



## PacWaste Plus Steering Committee Meeting



# Country Presentation

## Tuvalu

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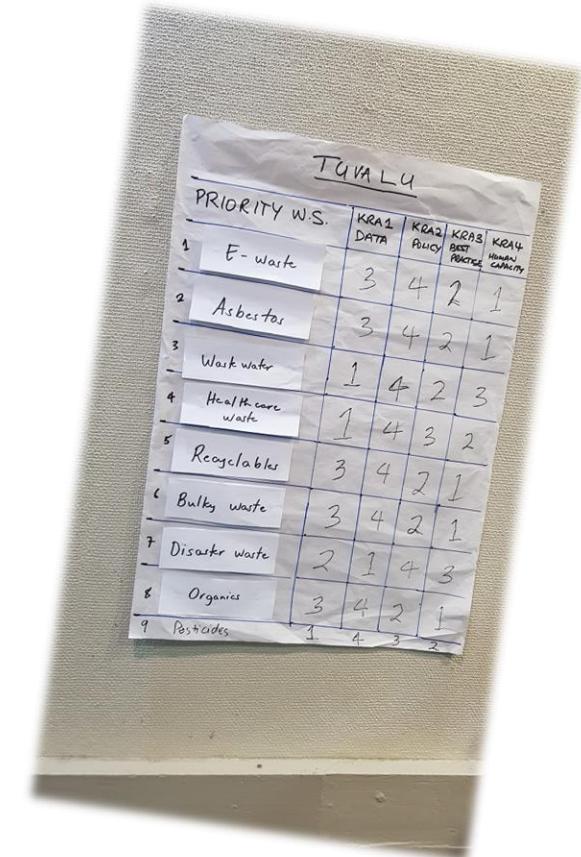
# Presentation Outline

- Tuvalu Waste Priorities
- Waste Management in Tuvalu
- Challenges and Limitation
- Clarification from PWP PMU
- Way forward



## Tuvalu Waste Priorities

Waste Priority	KRA 1	KRA 2	KRA 3	KR4
E – Waste	3	4	2	1
Asbestos	3	4	2	1
Wastewater	1	4	2	3
Health Care Waste	1	4	3	2
Recyclables	3	4	2	1
Bulky Waste	3	4	2	1
Disaster Waste	2	1	4	3
Organic	3	4	2	1
Pesticides	1	4	3	2



# Waste Management

## E – Waste

**Volume** : Close to 2 Containers full of collected e-waste

**Collection** : Weekly collection is provided by the DWM, hence private deliveries is also encouraged

**Dismantling** : No dismantling process due to lack of capacity and technical advice

**Shipment** : Still in negotiation with e-waste recycling companies in New Zealand and Australia for potential shipment of Tuvalu e-waste



# Waste Management

## Waste Oil

**Volume** : Close to 20,000 litres at the Storage facility

**Collection** : Open collection, bring in or request for collection

**Recycle** : Ship to Pacific BlueScope Company in Fiji

**Shipment** : 4 Shipment in 2017 **(20,000 litres)**

5 Shipment in 2018 **(25,000 litres)**

5 Shipment in 2019 **(25,000 litres)**



# Waste Management

## Asbestos

**Volume** : Asbestos volume from contaminated sites and buildings have been identified on Funafuti (not including the outer islands).

**Collection** : No collection schedule since training for removal, transport and storage has not conducted yet.

**Storage** : No specific site or storage facility identify for storage.

**Shipment** : No shipment or any arrangement made to safely dispose asbestos



# Waste Management

## Asbestos

Household Survey	No of Households
Total Households in Funafuti (2012 Census)	639
Households Surveyed	350
Households PACM Suspected (Cladding Only)	161
Extrapolating to full Funafuti Population (95% Confidence Level) - No of houses with suspected asbestos cladding:	294 +/- 3.5%
Conclusion from Results	No of Households
Total Cladding Samples taken	38
Cladding Samples Positive	7
Percentage of Cladding Positive	18.4
Based on 18.4%, no of houses inspected that have asbestos cladding	30
Extrapolating to full Funafuti Population (95% Confidence Level) - No of houses with asbestos cladding:	55 +/- 3.5%

