67. bent crack and rust	68. loose roller-to-body bolts	<input type="checkbox"/>
	69. loose roller-to-body bolts	70. damaged body roller packing	<input type="checkbox"/>
	71. loose attaching bolt/loose attachment		<input type="checkbox"/>

Daily Check Sheet (for drivers and crews)

Inspection Check sheet (for mechanic)

Pilot Program in our city Community



Explain to SINU Students



House to House Awareness



Demonstration How to Separate Rubbish

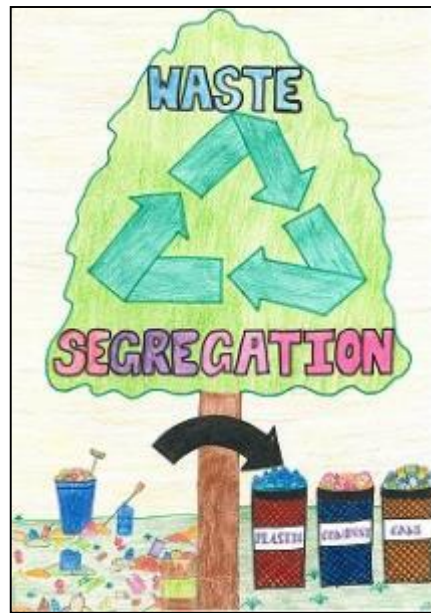


Demonstration of Return to soil



Distribution of Shovels

Poster Exhibition June 2016



JICA Partnership Program Phase2

1.Name of project

Sustainable Community Development through Promoting Environmental Learning Activities in Cooperation with Public and Private Sectors

2.Term of project

2017 ~2022(5years)

3.Expected Outputs

- ①Honiara Declaration of Sustainable Community Development established through promoting systemic environmental learning activities in the community
- ②Environmental Learning Support Centers established for citizens to learn about waste management and its impact on the natural environment
- ③Human resource development program implemented through disseminating experiences gained by the counterparts from Japan
- ④Community-based learning resources developed targeting children at each of their educational levels in relation to their school curriculum
- ⑤Non-profit organization promoting sustainable community development in partnership with public, private and the academic sectors established

Honiara City Partnership Committee

Guidelines for Establishing the Partnership Committee to Promote Sustainable Development in Honiara City



Article 1 (Purpose)

These Guidelines shall set forth necessary matters relating to establishment and operation of the Partnership Committee to Promote Sustainable Development in Honiara City (hereinafter referred to as the “Partnership Committee”)

As a council entity to promote sustainable community development through eco-learning through collaboration of citizens, businesses, and the municipal government.

TOR is in place so that wider sectors see and how they can involve and see the ownership of it. The programmes are very important for the sustainability.

Network of Environmental Learning Centers

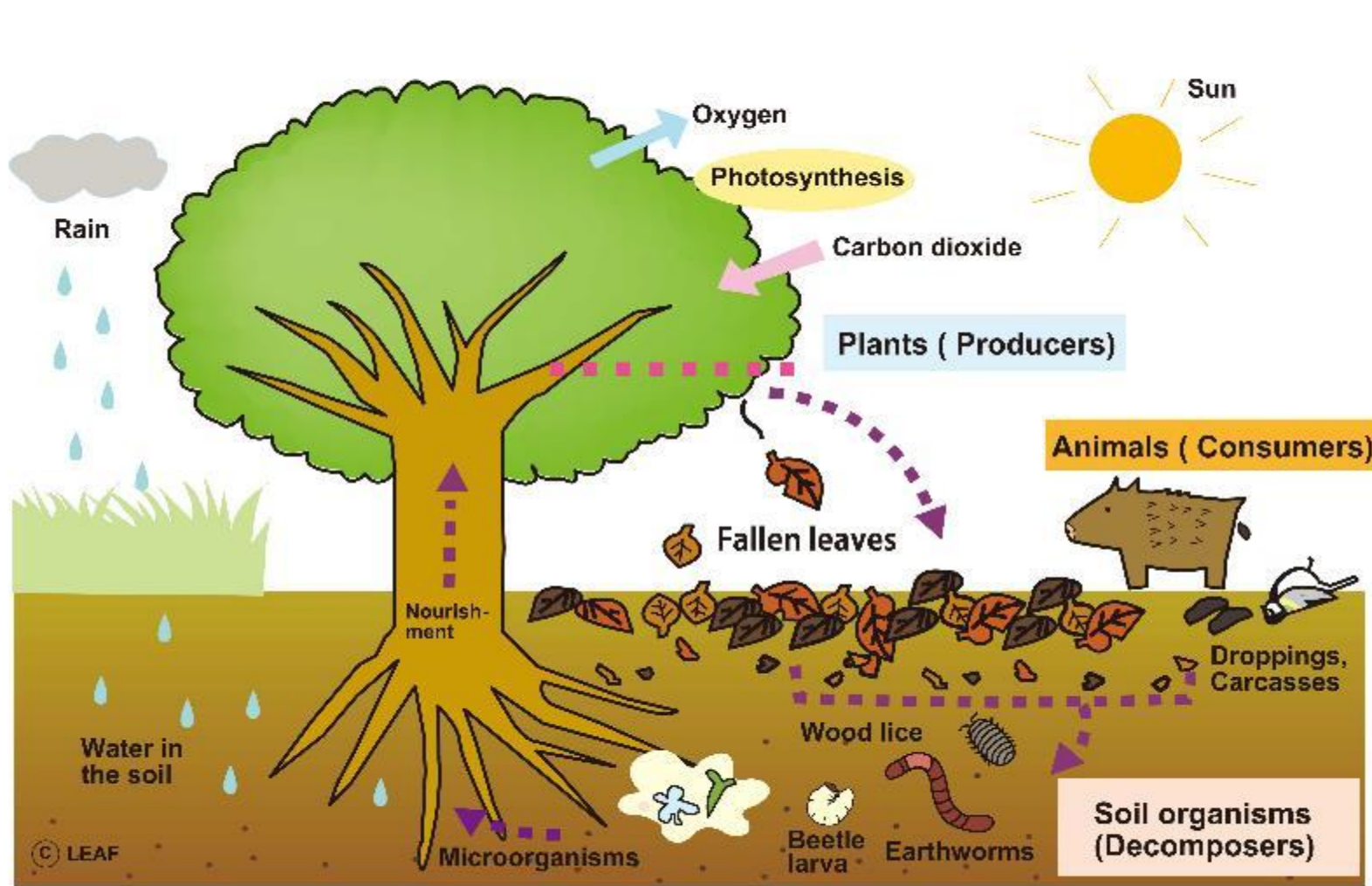


Environmental Learning Centre for Nature Environment



Natural connection

Whereabouts of fallen leaves



Creatures that eat fallen leaves and decayed trees



mushrooms



Door snails



Beetle larva



Earthworms



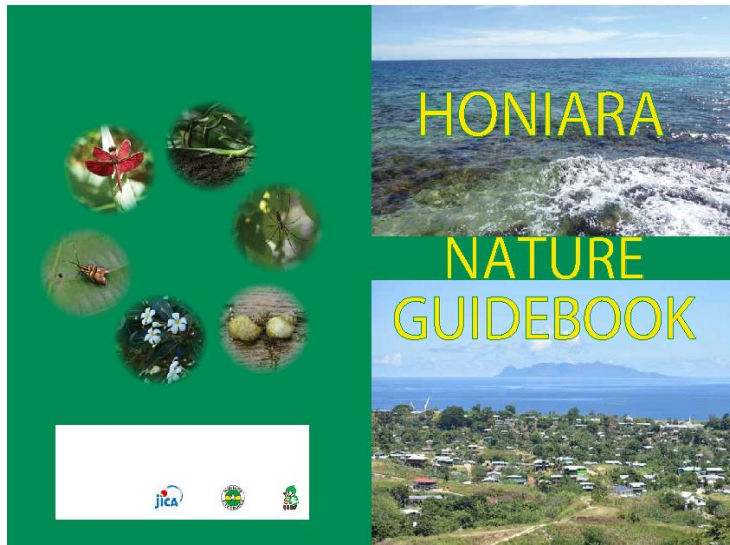
cWood lice

All creatures have a role to play in the natural world and are connected through the food chain, in which they support each other. People, too, form part of this network of connections as we live our lives. We should learn all we can about the mechanisms of the natural world and protect them, to ensure that we do not sever those connections.