# Waste Management

## Used Lead Acid Batteries (uLABs)

**Volume** : Approximately half a container of uLAB's

**Collection** : Weekly collection is provided by the DWM, hence private deliveries is also encouraged

**Packing** : Stacks in pallet into a container

**Shipment** : Successful negotiation were made with the Pacific Batteries to ship to Fiji



# Waste Management

## Health Care Waste

**Volume** : Average of 1m<sup>3</sup> per day

**Collection** : Provided by the Ministry of Health.

**Storage** : No proper and safe storage facility available

**Incinerate** : Currently using the manual process of burning medical waste since the incinerator procured under PacWaste Project broke down in 2016



# Waste Management

## Recyclables

**Volume** : Aluminum cans and plastics bottles (1 container)

**Collection** : Daily collection provided

**Storage** : Funafuti Transfer and Recycling Station (Recovered)

**Recycling** : Few potential markets has been identified



# Waste Management

## Bulky waste

**Volume** : 150m<sup>3</sup> of bulky waste at the landfill

**Collection** : Daily collection provided

**Storage** : Funafuti Transfer and Recycling Station (Recovered)

**Recycling** : Few potential markets has been identified in NZ  
during our study tour

**Equipment**: Metal baler, Plasma cutter & Portable generator  
donated by World Bank



# Waste Management

## Green waste

**Volume** : 60% of the total daily waste generation volume

**Collection** : Daily collection

**Storage** : Funafuti Transfer and Recycling Station (composting section)

**Recycling** : 100% of green waste generated will turn into compost

**Equipment**: Truck & Wood chipper

**Selling of Compost**: Sell to the Taiwan Commercial Garden project  
and local farmers



# Waste Management

## Pesticides

**Volume** : Not available

**Collection** : No collection

**Storage** : Tuvalu Agriculture Department and Taiwan Garden warehouse

**Legislation** : Waste Management Act 2017

**Management** : Cabinet endorsed Tuvalu to become party to  
Rotterdam Convention in October 2019



# Challenges and Limitation

**Human Resource** : Lack of human resource to fully implement, manage and enforce waste management legislations

**Limited land space** : Very limited land space for waste disposal mainly on Funafuti

**Backloading of recyclable wastes** : No specific landing-craft for outer islands to return recyclable wastes

**Capacity** : Lack of capacity on recycling activities, procedures and safety measures

**Recycling Market** : Very challenging to get a good market to cover shipping cost

**Enforcement of Legislation** : Not to the point we wanted, public need more awareness and education programmes on waste legislation

**Awareness and Education** : Limited time to outer islands and costly

**Occupational Safety** : Need more ground training and proper equipment

### Clarification from PWP (PMU)

- More clarification on PacWaste Plus Projects coverage and clear implementation timeline based on Island Priorities as most islands have similar waste priorities.
- More clarification on KRA 1 in relation to collate and review country existing data on waste through conducting survey and study. Does PWP recognize previous studies and surveys at the national as baseline?.
- PWP PMU to provide clarification and update on work with the University of the South Pacific to assess existing accredited and vocational waste courses and commence development of new courses to fill gaps.
- Provide more clarification on National Project Committee. Should the country develop a ToR for the Committee or the PMU will do that?.





### Way Forward

- Ensure Tuvalu waste priorities are addressed under PWP set timeline
- Establish and improve a good coordination among public and private sector towards waste priorities
- Establishment of the National Project Committee based on established mandates
- Work closely with sub region Project Officer to implement waste priorities towards the expected outcome through allocated timelines.
- Utilizing PWP technical and financial support to bring new ideas, methods and approaches to achieve waste management goals in a more sustainable way.
- Support mechanisms that coordinate, facilitate and promote local solid waste management efforts.
- Improve information quality and reliability for decision making.
- Scaling up best practices and initiatives to promote circular economy



## PacWaste Plus Steering Committee Meeting



**Thank You**

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