Environmental teaching materials

Honiara Nature Guidebook

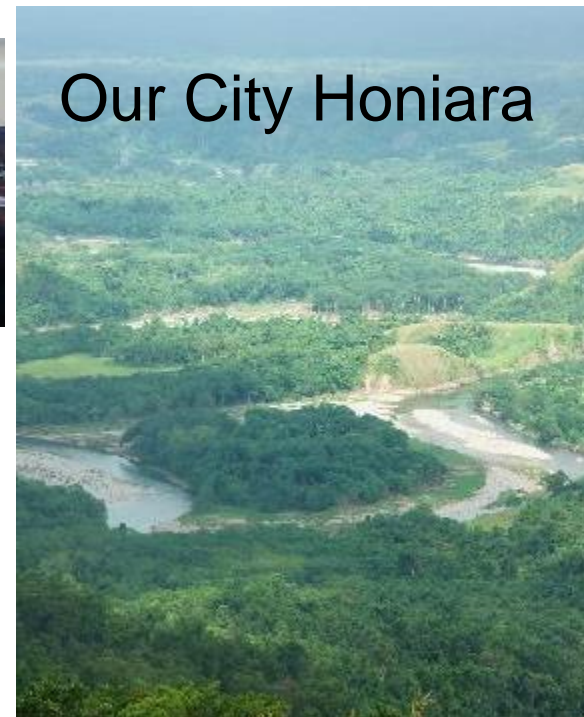
Already distributed to schools, kinder gardens, universities, and relevant organizations



Our City Honiara(Tentative image)

Community learning resource booklet
Collect and organize various kinds of information related to Honiara city (city history, culture, waste disposal, health and sanitation, disaster prevention and natural environment)

Now editing



Collection of different Species 164

	plant	insect	Crustacea other	Shell fish	reptiles/ amphibia	fish	bird	mammalia	total
town Forest	39	35	2	5	5	0	8	0	94
river/ stream	3	14	2	3	1	8	0	0	31
Sea shore	5	0	4	9	1	6	4	1	39
total	47	49	8	17	7	14	12	1	164

Learning study tours to Japan

The commemorative project for Honiara Declaration as an Environmental Learning City

Invitation to submit proposal for
Youth Action Plan
 for the Decade of Improving Honiara City

Submission criteria
From 13 to 25 years old

Filling documents
 Application form
 Action plan proposal (Number of report are as follows)
 Junior high school Number of report : 3pages
 High school Number of report : 4pages
 University Number of report : 5pages

Prize details * Enrolled in Honiara schools and Honiara residence of same age

- 1st Prize : Learning Study Tours to Japan
 (Sponsor will pay Travel expenses, Accommodation, Living expenses, Expenses of applying for passport)
 Junior high school 2persons , High school 1person, University 1person
- 2nd Prize : 5 set of Nature Guidebooks
 Each section (5 people)
- 3rd Prize : Participation award : Eco bag

Schedule

- 1st Submission Period
 1st June to 31st July , 2019(Deadline)
- 2nd Selection Period
 1st August to 10th August , 2019
- 3rd Announcement of selection results
 17th August , 2019

Judges

Honiara Partnership Committee Members

Submit your proposal to:

Honiara Partnership Committee secretariat
 Environmental Health Division, Honiara city council
 tel : 28294 / 7429060 E-mail : gtitulu@yahoo.com
 LEAF (Learning and Ecological Activities Foundation for children)
 tel : 8912450 E-mail : graceiakoba@gmail.com

- Study session before Learning Study Tours to Japan
 At the end of August
- Implement the environmental learning Study Tours to Japan
 21st September to 29th September, 2019

Host organization
 Honiara City Council
 Environment Health Division

Fund provider
 JICA (Japan International Cooperation Agency)



Annual Report 2019

Youth Action Plan
 for the Decade of Improving Honiara City

Honiara City Youth Learning Study Tour to Japan

1st Prize Winner
 2nd Prize Winner
 3rd Prize Winner

First prize winners and their youth action plans.

- 1st Prize Winner: Junior High School
- 2nd Prize Winner: High School
- 3rd Prize Winner: University

Host organization: Honiara City Council, Environmental Health Division
 Fund provider: JICA (Japan International Cooperation Agency)

Summary of Honiara city Environmental Education and Environmental Learning Promotion Plan

1. Objective

To promote sustainable community development through learning and cooperating with citizens, businesses, government authorities, and schools what Honiara facing to the issues of various environment and global environmental problems.

2. Term of the plan

5 years (January 2019 ~ December 2024) PDCA (review and continue)

3. Implementing Organization

Honiara city council Honiara city Partnership Committee

4. Contents of the plan

(1) Background of formulation of the planning

- ① The environmental problems (issues)
- ② The issues and past efforts in Honiara

(2) The environment in Honiara

- ① Outline of the environment
 - * History
 - * Geographical environment
 - * Natural environment
 - * Living environment
- ② Current situation of efforts of Environmental Education and Environmental Learning
 - * at school education
 - * at other than school education

(3) Purpose of Environmental Education and Environmental Learning

(4) Structure of Environmental Education and Environmental Learning Plan

- ① Visions of society aimed at and environmental issues
- ② Plan details

(5) Establishment of promotion system

- ① Location of environmental education and environmental learning plan promotion committee
- ② Effective enforcement of the plan



Honiara Environmental Learning City Declaration October 10, 2019

- The first of its kind in Solomon Islands
- We aim to build a sustainable city through environmental learning in participation and collaboration among various community sectors such as citizens, businesses, and municipal government, etc.(PARTNERSHIP)

Declaration as an Environmental Learning City Action Charter

**Learning
Together**

**Participation
Collaboration**

**Harmonious
Existence**

Circulation

Network


HONIARA ENVIRONMENT LEARNING CITY DECLARATION
DATE: 31 / 10 / 2019
HONIARA CITY COUNCIL IN PATNERSHIP WITH JICA
“A LIVABLE CITY FOR ALL”



Commemorative Ceremony

Honiara Environmental Learning City Declaration

A LIVABLE CITY FOR ALL



Time & Date
9:00 – 12:30 pm, 31st October 2019

Location
Someru Sitaru Kalandra Hotel, Honiara

Sponsorship
Honiara City Council

Cooperation
Honiara Partnership Committee / JICA / LEAF



Video conference between Honiara and Nishinomiya City on 6 Nov 2020

1 year anniversary of Environmental Learning City Declaration Clean Up



As the First Step to Build Sustainable Future



Honiara Declaration as an Environmental Learning City

Our ancestors, once surrounded by natural mountains, beautiful rivers and beaches, appreciated their natural resources as wealth and enjoyed and celebrated their lives. However, our city is now in a critical state, creating urban issues such as waste and beautification due to rapid urbanization and the creation of artificial environments. We must protect the environment before it is too late.

In order to preserve the wonderful assets of Honiara City, which have been inherited from its predecessors, for the next generation, we have consulted with experts from various sectors, the public, businesses, Honiara City Council, the government, churches, community organizations, NGOs, and various projects and activities on environmental and social issues. We must recreate a vibrant Honiara City with a focus on the natural environment, through the voluntary community activities of its residents and the technical expertise in areas that each sector can support. Our thinking and actions can bring about positive changes in our city and society.

All those who live, learn, and work in Honiara City communicate their continued commitment to building a sustainable community through environmental learning activities and cherish the spirit of respect and the feeling of appreciation for nature. Such changes will also help to realize the sustainable development goals adopted by the United Nations. In the future, Honiara residents will actively participate in environmental learning activities based on partnerships in various sectors, aiming to create a sustainable city that emphasizes an environment that future generations will be proud of. With this in mind, we hereby declare that we will develop my city, your city, and our city, Honiara, as a place of environmental learning, and we will establish the following Action Charter to achieve this.

[Action Charter]

1. We aim to be active citizens who can appreciate nature, learn and recognize the connection between history, culture, industry, and the environment, and practice environmentally friendly living.
2. We will promote environmental activities rooted in the community through cooperation with the public, businesses, Honiara City Council, national government, church, community organizations, and NGOs.
3. Review our way of life and society as a whole and establish a recycling-oriented city that emphasizes resources and energy.
4. Through a healthy and civilized life, we will realize a society in which people harmonize with nature and respect justice and peace.
5. We will build a cooperative network through environmental learning with people around the world and communicate to the next generation the rich global environment that everyone shares through the local environment.